TimeTec API

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CONTENTS

WebServiceLogin	6
GetCompanyID	7
GetUserInfo	8
GetAllUserInfo	12
GetUserInfoByEmail	16
GetAvailableLicense	20
GetTerminalUserInfo	21
GetAllTerminalUserInfo	23
GetLog	25
GetAllLog	27
GetTerminalInfo	29
GetApiLimit	31
GetFingerprint	32
GetAuditData	34
GetAttendance	36
GetAllAttendance	43
GetApprovedAttendance	49
GetAllApprovedAttendance	55
GetApprovedOT	61
GetAttendanceAllowance	64
GetAttendanceSummary	66
GetAttendanceSummary2	68
GetLeaveType	70
GetPayrollAttendance	72
GetUserLeave	74
GetApprovedPendingLeaves	76
SetUserLeave	79

SetUserLeave2 80
AddLeaveType 83
UpdateLeaveType 84
AddUser 85
AddUser2 87
UpdateUser 91
UpdateUser2 93
UpdateUserStatus 97
GetSchedule 99
GetAllSchedule 111
GetCompanySetting 124
GetBranch 127
GetDepartment 128
GetSection 129
GetDayType 130
GetRemark 132
GetAllHoliday 134
GetBranchHoliday 136
GetGroupDutyRoster 138
GetUserDutyRoster 142
UpdateCompanySetting 146
AddBranch 148
UpdateBranch 149
AddDepartment 150
UpdateDepartment 151
AddSection 152
UpdateSection 153
AddRemark 154
UpdateRemark 155
UpdateDayType 156
GetOrgStructure 157
GetOrgStructureHoliday 159
GetAttendanceJobCost 161

GetAllAttendanceJobCost 168
GetApprovedSumWorkingHour 172
GetAuditDataByClockingMethod 176
GetAuditDataByDate 178
GetAuditDataCount 180
GetAuditDataWithLocation 181
GetAllApprovedOutOfAreaClocking 183
AddOrgStructure 185
AddOrgStructure2 186
UpdateOrgStructure 190
UpdateOrgStructure2 191
DeleteOrgStructure 193
DeleteOrgStructure2 194
AssignOrgStructure 196
WebServiceLogout 198

WSDL

https://api.timeteccloud.com/webservice/WebServiceTimeTecAPI.asmx?WSDL

WebServiceLogin

- Description: Login to TimeTec web service
- Param: Username, Password
- Param Description:

Param	Description	Data Type	Size	Remark
Username	Value of Username is the username of TimeTec Cloud API login.	Varchar	50	Required
Password	Value of Password is the password of TimeTec Cloud API login.	Varchar	255	

- Return:

Type	Possible variable	Description	Data Type	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	Text	1. Username or password is not valid 2. Invalid parameter
Result	Status	Indicate whether or not the function is executed successfully		Success, Fail
	SecurityToken	Used for authentication for subsequent function. Need to put in SoapHeader when call subsequent function from web service. Eg (PHP). $auth = array('SecurityToken'=>$this->getSecurityToken()); $header = new SoapHeader($this->namespace,'WebServiceSoapHeader',$auth,false);	Varchar (255)	CF4C25A5F6142BE2BDE0A5086B43825141C2AEA5

• Sample return message:

i. Success


```
{
  "ErrorMessage":"",
  "Result":{
    "Status":"Success",
    "SecurityToken":"CF4C25A5F6142BE2BDE0A5086B43825141C2AEA5"
  }
```


ii. Fail


```
{
  "ErrorMessage":"Username or password is not valid",
  "Result":{
    "Status":"Fail",
    "SecurityToken":""
  }
}
```


GetCompanyID

- Description: To get Company ID
- Param: No parameter is required.
- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Security token is not valid 2. Invalid parameter
Result	Status		Success, Fail
	Company_ID	Company ID	387

- Sample return message:

i. Success


```
{
  "ErrorMessage":"",
  "Result":{
    "Status":"Success",
    "CompanyID":"387"
  }
}
```

ii. Fail

```
{
  "ErrorMessage":"Invalid parameter",
  "Result":{
    "Status":"Fail",
    " CompanyID ":""
  }
}
```

GetUserInfo

- Description: To get user info by Company ID and User ID
- Param: CompanyID, UserID

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
UserID	User ID			

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Security token is not valid 2. Invalid parameter 3. User not found
Result	Status		Success, Fail
	Company_ID	Company ID	-
	User_ID	User ID	
	Employee_ID	Employee No.	
	Name	Employee Name	
	Branch	-	-
	Department		
	Section		
	SSN	Social Security No.	

	ID	ID No.	
	Phone	Telephone No.	
	Email		
	Address		
	HourRate	Rate / Hour	
	GroupNo	Duty Group	
	Privilege	0 : User 1 : Enroller 2 : Admin 3 : Supervisor	-
	Username		
	CardNo	Card No.	
	WebAble	Web Punch 1 : Enable 0 : Disable	1, 0
	Mobile_ID	Mobile ID	
	MobileAble	Mobile Check In 1 : Enable 0 : Disable	1, 0
	CreateDate	-	-
	LastUpdate		
	SuspendDate		
	LastSignIn		
	IssueDate	Issued	-
	ExpireDate	Expired	
	Remark		
	TimeZone	Time Zone	
	DST	1 : Enable 0 : Disable	1, 0

	Alias		
	Gender		
	DateOfBirth		
	Nationality		
	Race		
	Religion		
	PersonalEmail		
	Designation		
	AllowLiveChat	1: Allowed 0: Not Allowed	
	PositionLevel	Name of position level	Manager
	PositionLevelID	ID of position level	9
	EffectiveDate	Effective Date of Employment Status	2020-04-20
	UserType		Operator, Admin, SystemAdmin, User
	OrganizationStructureID	Organization Structure ID	6487
	OrganizationStructure	Organization Structure	Sales & Marketing

- Sample return message:

i. Success


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "UserInfoObj":[
   {
    "Company_ID":"387",
    "User_ID":"92",
    "Employee_ID":"",
    "Name":"FAIZ SHU IZHAN - AC900",
    "Branch":"Malaysia",
    "Department":"Technical Support",
```

```
            "Section":"",
            "SSN":"",
            "ID":"",
            "Phone":"",
            "Email":"",
            "Address":"",
            "HourRate":"",
            "GroupNo":"88",
            "Privilege":"0",
            "Username":"",
            "CardNo":"0",
            "WebAble":"0",
            "Mobile_ID":"",
            "MobileAble":"0",
            "CreateDate":"13\/9\/2012 12:21:32 PM",
            "LastUpdate":"23\/4\/2013 4:20:15 PM",
            "SuspendDate":"",
            "LastSignIn":"",
            "IssueDate":"21\/9\/2012 12:00:00 AM",
            "ExpireDate":"",
            "Remark":"",
            "Timezone":"",
            "DST":"0",
            "Alias":"Shu",
            "Gender":"Female",
            "DateOfBirth":"1987-12-30",
            "Nationality":"Malaysian",
            "Race":"Malay",
            "Religion":"Islam",
            "PersonalEmail":"",
            "Designation":"Senior Manager",
            "AllowLiveChat":"0",
            "PositionLevel":"Manager",
            "PositionLevelID":"9",
            "UserType":"User",
"OrganizationStructureID":"6487",
"OrganizationStructure":"Sales &  Marketing"
          }
        ]
       }
     }
```


ii. Fail


```
    {
      "ErrorMessage":"Invalid parameter",
```

```
  "Result":{
    "Status":"Fail",
    "UserInfoObj":""
  }
}
```

GetAllUserInfo

- Description: To get all users info from the same company
- Param: CompanyID

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Security token is not valid 2. Invalid parameter
Result	Status		Success, Fail
	Company_ID	Company ID	-
	User_ID	User ID	
	Employee_ID	Employee No.	
	Name	Employee Name	
	Branch	-	-
	Department		
	Section		
	SSN	Social Security No.	
	ID	ID No.	
	Phone	Telephone No.	
	Email		

	Address		
	HourRate	Rate / Hour	
	GroupNo	Duty Group	
	Privilege	0 : User 1 : Enroller 2 : Admin 3 : Supervisor	-
	Username		
	CardNo	Card No.	
	WebAble	Web Punch 1 : Enable 0 : Disable	1, 0
	Mobile_ID	Mobile ID	
	MobileAble	Mobile Check In 1 : Enable 0 : Disable	1, 0
	CreateDate	-	-
	LastUpdate		
	SuspendDate		
	LastSignIn		
	IssueDate	Issued	
	ExpireDate	Expired	-
	Remark		
	TimeZone	Time Zone	
	DST	1 : Enable 0 : Disable	1, 0
	Alias		
	Gender		
	DateOfBirth		

	Nationality		
	Race		
	Religion		
	PersonalEmail		
	Designation		
	AllowLiveChat	1: Allowed 0: Not Allowed	
	PositionLevel	Name of position level	Manager
	PositionLevelID	ID of position level	9
	EffectiveDate	Effective Date of Employment Status	2020-04-20
	UserType		Operator, Admin, SystemAdmin, User
	OrganizationStructureID	Organization Structure ID	6487
	OrganizationStructure	Organization Structure	Sales & Marketing

- Sample return message:

i. Success


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "UsersObj":[
   {
    "Company_ID":"387",
    "User_ID":"92",
    "Employee_ID":"",
    "Name":"FAIZ SHU IZHAN - AC900",
    "Branch":"Malaysia",
    "Department":"Technical Support",
    "Section":"",
    "SSN":"",
    "ID":"",
    "Phone":"",
    "Email":"",
```

```
            "Address":"",
            "HourRate":"",
            "GroupNo":"88",
            "Privilege":"0",
            "Username":"",
            "CardNo":"0",
            "WebAble":"0",
            "Mobile_ID":"",
            "MobileAble":"0",
            "CreateDate":"13\/9\/2012 12:21:32 PM",
            "LastUpdate":"23\/4\/2013 4:20:15 PM",
            "SuspendDate":"",
            "LastSignIn":"",
            "IssueDate":"21\/9\/2012 12:00:00 AM",
            "ExpireDate":"",
            "Remark":"",
            "Timezone":"",
            "DST":"0",
            "Alias":"Shu",
            "Gender":"Female",
            "DateOfBirth":"1987-12-30",
            "Nationality":"Malaysian",
            "Race":"Malay",
            "Religion":"Islam",
            "PersonalEmail":"",
            "Designation":"Senior Manager",
            "AllowLiveChat":"0",
            "PositionLevel":"Manager",
            "PositionLevelID":"9",
            "UserType":"User",
            "OrganizationStructureID":"6487",
            "OrganizationStructure":"Sales &  Marketing"
          }
        ]
      }
    }
```


ii. Fail


```
    {
      "ErrorMessage":"Invalid parameter",
      "Result":{
        "Status":"Fail",
        "UsersObj":""
      }
    }
```

GetUserInfoByEmail

- Description: To get user info by Company ID and User Email
- Param: CompanyID, Email

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
Email	Email	Varchar	100	Required

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Security token is not valid 2. Invalid parameter 3. User not found 4. No user license is available
Result	Status		Success, Fail
	Company_ID	Company ID	-
	User_ID	User ID	
	Employee_ID	Employee No.	
	Name	Employee Name	
	Branch	-	-
	Department		
	Section		
	SSN	Social Security No.	
	ID	ID No.	
	Phone	Telephone No.	
	Email		
	Address		

	HourRate	Rate / Hour	
	GroupNo	Duty Group	
	Privilege	0 : User 1 : Enroller 2 : Admin 3 : Supervisor	-
	Username		
	CardNo	Card No.	
	WebAble	Web Punch 1 : Enable 0 : Disable	1, 0
	Mobile_ID	Mobile ID	
	MobileAble	Mobile Check In 1 : Enable 0 : Disable	1, 0
	CreateDate	-	-
	LastUpdate		
	SuspendDate		
	LastSignIn		
	IssueDate	Issued	-
	ExpireDate	Expired	
	Remark		
	TimeZone	Time Zone	
	DST	1 : Enable 0 : Disable	1, 0
	Alias		
	Gender		
	DateOfBirth		
	Nationality		

	Race		
	Religion		
	PersonalEmail		
	Designation		
	AllowLiveChat	1: Allowed 0: Not Allowed	
	PositionLevel	Name of position level	Manager
	PositionLevelID	ID of position level	9
	UserType		Operator, Admin, SystemAdmin, User
	OrganizationStructureID	Organization Structure ID	6487
	OrganizationStructure	Organization Structure	Sales & Marketing

- Sample return message:

i. Success


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "UserInfoObj":[
   {
    "Company_ID":"387",
    "User_ID":"92",
    "Employee_ID":"",
    "Name":"FAIZ SHU IZHAN - AC900",
    "Branch":"Malaysia",
    "Department":"Technical Support",
    "Section":"",
    "SSN":"",
    "ID":"",
    "Phone":"",
    "Email":"",
    "Address":"",
    "HourRate":"",
    "GroupNo":"88",
    "Privilege":"0",
```

```
            "Username":"",
            "CardNo":"0",
            "WebAble":"0",
            "Mobile_ID":"",
            "MobileAble":"0",
            "CreateDate":"13\/9\/2012 12:21:32 PM",
            "LastUpdate":"23\/4\/2013 4:20:15 PM",
            "SuspendDate":"",
            "LastSignIn":"",
            "IssueDate":"21\/9\/2012 12:00:00 AM",
            "ExpireDate":"",
            "Remark":"",
            "Timezone":"",
            "DST":"0",
            "Alias":"Shu",
            "Gender":"Female",
            "DateOfBirth":"1987-12-30",
            "Nationality":"Malaysian",
            "Race":"Malay",
            "Religion":"Islam",
            "PersonalEmail":"",
            "Designation":"Senior Manager",
            "AllowLiveChat":"0",
            "PositionLevel":"Manager",
            "PositionLevelID":"9",
            "UserType":"User",
            "OrganizationStructureID":"6487",
            "OrganizationStructure":"Sales &  Marketing"
          }
        ]
      }
    }
```


ii. Fail


```
{  "ErrorMessage":"Invalid parameter",
   "Result":{
     "Status":"Fail",
     "UserInfoObj":""}
}
```

GetAvailableLicense

- Description: To get company license remaining unit and details
- Param: CompanyID
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID		Varchar	10	Required

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function. Affected database and table name will be appended at the front of error message and separated by colon.	1. Security token is not valid 2. Invalid parameter
Result	Status	-	Success, Fail
	Type	-	-
	Unit		
	ExpiryDate		
	RemainingLicenseUnit		

- Sample return message:

i. Success


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "LicenseObj":[
   {
    "Type":"User",
    "Unit":"550",
    "ExpiryDate":"2014-12-07 00:00:00",
    "RemainingLicenseUnit":"401"
   },
   {
```

```
      "Type":"LoginUser",
      "Unit":"570",
      "ExpiryDate":"2014-12-07 00:00:00",
      "RemainingLicenseUnit":"557"
     },
     {
      "Type":"Terminal",
      "Unit":"20",
      "ExpiryDate":"2014-12-07 00:00:00",
      "RemainingLicenseUnit":"19"
     }
    ]
   }
  }
```


ii. Fail


```
  {
   "ErrorMessage":"Invalid parameter",
   "Result":{
    "Status":"Fail",
    " LicenseObj":""
   }
  }
```


GetTerminalUserInfo

- Description: Get company terminal users info by serial number
- Param: CompanyID, SerialNo
- Param description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
SerialNo	Serial No.			

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter 2. Security token is not valid
Result	Status		Success, Fail

	Terminal_ID	Terminal ID	-
	Terminal_SN	Serial No	
	TerminalDesc	Description	
	Terminal_Group	Terminal Group	
	Model	Model	
	IP	-	
	Port		
	DST		
	name	Username	
	cardnumber	Card No.	
	timezone	Time Zone	
	password	Terminal User Password	
	privilege	0 : User 1 : Enroller 2 : Admin 3 : Supervisor	

- Sample return message:

i. Success


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "TerminalUserInfoObj":[
   {
    "Terminal_ID":"216",
    "Terminal_SN":"3205501",
    "TerminalDesc":"216",
    "Terminal_Group":"1",
    "Model":"Kadex",
    "IP":"192.168.1.201",
    "Port":"4370",
    "DST":"0",
    "name":"",
    "cardnumber":"0000000000",
```

```
        "timezone":"0000000000000000",
        "password":"",
        "privilege":""
       }
      ]
     }
    }
```


ii. Fail


```
{
  "ErrorMessage":"Invalid parameter",
  "Result":{
    "Status":"Fail",
    " TerminalUserInfoObj ":""
  }
}
```


GetAllTerminalUserInfo

- Description: Get all terminal users info from the same company
- Param: CompanyID
- Param description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter 2. Security token is not valid
Result	Status		Success, Fail
	Terminal_ID	Terminal ID	-
	Terminal_SN	Serial No	
	TerminalDesc	Description	
	Terminal_Group	Terminal Group	
	Model	Model	

	IP	-	
	Port		
	DST		
	name	Username	
	cardnumber	Card No.	
	timezone	Time Zone	
	password	Terminal User Password	
	privilege	0 : User 1 : Enroller 2 : Admin 3 : Supervisor	

- Sample return message:

iii. Success


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "AllTerminalUserInfoObj":[
   {
    "Terminal_ID":"219",
    "Terminal_SN":"3102417",
    "TerminalDesc":"219",
    "Terminal_Group":"1",
    "Model":"Kadex",
    "IP":"192.168.1.201",
    "Port":"4370",
    "DST":"0",
    "name":"",
    "cardnumber":"0000000000",
    "timezone":"0000000000000000"
    "password":"",
    "privilege":""
   }
  ]
 }
}
```


Fail

```
{
  "ErrorMessage":"Invalid parameter",
  "Result":{
    "Status":"Fail",
    " AllTerminalUserInfoObj ":""
  }
}
```


GetLog

- Description: Get company user clocking time details
- Param: CompanyID, UserID, CheckTimeFrom, CheckTimeTo, RecordShowFrom, LimitRecordShow
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
UserID	User ID	Int	10	Required
CheckTimeFrom	CheckTimeFrom is the start clocking date CheckTimeTo is the end of clocking date Maximum 1 month period between CheckTimeFrom and CheckTimeTo	Date	yyyy-MM-dd	Required
CheckTimeTo				
RecordStartFrom	RecordStartFrom is to show record start from the input number Default value is 0.	Int	11	Optional
LimitRecordShow	LimitRecordShow Is the total number of record to show. Maximum number of records show is 1000. Default value is 1000.			

- Return:

Type	Possible variable	Description	Possible value

Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter 2. Security token is not valid
Result	Status		Success, Fail
	checktime	Clocking Time	24/7/2013 1:56:26 PM
	checktype	Clocking Type 0 : Check-In 1 : Check Out 2 : Break Out 3 : Resume In 4 : Overtime-In 5 : Overtime-Out	0, 1, 2, 3, 4, 5
	verifycode	0 : Password 1 : Fingerprint 2 : Card 15 : Face	0, 1, 2, 15
	serialno	Serial No.	3205501

- Sample return message:

i. Success:


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "LogObj":[
   {
    "checktime":"5\/8\/2013 12:06:32 PM",
    "checktype":"255",
    "verifycode":"1",
    "serialno":"3205501"
   }
  ]
 }
}
```


ii. Fail


```
{
  "ErrorMessage":"Invalid parameter",
  "Result":{
    "Status":"Fail",
    "LogObj":""
  }
```

}

GetAllLog

- Description: Get company all users clocking time details
- Param: CompanyID, CheckTimeFrom, CheckTimeTo, RecordShowFrom, LimitRecordShow
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Unique ID assigned to company	Varchar	10	Required
CheckTimeFrom	Maximum 1 month period	Date	yyyy-MM-dd	Required
CheckTimeTo				
RecordStartFrom	RecordStartFrom is to show record start from the input number Default value is 0.	Int	11	Optional
LimitRecordShow	LimitRecordShow Is the total number of record to show. Maximum number of records show is 1000. Default value is 1000.			

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter 2. Security token is not valid
Result	Status		Success, Fail
	checktime	Clocking Time	24/7/2013 1:56:26 PM
	checktype	Clocking Type 0 : Check-In 1 : Check Out 2 : Break Out 3 : Resume In 4 : Overtime-In 5 : Overtime-Out	0, 1, 2, 3, 4, 5

	verifycode	0 : Password 1 : Fingerprint 2 : Card 15 : Face	0, 1, 2, 15
	serialno	Serial No.	3205501

- Sample return message:

i. Success:


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "AllLogsObj":[
   {
    "User_ID":"92",
    "checktime":"5\/8\/2013 12:06:32 PM",
    "checktype":"0",
    "verifycode":"1",
    "serialno":"3205501"
   }
  ]
 }
}
```


ii. Fail


```
{
  "ErrorMessage":"Invalid parameter",
  "Result":{
    "Status":"Fail",
    " AllLogsObj":""
  }
}
```

GetTerminalInfo

- Description: Get company terminal info
- Param: CompanyID
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter 2. Security token is not valid
Result	Status		Success, Fail
	serialno	Serial No.	
	description	Description	
	lastactivity	Last Connection	24/9/2013 7:06:35 AM
	created_time		24/9/2013 7:06:35 AM
	fwversion	Firmware	Ver 6.60 Nov 15 2011
	fpcount	Fingerprint	-
	transactioncount	-	
	usercount		
	maxfingercount		
	maxattlogcount		
	devicename	Model	R2
	volume	-	-
	dtfmt		
	ipaddress		

	tzadj		
	ftfpversion		

- Sample return message:

i. Success:


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "TerminalInfoObj":[
   {
    "serialno":"3102417",
    "description":"",
    "lastactivity":"24\/9\/2013 7:06:35 AM",
    "created_time":"10\/7\/2013 2:04:58 PM",
    "fwversion":"Ver 6.60 Nov 15 2011",
    "fpcount":"2",
    "transactioncount":"175",
    "usercount":"72",
    "maxfingercount":"100",
    "maxattlogcount":"20",
    "devicename":"TA100C",
    "volume":"10",
    "dtfmt":"0",
    "ipaddress":"192.168.1.91",
    "tzadj":"8",
    "ftfpversion":"10"
   }
  ]
 }
}
```


ii. Fail


```
{
  "ErrorMessage":"Invalid parameter",
  "Result":{
    "Status":"Fail",
    " TerminalInfoObj ":""
  }
}
```

GetApiLimit

- Description: Get company webservice Api limit available of the day
- Param: CompanyID
- Param description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter 2. Security token is not valid
Result	Status	-	Success, Fail
	ApiLimit		9794

- Sample return message

i. Success

```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "ApiLimitObj":{
   "ApiLimit":"9794",
   "ErrorMessage":""
  }
 }
}
```

ii. Fail

```
{
  "ErrorMessage":"Invalid parameter",
  "Result":{
    "Status":"Fail",
    " ApiLimitObj ":""
  }
}
```

GetFingerprint

- Description: Get user fingerprint data by User ID
- Param: CompanyID, UserID, AlgoVer
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
UserID	User ID	Int	10	
AlgoVer	Algorithm version 9 or 10	Enum	9,10	

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter 2. Security token is not valid
Result	Status	-	Success, Fail
	Fp0		-
	Fp1		
	Fp2		
	Fp3		
	Fp4		
	Fp5		
	Fp6		
	Fp7		
	Fp8		
	Fp9		

- Sample return message

i. Success

{"ErrorMessage":"",

```
"Result":{
        "Status":"Success",
        "FingerprintObj":[{
            "Fp0":"TxdTUzIxAAAGVFYECAUHCc7QAAAeVWkBAAAAhvlT
        uVQTABkOLwDcAMtY1QAbAJgOaQAbVJAN+AAdAGQOAVUcAL4Oig
        DlAAtaJwAhAMMM+QAjVO0OLAArABYJIFQ4AMUKjQD\/AIZbCgE7A
        CsObgBGVIwPEgBDAIYKHFRCAMMKkACGABBb9gBIAKoNhQBIVOIO
        mQBOAEMPMlROANML6wCUACFZdgBZAGcPwgFbVL8N9QBeAG0NZ
        1RgAO4PJwCnANZaGwBjAMUORgBwVEwNBwF8AGoPelSDAEUNEAB
        CAM1ajQCNADMNuACWVD0MBAGbAOgP+lSfAK8PigBkAD5aDAGm
        AK8PugCtVDsNRACsAIMPpVS5ADUOfgB5ADFZ1QC\/AC4PygDEVDwL
        DgHCAIMNGFTEAMALGAANAD1ZqwDIALUOlgDLVDsPvgDOAH0OkFT
        RALcOpwAWADRa\/gDUALANTQDeVLYPsgDeAHEORlThAEAP7AAsA
        Cpa9wDyAKwO+QDzVDwPnwD2AGsPBFUBAb0MzADEAa5bKQAEATs
        O3gAOVTgOhgAQAWAPolQRAaEOdwDUARBb2gAdAT0N6QAYVbgN
        BQEeAXsMr1QgATANKQDjATZZyAAoAT4PMAAsVbgN\/QAqAQ8NGF
        QtAbkNCgHpAVZafQAyARwNXgA1VYUMaQA2AVMNilQ2ARQNpwD9
        AT5YIAA5AakMFIp\/1rqNFA\/R4Tz9f9bv+WoK2XqrhTRR4OQKeWIJg
        Bz4wBIUsY9yfWv57qeh+8XaBRjwIRt+WRP9EKHoSPQnUCiGNG4t\/n
        h3u9YTbJptWQq0e3hYPYItgnaA+YKnVNDzHJqRkKCLO9AYBsGCGBPH
        FDx0oHDh+qUKbfMDUlQTQXyBgK9oiy5LHP5QQRmsF1DMfIDV7Z0C
        QIosWquiLA+J\/lPsvqN\/BKL0iQigHntHk\/AWhH4J1Ph\/XFQVggmO\
        /zKTw6zk8ZH9Afj4CG9RxYJ5gBqAAYbjVZ8BrQANBSj9c9BkARFrKQR
        MBANXaw2mi6cNuICn14QHDfweALuAvy\/Le7d8XAeIfDGumJr5m+q
        a6YZP0N+DNH7cA5r8EtN8gNn9qf8z9ZmoJAVVBUGK8ADX0LgGGH9x
        gBB8qzowhx4EtQC7gMDQbISp\/X0CTAUnX5sHdIM1f7Nwctf48aL8Df
        1sBqhSDA+u\/J59rBEEVGeQBmwebnt+v1AsAoGHPQCog3BcWJDeBC
        qJ0HGfo2P8aXCm\/H+Cq1VYh\/KUFIrsAYfXHPT1cCkFwJGr+pT6IHq8
        e2SJK1XPELIKyPJo\/cs9ORK8f5EMcYv6R6gBuIvllHCZd1zciWaYDE+0c
        N8C4H3uhbqCpJD\/rGzf2LcNCgwniqeoeanzN0f5xLAA0ux+FQIghAEE
        ExqTCQDHAdvAxpQtwAMA5wLb\/gJU1wMeXAMAfgUQqwIAewYA\/
        8MAb1N7gMYEACHPQ3BQAaIKEDEExBQJGJgHAMAWIAcv+VEBYRf3\
        /kvGAFlMccAEANge5UoQVDwh5\/5AQDv8xak\/VG0RAI3kDMaqL1N
        SwME6wAD9dTHAKAUAOexXxJf8BADOKyDyDgYqOXrCwsHBBJBpqQ
        gAG7DMwznCxqk9BAENPjf\/CQb8QZaJxMGGygCUFhfAKP9Ewpr\/Al
        QORkbAwAXFFUBpMhcAQEnaOP7GqP41\/MD+\/zrB+ZTBwcBbEgBS
        SoqXmoB0av570gA1H8j++kE4MwX8xqpSaxkAOEwJ\/Pof\/P7\/QStK
        ocExUQEjT0Y3E8WVVtjCw8OJwXA6e8YyCwCdURwrOv\/GOAYA6lUr
        YvYIBiBbZ4zBhAPF\/FppxAYBAFwwB\/35lBIAY1\/n\/Tgk+GrBVIDBBA
        DjZlbWBgCGdiQ4O8EFVIV8PcEIAE+EL6v+\/sBBDgC9hUqVw1LCbMK
        DwQAJ303EwA8Ai1Qt+RTDd8HBwvs4CgYvlUNdlMPBwQCGwDtoAw
        EBnvHBD1QHokPDP8A7wg9UbaRDZ3vE1AC08LzCg8XDxgHBxCxsBAC
        OpTSVAwbspjfAAwCzbTfGXwFBr0zCVTrDxyQFAEavQz3GAIbkNsAJA
        HW5hcHHlsHDlgUAjXs6eVMBfr83eHbWAKvru3jBw8HLAnPCNokEAN
```

jCLbYFBofCNMJeBADTzDwFBQCLzjeDyABXhEGAScLB+vYAAAAAAAA
A",
"Fp1":"",
"Fp2":"",
"Fp3":"",
"Fp4":"",
"Fp5":"",
"Fp6":"",
"Fp7":"",
"Fp8":"",
"Fp9":""}}

ii. Fail

{"ErrorMessage":"Invalid parameter",
"Result":{"Status":"Fail"," FingerprintObj ":""}}

GetAuditData

- Description: Get audit data
- Param: CompanyID, UserID, CheckTimeFrom, CheckTimeTo, RecordStartFrom, LimitRecordShow
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Unique ID assigned to company	Varchar	10	Required
UserID	Unique ID assigned to company user	Int	10	Optional
CheckTimeFrom	CheckTimeFrom is the start clocking date	DateTime	yyyy-MM-dd HH:mm:ss	Required
CheckTimeTo	CheckTimeTo is the end of clocking date Maximum 1 month period between CheckTimeFrom and CheckTimeTo			
RecordStartFrom	RecordStartFrom is to show record start from the input number Default value is 0.	Int	11	Optional
LimitRecordShow	LimitRecordShow Is the total number of record to show. Maximum number of records show is 1000.			

	Default value is 1000.			

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter 2. Security token is not valid
Result	Status		Success, Fail
	Terminal_ID	Terminal ID	1
	Terminal_SN	Serial No.	7307734
	Email		
	User_ID	User ID	92
	CheckTime	Clocking time	24/7/2013 1:56:26 PM
	CheckType	Clocking Type 0 : Check-In 1 : Check Out 2 : Break Out 3 : Resume In 4 : OT-In 5 : OT-Out	0, 1, 2, 3, 4, 5

- Sample return message

i. Success


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "AuditDataObj":[
   {
    "Terminal_ID":"15",
    "Terminal_SN":"7307734",
    "Email":"",
    "User_ID":"92",
    "CheckTime":"31\/10\/2013 12:00:02 PM",
    "CheckType":"0"
   }
```

```
    ]
   }
  }
ii. Fail
  {
    "ErrorMessage":"Invalid parameter",
    "Result":{
      "Status":"Fail",
      " AuditDataObj ":""
    }
  }
```

GetAttendance

- Description: Get attendance data
- Param: CompanyID, UserID, CheckTimeFrom, CheckTimeTo, RecordStartFrom, LimitRecordShow
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Unique ID assigned to company	Varchar	10	Required
UserID	Unique ID assigned to company user	Int	10	Required
CheckTimeFrom	CheckTimeFrom is the start clocking date	Date	yyyy-MM-dd	Required
CheckTimeTo	CheckTimeTo is the end of clocking date Maximum 1 month period between CheckTimeFrom and CheckTimeTo			
RecordStartFrom	RecordStartFrom is to show record start from the input number Default value is 0.	Int	11	Optional
LimitRecordShow	LimitRecordShow Is the total number of record to show. Maximum number of records show is 1000. Default value is 1000.			

- Return

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter 2. Security token is not valid
Result	Status		Success, Fail
	Date	Attendance date (DMY, MDY, YMD format)	26/02/2015 02/26/2015 2015/02/26
	User_ID	User ID	92
	Name	Name	Nur Hazwani
	DayType	Day type	Workday
	ScheNo	Schedule no. (0 for open schedule)	1
	In	In clocking time (12, 24 format)	09:00 AM, 14:00
	Out	Out clocking time (12, 24 format)	09:00 AM, 14:00
	Out1	Out #1 clocking time (12, 24 format)	09:00 AM, 14:00
	In1	In #1 clocking time (12, 24 format)	09:00 AM, 14:00
	Out2	Out #2 clocking time (12, 24 format)	09:00 AM, 14:00
	In2	In #2 clocking time (12, 24 format)	09:00 AM, 14:00
	Out3	Out #3 clocking time (12, 24 format)	09:00 AM, 14:00
	In3	In #3 clocking time (12, 24 format)	09:00 AM, 14:00
	Out4	Out #4 clocking time (12, 24 format)	09:00 AM, 14:00

	In4	In #4 clocking time (12, 24 format)	09:00 AM, 14:00
	Out5	Out #5 clocking time (12, 24 format)	09:00 AM, 14:00
	In5	In #5 clocking time (12, 24 format)	09:00 AM, 14:00
	WorkHour	Work hour (HM, HH format)	8.00
	OTHour	Overtime hour (HM, HH format)	1.31
	LeaveHour	Leave hour taken define by user (HM, HH format)	1.11
	LeaveType	Leave type	"Annual Leave" "Absent" "Annual" "Annual Leave" "Compassionate Leave" "EID Holiday" "Emergency" "Emergency Leave" "Emergency Leave (AM)" "Emergency Leave (PM)" "Half Day (AM)" "Halfday (PM)" "Holiday" "Hospitalization" "Long Service Leave" "Marriage" "Maternity Leave" "Medical Leave" "Out Of Office" "Partenity" "Paternity Leave" "Public Holiday" "Sick" "Study Leave" "Unpaid" "Vacation"
	ShiftNo	Shift No	1
	LeaveApplications	Array of multiple half-day leave applications	

	Remark	User Remark/Comment	Out of office
	WorkCode	Word Codes used when reporting attendance	Repair Machine
	DiffOTHour	Differential OT hour	1.00
	Employee_ID	Employee ID	92
	DivisionID	Division ID	315
	Division	Division	Research & Development (R&D)
	InOT	In OT clocking time (12, 24 format)	09:00 AM, 14:00
	OutOT	Out OT clocking time (12, 24 format)	09:00 AM, 14:00
	ShortHour	Short hour (HM, HH format)	1.00
	ApprovedOTHour	Overtime hours approved (HM, HH format)	1.00
	OvertimeRequests	Array of overtime requests	
	In_x	Excuse indicator	1,0
	Out_x	Excuse indicator	1,0
	Out1_x	Excuse indicator	1,0
	In1_x	Excuse indicator	1,0
	Out2_x	Excuse indicator	1,0
	In2_x	Excuse indicator	1,0
	Out3_x	Excuse indicator	1,0
	In3_x	Excuse indicator	1,0
	Out4_x	Excuse indicator	1,0
	In4_x	Excuse indicator	1,0
	Out5_x	Excuse indicator	1,0

	In5_x	Excuse indicator	1,0
	InOT_x	Excuse indicator	1,0
	OutOT_x	Excuse indicator	1,0

- LeaveApplications

Field	Description	Possible value
LeaveType	Applied's leave type	Annual
LeaveHour	Leave hours approved (HM, HH format)	5.30
StartTime	Applied leave start time	08:00:00
EndTime	Applied leave start time	13:30:00
PartialAMPM	AMPM indicator of this leave	PM
UniqueID	Request's remark	100001

- OvertimeRequests

Field	Description	Possible value
OvertimeType	Request's overtime type	Normal
DateFrom	Request's start date time	02/01/2020 18:00:00
DateTo	Request's end date time	02/01/2020 19:00:00
ApprovedOTHours	Overtime hours approved (HM, HH format)	1.00
Remark	Request's remark	

- Sample return message

i. Success


```
{
 "ErrorMessage":"",
```

```
"Result":{
 "Status":"Success",
 "AttendanceObj":[
  {
   "Date":"23/01/2020",
   "User_ID":"1",
   "Name":"NurHazwani",
   "DayType":"Workday",
   "ScheNo":"1",
   "In":"09:00 AM",
   "Out":"07:01 PM",
   "Out1":"",
   "In1":"",
   "Out2":"12:00 PM",
   "In2":"01:00 PM",
   "Out3":"",
   "In3":"",
   "Out4":"",
   "In4":"",
   "Out5":"",
   "In5":"",
   "WorkHour":"8.00",
   "OTHour":"1.01",
   "LeaveHour":"0.00",
   "LeaveType":"",
   "ShiftNo":"1",
   "LeaveApplications":[
    {
     " LeaveType":"Annual ",
     " LeaveHour":"5.30",
     " StartTime":"08:00:00",
     " EndTime":"13:30:00",
     " PartialAMPM":"PM",
     " UniqueID":"100001",
    }
   ],
   "Remark":"",
   "WorkCode":"",
   "DiffOTHour":"0.00",
   "Employee_ID":"92",
   "DivisionID":"315",
   "Division":"Research & Development (R&D)",
   "InOT":"",
   "OutOT":"",
```

```
        "ShortHour":"0.00",
        "ApprovedOTHour":"1.00",
        "OvertimeRequests":[
         {
          "OvertimeType":"Normal",
          "DateFrom":"23/01/2020 18:00:00",
          "DateTo":"23/01/2020 19:00:00",
          "ApprovedOTHours":"1.00",
          "Remark":"OT for extra work"
         }
        ] ,
        "In_x":"0",
        "Out_x":"0",
        "Out1_x":"0",
        "In1_x":"0",
        "Out2_x":"0",
        "In2_x":"0",
        "Out3_x":"0",
        "In3_x":"0",
        "Out4_x":"0",
        "In4_x":"0",
        "Out5_x":"0",
        "In5_x":"0",
        "InOT_x":"0",
        "OutOT_x":"0"
       }
      ]
     }
    }
```


ii. Fail


```
    {
      "ErrorMessage":"Invalid parameter",
      "Result":{
        "Status":"Fail",
        " AttendanceObj ":""
      }
    }
```

GetAllAttendance

- Description: Get all attendance data
- Param: CompanyID, CheckTimeFrom, CheckTimeTo, RecordStartFrom, LimitRecordShow
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Unique ID assigned to company	Varchar	10	Required
CheckTimeFrom	CheckTimeFrom is the start clocking date CheckTimeTo is the end of clocking date Maximum 1 month period between CheckTimeFrom and CheckTimeTo	Date	yyyy-MM-dd	Required
CheckTimeTo				
RecordStartFrom	RecordStartFrom is to show record start from the input number Default value is 0.	Int	11	Optional
LimitRecordShow	LimitRecordShow Is the total number of record to show. Maximum number of records show is 1000. Default value is 1000.			

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter 2. Security token is not valid
Result	Status		Success, Fail
	Date	Attendance date (DMY, MDY, YMD format)	26/02/2015 02/26/2015 2015/02/26
	User_ID	User ID	92
	Name	Name	Nur Hazwani

	DayType	Day type	Workday
	ScheNo	Schedule no. (0 for open schedule)	1
	In	In clocking time (12, 24 format)	09:00 AM, 14:00
	Out	Out clocking time (12, 24 format)	09:00 AM, 14:00
	Out1	Out #1 clocking time (12, 24 format)	09:00 AM, 14:00
	In1	In #1 clocking time (12, 24 format)	09:00 AM, 14:00
	Out2	Out #2 clocking time (12, 24 format)	09:00 AM, 14:00
	In2	In #2 clocking time (12, 24 format)	09:00 AM, 14:00
	Out3	Out #3 clocking time (12, 24 format)	09:00 AM, 14:00
	In3	In #3 clocking time (12, 24 format)	09:00 AM, 14:00
	Out4	Out #4 clocking time (12, 24 format)	09:00 AM, 14:00
	In4	In #4 clocking time (12, 24 format)	09:00 AM, 14:00
	Out5	Out #5 clocking time (12, 24 format)	09:00 AM, 14:00
	In5	In #5 clocking time (12, 24 format)	09:00 AM, 14:00
	WorkHour	Work hour (HM, HH format)	8.00
	OTHour	Overtime hour (HM, HH format)	1.31
	LeaveHour	Leave hour taken define by user (HM, HH format)	1.11

	LeaveType	Leave type	"Annual Leave" "Absent" "Annual" "Annual Leave" "Compassionate Leave" "EID Holiday" "Emergency" "Emergency Leave" "Emergency Leave (AM)" "Emergency Leave (PM)" "Half Day (AM)" "Halfday (PM)" "Holiday" "Hospitalization" "Long Service Leave" "Marriage" "Maternity Leave" "Medical Leave" "Out Of Office" "Partenity" "Paternity Leave" "Public Holiday" "Sick" "Study Leave" "Unpaid" "Vacation"
	ShiftNo	Shift No	1
	LeaveApplications	Array of multiple half-day leave applications	
	Remark	User Remark/Comment	Out of office
	WorkCode	Word Codes used when reporting attendance	Repair Machine
	DiffOTHour	Differential OT hour	1.00
	Employee_ID	Employee ID	92
	DivisionID	Division ID	315
	Division	Division	Research & Development (R&D)
	InOT	In OT clocking time (12, 24 format)	09:00 AM, 14:00
	OutOT	Out OT clocking time (12, 24 format)	09:00 AM, 14:00

	ShortHour	Short hour (HM, HH format)	1.00
	ApprovedOTHour	Overtime hours approved (HM, HH format)	1.00
	OvertimeRequests	Array of overtime requests	
	In_x	Excuse indicator	1,0
	Out_x	Excuse indicator	1,0
	Out1_x	Excuse indicator	1,0
	In1_x	Excuse indicator	1,0
	Out2_x	Excuse indicator	1,0
	In2_x	Excuse indicator	1,0
	Out3_x	Excuse indicator	1,0
	In3_x	Excuse indicator	1,0
	Out4_x	Excuse indicator	1,0
	In4_x	Excuse indicator	1,0
	Out5_x	Excuse indicator	1,0
	In5_x	Excuse indicator	1,0
	InOT_x	Excuse indicator	1,0
	OutOT_x	Excuse indicator	1,0

- LeaveApplications

Field	**Description**	**Possible value**
LeaveType	Applied's leave type	Annual
LeaveHour	Leave hours approved (HM, HH format)	5.30
StartTime	Applied leave start time	08:00:00
EndTime	Applied leave start time	13:30:00

PartialAMPM	AMPM indicator of this leave	PM
UniqueID	Request's remark	100001

- OvertimeRequests

Field	Description	Possible value
OvertimeType	Request's overtime type	Normal
DateFrom	Request's start date time	02/01/2020 18:00:00
DateTo	Request's end date time	02/01/2020 19:00:00
ApprovedOTHours	Overtime hours approved (HM, HH format)	1.00
Remark	Request's remark	

- Sample Return message:

i. Success


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "AllAttendanceObj":[
   {
    "Date":"23/01/2020",
    "User_ID":"1",
    "Name":"NurHazwani",
    "DayType":"Workday",
    "ScheNo":"1",
    "In":"09:00 AM",
    "Out":"07:01 PM",
    "Out1":"",
    "In1":"",
    "Out2":"12:00 PM",
    "In2":"01:00 PM",
    "Out3":"",
    "In3":"",
    "Out4":"",
    "In4":"",
    "Out5":"",
    "In5":"",
```

"WorkHour":"8.00",
"OTHour":"1.01",
"LeaveHour":"0.00",
"LeaveType":"",
"ShiftNo":"1",
"LeaveApplications":[
 {
  " LeaveType":"Annual ",
  " LeaveHour":"5.30",
  " StartTime":"08:00:00",
  " EndTime":"13:30:00",
  " PartialAMPM":"PM",
  " UniqueID":"100001",
 }
],
"Remark":"",
"WorkCode":"",
"DiffOTHour":"0.00"
"Employee_ID":"92",
"DivisionID":"315",
"Division":"Research & Development (R&D)",
"InOT":"",
"OutOT":"",
"ShortHour":"0.00",
"ApprovedOTHour":"1.00",
"OvertimeRequests":[
 {
  "OvertimeType":"Normal",
  "DateFrom":"23/01/2020 18:00:00",
  "DateTo":"23/01/2020 19:00:00",
  "ApprovedOTHours":"1.00",
  "Remark":"OT for extra work"
 }
] ,
"In_x":"0",
"Out_x":"0",
"Out1_x":"0",
"In1_x":"0",
"Out2_x":"0",
"In2_x":"0",
"Out3_x":"0",
"In3_x":"0",
"Out4_x":"0",
"In4_x":"0",

```
        "Out5_x":"0",
        "In5_x":"0",
        "InOT_x":"0",
        "OutOT_x":"0"
       }
      ]
     }
    }
```


ii. Fail


```
{"ErrorMessage":"Invalid parameter",
"Result":{"Status":"Fail"," AllAttendanceObj ":""}
```


GetApprovedAttendance

- Description: Get approved attendance data
- Param: CompanyID, UserID / EmployeeID, CheckTimeFrom, CheckTimeTo, RecordStartFrom, LimitRecordShow
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Unique ID assigned to company	Varchar	10	Required
UserID	Unique ID assigned to company user	Int	10	Either one is required
EmployeeID	Employment ID assigned to company user	Varchar	15	
CheckTimeFrom	CheckTimeFrom is the start clocking date CheckTimeTo is the end of clocking date Maximum 1 month period between CheckTimeFrom and CheckTimeTo	Date	yyyy-MM-dd	Required
CheckTimeTo				
RecordStartFrom	RecordStartFrom is to show record start from the input number Default value is 0.	Int	11	Optional
LimitRecordShow	LimitRecordShow Is the total number of record to show. Maximum number of records show is 1000.			

	Default value is 1000.			

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter 2. Security token is not valid
Result	Status		Success, Fail
	Date	Attendance date (DMY, MDY, YMD format)	26/02/2015 02/26/2015 2015/02/26
	User_ID	User ID	92
	Name	Name	Nur Hazwani
	DayType	Day type	Workday
	ScheNo	Schedule no. (0 for open schedule)	1
	In	In clocking time (12, 24 format)	09:00 AM, 14:00
	Out	Out clocking time (12, 24 format)	09:00 AM, 14:00
	Out1	Out #1 clocking time (12, 24 format)	09:00 AM, 14:00
	In1	In #1 clocking time (12, 24 format)	09:00 AM, 14:00
	Out2	Out #2 clocking time (12, 24 format)	09:00 AM, 14:00
	In2	In #2 clocking time (12, 24 format)	09:00 AM, 14:00
	Out3	Out #3 clocking time (12, 24 format)	09:00 AM, 14:00
	In3	In #3 clocking time (12, 24 format)	09:00 AM, 14:00

	Out4	Out #4 clocking time (12, 24 format)	09:00 AM, 14:00
	In4	In #4 clocking time (12, 24 format)	09:00 AM, 14:00
	Out5	Out #5 clocking time (12, 24 format)	09:00 AM, 14:00
	In5	In #5 clocking time (12, 24 format)	09:00 AM, 14:00
	WorkHour	Work hour (HM, HH format)	8.00
	OTHour	Overtime hour (HM, HH format)	1.31
	LeaveHour	Leave hour taken define by user (HM, HH format)	1.11
	LeaveType	Leave type	"Annual Leave" "Absent" "Annual" "Annual Leave" "Compassionate Leave" "EID Holiday" "Emergency" "Emergency Leave" "Emergency Leave (AM)" "Emergency Leave (PM)" "Half Day (AM)" "Halfday (PM)" "Holiday" "Hospitalization" "Long Service Leave" "Marriage" "Maternity Leave" "Medical Leave" "Out Of Office" "Partenity" "Paternity Leave" "Public Holiday" "Sick" "Study Leave" "Unpaid" "Vacation"
	Remark	User Remark/Comment	Out of office

	WorkCode	Word Codes used when reporting attendance	Repair Machine
	DiffOTHour	Differential OT hour	1.00
	Employee_ID	Employee ID	92
	DivisionID	Division ID	315
	Division	Division	Research & Development (R&D)
	InOT	In OT clocking time (12, 24 format)	09:00 AM, 14:00
	OutOT	Out OT clocking time (12, 24 format)	09:00 AM, 14:00
	ApprovedOTHour	Overtime hours approved (HM, HH format)	1.00
	OvertimeRequests	Array of overtime requests	
	In_x	Excuse indicator	1,0
	Out_x	Excuse indicator	1,0
	Out1_x	Excuse indicator	1,0
	In1_x	Excuse indicator	1,0
	Out2_x	Excuse indicator	1,0
	In2_x	Excuse indicator	1,0
	Out3_x	Excuse indicator	1,0
	In3_x	Excuse indicator	1,0
	Out4_x	Excuse indicator	1,0
	In4_x	Excuse indicator	1,0
	Out5_x	Excuse indicator	1,0
	In5_x	Excuse indicator	1,0
	InOT_x	Excuse indicator	1,0

	OutOT_x	Excuse indicator	1,0

- OvertimeRequests

Field	Description	Possible value
OvertimeType	Request's overtime type	Normal
DateFrom	Request's start date time	02/01/2020 18:00:00
DateTo	Request's end date time	02/01/2020 19:00:00
ApprovedOTHours	Overtime hours approved (HM, HH format)	1.00
Remark	Request's remark	

- Sample return message

iii. Success


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "AttendanceObj":[
   {
    "Date":"02/03/2020",
    "User_ID":"2003",
    "Name":"AINUL DANGDUTZ",
    "DayType":"Workday",
    "ScheNo":"1",
    "ScheCategory":"",
    "In":"",
    "Out":"",
    "Out1":"",
    "In1":"",
    "Out2":"",
    "In2":"",
    "Out3":"",
    "In3":"",
    "Out4":"",
    "In4":"",
    "Out5":"",
```

```
        "In5":"",
        "WorkHour":"0.00",
        "OTHour":"0.00",
        "LeaveHour":"0.00",
        "LeaveType":"Absent",
        "Remark":"",
        "WorkCode":"",
        "Employee_ID":"",
        "DivisionID":"28848",
        "Division":"Total OT Hour",
        "InOT":"",
        "OutOT":"",
        "ShortHour":"0.00",
        "ApprovedOTHour":"0.00",
        "OvertimeRequests":[
         {
          "OvertimeType":"Normal",
          "DateFrom":"02/03/2020 18:00:00",
          "DateTo":"02/03/2020 19:00:00",
          "ApprovedOTHours":"1.00",
          "Remark":"OT for extra work"
         }
        ]
       }
     ]
    }
   }
```


iv. Fail


```
   {
     "ErrorMessage":"Invalid parameter",
     "Result":{
       "Status":"Fail",
       " AttendanceObj ":""
     }
   }
```

GetAllApprovedAttendance

- Description: Get all approved attendance data
- Param: CompanyID, CheckTimeFrom, CheckTimeTo, RecordStartFrom, LimitRecordShow
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Unique ID assigned to company	Varchar	10	Required
CheckTimeFrom	CheckTimeFrom is the start clocking date CheckTimeTo is the end of clocking date Maximum 1 month period between CheckTimeFrom and CheckTimeTo	Date	yyyy-MM-dd	Required
CheckTimeTo				
RecordStartFrom	RecordStartFrom is to show record start from the input number Default value is 0.	Int	11	Optional
LimitRecordShow	LimitRecordShow Is the total number of record to show. Maximum number of records show is 1000. Default value is 1000.			

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter 2. Security token is not valid
Result	Status		Success, Fail
	Date	Attendance date (DMY, MDY, YMD format)	26/02/2015 02/26/2015 2015/02/26
	User_ID	User ID	92
	Name	Name	Nur Hazwani

	DayType	Day type	Workday
	ScheNo	Schedule no. (0 for open schedule)	1
	In	In clocking time (12, 24 format)	09:00 AM, 14:00
	Out	Out clocking time (12, 24 format)	09:00 AM, 14:00
	Out1	Out #1 clocking time (12, 24 format)	09:00 AM, 14:00
	In1	In #1 clocking time (12, 24 format)	09:00 AM, 14:00
	Out2	Out #2 clocking time (12, 24 format)	09:00 AM, 14:00
	In2	In #2 clocking time (12, 24 format)	09:00 AM, 14:00
	Out3	Out #3 clocking time (12, 24 format)	09:00 AM, 14:00
	In3	In #3 clocking time (12, 24 format)	09:00 AM, 14:00
	Out4	Out #4 clocking time (12, 24 format)	09:00 AM, 14:00
	In4	In #4 clocking time (12, 24 format)	09:00 AM, 14:00
	Out5	Out #5 clocking time (12, 24 format)	09:00 AM, 14:00
	In5	In #5 clocking time (12, 24 format)	09:00 AM, 14:00
	WorkHour	Work hour (HM, HH format)	8.00
	OTHour	Overtime hour (HM, HH format)	1.31
	LeaveHour	Leave hour taken define by user (HM, HH format)	1.11

	LeaveType	Leave type	"Annual Leave" "Absent" "Annual" "Annual Leave" "Compassionate Leave" "EID Holiday" "Emergency" "Emergency Leave" "Emergency Leave (AM)" "Emergency Leave (PM)" "Half Day (AM)" "Halfday (PM)" "Holiday" "Hospitalization" "Long Service Leave" "Marriage" "Maternity Leave" "Medical Leave" "Out Of Office" "Partenity" "Paternity Leave" "Public Holiday" "Sick" "Study Leave" "Unpaid" "Vacation"
	Remark	User Remark/Comment	Out of office
	WorkCode	Word Codes used when reporting attendance	Repair Machine
	DiffOTHour	Differential OT hour	1.00
	Employee_ID	Employee ID	92
	DivisionID	Division ID	315
	Division	Division	Research & Development (R&D)
	InOT	In OT clocking time (12, 24 format)	09:00 AM, 14:00
	OutOT	Out OT clocking time (12, 24 format)	09:00 AM, 14:00
	ShortHour	Short hour (HM, HH format)	1.00
	ApprovedOTHour	Overtime hours approved (HM, HH format)	1.00

	OvertimeRequests	Array of overtime requests	
	In_x	Excuse indicator	1,0
	Out_x	Excuse indicator	1,0
	Out1_x	Excuse indicator	1,0
	In1_x	Excuse indicator	1,0
	Out2_x	Excuse indicator	1,0
	In2_x	Excuse indicator	1,0
	Out3_x	Excuse indicator	1,0
	In3_x	Excuse indicator	1,0
	Out4_x	Excuse indicator	1,0
	In4_x	Excuse indicator	1,0
	Out5_x	Excuse indicator	1,0
	In5_x	Excuse indicator	1,0
	InOT_x	Excuse indicator	1,0
	OutOT_x	Excuse indicator	1,0

- OvertimeRequests

Field	**Description**	**Possible value**
OvertimeType	Request's overtime type	Normal
DateFrom	Request's start date time	02/01/2020 18:00:00
DateTo	Request's end date time	02/01/2020 19:00:00
ApprovedOTHours	Overtime hours approved (HM, HH format)	1.00
Remark	Request's remark	

- Sample Return message:

iii. Success

```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "AllAttendanceObj":[
   {
    "Date":"23/01/2020",
    "User_ID":"1",
    "Name":"NurHazwani",
    "DayType":"Workday",
    "ScheNo":"1",
    "In":"09:00 AM",
    "Out":"07:01 PM",
    "Out1":"",
    "In1":"",
    "Out2":"12:00 PM",
    "In2":"01:00 PM",
    "Out3":"",
    "In3":"",
    "Out4":"",
    "In4":"",
    "Out5":"",
    "In5":"",
    "WorkHour":"8.00",
    "OTHour":"1.01",
    "LeaveHour":"0.00",
    "LeaveType":"",
    "Remark":"",
    "WorkCode":"",
    "DiffOTHour":"0.00"
    "Employee_ID":"92",
    "DivisionID":"315",
    "Division":"Research & Development (R&D)",
    "InOT":"",
    "OutOT":"",
    "ShortHour":"0.00",
    "ApprovedOTHour":"1.00",
    "OvertimeRequests":[
     {
      "OvertimeType":"Normal",
      "DateFrom":"23/01/2020 18:00:00",
      "DateTo":"23/01/2020 19:00:00",
      "ApprovedOTHours":"1.00",
      "Remark":"OT for extra work"
```

```
        }
       ],
       "In_x":"0",
       "Out_x":"0",
       "Out1_x":"0",
       "In1_x":"0",
       "Out2_x":"0",
       "In2_x":"0",
       "Out3_x":"0",
       "In3_x":"0",
       "Out4_x":"0",
       "In4_x":"0",
       "Out5_x":"0",
       "In5_x":"0",
       "InOT_x":"0",
       "OutOT_x":"0"
     }
    ]
   }
  }
```


iv. Fail


```
{"ErrorMessage":"Invalid parameter",
"Result":{"Status":"Fail"," AllAttendanceObj ":""}
```

GetApprovedOT

- Description: Get list of approved overtime hours based on request's approval date range.
- Param: CompanyID, ApprovedDateFrom, ApprovedDateTo
- Param description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
ApprovedDateFrom	ApprovedDateFrom is the start of request's approval date range. ApprovedDateTo is the end of request's approval date range.	Date	yyyy-MM-dd hh:mm:ss	Required
ApprovedDateTo				

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there is an error while executing this function	1. Invalid parameter
Result	Status		Success/Fail
	Date	Overtime request's date (DMY, MDY, YMD format)	26/02/2019 02/26/2019 2019/02/26
	User_ID	User ID	8001
	ApprovedOT	Overtime hours approved (HM, HH format)	1.00
	OvertimeRequests	Array of overtime requests	

- OvertimeRequests

Field	Description	Possible value
OvertimeType	Request's overtime type	Normal
DateFrom	Request's start date time	02/01/2020 18:00:00
DateTo	Request's end date time	02/01/2020 19:00:00
ApprovedOTHours	Overtime hours approved (HM, HH format)	1.00

Remark	Request's remark	

- Sample return message:

i. Success:


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "ApprovedOT":[
   {
    "Date":"05/02/2020",
    "User_ID":"40",
    "ApprovedOT":"2.75",
    "OvertimeRequests":[
     {
      "OvertimeType":"Normal",
      "DateFrom":"05/02/2020 21:00:00",
      "DateTo":"05/02/2020 23:45:00",
      "ApprovedOTHours":"2.75",
      "Remark":"OT for extra work"
     }
    ]
   },
   {
    "Date":"07/02/2020",
    "User_ID":"2013",
    "ApprovedOT":"1.00",
    "OvertimeRequests":[
     {
      "OvertimeType":"Normal",
      "DateFrom":"07/02/2020 00:00:00",
      "DateTo":"07/02/2020 01:00:00",
      "ApprovedOTHours":"1.00",
      "Remark":"OT for extra work"
     }
    ]
   }
  ]
 }
}
```


ii. Fail


```
{"ErrorMessage":"Invalid parameter",
```

"Result":{"Status":"Fail","ApprovedOT":"

GetAttendanceAllowance

- Description: Get list of users' attendance allowance.
- Param: CompanyID, UserIDs, EmployeeIDs, DateFrom, DateTo, RecordStartFrom, LimitRecordShow
- Param description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
UserIDs	User ID	Array of UInt	Eg: [1,2,3]	Required if EmployeeIDs is empty
EmployeeIDs	Employee ID	Array of String	Eg: [A100, A101, A103]	Required if UserIDs is empty
DateFrom	Attendance's starting date	Date	yyyy-MM-dd	Required
DateTo	Attendance's ending date			
RecordStartFrom	Starting record's index to show. Default value is 0.	Int	11	Optional
LimitRecordShow	Total number of records to show. Maximum number of records shown is 1000. Default value is 1000.			

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there is an error while executing this function	1. Security token is not valid 2. Invalid parameter 3. Company ID is not valid 4. No user license is available 5. Maximum limit is 1000
Result	Status	Return status	Success/Fail

	AttendanceAllowance	UserID	Eg: “1001”
		EmployeeID	Eg: “E1001”
		Name	Eg: “Adam”
		HierarchyDivision	Eg: “Div A > Div A2”
		Position	Eg: “Supervisor”
		AllowanceID	Eg: “1”
		Amount	Eg: “100”
		TardinessCount	Eg: “absent : 1 mc : 0 NPL : 0”

- Sample return message:


```
"ErrorMessage": "",
"Result": {
  "Status": "Success",
  "AttendanceAllowance": [
    {
      "UserID": "1",
      "EmployeeID": "E001",
      "Name": "Tai Kwee Ping",
      "EmployeeID": "E1001",
      "HierarchyDivision": "Div A > Div A2",
      "Position": "Supervisor",
      "AllowanceID": "1",
      "Amount": "200",
      "TardinessCount": " absent : 1 mc : 0 NPL : 0"
    },
    {
      "UserID": "2",
      "EmployeeID": "E002",
      "Name": "Hamazaitun Syuhadah Binti Yazet",
      "EmployeeID": "E1002",
      "HierarchyDivision": "Div A > Div A3",
      "Position": "Supervisor",
      "AllowanceID": "2",
      "Amount": "300",
```

```
            "TardinessCount": " absent : 0 mc : 0 NPL : 0"
          }
        ]
      }
}
```


GetAttendanceSummary

- Description: Get list of users' attendance summary.
- Param: CompanyID, CheckTimeFrom, CheckTimeTo, RecordStartFrom, LimitRecordShow
- Param description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
CheckTimeFrom	Attendance's starting date	Date	yyyy-MM-dd	Required
CheckTimeTo	Attendance's ending date			
RecordStartFrom	Starting record's index to show. Default value is 0.	Int	11	Optional
LimitRecordShow	Total number of records to show. Maximum number of records shown is 1000. Default value is 1000.			

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there is an error while executing this function	1. Security token is not valid 2. Invalid parameter 3. Company ID is not valid 4. No user license is available 5. Maximum limit is 1000
Result	Status	Return status	Success/Fail
	AttendanceSummary Obj	User_ID	Eg: 1001
		Employee_ID	Eg: "E1001"

		Name	Eg: “Steve”
		Division	Eg: “R&D”
		Designation	Eg: “Senior developer”
		WorkdayHour	Eg: “92.00”
		WorkdayApprovedOT	Eg: “0”
		HolidayWorkHour	Eg: “0.00”
		HolidayApprovedOT	Eg: “0”
		RestDayWorkHour	Eg: “0.00”
		RestDayApprovedOT	Eg: “0”
		OffDayWorkHour	Eg: “0.00”
		OffDayApprovedOT	Eg: “0”
		TotalApprovedOT	Eg: “0”
		Absent	Eg: “2”
		UnpaidLeave	Eg: 0

- Sample return message:


```
"ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "AttendanceSummaryObj":[
   {
    "User_ID":1,
    "Employee_ID":"E1001",
    "Name":"Tai Kwee Ping",
    "Division":"Div A2",
    "Designation":"Senior Sales Manager",
    "WorkdayHour":"9.02",
    "WorkdayApprovedOT":"0",
```

```
    "HolidayWorkHour":"0.00",
    "HolidayApprovedOT":"0",
    "RestDayWorkHour":"0.00",
    "RestDayApprovedOT":"0",
    "OffDayWorkHour":"0.00",
    "OffDayApprovedOT":"0",
    "TotalApprovedOT":"0",
    "Absent":"20",
    "UnpaidLeave":0
   },
   {
    "User_ID":2,
    "Employee_ID":"E1002",
    "Name":"Hamazaitun Syuhadah Binti Yazet",
    "Division":"Div A3",
    "Designation":"Senior Sales Manager",
    "WorkdayHour":"20.00",
    "WorkdayApprovedOT":"0",
    "HolidayWorkHour":"0.00",
    "HolidayApprovedOT":"0",
    "RestDayWorkHour":"0.00",
    "RestDayApprovedOT":"0",
    "OffDayWorkHour":"0.00",
    "OffDayApprovedOT":"0",
    "TotalApprovedOT":"0",
    "Absent":"19",
    "UnpaidLeave":0
   }
  ]
 }
```


GetAttendanceSummary2

- Description: Get list of users' attendance summary.
- Param: CompanyID, UserIDs, DateFrom, DateTo, RecordStartFrom, LimitRecordShow
- Param description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
UserIDs	User ID	Array of UInt	Eg: [1,2,3]	Required
DateFrom	Attendance's starting date	Date	yyyy-MM-dd	Required

DateTo	Attendance's ending date			
RecordStartFrom	Starting record's index to show. Default value is 0.	Int	11	Optional
LimitRecordShow	Total number of records to show. Maximum number of records shown is 1000. Default value is 1000.			

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there is an error while executing this function	1. Security token is not valid 2. Invalid parameter 3. Company ID is not valid 4. No user license is available 5. Maximum limit is 1000
Result	Status	Return status	Success/Fail
	AttendanceSummary	UserID	Eg: 1001
		Name	Eg: "Steve"
		EmployeeID	Eg: "E1001"
		OrganizationStructure	Eg: "R&D"
		TotalWork	Eg: 160.00
		TotalActualOvertime	Eg: 0.30
		TotalDifferentialOvertime	Eg: 0.00
		OffdayOTHour	Eg: 0.00
		OffdayDifferentialOTHour	Eg: 0.00

- Sample return message:

```
  "ErrorMessage": "",
  "Result": {
    "Status": "Success",
    "AttendanceSummary": [
      {
        "UserID": 1,
        "Name": "Tai Kwee Ping",
        "EmployeeID": "E1001",
        "OrganizationStructure": "Div A2",
        "TotalWork": 160.00,
        "TotalActualOvertime": 0.30,
        "TotalDifferentialOvertime": 0.00,
        "OffdayOTHour": 0.00,
        "OffdayDifferentialOTHour": 0.00
      },
      {
        "UserID": 2,
        "Name": "Hamazaitun Syuhadah Binti Yazet",
        "EmployeeID": "E1002",
        "OrganizationStructure": "Div A3",
        "TotalWork": 160.00,
        "TotalActualOvertime": 3.23,
        "TotalDifferentialOvertime": 0.00,
        "OffdayOTHour": 0.00,
        "OffdayDifferentialOTHour": 0.00
      }
    ]
  }
}
```


GetLeaveType

- Description: Get leave type by Company ID
- Param: CompanyID
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter
Result	Status		Success, Fail
	Auto_No	Auto increment number	0 1 2 3
	LeaveType	Leave type	"Absent" "Annual Leave" "Emergency Leave" "Messes Leave"
	IsAbsent	0: not absent 1: is absent	0 1
	IsPaid	0: unpaid leave 1: paid leave	0 1
	IsDeductible	0: non-deductible 1: deductible	0 1
	IsExcludeHolidayor Offday	0: No 1: Yes	0 1

- Sample return message:
    i. Success

```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "LeaveTypeObj":[
   {
    "Auto_No":"2739",
    "LeaveType":"Absent",
    "IsAbsent":"1",
    "IsPaid":"1",
    "IsDeductible":"1",
    "IsExcludeHolidayorOffday":"1"
   },
   {
    "Auto_No":"2862",
```

```
        "LeaveType":"Annual Leave",
        "IsAbsent":"0",
        "IsPaid":"0",
        "IsDeductible":"0",
        "IsExcludeHolidayorOffday":"1"
       },
      ]
     }
    }
```


ii. Fail


```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail",
  "LeaveTypeObj":""
 }
}
```


GetPayrollAttendance

- Description: Get users' payroll attendance.
- Param: CompanyID, DateFrom, DateTo, RecordStartFrom, LimitRecordShow
- Param description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
DateFrom	Attendance's starting date	Date	yyyy-MM-dd	Required
DateTo	Attendance's ending date			
RecordStartFrom	Starting record's index to show. Default value is 0.	Int	11	Optional
LimitRecordShow	Total number of records to show. Maximum number of records shown is 1000. Default value is 1000.			

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there is an error while executing this	1. Security token is not valid

		function	2. Invalid parameter 3. Company ID is not valid 4. No user license is available 5. Maximum limit is 1000
Result	Status	Return status	Success/Fail
	PayrollAttendance.AllAttendance	Date	Eg: “2022-03-01”
		User_ID	Eg: 1000
		Uid	Eg: 131231
		DayType_AutoNo	Eg: 12
		DayType	Eg: “Workday”
		WorkHour	Eg: “8.00”
		OTHour	Eg: “0.00”
		LeaveHour	Eg: “0.00”
		ShiftNo	Eg: 1

		LeaveType	Eg:
			[
			{
			“leavetype_auto_no” : 10,
			“leavetype”: “Absent”,
			“leave_hour”: 0
			}
			]

		ShortHour	Eg: “0.00”
		ScheduleCategory	0 - None 1 - Morning 2 - Afternoon 3 - Evening 4 - Overnight
		ApprovedOT	Eg: “2.12”

- Sample return message:


```
{
    "ErrorMessage": null,
    "Result": {
            "Status": "Success",
            "PayrollAttendance": {
                    "AllAttendance": [
                            {
                                    "Date": "2021-03-01",
                                    "User_ID": 1,
                                    "Uid": 381268,
                                    "DayType_AutoNo": 14625,
                                    "DayType": "Workday",
                                    "WorkHour": "0.00",
                                    "OTHour": "0.00",
                                    "LeaveHour": "0.00",
                                    "ShiftNo": 1,
                                    "LeaveType": [
                                            {
                                                    "leavetype_auto_no": 16705,
                                                    "leavetype": "Absent",
                                                    "leave_hour": 0
                                            }
                                    ],
                                    "ShortHour": "0.00",
                                    "ScheduleCategory": 1,
                                    "ApprovedOT":  "1.30",
                            }
                    ]
            }
    }
}
```


GetUserLeave

- Description: Get user leave
- Param: CompanyID, UserID, CheckTimeFrom, CheckTimeTo, RecordShowFrom, LimitRecordShow
- Param Description:

Param	Description	Data Type	Size	Remark

CompanyID	Company ID	Varchar	10	Required
UserID	User ID	Int	10	Required
CheckTimeFrom	CheckTimeFrom is the start clocking date CheckTimeTo is the end of clocking date Maximum 1 year period between CheckTimeFrom and CheckTimeTo	Date	yyyy-MM-dd	Required
CheckTimeTo				
RecordStartFrom	RecordStartFrom is to show record start from the input number Default value is 0.	Int	11	Optional
LimitRecordShow	LimitRecordShow Is the total number of record to show. Maximum number of records show is 1000. Default value is 1000.			

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter 2. Maximum period is one month
Result	Status		Success, Fail
	Date	Attendance date (DMY, MDY, YMD format)	2015-08-17
	User_ID	User ID	1
	LeaveType	Leave type	"Absent" "Annual Leave" "Emergency Leave" "Messes Leave"

- Sample return message:

i. Success

```
{
 "ErrorMessage":"",
 "Result":{
```

```
"Status":"Success",
"UserLeaveObj":[
 {
  "Date":"2015-08-17",
  "User_ID":"1",
  "LeaveType":"Annual Leave"
 },
 {
  "Date":"2015-09-05",
  "User_ID":"1",
  "LeaveType":"Annual Leave"
 }
]
}
}
```


ii. Fail


```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail",
  "UserLeaveObj":""
 }
}
```


GetApprovedPendingLeaves

- Description: Get user's leave, including approved and pending approvals.
- Param: CompanyID, DateFrom, DateTo
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
DateFrom	DateFrom is the leave start date	Date	yyyy-MM-dd	Required
DateTo	DateTo is the leave end date Maximum 1 month period between DateFrom and DateTo			

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter 2. Maximum period is one month
Result	Status		Success, Fail
	User_ID	User ID	1
	Date	Leave date (DMY, MDY, YMD format)	2015-08-17
	StartTime	Start time for partial leave application	14:00:00
	EndTime	End time for partial leave application	18:00:00
	LeaveType	Leave type	"Absent" "Annual Leave" "Emergency Leave" "Messes Leave"
	Status	Leave status Approved status group {Approved, RequestCancel) Pending approval status group {Pending, PendingCancel, RequestCancel}	"Approved" "RequestCancel" "Pending" "PendingCancel"
	isPendingApproval	Leave application require approval	0: No need for approval 1: Need approval
	isRequireWork	The employee is still expected to fulfill work duties despite the leave application	0: On leave 1: Working

- Sample return message:

i. Success


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "UserLeaveObj":[
   {
```

```
        "User_ID":"1",
        "Date":"2015-08-17",
        "StartTime":"",
        "EndTime":"",
        "LeaveType":"Annual Leave",
        "Status":"Approved",
        "isPendingApproval":"0",
        "isRequireWork":"0”
       },
       {
        "User_ID":"2",
        "Date":"2015-08-17",
        "StartTime":"08:00:00",
        "EndTime":"12:00:00",
        "LeaveType":"Annual Leave",
        "Status":"Approved",
        "isPendingApproval":"0",
        "isRequireWork":"0"
       },
       {
        "User_ID":"3",
        "Date":"2015-08-17",
        "StartTime":"",
        "EndTime":"",
        "LeaveType":"Annual Leave",
        "Status":"Pending",
        "isPendingApproval":"1",
        "isRequireWork":"0"
       },
       {
        "User_ID":"4",
        "Date":"2015-08-17",
        "StartTime":"",
        "EndTime":"",
        "LeaveType":"Out of Office",
        "Status":"Approved",
        "isPendingApproval":"0",
        "isRequireWork":"1"
       },
     ]
     }
   }
```


ii. Fail


```
   {
```

```
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail",
  "UserLeaveObj":""
 }
}
```


SetUserLeave

- Description: Add or update user leave
- Param: CompanyID, UserID, DateFrom, DateTo, LeaveType, LeaveHour
- Param Description

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
UserID	User ID	Int	10	
DateFrom	DateFrom is the leave start date DateTo is the leave end date Maximum 6 months period between DateFrom and DateTo	Date	yyyy-MM-dd	
DateTo				
LeaveType	Leave Type	Varchar	20	Optional
LeaveHour	Leave hours (HH format)	Decimal	7,3	Optional

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter
Result	Status		Success, Fail

- Sample return message
    i. Success

```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success"
 }
}
```

ii. Fail

```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail"
 }
}
```

SetUserLeave2

- Description: Add or update user leave
- Param: CompanyID, JSONUserLeave
- Param Description

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
JSONUserLeave	Input to be serialized into JSON. Sample: *{* *"UserID":"3001",* *"EmployeeID":"A117110",* *"DateFrom":"2019-12-30",* *"DateTo":"2019-12-31",* *"LeaveType":"Annual",* *"LeaveHour":"4.000",* *"UniqueID":"100001",* *"AMPM":"AM"* *}*	Obj		

- JSONUserLeave:

Param	Description	Data Type	Size	Remark
UserID	User ID	Int	10	

EmployeeID	Employee ID	Varchar	15	Either one of them is required. If both are provided, this function will use the user ID.
DateFrom	DateFrom is the leave start date. DateTo is the leave end date. Maximum 6 months period between DateFrom and DateTo	Date	yyyy-MM-dd	Required
DateTo		Date	yyyy-MM-dd	
LeaveType	Leave type	Varchar	200	
LeaveHour	Leave hour (HH format)	Decimal	7,3	Optional
UniqueID	Unique ID	Varchar	200	
AMPM	AM/PM indicator	Enum	AM/PM	

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter
Result	Status		Success, Fail

- Sample return message:

i. Success

```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success"
 }
}
```

ii. Fail

```
{
```

```
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail"
 }
}
```

AddLeaveType

- Description: Add leave type
- Param: CompanyID, LeaveType
- Param Description:

Param	Description	Data Type	Size	Remark
Company ID	Company ID	Varchar	10	Required
Leave Type	Leave Type	Varchar	200	

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter
Result	Status		Success, Fail

- Sample return message:

i. Success

```
{
  "ErrorMessage":"",
  "Result":{
    "Status":"Success"
  }
}
```

ii. Fail

```
{
  "ErrorMessage":"Invalid parameter",
  "Result":{
    "Status":"Fail"
  }
}
```

UpdateLeaveType

- Description: Update leave type
- Param: CompanyID, AutoNo, LeaveType
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
Auto No.	Auto No	Int	10	
Leave Type	Leave Type	Varchar	200	

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter
Result	Status		Success, Fail

- Sample return message:

i. Success

```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success"
 }
}
```

ii. Fail

```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail"
 }
}
```

AddUser

- Description: Add user
- Param: CompanyID, Name, Alias , Gender, DOB, Nationality, Race, NationalID, Religion, HomeAddress, MobileContact, Email, EmploymentID, Designation, SocialSecurityID, JoinedDate, Branch, Department, Section, GroupDutyRoster, RateHour, TimeZone, Remark, TimeTecUserID, TimeTecAccountIssuanceDate, AccExpiryDate, DivisionID
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
Name	Name	Varchar	200	
Alias	Alias	Varchar	50	Optional
Gender	Gender	Enum	Female,Male	
DOB	Date of Birth	Date	yyyy-MM-dd	
Nationality	Nationality	Enum	*https://www.fingertec.com/developerprogram/usermanual/Nationality.xlsx*	
Race	Race	Varchar	50	
NationalID	National ID	Varchar	20	
Religion	Religion	Varchar	50	
HomeAddress	Home Address	Varchar	200	
MobileContact	Mobile Contact	Varchar	20	
Email	Personal Email	Varchar	100	
EmploymentID	Employment ID	Varchar	15	
Designation	Designation	Varchar	50	
SocialSecurityID	Social Security ID	Varchar	20	
JoinedDate	Joined Date	Date	yyyy-MM-dd	

Branch	Branch	Varchar	50	
Department	Department	Varchar	50	
Section	Section	Varchar	50	
GroupDutyRoster	Group Duty Roster	Smallint	3	
RateHour	Rate hour	Varchar	10	
TimeZone	Time Zone	Enum	*https://www.fingertec.com/developerprogram/usermanual/Timezone.xlsx*	
Remark	Remark	Varchar	100	
TimeTecUserID	TimeTec User ID	Int	10	Required
TimeTecAccountIssuanceDate	TimeTec Account Issuance Date	Date	yyyy-MM-dd	
AccExpiryDate	Account Expiry Date	Date	yyyy-MM-dd	Optional
DivisionID	Division ID	Bigint	20	Optional

- Return:

Type	**Possible variable**	**Description**	**Possible value**
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter
Result	Status		Success, Fail

- Sample return message:

i. Success

```
{
  "ErrorMessage":"",
  "Result":{
    "Status":"Success"
  }
}
```

ii. Fail

```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail"
 }
}
```


AddUser2

- Description: Add user
- Param: CompanyID, JsonUserInfo
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
JsonUserInfo	Input to be serialized into JSON. Sample: *{ "Name": "Tan Mei Cong", "TimeTecUserID": "1000018", "TimeTecAccountIssuanceDate": "2019-10-15", "AccExpiryDate": "2022-10-15", "Alias": "T.M.", "DOB": "1990-10-25", "Designation": "", "Email": "tmc@timeteccloud.com", "LoginEmail": "tanmeicong@gmail.com", "EmploymentID": "1000018", "Gender": "Female", "GroupDutyRoster": "", "HomeAddress": "18, Jalan Baru 2, Bukit Mertajam.", "JoinedDate": "2019-10-15", "MobileContact": "0188808080", "NationalID": "", "Nationality": "Malaysia", "Race": "Chinese", "RateHour": "", "Religion": "Christian", "Remark": "", "SocialSecurityID": "", "TimeZone": "UTC+08:00", "PositionLevel": "Fresh/Entry",*	Obj		

	"OrganizationStructure": ["OPERATIONS", "SUPPLY CHAIN", "PLANT OPERATIONS", "ENGINEERING", "ELECTRICAL - POWER PLANT"], "OrganizationStructureCode": ["1001", "1002", "1003", "1004", "1005"], "WebView": "1", "WebClocking": "1", "MobileView": "1", "MobileClocking": "1" }			

- JsonUserInfo:

Param	**Description**	**Data Type**	**Size**	**Remark**
TimeTecUserID	TimeTec User ID	Int	10	Required
Name	Name	Varchar	200	
TimeTecAccountIssuanceDate	TimeTec Account Issuance Date	Date	yyyy-MM-dd	
Alias	Alias	Varchar	50	Optional
Gender	Gender	Enum	Female,Male	
DOB	Date of Birth	Date	yyyy-MM-dd	
Nationality	Nationality	Enum	*https://www.fingertec.com/developerprogram/usermanual/Nationality.xlsx*	
Race	Race	Varchar	50	
NationalID	National ID	Varchar	20	
Religion	Religion	Varchar	50	
HomeAddress	Home Address	Varchar	200	
MobileContact	Mobile Contact	Varchar	20	
Email	Personal Email	Varchar	50	

LoginEmail	Login User Name (Email)	Varchar	100	
EmploymentID	Employment ID	Varchar	15	
Designation	Designation	Varchar	50	
SocialSecurityID	Social Security ID	Varchar	20	
JoinedDate	Joined Date	Date	yyyy-MM-dd	
GroupDutyRoster	Group Duty Roster	Smallint	3	
RateHour	Rate hour	Varchar	10	
TimeZone	Time Zone	Enum	*https://www.fingertec.com/developerprogram/usermanual/Timezone.xlsx*	
Remark	Remark	Varchar	100	
AccExpiryDate	Account Expiry Date	Date	yyyy-MM-dd	
DivisionID	Division ID	Bigint	20	
PositionLevel	Position Level	Varchar	200	
OrganizationStructure	Organization Structure	Array of Varchar	Ex. [“OPERATIONS”, “SUPPLY CHAIN”, “PLANT OPERATIONS”, “ENGINEERING”, “ELECTRICAL - POWER PLANT”]	At least one of the parameters is required if you want to add/update the user to an Organization Structure. If both parameters are provided, this function will add/update the user to OrganizationStructure and ignore OrganizationStructureCode. The values for OrganizationStructure and OrganizationStructureCode must be arranged in a predefined sequence starting with the sub-level of the company name.
OrganizationStructure Code	Organization Structure Code (Company Registration No.)	Array of Varchar	Ex. [“1001”, “1002”, “1003”, “1004”, “1005”]	

WebView	Enable or disable web access view	Tinyint	1	Optional Required value if include parameters Value: 0: Disable 1: Enable
WebClocking	Enable or disable web access clock in	Tinyint	1	
MobileView	Enable or disable mobile access view	Tinyint	1	
MobileClocking	Enable or disable mobile access clocking	Tinyint	1	

- Return:

Type	**Possible variable**	**Description**	**Possible value**
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter
Result	Status		Success, Fail

- Sample return message:

i. Success

```
{
  "ErrorMessage":"",
  "Result":{
    "Status":"Success"
  }
}
```

ii. Fail

```
{
  "ErrorMessage":"Invalid parameter",
  "Result":{
    "Status":"Fail"
  }
```

UpdateUser

- Description: Update user records
- Parameters: CompanyID, TimeTecUserID, Name, Alias , Gender, DOB, Nationality, Race, NationalID, Religion, HomeAddress, MobileContact, Email, EmploymentID, Designation, SocialSecurityID, JoinedDate, Branch, Department, Section, GroupDutyRoster, RateHour, TimeZone, Remark, TimeTecAccountIssuanceDate, AccExpiryDate
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
TimeTecUserID	TimeTec User ID	Int	10	
Name	Name	Varchar	200	
Alias	Alias	Varchar	50	Optional
Gender	Gender	Enum	Female,Male	
DOB	Date of Birth	Date	yyyy-MM-dd	
Nationality	Nationality	Enum	*https://www.fingertec.com/developerprogram/usermanual/Nationality.xlsx*	
Race	Race	Varchar	50	
NationalID	National ID	Varchar	20	
Religion	Religion	Varchar	50	
HomeAddress	Home Address	Varchar	200	
MobileContact	Mobile Contact	Varchar	20	
Email	Personal Email	Varchar	100	
EmploymentID	Employment ID	Varchar	15	

Designation	Designation	Varchar	50	
SocialSecurityID	Social Security ID	Varchar	20	
JoinedDate	Joined Date	Date	yyyy-MM-dd	
Branch	Branch	Varchar	50	
Department	Department	Varchar	50	
Section	Section	Varchar	50	
GroupDutyRoster	Group Duty Roster	Smallint	3	
RateHour	Rate hour	Varchar	10	
TimeZone	Time Zone	Enum	*https://www.fingertec.com/developerprogram/usermanual/Timezone.xlsx*	
Remark	Remark	Varchar	100	
TimeTecAccountIssuanceDate	TimeTec Account Issuance Date	Date	yyyy-MM-dd	Required
AccExpiryDate	Account Expiry Date	Date	yyyy-MM-dd	Optional
DivisionID	Division ID	Bigint	20	Optional

- Return:

Type	**Possible variable**	**Description**	**Possible value**
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter
Result	Status		Success, Fail

- Sample return message:

i. Success

```
{
  "ErrorMessage":"",
  "Result":{
    "Status":"Success"
  }
}
```

ii. Fail

```
{
  "ErrorMessage":"Invalid parameter",
  "Result":{
    "Status":"Fail"
  }
}
```

UpdateUser2

- Description: Update user records
- Parameters: CompanyID, JsonUserInfo
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
JsonUserInfo	Input to be serialized into JSON. Sample: *{* *"Name": "Tan Mei Cong",* *"TimeTecUserID": "1000018",* *"EmployeeID": "A117110",* *"TimeTecAccountIssuanceDate": "2019-10-15",* *"AccExpiryDate": "2022-10-15",* *"Alias": "T.M.",* *"DOB": "1990-10-25",* *"Designation": "",* *"Email": "tmc@timeteccloud.com",* *"LoginEmail": "tanmeicong@gmail.com",* *"EmploymentID": "1000018",* *"Gender": "Female",* *"GroupDutyRoster": "",* *"HomeAddress": "18, Jalan Baru 2, Bukit Mertajam.",* *"JoinedDate": "2019-10-15",* *"MobileContact": "0188808080",* *"NationalID": "",* *"Nationality": "Malaysia",*	Obj		

	"Race": "Chinese", *"RateHour": "",* *"Religion": "Christian",* *"Remark": "User resigned.",* *"SocialSecurityID": "",* *"TimeZone": "UTC+08:00",* *"PositionLevel": "Fresh/Entry",* *"OrganizationStructure": ["OPERATIONS", "SUPPLY CHAIN", "PLANT OPERATIONS", "ENGINEERING", "ELECTRICAL - POWER PLANT"],* *" OrganizationStructureCode ": ["1001", "1002", "1003", "1004", "1005"],* *"Status": "Suspended",* *"EffectiveDate": "2019-11-22",* *"WebView": "1",* *"WebClocking": "1",* *"MobileView": "1",* *"MobileClocking": "1"* *}*			

- JsonUserInfo:

Param	**Description**	**Data Type**	**Size**	**Remark**
TimeTecUserID	TimeTec User ID (Can accept both parameter name as TimeTecUserID or UserID)	Int	10	At least one of them is require. If both are given, the function will use TimeTecUserID
EmployeeID	Employee ID	Varchar	15	
Name	Name	Varchar	200	Required
TimeTecAccountIssuanceDate	TimeTec Account Issuance Date	Date	yyyy-MM-dd	Optional
Alias	Alias	Varchar	50	
Gender	Gender	Enum	Female,Male	
DOB	Date of Birth	Date	yyyy-MM-dd	
Nationality	Nationality	Enum	*https://www.fingertec.com/developerprogram/usermanual/Nationality.xlsx*	

Race	Race	Varchar	50	
NationalID	National ID	Varchar	20	
Religion	Religion	Varchar	50	
HomeAddress	Home Address	Varchar	200	
MobileContact	Mobile Contact	Varchar	20	
Email	Personal Email	Varchar	50	
LoginEmail	Login User Name (Email)	Varchar	100	
EmploymentID	Employment ID	Varchar	15	
Designation	Designation	Varchar	50	
SocialSecurityID	Social Security ID	Varchar	20	
JoinedDate	Joined Date	Date	yyyy-MM-dd	
GroupDutyRoster	Group Duty Roster	Smallint	3	
RateHour	Rate hour	Varchar	10	
TimeZone	Time Zone	Enum	*https://www.fingertec.com/developerprogram/usermanual/Timezone.xlsx*	
Remark	Remark	Varchar	100	
AccExpiryDate	Account Expiry Date	Date	yyyy-MM-dd	
DivisionID	Division ID	Bigint	20	
PositionLevel	Position Level	Varchar	200	
OrganizationStructure	Organization Structure	Array of Varchar		At least one of the parameters is

OrganizationStructureCode	Organization Structure Code (Company Registration No.)	Array of Varchar	Ex. [“1001”, “1002”, “1003”, “1004”, “1005”]	required if you want to add/update the user to an Organization Structure. If both parameters are provided, this function will add/update the user to OrganizationStructure and ignore OrganizationStructureCode. The values for OrganizationStructure and OrganizationStructureCode must be arranged in a predefined sequence starting with the sub-level of the company name.
Status	Employment status (ex. “Active”, “Terminated”, “Suspended”, “Resigned”)	Varchar	150	Optional
EffectiveDate	Effective date (maximum date is today’s date)	Date	yyyy-MM-dd	
WebView	Enable or disable web access view	Tinyint	1	Optional Required value if include parameters Value: 0: Disable 1: Enable
WebClocking	Enable or disable web access clock in	Tinyint	1	
MobileView	Enable or disable mobile access view	Tinyint	1	
MobileClocking	Enable or disable mobile access clocking	Tinyint	1	

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter
Result	Status		Success, Fail

- Sample return message:

i. Success

```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success"
 }
}
```

ii. Fail

```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail"
 }
}
```

UpdateUserStatus

- Description: Update user's employment status.
- Param: CompanyID, Status, UserList (UserID, EffectiveDate, Remark)
- Param description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
Status	Employment status (ex. "Active", "Terminated", "Suspended", "Resigned")	Varchar	150	Required
UserList	Input to be serialized into JSON. Sample: *[* *{*	Obj	50	Required

	"UserID":"123", *"EffectiveDate":"2019-10-30",* *"Remark":"User resigned."* *},* *{* *"UserID":"456",* *"EffectiveDate":"2019-10-29",* *"Remark":""* *}* *]*			

- UserList parameters:

Param	**Description**	**Data Type**	**Size**	**Remark**
UserID	User ID	Varchar	10	Required
EffectiveDate	Effective date (maximum date is today's date)	Date	yyyy-MM-dd	Optional
Remark	Remark	Varchar	100	

- Return:

Type	**Possible variable**	**Description**	**Possible value**
Error Message	ErrorMessage	Return error message if there is an error while executing this function	1. Invalid parameter
Result	Status		Success/Fail

- Sample return message:

i. Success

```
{
  "ErrorMessage":"",
  "Result":{
    "Status":"Success"
  }
}
```

ii. Fail

```
{
```

```
"ErrorMessage":"Invalid parameter",
"Result":{
 "Status":"Fail"
}
}
```


GetSchedule

- Description: Get schedule data by schedule ID
- Param: CompanyID, ScheNo
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Unique ID assigned to company	Varchar	10	Required
ScheNo	Schedule Number	Smallint	3	Required

- Return

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter 2. Security token is not valid
Result	Status		Success, Fail
	Auto_No	Schedule Unique ID	34427
	Weekday		Wednesday
	Company_ID		351
	ScheNo		1
	ScheDesc		Shift 1
	ScheType		1

	Dayofweek		0
	DayType		Workday, Restday
	In	In clocking time (12, 24 format)	09:00 AM, 14:00
	Out1	Out #1 clocking time (12, 24 format)	09:00 AM, 14:00
	In1	In #1 clocking time (12, 24 format)	09:00 AM, 14:00
	Out2	Out #2 clocking time (12, 24 format)	09:00 AM, 14:00
	In2	In #2 clocking time (12, 24 format)	09:00 AM, 14:00
	Out3	Out #3 clocking time (12, 24 format)	09:00 AM, 14:00
	In3	In #3 clocking time (12, 24 format)	09:00 AM, 14:00
	Out4	Out #4 clocking time (12, 24 format)	09:00 AM, 14:00
	In4	In #4 clocking time (12, 24 format)	09:00 AM, 14:00
	Out5	Out #5 clocking time (12, 24 format)	09:00 AM, 14:00
	In5	In #5 clocking time (12, 24 format)	09:00 AM, 14:00
	Out	Out clocking time (12, 24 format)	09:00 AM, 14:00
	InOT	Overtime in clocking time (12, 24 format)	09:00 AM, 14:00
	OutOT	Overtime out clocking time (12, 24 format)	09:00 AM, 14:00
	In_min	In time round to nearest minutes	10
	Out1_min	Out #1 time round to nearest minutes	10

	In1_min	In #1 time round to nearest minutes	10
	Out2_min	Out #2 time round to nearest minutes	10
	In2_min	In #2 time round to nearest minutes	10
	Out3_min	Out #3 time round to nearest minutes	10
	In3_min	In #3 time round to nearest minutes	10
	Out4_min	Out #4 time round to nearest minutes	10
	In4_min	In #4 time round to nearest minutes	10
	Out5_min	Out #5 time round to nearest minutes	10
	In5_min	In #5 time round to nearest minutes	10
	Out_min	Out time round to nearest minutes	10
	InOT_min	Overtime in round to nearest minutes	10
	OutOT_min	Overtime out round to nearest minutes	10
	In_rdg	In rounding option	0, 1, 2
	Out1_rdg	Out #1 rounding option	0, 1, 2
	In1_rdg	In #1 rounding option	0, 1, 2
	Out2_rdg	Out #2 rounding option	0, 1, 2
	In2_rdg	In #2 rounding option	0, 1, 2
	Out3_rdg	Out #3 rounding option	0, 1, 2
	In3_rdg	In #3 rounding option	0, 1, 2
	Out4_rdg	Out #4 rounding option	0, 1, 2

	In4_rdg	In #4 rounding option	0, 1, 2
	Out5_rdg	Out #5 rounding option	0, 1, 2
	In5_rdg	In #5 rounding option	0, 1, 2
	Out_rdg	Out rounding option	0, 1, 2
	InOT_rdg	In #5 rounding option	0, 1, 2
	OutOT_rdg	Out rounding option	0, 1, 2
	FiLoOnly	First In Last Out jobcost rounding	1,0
	In_g	In grace minutes	10
	Out1_g	Out #1 grace minutes	10
	In1_g	In #1 grace minutes	10
	Out2_g	Out #2 grace minutes	10
	In2_g	In #2 grace minutes	10
	Out3_g	Out #3 grace minutes	10
	In3_g	In #3 grace minutes	10
	Out4_g	Out #4 grace minutes	10
	In4_g	In #4 grace minutes	10
	Out5_g	Out #5 grace minutes	10
	In5_g	In #5 grace minutes	10
	Out_g	Out grace minutes	10
	InOT_g	Overtime in grace minutes	10

	OutOT_g	Overtime out grace minutes	10
	Break1_NoWork	Break #1 exclude work	1,0
	Break2_NoWork	Break #2 exclude work	1,0
	Break3_NoWork	Break #3 exclude work	1,0
	Break4_NoWork	Break #4 exclude work	1,0
	Break5_NoWork	Break #5 exclude work	1,0
	Break1_Used	Break #1 pair in used flag	1,0
	Break2_Used	Break #2 pair in used flag	1,0
	Break3_Used	Break #3 pair in used flag	1,0
	Break4_Used	Break #4 pair in used flag	1,0
	Break5_Used	Break #5 pair in used flag	1,0
	OT_Used	OT pair in used flag	1,0
	Break1_Flexi	Break #1 flexible time	10
	Break2_Flexi	Break #2 flexible time	
	Break3_Flexi	Break #3 flexible time	
	Break4_Flexi	Break #4 flexible time	
	Break5_Flexi	Break #5 flexible time	
	In_r	In clocking overwrite flag	1,0
	Out1_r	Out #1 clocking overwrite flag	1,0
	In1_r	In #1 clocking overwrite flag	1,0

	Out2_r	Out #2 clocking overwrite flag	1,0
	In2_r	In #2 clocking overwrite flag	1,0
	Out3_r	Out #3 clocking overwrite flag	1,0
	In3_r	In #3 clocking overwrite flag	1,0
	Out4_r	Out #4 clocking overwrite flag	1,0
	In4_r	In #4 clocking overwrite flag	1,0
	Out5_r	Out #5 clocking overwrite flag	1,0
	In5_r	In #5 clocking overwrite flag	1,0
	Out_r	Out clocking overwrite flag	1,0
	InOT_r	Overtime in clocking overwrite flag	1,0
	OutOT_r	Overtime out clocking overwrite flag	1,0
	RotateShift	Rotational shift qualify starts minute	10
	In_	In clocking limit (12, 24 format)	09:00 AM, 14:00
	Out1_	Out #1 clocking limit (12, 24 format)	09:00 AM, 14:00
	In1_	In #1 clocking limit (12, 24 format)	09:00 AM, 14:00
	Out2_	Out #2 clocking limit (12, 24 format)	09:00 AM, 14:00
	In2_	In #2 clocking limit (12, 24 format)	09:00 AM, 14:00
	Out3_	Out #3 clocking limit (12, 24 format)	09:00 AM, 14:00
	In3_	In #3 clocking limit (12, 24 format)	09:00 AM, 14:00

	Out4_	Out #4 clocking limit (12, 24 format)	09:00 AM, 14:00
	In4_	In #4 clocking limit (12, 24 format)	09:00 AM, 14:00
	Out5_	Out #5 clocking limit (12, 24 format)	09:00 AM, 14:00
	In5_	In #5 clocking limit (12, 24 format)	09:00 AM, 14:00
	Out_	Out clocking limit (12, 24 format)	09:00 AM, 14:00
	InOT_	Overtime in clocking limit (12, 24 format)	09:00 AM, 14:00
	OutOT_	Overtime out clocking limit (12, 24 format)	09:00 AM, 14:00
	IOAble	Attendance I/O slot from user defined In/Out	0,1
	JobAble	Jobcost enabled schedule	0,1
	SameDay	Same day clocking within 1st clocking hours (24 format)	16.000
	NextDay	Separation hours between an out clocking and subsequent in clocking to qualify for next day (24 format)	16.000
	LastTime	Separation hours between an out clocking and subsequent in clocking to qualify for next day	16.000
	SameSlot	Same clocking slot time span	60
	RoundWork	Work hours either round-up(+) or round-down(-)	56
	Work_rdg	Work hour rounding option	0,1,2,3,4
	RoundOT	Overtime hours either round-up(+) or round-down(-)	56
	OT_rdg	Overtime hour rounding option	0,1,2,3

	RoundFrom1	First rounding time from (24 format)	13:00
	RoundTo1	First rounding time to (24 format)	13:00
	RoundTime1	First rounding time to (24 format)	13:00
	RoundFrom2	First rounding time from (24 format)	13:00
	RoundTo2	First rounding time to (24 format)	13:00
	RoundTime2	First rounding time to (24 format)	13:00
	Break_NoWork	Ignore Break Time (TCMSv2 - NoLunch)	0,1
	AddBreak	Auto Add Break Rule when you include lunch/dinner break)	0,1
	WorkBreak	Is the break paid	0,1
	MaxBreak	Deduct whole break after time in minutes	15.000
	OTBreak	include lunch/dinner time into overtime hour	0,1
	FullBreak	exclude full lunch/dinner if it is greater then allowed	0,1
	LessBreak	Deduct no. of hours for break time from overtime hour	1.000
	ExceedOT	if overtime exceeded	4.000
	LessWork	Deduct no. of hours for break time from flexi-work hour	1.000
	ExceedWork	if daily total of work exceeds	1.000
	LessPerDay	automatic deduction to apply on total hours exceeds per day	0,1
	PlusWork	Auto Add Time (in hour format)	1.000

	ExceedPlus	if flexi-work surpassed	1.000
	PlusPerDay	automatic addition to apply on total hours exceeds per day	0,1
	MustLess	Do not deduct any lunch time if employee works half day only	0,1
	NoShort	deduct extra lunch/dinner time from working hour	0,1
	FlexiWork	Flexi-work hours before overtime	8.000
	FlexiOT	Differential overtime if total flexi-work hour exceeds workhour of	8.000
	MinOT	Minimum overtime hours qualify	5
	MaxOT	Maximum overtime hours allowed	5
	NoWorkOT	Overtime & double time for restday work	0,1
	EarlyTime	Earlytime for work before start	0,1
	DiffOTFrom	Differential rate overtime from time	16:00
	DiffOTTo	Differential rate overtime to time	16:00
	CoverShort	Deduct Work Shortage from OT	0,1

- Sample return message
    i. Success


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "ScheduleObj":[
   {
    "Auto_No":"34427",
    "Weekday":"Wednesday",
    "Company_ID":"351",
    "ScheNo":"1",
```

"ScheDesc":"",
"ScheType":"1",
"Dayofweek":"0",
"DayType":"Workday",
"In":"09:00",
"Out1":"",
"In1":"",
"Out2":"12:30",
"In2":"13:30",
"Out3":"15:00",
"In3":"15:30",
"Out4":"",
"In4":"",
"Out5":"",
"In5":"",
"Out":"18:00",
"InOT":"",
"OutOT":"",
"In_min":"0",
"Out1_min":"0",
"In1_min":"0",
"Out2_min":"0",
"In2_min":"0",
"Out3_min":"0",
"In3_min":"0",
"Out4_min":"0",
"In4_min":"0",
"Out5_min":"0",
"In5_min":"0",
"Out_min":"0",
"InOT_min":"0",
"OutOT_min":"0",
"In_rdg":"0",
"Out1_rdg":"0",
"In1_rdg":"0",
"Out2_rdg":"0",
"In2_rdg":"0",
"Out3_rdg":"0",
"In3_rdg":"0",
"Out4_rdg":"0",
"In4_rdg":"0",
"Out5_rdg":"0",
"In5_rdg":"0",
"Out_rdg":"0",

"InOT_rdg":"0",
"OutOT_rdg":"0",
"FiLoOnly":"0",
"In_g":"0",
"Out1_g":"0",
"In1_g":"0",
"Out2_g":"0",
"In2_g":"0",
"Out3_g":"0",
"In3_g":"0",
"Out4_g":"0",
"In4_g":"0",
"Out5_g":"0",
"In5_g":"0",
"Out_g":"0",
"InOT_g":"0",
"OutOT_g":"0",
"Break1_NoWork":"0",
"Break2_NoWork":"0",
"Break3_NoWork":"0",
"Break4_NoWork":"0",
"Break5_NoWork":"0",
"Break1_Used":"0",
"Break2_Used":"0",
"Break3_Used":"0",
"Break4_Used":"0",
"Break5_Used":"0",
"OT_Used":"0",
"Break1_Flexi":"0",
"Break2_Flexi":"0",
"Break3_Flexi":"0",
"Break4_Flexi":"0",
"Break5_Flexi":"0",
"In_r":"0",
"Out1_r":"0",
"In1_r":"0",
"Out2_r":"0",
"In2_r":"0",
"Out3_r":"0",
"In3_r":"0",
"Out4_r":"0",
"In4_r":"0",
"Out5_r":"0",
"In5_r":"0",

"Out_r":"0",
"InOT_r":"0",
"OutOT_r":"0",
"RotateShift":"0",
"In_":"",
"Out1_":"",
"In1_":"",
"Out2_":"13:00",
"In2_":"15:00",
"Out3_":"",
"In3_":"",
"Out4_":"",
"In4_":"",
"Out5_":"",
"In5_":"",
"Out_":"",
"InOT_":"",
"OutOT_":"",
"IOAble":"0",
"JobAble":"0",
"SameDay":"0.000",
"NextDay":"0.000",
"LastTime":"",
"SameSlot":"0",
"RoundWork":"0",
"Work_rdg":"0",
"RoundOT":"0",
"OT_rdg":"0",
"RoundFrom1":"",
"RoundTo1":"",
"RoundTime1":"",
"RoundFrom2":"",
"RoundTo2":"",
"RoundTime2":"",
"Break_NoWork":"0",
"AddBreak":"0",
"WorkBreak":"0",
"MaxBreak":"0.000",
"OTBreak":"0",
"FullBreak":"0",
"LessBreak":"0.000",
"ExceedOT":"0.000",
"LessWork":"0.000",
"ExceedWork":"0.000",

```
        "LessPerDay":"0",
        "PlusWork":"0.000",
        "ExceedPlus":"0.000",
        "PlusPerDay":"0",
        "MustLess":"0",
        "NoShort":"0",
        "FlexiWork":"0.000",
        "FlexiOT":"0.000",
        "MinOT":"0",
        "MaxOT":"0.000",
        "NoWorkOT":"0",
        "EarlyTime":"0",
        "DiffOTFrom":"",
        "DiffOTTo":"",
        "CoverShort":"0"
      }
     ]
    }
   }
```


ii. Fail


```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail",
  "ScheduleObj":""
 }
}
```


GetAllSchedule

- Description: Get company schedule data
- Param: CompanyID
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Unique ID assigned to company	Varchar	10	Required

- Return

Type	Possible variable	Description	Possible value

Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter 2. Security token is not valid
Result	Status		Success, Fail
	Auto_No	Schedule Unique ID	34427
	Weekday		Wednesday
	Company_ID		351
	ScheNo		1
	ScheDesc		Shift 1
	ScheType		1
	Dayofweek		0
	DayType		Workday, Restday
	In	In clocking time (12, 24 format)	09:00 AM, 14:00
	Out1	Out #1 clocking time (12, 24 format)	09:00 AM, 14:00
	In1	In #1 clocking time (12, 24 format)	09:00 AM, 14:00
	Out2	Out #2 clocking time (12, 24 format)	09:00 AM, 14:00
	In2	In #2 clocking time (12, 24 format)	09:00 AM, 14:00
	Out3	Out #3 clocking time (12, 24 format)	09:00 AM, 14:00
	In3	In #3 clocking time (12, 24 format)	09:00 AM, 14:00
	Out4	Out #4 clocking time (12, 24 format)	09:00 AM, 14:00

	In4	In #4 clocking time (12, 24 format)	09:00 AM, 14:00
	Out5	Out #5 clocking time (12, 24 format)	09:00 AM, 14:00
	In5	In #5 clocking time (12, 24 format)	09:00 AM, 14:00
	Out	Out clocking time (12, 24 format)	09:00 AM, 14:00
	InOT	Overtime in clocking time (12, 24 format)	09:00 AM, 14:00
	OutOT	Overtime out clocking time (12, 24 format)	09:00 AM, 14:00
	In_min	In time round to nearest minutes	10
	Out1_min	Out #1 time round to nearest minutes	10
	In1_min	In #1 time round to nearest minutes	10
	Out2_min	Out #2 time round to nearest minutes	10
	In2_min	In #2 time round to nearest minutes	10
	Out3_min	Out #3 time round to nearest minutes	10
	In3_min	In #3 time round to nearest minutes	10
	Out4_min	Out #4 time round to nearest minutes	10
	In4_min	In #4 time round to nearest minutes	10
	Out5_min	Out #5 time round to nearest minutes	10
	In5_min	In #5 time round to nearest minutes	10
	Out_min	Out time round to nearest minutes	10
	InOT_min	Overtime in round to nearest minutes	10
	OutOT_min	Overtime out round to nearest minutes	10

	In_rdg	In rounding option	0, 1, 2
	Out1_rdg	Out #1 rounding option	0, 1, 2
	In1_rdg	In #1 rounding option	0, 1, 2
	Out2_rdg	Out #2 rounding option	0, 1, 2
	In2_rdg	In #2 rounding option	0, 1, 2
	Out3_rdg	Out #3 rounding option	0, 1, 2
	In3_rdg	In #3 rounding option	0, 1, 2
	Out4_rdg	Out #4 rounding option	0, 1, 2
	In4_rdg	In #4 rounding option	0, 1, 2
	Out5_rdg	Out #5 rounding option	0, 1, 2
	In5_rdg	In #5 rounding option	0, 1, 2
	Out_rdg	Out rounding option	0, 1, 2
	InOT_rdg	In #5 rounding option	0, 1, 2
	OutOT_rdg	Out rounding option	0, 1, 2
	FiLoOnly	First In Last Out jobcost rounding	1,0
	In_g	In grace minutes	10
	Out1_g	Out #1 grace minutes	10
	In1_g	In #1 grace minutes	10
	Out2_g	Out #2 grace minutes	10
	In2_g	In #2 grace minutes	10

	Out3_g	Out #3 grace minutes	10
	In3_g	In #3 grace minutes	10
	Out4_g	Out #4 grace minutes	10
	In4_g	In #4 grace minutes	10
	Out5_g	Out #5 grace minutes	10
	In5_g	In #5 grace minutes	10
	Out_g	Out grace minutes	10
	InOT_g	Overtime in grace minutes	10
	OutOT_g	Overtime out grace minutes	10
	Break1_NoWork	Break #1 exclude work	1,0
	Break2_NoWork	Break #2 exclude work	1,0
	Break3_NoWork	Break #3 exclude work	1,0
	Break4_NoWork	Break #4 exclude work	1,0
	Break5_NoWork	Break #5 exclude work	1,0
	Break1_Used	Break #1 pair in used flag	1,0
	Break2_Used	Break #2 pair in used flag	1,0
	Break3_Used	Break #3 pair in used flag	1,0
	Break4_Used	Break #4 pair in used flag	1,0
	Break5_Used	Break #5 pair in used flag	1,0
	OT_Used	OT pair in used flag	1,0

	Break1_Flexi	Break #1 flexible time	10
	Break2_Flexi	Break #2 flexible time	10
	Break3_Flexi	Break #3 flexible time	10
	Break4_Flexi	Break #4 flexible time	10
	Break5_Flexi	Break #5 flexible time	10
	In_r	In clocking overwrite flag	1,0
	Out1_r	Out #1 clocking overwrite flag	1,0
	In1_r	In #1 clocking overwrite flag	1,0
	Out2_r	Out #2 clocking overwrite flag	1,0
	In2_r	In #2 clocking overwrite flag	1,0
	Out3_r	Out #3 clocking overwrite flag	1,0
	In3_r	In #3 clocking overwrite flag	1,0
	Out4_r	Out #4 clocking overwrite flag	1,0
	In4_r	In #4 clocking overwrite flag	1,0
	Out5_r	Out #5 clocking overwrite flag	1,0
	In5_r	In #5 clocking overwrite flag	1,0
	Out_r	Out clocking overwrite flag	1,0
	InOT_r	Overtime in clocking overwrite flag	1,0
	OutOT_r	Overtime out clocking overwrite flag	1,0
	RotateShift	Rotational shift qualify starts minute	10
	In_	In clocking limit	09:00 AM, 14:00

		(12, 24 format)	
	Out1_	Out #1 clocking limit (12, 24 format)	09:00 AM, 14:00
	In1_	In #1 clocking limit (12, 24 format)	09:00 AM, 14:00
	Out2_	Out #2 clocking limit (12, 24 format)	09:00 AM, 14:00
	In2_	In #2 clocking limit (12, 24 format)	09:00 AM, 14:00
	Out3_	Out #3 clocking limit (12, 24 format)	09:00 AM, 14:00
	In3_	In #3 clocking limit (12, 24 format)	09:00 AM, 14:00
	Out4_	Out #4 clocking limit (12, 24 format)	09:00 AM, 14:00
	In4_	In #4 clocking limit (12, 24 format)	09:00 AM, 14:00
	Out5_	Out #5 clocking limit (12, 24 format)	09:00 AM, 14:00
	In5_	In #5 clocking limit (12, 24 format)	09:00 AM, 14:00
	Out_	Out clocking limit (12, 24 format)	09:00 AM, 14:00
	InOT_	Overtime in clocking limit (12, 24 format)	09:00 AM, 14:00
	OutOT_	Overtime out clocking limit (12, 24 format)	09:00 AM, 14:00
	IOAble	Attendance I/O slot from user defined In/Out	0,1
	JobAble	Jobcost enabled schedule	0,1
	SameDay	Same day clocking within 1st clocking hours (24 format)	16.000

	NextDay	Separation hours between an out clocking and subsequent in clocking to qualify for next day (24 format)	16.000
	LastTime	Separation hours between an out clocking and subsequent in clocking to qualify for next day	16.000
	SameSlot	Same clocking slot time span	60
	RoundWork	Work hours either round-up(+) or round-down(-)	56
	Work_rdg	Work hour rounding option	0,1,2,3,4
	RoundOT	Overtime hours either round-up(+) or round-down(-)	56
	OT_rdg	Overtime hour rounding option	0,1,2,3
	RoundFrom1	First rounding time from (24 format)	13:00
	RoundTo1	First rounding time to (24 format)	13:00
	RoundTime1	First rounding time to (24 format)	13:00
	RoundFrom2	First rounding time from (24 format)	13:00
	RoundTo2	First rounding time to (24 format)	13:00
	RoundTime2	First rounding time to (24 format)	13:00
	Break_NoWork	Ignore Break Time (TCMSv2 - NoLunch)	0,1
	AddBreak	Auto Add Break Rule when you include lunch/dinner break)	0,1
	WorkBreak	Is the break paid	0,1
	MaxBreak	Deduct whole break after time in minutes	15.000

	OTBreak	include lunch/dinner time into overtime hour	0,1
	FullBreak	exclude full lunch/dinner if it is greater then allowed	0,1
	LessBreak	Deduct no. of hours for break time from overtime hour	1.000
	ExceedOT	if overtime exceeded	4.000
	LessWork	Deduct no. of hours for break time from flexi-work hour	1.000
	ExceedWork	if daily total of work exceeds	1.000
	LessPerDay	automatic deduction to apply on total hours exceeds per day	0,1
	PlusWork	Auto Add Time (in hour format)	1.000
	ExceedPlus	if flexi-work surpassed	1.000
	PlusPerDay	automatic addition to apply on total hours exceeds per day	0,1
	MustLess	Do not deduct any lunch time if employee works half day only	0,1
	NoShort	deduct extra lunch/dinner time from working hour	0,1
	FlexiWork	Flexi-work hours before overtime	8.000
	FlexiOT	Differential overtime if total flexi-work hour exceeds workhour of	8.000
	MinOT	Minimum overtime hours qualify	5
	MaxOT	Maximum overtime hours allowed	5

	NoWorkOT	Overtime & double time for restday work	0,1
	EarlyTime	Earlytime for work before start	0,1
	DiffOTFrom	Differential rate overtime from time	16:00
	DiffOTTo	Differential rate overtime to time	16:00
	CoverShort	Deduct Work Shortage from OT	0,1

- Sample return message
    i. Success


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "AllScheduleObj":[
   {
    "Auto_No":"34427",
    "Weekday":"Wednesday",
    "Company_ID":"351",
    "ScheNo":"1",
    "ScheDesc":"",
    "ScheType":"1",
    "Dayofweek":"0",
    "DayType":"Workday",
    "In":"09:00",
    "Out1":"",
    "In1":"",
    "Out2":"12:30",
    "In2":"13:30",
    "Out3":"15:00",
    "In3":"15:30",
    "Out4":"",
    "In4":"",
    "Out5":"",
    "In5":"",
    "Out":"18:00",
    "InOT":"",
    "OutOT":"",
    "In_min":"0",
```

"Out1_min":"0",
"In1_min":"0",
"Out2_min":"0",
"In2_min":"0",
"Out3_min":"0",
"In3_min":"0",
"Out4_min":"0",
"In4_min":"0",
"Out5_min":"0",
"In5_min":"0",
"Out_min":"0",
"InOT_min":"0",
"OutOT_min":"0",
"In_rdg":"0",
"Out1_rdg":"0",
"In1_rdg":"0",
"Out2_rdg":"0",
"In2_rdg":"0",
"Out3_rdg":"0",
"In3_rdg":"0",
"Out4_rdg":"0",
"In4_rdg":"0",
"Out5_rdg":"0",
"In5_rdg":"0",
"Out_rdg":"0",
"InOT_rdg":"0",
"OutOT_rdg":"0",
"FiLoOnly":"0",
"In_g":"0",
"Out1_g":"0",
"In1_g":"0",
"Out2_g":"0",
"In2_g":"0",
"Out3_g":"0",
"In3_g":"0",
"Out4_g":"0",
"In4_g":"0",
"Out5_g":"0",
"In5_g":"0",
"Out_g":"0",
"InOT_g":"0",
"OutOT_g":"0",
"Break1_NoWork":"0",
"Break2_NoWork":"0",

"Break3_NoWork":"0",
"Break4_NoWork":"0",
"Break5_NoWork":"0",
"Break1_Used":"0",
"Break2_Used":"0",
"Break3_Used":"0",
"Break4_Used":"0",
"Break5_Used":"0",
"OT_Used":"0",
"Break1_Flexi":"0",
"Break2_Flexi":"0",
"Break3_Flexi":"0",
"Break4_Flexi":"0",
"Break5_Flexi":"0",
"In_r":"0",
"Out1_r":"0",
"In1_r":"0",
"Out2_r":"0",
"In2_r":"0",
"Out3_r":"0",
"In3_r":"0",
"Out4_r":"0",
"In4_r":"0",
"Out5_r":"0",
"In5_r":"0",
"Out_r":"0",
"InOT_r":"0",
"OutOT_r":"0",
"RotateShift":"0",
"In_":"",
"Out1_":"",
"In1_":"",
"Out2_":"13:00",
"In2_":"15:00",
"Out3_":"",
"In3_":"",
"Out4_":"",
"In4_":"",
"Out5_":"",
"In5_":"",
"Out_":"",
"InOT_":"",
"OutOT_":"",
"IOAble":"0",

```
      "JobAble":"0",
      "SameDay":"0.000",
      "NextDay":"0.000",
      "LastTime":"",
      "SameSlot":"0",
      "RoundWork":"0",
      "Work_rdg":"0",
      "RoundOT":"0",
      "OT_rdg":"0",
      "RoundFrom1":"",
      "RoundTo1":"",
      "RoundTime1":"",
      "RoundFrom2":"",
      "RoundTo2":"",
      "RoundTime2":"",
      "Break_NoWork":"0",
      "AddBreak":"0",
      "WorkBreak":"0",
      "MaxBreak":"0.000",
      "OTBreak":"0",
      "FullBreak":"0",
      "LessBreak":"0.000",
      "ExceedOT":"0.000",
      "LessWork":"0.000",
      "ExceedWork":"0.000",
      "LessPerDay":"0",
      "PlusWork":"0.000",
      "ExceedPlus":"0.000",
      "PlusPerDay":"0",
      "MustLess":"0",
      "NoShort":"0",
      "FlexiWork":"0.000",
      "FlexiOT":"0.000",
      "MinOT":"0",
      "MaxOT":"0.000",
      "NoWorkOT":"0",
      "EarlyTime":"0",
      "DiffOTFrom":"",
      "DiffOTTo":"",
      "CoverShort":"0"
    }
  ]
 }
}
```

ii. Fail


```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail",
  "AllScheduleObj":""
 }
}
```


GetCompanySetting

- Description: Get company setting
- Param: CompanyID
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter
Result	Status		Success, Fail
	Company	Company Name	TimeTec Computing Sdn. Bhd.
	Phone	Company phone no.	603-80709933
	Fax	Company fax no.	603-80709988
	Email	Company email	info@fingertec.com

	Address	Company address	6, 8 & 10, Jalan BK 3/2
	CountryName	Company country	Malaysia
	Contact	Contact person	
	DateFormat	Date format	MM/DD/YYYY
	TimeFormat	Time format	2400, AM/PM
	HourFormat	Hour format	hh.mm, hh.hh
	Timezone	TimeZone	UTC+08:00
	PayCycle	Payroll cycle	Month
	Preferred_language	Preferred language	English
	AllowSupportLogin	Allow Support Login	0,1
	DateCulture	Date culture	Gregorian
	WeekOn	First day of the week	Sunday
	CurrencySymbol	Currency symbol	RM
	GridSize	Display no. of rows	100
	Timeout	Timeout in minute	120
	PayStart	Payroll cylce starts on	2015-10-01
	IsAttendanceStatus	Attendance status flag	0,1

	DST	Daylight saving	0,1

- Sample return message:

i. Success


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "CompanySettingObj":[
   {
    "Company":"TimeTec Computing Sdn. Bhd.",
    "Phone":"603-80709933",
    "Fax":"603-80709988",
    "Email":"info@fingertec.com",
    "Address":"PUC FOUNDER (MSC) BHD No. 6, 8 & 10, Jalan BK 3/2 Bandar Kinrara,47180 Puchong,Selangor, Malaysia",
    "CountryName":"Malaysia",
    "Contact":"Daryl Choo",
    "DateFormat":"MM/DD/YYYY",
    "TimeFormat":"AM/PM",
    "HourFormat":"hh.mm",
    "Timezone":"UTC+08:00",
    "PayCycle":"Month",
    "Preferred_language":"English",
    "AllowSupportLogin":"0",
    "DateCulture":"Gregorian",
    "WeekOn":"Sunday",
    "CurrencySymbol":"RM",
    "GridSize":"100",
    "Timeout":"120",
    "PayStart":"",
    "IsAttendanceStatus":"1",
    "DST":"0"
   }
  ]
 }
}
```


ii. Fail


```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
```

```
  "Status":"Fail",
  " CompanySettingObj ":""
 }
}
```

GetBranch

- Description: Get company branch
- Param: CompanyID
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter
Result	Status		Success, Fail
	Auto_No	Auto increment number	260
	Branch	Branch	TimeTec Computing Sdn Bhd

- Sample return message:

i. Success

```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "BranchObj":[
   {
    "Auto_No":"261",
    "Branch":"TimeTec Computing Sdn Bhd"
   },
```

```
    {
     "Auto_No":"263",
     "Branch":"Epicamera Sdn Bhd"
    }
   ]
  }
 }
```


ii. Fail


```
    {
     "ErrorMessage":"Invalid parameter",
     "Result":{
      "Status":"Fail",
      "BranchObj":""
     }
    }
```


GetDepartment

- Description: Get company department
- Param: CompanyID
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter
Result	Status		Success, Fail
	Auto_No	Auto increment number	260
	Department	Department	Finance & Admin (F&A)

- Sample return message:

i. Success


```
    {
```

```
"ErrorMessage":"",
"Result":{
 "Status":"Success",
 "DepartmentObj":[
  {
   "Auto_No":"206",
   "Department":"Finance & Admin (F&A)"
  },
  {
   "Auto_No":"209",
   "Department":"Research & Development (R&D)"
  }
 ]
}
}
```


ii. Fail


```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail",
  "DepartmentObj":""
 }
}
```


GetSection

- Description: Get company section
- Param: CompanyID
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter
Result	Status		Success, Fail

	Auto_No	Auto increment number	260
	Section	Section	Marketing

- Sample return message:

i. Success


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "SectionObj":[
   {
    "Auto_No":"2041",
    "Section":"Marketing"
   },
   {
    "Auto_No":"2042",
    "Section":"Sales"
   }
  ]
 }
}
```


ii. Fail


```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail",
  "SectionObj":""
 }
}
```


GetDayType

- Description: Get company day type
- Param: CompanyID
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter
Result	Status		Success, Fail
	Auto_No	Auto increment number	260
	DayType	Day type	Workday
	IsSum	Sum periodic flag	0,1
	WorkRate	Normal work rate %	100
	OTRate	Overtime rate %	100
	DiffOTRate	Differential overtime rate %	100

- Sample return message:
  i. Success


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "DayTypeObj":[
   {
    "Auto_No":"709",
    "DayType":"Workday",
    "IsSum":"1",
    "WorkRate":"100",
    "OTRate":"150",
    "DiffOTRate":"100"
   },
   {
    "Auto_No":"710",
    "DayType":"Holiday",
    "IsSum":"1",
```

```
      "WorkRate":"200",
      "OTRate":"300",
      "DiffOTRate":"100"
     },
     {
      "Auto_No":"711",
      "DayType":"Restday",
      "IsSum":"1",
      "WorkRate":"130",
      "OTRate":"200",
      "DiffOTRate":"100"
     },
     {
      "Auto_No":"712",
      "DayType":"Offday",
      "IsSum":"0",
      "WorkRate":"150",
      "OTRate":"200",
      "DiffOTRate":"100"
     }
    ]
   }
  }
```


ii. Fail


```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail",
  "DayTypeObj":""
 }
}
```


GetRemark

- Description: Get company remark
- Param: CompanyID
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter
Result	Status		Success, Fail
	Auto_No	Auto increment number	260
	Remark	Remark description	Attend Exhibition and Seminar
	WorkCode	Corresponding workcode in terminal	11
	Inused	Remark is used in terminal	0,1

- Sample return message:

i. Success


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "RemarkObj":[
   {
    "Auto_No":"85",
    "Remark":"Attend Exhibition and Seminar",
    "WorkCode":"12",
    "Inused":"0"
   },
   {
    "Auto_No":"89",
    "Remark":"Car Break Down",
    "WorkCode":"14",
    "Inused":"0"
   },
   {
    "Auto_No":"93",
    "Remark":"Meeting",
    "WorkCode":"10",
```

```
        "Inused":"0"
       }
      ]
     }
    }
```


ii. Fail


```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail",
  "RemarkObj":""
 }
}
```


GetAllHoliday

- Description: Get company all holidays
- Param: CompanyID, DateFrom, DateTo, RecordShowFrom, LimitRecordShow
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Unique ID assigned to company	Varchar	10	Required
DateFrom	DateFrom is the holiday start date DateTo is the holiday end date Maximum 1 year period between DateFrom and DateTo	Date	yyyy-MM-dd	Required
DateTo				
RecordStartFrom	RecordStartFrom is to show record start from the input number Default value is 0.	Int	11	Optional
LimitRecordShow	LimitRecordShow Is the total number of record to show. Maximum number of records show is 1000. Default value is 1000.			

- Return:

Type	Possible variable	Description	Possible value

Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter 2. Security token is not valid
Result	Status		Success, Fail
	Date	Holiday date	2015-01-01
	DayType	Day type	Holiday
	LeaveType	Leave type	Annual
	Holiday	Holiday	New Year

- Sample return message:

i. Success:


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "AllHolidayObj":[
   {
    "All":[
     {
      "Date":"2015-01-01",
      "DayType":"Holiday",
      "LeaveType":"",
      "Holiday":"New Year"
     },
     {
      "Date":"2015-12-31",
      "DayType":"Holiday",
      "LeaveType":"",
      "Holiday":"New Year Eve"
     }
    ],
    "FingerTec Worldwide Sdn Bhd":[
     {
      "Date":"2015-01-01",
      "DayType":"",
```

```
        "LeaveType":"Annual",
        "Holiday":"New Year"
       }
      ],
      "TimeTec Computing Sdn Bhd":[
       {
        "Date":"2015-12-31",
        "DayType":"",
        "LeaveType":"Annual",
        "Holiday":"New Year Eve"
       }
      ]
     }
    ]
   }
}
```


ii. Fail


```
{
  "ErrorMessage":"Invalid parameter",
  "Result":{
    "Status":"Fail",
    "AllHolidayObj":""
  }
}
```


GetBranchHoliday

- Description: Get company branch holidays
- Param: CompanyID, Branch, DateFrom, DateTo, RecordShowFrom, LimitRecordShow
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Unique ID assigned to company	Varchar	10	Required
Branch	Branch	Varchar	50	
DateFrom	DateFrom is the holiday start date DateTo is the holiday end date Maximum 1 year period between DateFrom and DateTo	Date	yyyy-MM-dd	Required
DateTo				

RecordStartFrom	RecordStartFrom is to show record start from the input number Default value is 0.	Int	11	Optional
LimitRecordShow	LimitRecordShow Is the total number of record to show. Maximum number of records show is 1000. Default value is 1000.			

- Return:

Type	**Possible variable**	**Description**	**Possible value**
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter 2. Security token is not valid
Result	Status		Success, Fail
	Date	Holiday date	2015-01-01
	DayType	Day type	Holiday
	LeaveType	Leave type	Annual
	Holiday	Holiday	New Year

- Sample return message:

i. Success:


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "BranchHolidayObj":[
   {
    "TimeTec Computing Sdn Bhd":[
     {
      "Date":"2015-12-31",
```

```
            "DayType":"",
            "LeaveType":"Annual",
            "Holiday":"New Year Eve"
          }
        ]
      }
    ]
  }
}
```


ii. Fail


```
{
  "ErrorMessage":"Invalid parameter",
  "Result":{
    "Status":"Fail",
    "BranchHolidayObj":""
  }
}
```


GetGroupDutyRoster

- Description: Get company group duty roster
- Param: CompanyID, DateFrom, DateTo, RecordShowFrom, LimitRecordShow
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Unique ID assigned to company	Varchar	10	Required
DateFrom	DateFrom is the start date DateTo is the end date Maximum 1 year period between DateFrom and DateTo	Date	yyyy-MM-dd	Required
DateTo				
RecordStartFrom	RecordStartFrom is to show record start from the input number Default value is 0.	Int	11	Optional
LimitRecordShow	LimitRecordShow Is the total number of record to show. Maximum number of records show is 1000. Default value is 1000.			

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter 2. Security token is not valid
Result	Status		Success, Fail
	GroupNo	Duty roster group code	1
	GroupDesc	Group description	
	GroupType	Roster type 0:Shift, 1:Weekly	Shift, Weekly
	OvertimeOnlyAfter	Minimum periodic work hours before overtime hours	0.000
	PayCycle	Periodic work summary, 0: per week, 1:per month	0,1
	DailyTotals	Daily total summation	0
	AutoCalcOT	Daily to OT	0
	7thDayOT	7th day overtime	0
	ShiftCount	No. of shifts per day	0
	EffectDate	Group duty roster effect day	2015-01-05
	DayType	Day type array separator |	W|W|W|R|R|W|O| W: Workday R: Restday O: Offday
	Date	Date	
	ScheNo	Schedule no.	
	DayType	Day type	Workday, Restday, Offday

	LeaveType	Leave type	
	Holiday	Holiday	Hari Raya Haji
	User	User ID	

- Sample return message:

i. Success:


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "GroupDutyRosterObj":[
   {
    "GroupNo":"1",
    "GroupDesc":"Normal 9am to 6pm",
    "GroupType":"Weekly",
    "OvertimeOnlyAfter":"0.000",
    "PayCycle":"0",
    "DailyTotals":"0",
    "AutoCalcOT":"0",
    "7thDayOT":"0",
    "ShiftCount":"0",
    "EffectDate":"2015-01-05",
    "DayType":"",
    "Roster":{
     "Shift1":[
      {
       "2015-9":[
        {
         "Date":"2015-09-16",
         "ScheNo":"1",
         "DayType":"Holiday",
         "LeaveType":"",
         "Holiday":"Malaysia Day"
        },
        {
         "Date":"2015-09-17",
         "ScheNo":"1",
         "DayType":"Workday",
         "LeaveType":"",
         "Holiday":""
```

```
},
{
 "Date":"2015-09-18",
 "ScheNo":"1",
 "DayType":"Workday",
 "LeaveType":"",
 "Holiday":""
},
{
 "Date":"2015-09-19",
 "ScheNo":"1",
 "DayType":"Restday",
 "LeaveType":"",
 "Holiday":""
},
{
 "Date":"2015-09-20",
 "ScheNo":"1",
 "DayType":"Restday",
 "LeaveType":"",
 "Holiday":""
},
{
 "Date":"2015-09-21",
 "ScheNo":"1",
 "DayType":"Workday",
 "LeaveType":"",
 "Holiday":""
},
{
 "Date":"2015-09-22",
 "ScheNo":"1",
 "DayType":"Workday",
 "LeaveType":"",
 "Holiday":""
},
{
 "Date":"2015-09-23",
 "ScheNo":"1",
 "DayType":"Workday",
 "LeaveType":"",
 "Holiday":""
},
{
```

```
                "Date":"2015-09-24",
                "ScheNo":"1",
                "DayType":"Holiday",
                "LeaveType":"",
                "Holiday":"Hari Raya Haji"
               }
              ]
             }
            ]
           },
           "User":[
            "88",
            "1003",
            "1103"
           ]
          }
         ]
        }
       }
```


ii. Fail


```
{
  "ErrorMessage":"Invalid parameter",
  "Result":{
    "Status":"Fail",
    "GroupDutyRosterObj":""
  }
}
```


GetUserDutyRoster

- Description: Get company user duty roster
- Param: CompanyID, UserID, DateFrom, DateTo, RecordShowFrom, LimitRecordShow
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Unique ID assigned to company	Varchar	10	Required
UserID	User ID	Int		
DateFrom	DateFrom is the start date DateTo is the end date	Date	yyyy-MM-dd	Required
DateTo				

	Maximum 1 year period between DateFrom and DateTo			
RecordStartFrom	RecordStartFrom is to show record start from the input number Default value is 0.	Int	11	Optional
LimitRecordShow	LimitRecordShow Is the total number of record to show. Maximum number of records show is 1000. Default value is 1000.			

- Return:

Type	**Possible variable**	**Description**	**Possible value**
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter 2. Security token is not valid
Result	Status		Success, Fail
	UserID	User ID	3117
	Name	Name	
	Branch	Branch	FingerTec Worldwide Sdn Bhd
	Department	Department	Research & Development (R&D)
	Section	Section	TimeTec
	GroupNo	Duty roster group code	1
	GroupType	Roster type 0:Shift, 1:Weekly	Shift, Weekly
	Date	Date	2015-09-16
	ScheNo	Schedule no.	4
	DayType	Day type	Workday, Restday, Offday

	LeaveType	Leave type	Out Of Office
	Holiday	Holiday	

- Sample return message:
    i. Success:


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "UserDutyRosterObj":[
   {
    "UserID":"3117",
    "Name":"Hazwani",
    "Branch":"FingerTec Worldwide Sdn Bhd",
    "Department":"Research & Development (R&D)",
    "Section":"TimeTec",
    "GroupNo":"4",
    "GroupType":"Weekly",
    "Roster":{
     "Shift1":[
      {
       "2015-9":[
        {
         "Date":"2015-09-16",
         "ScheNo":"4",
         "DayType":"",
         "LeaveType":"Out Of Office",
         "Holiday":""
        },
        {
         "Date":"2015-09-17",
         "ScheNo":"4",
         "DayType":"",
         "LeaveType":"Out Of Office",
         "Holiday":""
        },
        {
         "Date":"2015-09-18",
         "ScheNo":"4",
         "DayType":"Workday",
         "LeaveType":"",
```

```
  "Holiday":""
 },
 {
  "Date":"2015-09-19",
  "ScheNo":"4",
  "DayType":"Restday",
  "LeaveType":"",
  "Holiday":""
 },
 {
  "Date":"2015-09-20",
  "ScheNo":"4",
  "DayType":"Restday",
  "LeaveType":"",
  "Holiday":""
 },
 {
  "Date":"2015-09-21",
  "ScheNo":"4",
  "DayType":"Workday",
  "LeaveType":"",
  "Holiday":""
 },
 {
  "Date":"2015-09-22",
  "ScheNo":"4",
  "DayType":"Workday",
  "LeaveType":"",
  "Holiday":""
 },
 {
  "Date":"2015-09-23",
  "ScheNo":"4",
  "DayType":"",
  "LeaveType":"Sick",
  "Holiday":""
 },
 {
  "Date":"2015-09-24",
  "ScheNo":"4",
  "DayType":"",
  "LeaveType":"Sick",
  "Holiday":""
 }
```

```
            ]
          }
        ]
      }
    }
  ]
 }
}
```

ii. Fail

```
{
  "ErrorMessage":"Invalid parameter",
  "Result":{
    "Status":"Fail",
    "UserDutyRosterObj":""
  }
}
```

UpdateCompanySetting

- Description: Update company setting
- Param: CompanyID, CompanyName, Phone, Fax, CompanyEmail, Address, Country, ContactPerson, DateFormat, TimeFormat, HourFormat, TimeZone, PayrollCycle, PreferredLanguage, AllowSupportLogin, Calendar, FirstDayOfWeek, CurrencySymbol, GridSize, Timeout, PayrollCycleStartDate
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
CompanyName	Company Name	Varchar	60	
Phone	Phone	Varchar	40	
Fax	Fax			
CompanyEmail	Company email	Varchar	60	
Address	Company address	Varchar	500	

Country	Country	Varchar	2	
ContactPerson	Contact person	Varchar	60	Optional
DateFormat	Date format	Varchar	3	Required
TimeFormat	Time format	Varchar	2	
HourFormat	Hour format			
TimeZone	Time zone	Varchar	9	
PayrollCycle	Payroll cycle	Tinyint	1	
PreferredLanguage	Preferred language	Varchar	255	Optional
AllowSupportLogin	Allow support login	Tinyint	1	
Calendar	Calendar	Varchar	50	
FirstDayOfWeek	First day of week	Tinyint	1	Required
CurrencySymbol	Currency symbol	Varchar	3	Optional
GridSize	Grid size	Smallint	3	Required
Timeout	Timeout	Tinyint	3	
PayrollCycleStartDate	Payroll cycle start date	Date	yyyy-MM-dd	Optional

- Return:

Type	**Possible variable**	**Description**	**Possible value**
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter

Result	Status		Success, Fail

- Sample return message:

i. Success

```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success"
 }
}
```

ii. Fail

```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail"
 }
}
```

AddBranch

- Description: Add branch
- Param: CompanyID, Branch
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
Branch	Branch	Varchar	50	

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter
Result	Status		Success, Fail

- Sample return message:

i. Success

```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success"
 }
}
```

ii. Fail

```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail"
 }
}
```

UpdateBranch

- Description: Update branch
- Param: CompanyID, AutoNo, Branch
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
Auto No.	Auto No	Int	10	
Branch	Branch	Varchar	50	

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter

Result	Status		Success, Fail

- Sample return message:
  i. Success

```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success"
 }
}
```

  ii. Fail

```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail"
 }
}
```

AddDepartment

- Description: Add department
- Param: CompanyID, Department
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
Department	Department	Varchar	50	

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter
Result	Status		Success, Fail

- Sample return message:

i. Success

```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success"
 }
}
```

ii. Fail

```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail"
 }
}
```

UpdateDepartment

- Description: Update department
- Param: CompanyID, AutoNo, Department
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
Auto No.	Auto No	Int	10	
Department	Department	Varchar	50	

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter

Result	Status		Success, Fail

- Sample return message:

i. Success

```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success"
 }
}
```

ii. Fail

```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail"
 }
}
```

AddSection

- Description: Add section
- Param: CompanyID, Section
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
Section	Section	Varchar	50	

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter

Result	Status		Success, Fail

- Sample return message:
  i. Success
  ```
  {
   "ErrorMessage":"",
   "Result":{
    "Status":"Success"
   }
  }
  ```
  ii. Fail
  ```
  {
   "ErrorMessage":"Invalid parameter",
   "Result":{
    "Status":"Fail"
   }
  }
  ```

UpdateSection

- Description: Update section
- Param: CompanyID, AutoNo, Section
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
Auto No.	Auto No	Int	10	
Section	Section	Varchar	50	

- Return:

Type	Possible variable	Description	Possible value

Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter
Result	Status		Success, Fail

- Sample return message:

i. Success

```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success"
 }
}
```

ii. Fail

```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail"
 }
}
```

AddRemark

- Description: Add remark
- Param: CompanyID, Remark,WorkCode
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
Remark	Remark	Varchar	50	
WorkCode	Work Code	Int	10	

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter
Result	Status		Success, Fail

- Sample return message:
  i. Success

```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success"
 }
}
```

  ii. Fail

```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail"
 }
}
```

UpdateRemark

- Description: Update remark
- Param: CompanyID, AutoNo, Remark, WorkCode
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
Auto No.	Auto No	Int	10	
Remark	Remark	Varchar	50	

WorkCode	Work Code	Int	10	

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter
Result	Status		Success, Fail

- Sample return message:

i. Success

```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success"
 }
}
```

ii. Fail

```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail"
 }
}
```

UpdateDayType

- Description: Update day type
- Param: CompanyID, AutoNo, DayType, PeriodicTotal, WorkRate, OTRate, DiffOTRate
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
Auto No.	Auto No	Int	10	

DayType	Remark	Varchar	20	
PeriodicTotal	Sum periodic flag (0, 1)	Tinyint	1	Optional
WorkRate	Normal work rate %	Smallint	3	
OTRate	Overtime rate %			
DiffOTRate	Differential overtime rate %			

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter
Result	Status		Success, Fail

- Sample return message:

i. Success

```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success"
 }
}
```

ii. Fail

```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail"
 }
}
```

GetOrgStructure

- Description: Get Organization Structure
- Param: CompanyID
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter
Result	Status		Success, Fail
	ID	Division ID	322
	ParentID	Division Parent ID	0
	Division	Division name	Board of Director
	DivisionType	Division Type	1: Division 2: Patrol Location
	ChildDivision	Child Division ID	,1,2,3,4,
	CompanyRegistrationID	Company Registration ID	
	Email	Email Address	bom@gmail.com
	PhoneNo	Telephone No	
	FaxNo	Telephone Fax No	
	Address	Billing Address	
	CountryCode	Country Code	MY
	CurrencySymbol	Currency Symbol	RM

	CreateDate		2016-02-23 10:44:58
	LastUpdate		2016-02-23 10:44:58

- Sample return message:

i. Success


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "OrgStructureObj":[
   {
    "ID":"322",
    "ParentID":"0",
    "Division":"Board of Director ",
    "DivisionType":"Division",
    "CompanyRegistrationID":"123",
    "Email":"bom@gmail.com",
    "PhoneNo":"01223232",
    "FaxNo":"012121233",
    "Address":"i-Tech Tower Cyberjaya, Malaysia ",
    "CountryCode":"MY",
     "CurrencySymbol":"RM",
    "CreateDate":"2016-02-23 10:44:58",
    "LastUpdate":"2016-03-28 02:59:38"
   }
}
```


ii. Fail


```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail",
  "OrgStructureObj":""
 }
}
```


GetOrgStructureHoliday

- Description: Get Organization Structure Holiday
- Param: CompanyID, DivisionID, CheckTimeFrom, CheckTimeTo, RecordStartFrom, LimitRecordShow
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
DivisionID	Division ID	Bigint	20	
CheckTimeFrom	CheckTimeFrom is the start clocking date CheckTimeTo is the end of clocking date Maximum 1 year period between CheckTimeFrom and CheckTimeTo	Date	yyyy-MM-dd	Required
CheckTimeTo				
RecordStartFrom	RecordStartFrom is to show record start from the input number Default value is 0.	Int	11	Optional
LimitRecordShow	LimitRecordShow Is the total number of record to show. Maximum number of records show is 1000. Default value is 1000.			

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter
Result	Status		Success, Fail
	Date	Holiday date	2016-02-08
	Holiday	Holiday	Chinese Lunar New Year's Day

- Sample return message:

i. Success


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "OrgStructureHolidayObj":[
   {
```

```
"BOM":[
 {
  "Date":"2016-02-08",
  "Holiday":"Chinese Lunar New Year's Day"
 },
 {
  "Date":"2016-02-09",
  "Holiday":"Second day of Chinese Lunar New Year"
 },
 {
  "Date":"2016-05-01",
  "Holiday":"Labour Day"
 }
]
}
]
}
}
```


ii. Fail


```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail",
  "OrgStructureHolidayObj":""
 }
}
```


GetAttendanceJobCost

- Description: Get attendance and job cost data
- Param: CompanyID, UserID, CheckTimeFrom, CheckTimeTo, RecordStartFrom, LimitRecordShow
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Unique ID assigned to company	Varchar	10	Required
UserID	Unique ID assigned to company user	Int	10	Required
CheckTimeFrom	CheckTimeFrom is the start clocking date	Date	yyyy-MM-dd	Required

CheckTimeTo	CheckTimeTo is the end of clocking date Maximum 1 month period between CheckTimeFrom and CheckTimeTo			
RecordStartFrom	RecordStartFrom is to show record start from the input number Default value is 0.	Int	11	Optional
LimitRecordShow	LimitRecordShow Is the total number of record to show. Maximum number of records show is 1000. Default value is 1000.			

- Return

Type	**Possible variable**	**Description**	**Possible value**
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter 2. Security token is not valid
Result	Status		Success, Fail
	Date	Attendance date (DMY, MDY, YMD format)	26/02/2015 02/26/2015 2015/02/26
	User_ID	User ID	92
	Name	Name	Nur Hazwani
	DayType	Day type	Workday
	ScheNo	Schedule no. (0 for open schedule)	1
	In	In clocking time (12, 24 format)	09:00 AM, 14:00
	Out	Out clocking time (12, 24 format)	09:00 AM, 14:00
	Out1	Out #1 clocking time (12, 24 format)	09:00 AM, 14:00

	In1	In #1 clocking time (12, 24 format)	09:00 AM, 14:00
	Out2	Out #2 clocking time (12, 24 format)	09:00 AM, 14:00
	In2	In #2 clocking time (12, 24 format)	09:00 AM, 14:00
	Out3	Out #3 clocking time (12, 24 format)	09:00 AM, 14:00
	In3	In #3 clocking time (12, 24 format)	09:00 AM, 14:00
	Out4	Out #4 clocking time (12, 24 format)	09:00 AM, 14:00
	In4	In #4 clocking time (12, 24 format)	09:00 AM, 14:00
	Out5	Out #5 clocking time (12, 24 format)	09:00 AM, 14:00
	In5	In #5 clocking time (12, 24 format)	09:00 AM, 14:00
	WorkHour	Work hour (HM, HH format)	8.00
	OTHour	Overtime hour (HM, HH format)	1.31
	LeaveHour	Leave hour taken define by user (HM, HH format)	1.11
	LeaveType	Leave type	"Annual Leave" "Absent" "Annual" "Annual Leave" "Compassionate Leave" "EID Holiday" "Emergency" "Emergency Leave" "Emergency Leave (AM)" "Emergency Leave (PM)" "Half Day (AM)" "Halfday (PM)" "Holiday" "Hospitalization" "Long Service Leave"

			"Marriage" "Maternity Leave" "Medical Leave" "Out Of Office" "Partenity" "Paternity Leave" "Public Holiday" "Sick" "Study Leave" "Unpaid" "Vacation"
	LeaveApplications	Array of multiple half-day leave applications	
	Remark	User Remark/Comment	Out of office
	WorkCode	Word Codes used when reporting attendance	Repair Machine
	DiffOTHour	Differential OT hour	1.00
	Employee_ID	Employee ID	92
	DivisionID	Division ID	315
	Division	Division	Research & Development (R&D)
	ShortHour	Short hour (HM, HH format)	1.00
	JobCost – In	In clocking time (12, 24 format)	09:00 AM, 14:00
	JobCost – Out	Out clocking time (12, 24 format)	09:00 AM, 14:00
	JobCost – WorkHour	Work hour (HM, HH format)	8.00
	JobCost – OTHour	Overtime hour (HM, HH format)	2.00
	JobCost – DiffOTHour	Differential OT hour	1.00
	JobCost – WorkCode	Word Codes used when reporting attendance	2

	JobCost - WorkCodeRemark	Work Code Remark	Repair Machine

	OvertimeRequests	Array of overtime requests	

- LeaveApplications

Field	Description	Possible value
LeaveType	Applied's leave type	Annual
LeaveHour	Leave hours approved (HM, HH format)	5.30
StartTime	Applied leave start time	08:00:00
EndTime	Applied leave start time	13:30:00
PartialAMPM	AMPM indicator of this leave	PM
UniqueID	Request's remark	100001

- Sample return message

i. Success


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "AttendanceJobCostObj":[
   {
    "Date":"01/06/2017",
    "User_ID":"61",
    "Name":"jc-any-weekday",
    "DayType":"Workday",
    "ScheNo":"6",
    "In":"16:06",
    "Out":"23:24",
    "Out1":"",
    "In1":"",
    "Out2":"",
    "In2":"",
```

```
        "Out3":"",
        "In3":"",
        "Out4":"",
        "In4":"",
        "Out5":"",
        "In5":"",
        "WorkHour":"9.00",
        "OTHour":"2.00",
        "LeaveHour":"4.00",
        "LeaveType":"Annual",
        "LeaveApplications":[
         {
          " LeaveType":"Annual ",
          " LeaveHour":"5.30",
          " StartTime":"08:00:00",
          " EndTime":"13:30:00",
          " PartialAMPM":"PM",
          " UniqueID":"100001",
         }
        ],
        "Remark":"trst",
        "WorkCode":"",
        "DiffOTHour":"1.00",
        "Employee_ID":"92",
        "DivisionID":"315",
        "Division":"Research & Development (R&D)",
        "ShortHour":"1.00",
        "JobCost":[
         {
          "In":"16:06",
          "Out":"23:24",
          "WorkHour":"2.00",
          "OTHour":"3.00",
          "DiffOTHour":"4.00",
          "WorkCode":"2",
          "WorkCodeRemark":"Repair Machine"
         }
        ]
       }
      ]
     }
    }
```


ii. Fail


```
    {
```

```
  "ErrorMessage":"Invalid parameter",
  "Result":{
    "Status":"Fail",
    " AttendanceJobCostObj ":""
  }
}
```

GetAllAttendanceJobCost

- Description: Get all attendance and job cost data
- Param: CompanyID, CheckTimeFrom, CheckTimeTo, RecordStartFrom, LimitRecordShow
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Unique ID assigned to company	Varchar	10	Required
CheckTimeFrom	CheckTimeFrom is the start clocking date	Date	yyyy-MM-dd	Required
CheckTimeTo	CheckTimeTo is the end of clocking date Maximum 1 month period between CheckTimeFrom and CheckTimeTo			
RecordStartFrom	RecordStartFrom is to show record start from the input number Default value is 0.	Int	11	Optional
LimitRecordShow	LimitRecordShow Is the total number of record to show. Maximum number of records show is 1000. Default value is 1000.			

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter 2. Security token is not valid
Result	Status		Success, Fail
	Date	Attendance date (DMY, MDY, YMD format)	26/02/2015 02/26/2015 2015/02/26
	User_ID	User ID	92

	Name	Name	Nur Hazwani
	DayType	Day type	Workday
	ScheNo	Schedule no. (0 for open schedule)	1
	In	In clocking time (12, 24 format)	09:00 AM, 14:00
	Out	Out clocking time (12, 24 format)	09:00 AM, 14:00
	Out1	Out #1 clocking time (12, 24 format)	09:00 AM, 14:00
	In1	In #1 clocking time (12, 24 format)	09:00 AM, 14:00
	Out2	Out #2 clocking time (12, 24 format)	09:00 AM, 14:00
	In2	In #2 clocking time (12, 24 format)	09:00 AM, 14:00
	Out3	Out #3 clocking time (12, 24 format)	09:00 AM, 14:00
	In3	In #3 clocking time (12, 24 format)	09:00 AM, 14:00
	Out4	Out #4 clocking time (12, 24 format)	09:00 AM, 14:00
	In4	In #4 clocking time (12, 24 format)	09:00 AM, 14:00
	Out5	Out #5 clocking time (12, 24 format)	09:00 AM, 14:00
	In5	In #5 clocking time (12, 24 format)	09:00 AM, 14:00
	WorkHour	Work hour (HM, HH format)	8.00
	OTHour	Overtime hour (HM, HH format)	1.31

	LeaveHour	Leave hour taken define by user (HM, HH format)	1.11
	LeaveType	Leave type	"Annual Leave" "Absent" "Annual" "Annual Leave" "Compassionate Leave" "EID Holiday" "Emergency" "Emergency Leave" "Emergency Leave (AM)" "Emergency Leave (PM)" "Half Day (AM)" "Halfday (PM)" "Holiday" "Hospitalization" "Long Service Leave" "Marriage" "Maternity Leave" "Medical Leave" "Out Of Office" "Partenity" "Paternity Leave" "Public Holiday" "Sick" "Study Leave" "Unpaid" "Vacation"
	Remark	User Remark/Comment	Out of office
	WorkCode	Word Codes used when reporting attendances	Repair Machine
	DiffOTHour	Differential OT hour	1.00
	Employee_ID	Employee ID	92
	DivisionID	Division ID	315
	Division	Division	Research & Development (R&D)
	ShortHour	Short hour (HM, HH format)	1.00
	JobCost – In	In clocking time (12, 24 format)	09:00 AM, 14:00
	JobCost – Out	Out clocking time	09:00 AM, 14:00

		(12, 24 format)	
	JobCost – WorkHour	Work hour (HM, HH format)	8.00
	JobCost – OTHour	Overtime hour (HM, HH format)	2.00
	JobCost – DiffOTHour	Differential OT hour	1.00
	JobCost – WorkCode	Word Codes used when reporting attendance	2
	JobCost - WorkCodeRemark	Work Code Remark	Repair Machine

- Sample Return message:
    i. Success


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "AllAttendanceJobCostObj":[
   {
    "Date":"01/06/2017",
    "User_ID":"61",
    "Name":"jc-any-weekday",
    "DayType":"Workday",
    "ScheNo":"6",
    "In":"16:06",
    "Out":"23:24",
    "Out1":"",
    "In1":"",
    "Out2":"",
    "In2":"",
    "Out3":"",
    "In3":"",
    "Out4":"",
    "In4":"",
    "Out5":"",
    "In5":"",
    "WorkHour":"9.00",
    "OTHour":"2.00",
    "LeaveHour":"4.00",
    "LeaveType":"Annual",
```

```
"Remark":"trst",
"WorkCode":"",
"DiffOTHour":"1.00",
"Employee_ID":"92",
"DivisionID":"315",
"Division":"Research & Development (R&D)",
"ShortHour":"1.00",
"JobCost":[
 {
  "In":"16:06",
  "Out":"23:24",
  "WorkHour":"2.00",
  "OTHour":"3.00",
  "DiffOTHour":"4.00",
  "WorkCode":"2",
  "WorkCodeRemark":"Repair Machine"
 }
]
},
]
}
}
```


ii. Fail


```
{
  "ErrorMessage":"Invalid parameter",
  "Result":{
    "Status":"Fail",
    " AllAttendanceJobCostObj ":""
  }
}
```


GetApprovedSumWorkingHour

- Description: Get the total of work and OT hours for respective daytypes.
- Param: CompanyID, UserID/EmployeeID, CheckTimeFrom, CheckTimeTo, RecordStartFrom, LimitRecordShow
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Unique ID assigned to company	Varchar	10	Required

UserID	Unique ID assigned to company user	Int	10	At least one of the parameters is required if you want to get a specific user's attendance detail. If both parameters are provided, this function will return users' attendance detail based on the user ID. If none of the parameters is provided, this function will return all users' attendance detail.
EmployeeID	A Unique ID assigned to company user	Varchar	15	
CheckTimeFrom	CheckTimeFrom is the start of the clocking date. CheckTimeTo is the end of the clocking date. Maximum 1 month period (31days) between CheckTimeFrom and CheckTimeTo	Date	yyyy-MM-dd	Required
CheckTimeTo				
RecordStartFrom	RecordStartFrom is to show record start from the input number Default value is 0.	Int	11	Optional
LimitRecordShow	LimitRecordShow Is the total number of record to show. Maximum number of records show is 1000. Default value is 1000.			

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter 2. Security token is not valid
Result	Status		Success, Fail

	User_ID	User ID	
	Employee_ID	Employee ID	
	Name	Name	
	DateFrom	Start Date (DMY, MDY, YMD format)	26/02/2020 02/26/2020 2020/02/26
	DateTo	End Date (DMY, MDY, YMD format)	26/02/2015 02/26/2015 2015/02/26
	WorkDayWorkHour	Sum of approved WorkDay Work hour (HM, HH format) for the selected date range	250.32
	WorkDayOverTime	Sum of WorkDay OverTime hour (HM, HH format) for the selected date range	17.11
	WorkDayDiffOT	Sum of WorkDay Differential OT hour (HM, HH format) for the selected date range	5.11
	HolidayWorkHour	Sum of approved Holiday Work hour (HM, HH format) for the selected date range	250.32
	HolidayOverTime	Sum of Holiday OverTime hour (HM, HH format) for the selected date range	17.11
	HolidayDiffOT	Sum of Holiday Differential OT hour (HM, HH format) for the selected date range	5.11
	RestdayWorkHour	Sum of approved Restday Work hour (HM, HH format) for the selected date range	250.32
	RestdayOverTime	Sum of Restday OverTime hour (HM, HH format) for the selected date range	17.11
	RestdayDiffOT	Sum of Restday Differential OT hour (HM, HH format) for the selected date range	5.11

	OffdayWorkHour	Sum of approved Offday Work hour (HM, HH format) for the selected date range	250.32
	OffdayOverTime	Sum of Offday OverTime hour (HM, HH format) for the selected date range	17.11
	OffdayDiffOT	Sum of Offday Differential OT hour (HM, HH format) for the selected date range	5.11

- Sample return message

i. Success


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "ApprovedSumWorkingHourObj":[
   {
    "Employee_ID":"A10232",
    "User_ID":"1",
    "Name":"John St. Michael",
    "DateFrom":"2018/02/01",
    "DateTo":"2018/02/28",
    "WorkdayWorkHour":"21.00",
    "WorkdayOverTime":"1.00",
    "WorkdayDiffOT":"0.00",
    "HolidayWorkHour":"5.00",
    "HolidayOverTime":"3.00",
    "HolidayDiffOT":"0.00",
    "RestdayWorkHour":"0.00",
    "RestdayOverTime":"0.00",
    "RestdayDiffOT":"0.00",
    "OffdayWorkHour":"0.00",
    "OffdayOverTime":"0.00",
    "OffdayDiffOT":"0.00"
   }
  ]
 }
}
```


ii. Fail


```
{
 "ErrorMessage":"Invalid parameter",
```

```
"Result":{
  "Status":"Fail",
  " ApprovedSumWorkingHourObj ":""
 }
}
```


GetAuditDataByClockingMethod

- Description: Get audit data by clocking method
- Param: CompanyID, CheckTimeDate , RecordStartFrom, LimitRecordShow
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Unique ID assigned to company	Varchar	10	Required
UserID	The unique ID assigned to company user	Int	10	Optional
CheckTimeFrom	CheckTimeFrom is the start clocking date and created date	Date	yyyy-MM-dd	Required. Maximum 1 month period between CheckTimeFrom and CheckTimeTo
CheckTimeTo	CheckTimeTo is the end of clocking date and created date			
ClockingMethod	User clocking method	Enum	device, mobile, web	Required
RecordStartFrom	RecordStartFrom is to show record start from the input number Default value is 0.	Int	11	Optional
LimitRecordShow	LimitRecordShow Is the total number of record to show. Maximum number of records show is 1000. Default value is 1000.			

- Return:

Type	Possible variable	Description	Possible value

Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter 2. Security token is not valid
Result	Status		Success, Fail
	Terminal_ID	Terminal ID	1
	Email		
	User_ID	User ID	92
	CheckTime	Clocking time	31/10/2013 12:00:02
	CheckType	Clocking Type 0 : Check-In 1 : Check Out 2 : Break Out 3 : Resume In 4 : OT-In 5 : OT-Out	0, 1, 2, 3, 4, 5
	DeviceID	FingerTec Device Serial No / Mobile ID	
	Location	GPS location	
	Coordinate	GPS coordinates (latitude, longitude)	3.1871767,101.6775462

- Sample return message

iii. Success


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "AuditDataObj":[
   {
    "Terminal_ID":"0",
    "Email":"lizatest@fingertec.com",
    "User_ID":"1002",
    "CheckTime":"2017-10-03 14:50:15",
    "CheckType":"0",
    "Tegrminal_SN":"4597936",
    "Location":"Persiaran Multimedia 6, Cyberjaya, 63000 Cyberjaya,
Selangor, Malaysia",
    "Coordinate":"2.922852 , 101.661254"
```

```
      }
     ]
    }
   }
iv. Fail
   {
    "ErrorMessage":"Invalid parameter",
    "Result":{
     "Status":"Fail",
     "AuditDataObj":""
    }
   }
```


GetAuditDataByDate

- Description: Get 1 day audit data
- Param: CompanyID, CheckTimeDate , RecordStartFrom, LimitRecordShow
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Unique ID assigned to company	Varchar	10	Required
CheckTimeDate	Clocking date	Date	yyyy-MM-dd	Required
RecordStartFrom	RecordStartFrom is to show record start from the input number Default value is 0.	Int	11	Optional
LimitRecordShow	LimitRecordShow Is the total number of record to show. Maximum number of records show is 1000. Default value is 1000.			

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter 2. Security token is not valid

Result	Status		Success, Fail
	User_ID	User ID	92
	Terminal_ID	Terminal ID	1
	Terminal_SN	Serial No.	7307734
	Email		
	CheckTime	Clocking time	31/10/2013 12:00:02
	CheckType	Clocking Type 0 : Check-In 1 : Check Out 2 : Break Out 3 : Resume In 4 : OT-In 5 : OT-Out	0, 1, 2, 3, 4, 5

- Sample return message

v. Success


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "AuditDataObj":[
   {
    "User_ID":"92",
    "Terminal_ID":"15",
    "Terminal_SN":"7307734",
    "Email":"",
    "CheckTime":"31/10/2013 12:00:02",
    "CheckType":"0"
   }
  ]
 }
}
```


vi. Fail


```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail",
  "AuditDataObj":""
 }
}
```

GetAuditDataCount

- Description: Get 1 day audit data total count
- Param: CompanyID, CheckTimeDate
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Unique ID assigned to company	Varchar	10	Required
CheckTimeDate	Clocking date	Date	yyyy-MM-dd	Required

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter 2. Security token is not valid
Result	Status		Success, Fail
	AuditDataCount	Total audit data count	1

- Sample return message

i. Success


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "AuditDataCount":"1"
 }
}
```


ii. Fail


```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail",
  "AuditDataCount":""
 }
```

}

GetAuditDataWithLocation

- Description: Get audit data with work location
- Param: CompanyID, UserID, CheckTimeFrom, CheckTimeTo, RecordStartFrom, LimitRecordShow
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Unique ID assigned to company	Varchar	10	Required
UserID	The unique ID assigned to company user	Int	10	Optional
CheckTimeFrom	CheckTimeFrom is the start clocking date CheckTimeTo is the end of clocking date Maximum 1 month period between CheckTimeFrom and CheckTimeTo	DateTime	yyyy-MM-dd HH:mm:ss	Required
CheckTimeTo				
RecordStartFrom	RecordStartFrom is to show record start from the input number Default value is 0.	Int	11	Optional
LimitRecordShow	LimitRecordShow Is the total number of records to show. Maximum number of records shown is 1000. Default value is 1000.			

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter 2. Security token is not valid
Result	Status		Success, Fail

	Terminal_ID	Terminal ID	1
	Terminal_SN	Serial No.	7307734
	Email		
	User_ID	User ID	92
	CheckTime	Clocking time	16/01/2015 12:00:02
	CheckType	Clocking Type 0 : Check-In 1 : Check Out 2 : Break Out 3 : Resume In 4 : OT-In 5 : OT-Out	0, 1, 2, 3, 4, 5
	Location	GPS location	
	WorkLocation	Work Location If the audit data does not have a work location, returns "Uncategorized"	
	Coordinate	GPS coordinates (latitude, longitude)	3.1871767,101.6775462
	AttendDate	Clocking Date in Attendance	18/4/2025
	AttendSlot	Clocking Slot in Attendance 0 : None 1 : In 2 : Break Out 1 3 : Resume In 1 4 : Break Out 2 5 : Resume In 2 6 : Break Out 3 7 : Resume In 3 8 : Break Out 4 9 : Resume In 4 10 : Break Out 5 11 : Resume In 5 12 : Out 13: OT In 14 : OT Out	0,1,2,3,4,5,6,7,8,9,10,11,12

- Sample return message
    i. Success

```
{
 "ErrorMessage":"",
```

```
"Result":{
 "Status":"Success",
 "AuditDataObj":[
  {
   "Terminal_ID":"0",
   "Terminal_SN":"2879704291",
   "Email":"lizatest@fingertec.com",
   "User_ID":"1002",
   "CheckTime":"2025-01-06 02:11:52",
   "CheckType":"0",
   "Location":"Persiaran Multimedia 6, Cyberjaya, 63000 Cyberjaya,
Selangor, Malaysia",
   "WorkLocation":"Office",
   "Coordinate":"2.922852 , 101.661254"
   "AttendDate":"2025-04-18",
   "AttendSlot":"1"
  }
 ]
}
}
```


ii. Fail


```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail",
  "AuditDataObj":""
 }
}
```


GetAllApprovedOutOfAreaClocking

- Description: Get out of area by date
- Param: CompanyID, CheckTimeDateFrom , CheckTimeDateTo, RecordStartFrom, LimitRecordShow
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Unique ID assigned to company	Varchar	10	Required
UserID	The unique ID assigned to company user	Int	10	Optional

CheckTimeFrom	CheckTimeFrom is the start created date	Date	yyyy-MM-dd	Required. Maximum 1 month period between CheckTimeFrom and CheckTimeTo
CheckTimeTo	CheckTimeTo is the end of created date	Date	yyyy-MM-dd	
RecordStartFrom	RecordStartFrom is to show record start from the input number Default value is 0.	Int	11	Optional
LimitRecordShow	LimitRecordShow Is the total number of record to show. Maximum number of records show is 1000. Default value is 1000.			

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter 2. Security token is not valid
Result	Status		Success, Fail
	Email		
	User_ID	User ID	92
	CheckTime	Clocking time	31/10/2013 12:00:02
	CheckType	Clocking Type 0 : Check-In 1 : Check Out 2 : Break Out 3 : Resume In 4 : OT-In 5 : OT-Out	0, 1, 2, 3, 4, 5
	Terminal_SN	FingerTec Device Serial No / Mobile ID	
	Location	GPS location	

	Coordinate	GPS coordinates (latitude, longitude)	3.1871767,101.6775462

- Sample return message

i. Success


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "ApprovedOutOfAreaClocking":[
   {
    "Email":"lizatest@fingertec.com",
    "User_ID":"1002",
    "CheckTime":"2017-10-03 14:50:15",
    "CheckType":"0",
    "Terminal_SN":"4597936",
    "Location":"Persiaran Multimedia 6, Cyberjaya, 63000 Cyberjaya,
Selangor, Malaysia",
    "Coordinate":"2.922852 , 101.661254"
   }
  ]
 }
}
```


ii. Fail


```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail",
  "ApprovedOutOfAreaClocking":""
 }
}
```


AddOrgStructure

- Description: Add organization structure
- Param: CompanyID, ParentID, Division, DivisionType, CompanyRegistrationID, Email, PhoneNo, FaxNo, Address, CountryCode, CurrencySymbol
- Param Description:

Param	Description	Data Type	Size	Remark

CompanyID	Company ID	Varchar	10	Required
ParentID	Parent ID	Bigint	20	
Division	Division name	Varchar	250	
DivisionType	Division Type Default value is Division.	Enum	Division, Patrol Location	
CompanyRegistrationID	Company Registration ID	Varchar	50	Optional
Email	Division Email	Varchar	60	
PhoneNo	Division Phone No	Varchar	40	
FaxNo	Division Fax No	Varchar	50	
CountryCode	Division Country Code	Varchar	2	
CurrencySymbol	Division Currency Symbol	Enum	*https://www.fingertec.com/developerprogram/usermanual/CurrencySymbol.xlsx*	

- Return:

Type	**Possible variable**	**Description**	**Possible value**
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter
Result	Status		Success, Fail
	ID	New Division ID	451

- Sample return message:
  i. Success

```
{
```

```
"ErrorMessage":"",
"Result":{
 "Status":"Success",
 "ID":"451"
}
}
```


ii. Fail


```
{
"ErrorMessage":"Invalid parameter",
"Result":{
 "Status":"Fail"
}
}
```


AddOrgStructure2

- Description: Add organization structure
- Param: CompanyID, JSONOrgStructureInfo
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
JSONOrgStructureInfo	Input to be serialized into JSON. Sample: *{ "ParentID":"2002", "Division":"Management", "DivisionType":"division", "ParentCode":"XF-15431", "ParentCodeArray": ["XF-15431", "XF-15432"], "Code":"XF-15432", "Email": "testing@email.com", "PhoneNo": "031236124", "FaxNo": "031236121", "Address": "iTech 02-08,Cyberjaya", "CountryCode": "MY", "CurrencySymbol": "RM", "AllowDuplicate": "yes" }*	Obj		

- JSONOrgStructureInfo:

Param	Description	Data Type	Size	Remark
ParentID	Parent ID	Bigint	20	At least one of the parameters is required if you want to add/update the Organization Structure. If three of the parameters are provided, this function will assign Organization Structure under ParentID and ignore ParentCode and ParentCodeArray. The values for ParentCodeArray must be arranged in a predefined sequence starting with the first level of Organization Structure. E.g. [“0”, “1001”, “1002”, “1003”, “1004”, “1005”]
ParentCode	Parent Code (Parent Company Registration No.)	Varchar	50	
ParentCodeArray	Parent Code (Parent Company Registration No.)	Array of Varchar	Ex. [“1001”, “1002”, “1003”, “1004”, “1005”]	
Division	Division name	Varchar	250	Required
DivisionType	Division Type Default value is Division.	Enum	Division, Patrol Location	Optional
Code	Code (Company Registration No.)	Varchar	50	
Email	Division Email	Varchar	60	

PhoneNo	Division Phone No	Varchar	40	
FaxNo	Division Fax No	Varchar	50	
CountryCode	Division Country Code	Varchar	2	
CurrencySymbol	Division Currency Symbol	Enum	*https://www.fingertec.com/developerprogram/usermanual/CurrencySymbol.xlsx*	
AllowDuplicate	Allow same code for different division Default value is No.	Enum	Yes,No	Optional

- Return:

Type	**Possible variable**	**Description**	**Possible value**
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter
Result	Status		Success, Fail
	ID	New Division ID	451

- Sample return message:

i. Success


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success",
  "ID":"451"
 }
}
```


ii. Fail


```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail"
 }
}
```


UpdateOrgStructure

- Description: Update organization structure records
- Param: CompanyID, ParentID, ID, Division, DivisionType, CompanyRegistrationID, Email, PhoneNo, FaxNo, Address, CountryCode, CurrencySymbol
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
ParentID	Parent ID	Bigint	20	
ID	Division ID	Bigint	20	
Division	Division name	Varchar	250	
CompanyRegistrationID	Company Registration ID	Varchar	50	Optional
Email	Division Email	Varchar	60	
PhoneNo	Division Phone No	Varchar	40	
FaxNo	Division Fax No	Varchar	50	

CountryCode	Division Country Code	Varchar	2	
CurrencySymbol	Division Currency Symbol	Enum	*https://www.fingertec.com/developerprogram/usermanual/CurrencySymbol.xlsx*	

- Return:

Type	**Possible variable**	**Description**	**Possible value**
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter
Result	Status		Success, Fail

- Sample return message:
  i. Success

```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success"
 }
}
```

  ii. Fail

```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail"
 }
}
```

UpdateOrgStructure2

- Description: Update organization structure records
- Param: CompanyID, JSONOrgStructureInfo

- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
JSONOrgStructureInfo	Input to be serialized into JSON. Sample: *{ "ParentID":"2002",* *"Division":"Management",* *"ParentCodeArray": ["XF-15431",* *"XF-15432"],* *"ID":"2002",* *"Code":"XF-15432",* *"Email":"testing@email.com",* *"PhoneNo": "031236124",* *"FaxNo": "031236121", "Address":* *"iTech 02-08,Cyberjaya",* *"CountryCode": "MY",* *"CurrencySymbol": "RM" }*	Obj		

- JSONOrgStructureInfo:

Param	Description	Data Type	Size	Remark
ParentID	Parent ID	Bigint	20	At least one of the parameters is required if you want to add/update the Organization Structure. If two of the parameters are provided, this function will assign Organization Structure under ParentID and ignore ParentCode and ParentCodeArray. The values for ParentCodeArray must be arranged in a predefined sequence starting with the first level of Organization Structure. E.g. [“0”, “1001”, “1002”, “1003”, “1004”, “1005”]
ParentCodeArray	Parent Code (Parent Company Registration No.)	Array of Varchar	Ex. [“1001”, “1002”, “1003”, “1004”, “1005”]	

ID	ID	Bigint	20	At least one of the parameters is required
Code	Code (Company Registration No.)	Varchar	50	
Division	Division name	Varchar	250	Optional
Email	Division Email	Varchar	60	
PhoneNo	Division Phone No	Varchar	40	
FaxNo	Division Fax No	Varchar	50	
CountryCode	Division Country Code	Varchar	2	
CurrencySymbol	Division Currency Symbol	Enum	*https://www.fingertec.com/developerprogram/usermanual/CurrencySymbol.xlsx*	

- Return:

Type	**Possible variable**	**Description**	**Possible value**
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter
Result	Status		Success, Fail

- Sample return message:

i. Success

```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success"
```

```
 }
}
```

ii. Fail

```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail"
 }
}
```

DeleteOrgStructure

- Description: Delete organization structure records
- Param: CompanyID, ID
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
ID	Division ID	Bigint	20	

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter
Result	Status		Success, Fail

- Sample return message:

i. Success

```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success"
```

```
 }
}
```

ii. Fail

```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail"
 }
}
```

DeleteOrgStructure2

- Description: Delete organization structure records
- Param: CompanyID, JSONOrgStructureInfo
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
JSONOrgStructureInfo	Input to be serialized into JSON. Sample: *{ "ID":"2002", "Code":"XF-15432" }*	Obj		

- JSONOrgStructureInfo:

Param	Description	Data Type	Size	Remark
ID	ID	Bigint	20	At least one of the parameters is required
Code	Code (Company Registration No.)	Varchar	50	

- Return:

Type	Possible variable	Description	Possible value

Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter
Result	Status		Success, Fail

- Sample return message:
  i. Success

```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success"
 }
}
```

  ii. Fail

```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail"
 }
}
```

AssignOrgStructure

- Description: Reallocate organization structure
- Param: CompanyID, JSONOrgStructureInfo
- Param Description:

Param	Description	Data Type	Size	Remark
CompanyID	Company ID	Varchar	10	Required
JSONOrgStructureInfo	Input to be serialized into JSON. Sample: *Sample:* *{* *"ParentID":"2002",* *"ID": "22",* *"ParentCode":"XF-15431",* *"OriginalParentCodeArray": ["XF-15434", "XF-15433"],* *"ParentCodeArray": ["XF-15431", "XF-15433"],* *"Code":"XF-15432"*	Obj		

	}			

- JSONOrgStructureInfo:

Param	Description	Data Type	Size	Remark
ParentID	Parent ID	Bigint	20	At least one of the parameters is required if you want to add/update the Organization Structure. If three of the parameters are provided, this function will assign Organization Structure under ParentID and ignore ParentCode and ParentCodeArray. The values for ParentCodeArray must be arranged in a predefined sequence starting with the first level of Organization Structure. E.g. [“0”, “1001”, “1002”, “1003”, “1004”, “1005”]
ParentCode	Parent Code (Parent Company Registration No.)	Varchar	50	
ParentCodeArray	Destinated Parent Code Array (Parent Company Registration No.)	Array of Varchar	Ex. [“1001”, “1002”, “1003”, “1004”, “1005”]	
ID	ID	Bigint	20	At least one of the parameters is required
Code	Code (Company required Registration No.)	Varchar	50	
OriginalParentCode Array	Original Parent Code Array (Parent Company Registration No.)	Varchar	"Ex. [“1001”, “1002”, “1003”, “1004”, “1005”]"	

- Return:

Type	Possible variable	Description	Possible value
Error Message	ErrorMessage	Return error message if there's error while execute this function	1. Invalid parameter
Result	Status		Success, Fail

- Sample return message:

i. Success


```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success"
 }
}
```


ii. Fail


```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail"
 }
}
```


WebServiceLogout

- Description: Logout from the session
- Parameters:

Param	Description	Data Type	Size	Remark
ST	Token returned from WebServiceLogin function	String	Varchar (20)	Required

- Return:

Type	Possible variable	Description	Possible value

Error Message	ErrorMessage	Return error message if there's error while execute this function	
Result	Status		Success, Fail

- Sample return message

i. Success

```
{
 "ErrorMessage":"",
 "Result":{
  "Status":"Success"
 }
}
```

ii. Fail

```
{
 "ErrorMessage":"Invalid parameter",
 "Result":{
  "Status":"Fail"
 }
}
```

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