All methods are of

* Type POST requests
* Header content-type: application/json

1. **Login**

[/Requests/api/workflow/login](http://41.153.28.231:8080/Requests/api/workflow/login)

{

imei:356373081353063

}

This method will return the employee info used in sign in/out

"Response": {

"restStatus": null,

"id": 6,

"firstName": "الحسن عبد الله مصطفى",

"lastName": "الحسن عبد الله مصطفى",

"empCode": "00000006",

"department": null,

"jobTitle": "general",

"address": null,

"city": null,

"tel": null,

"ext": null,

"email": "a@b.c",

"isDepartmentManager": null,

"isManager": null,

"gender": null,

"employeeCode": null,

"attendanceCode": null,

"branch": null,

"requiredAndroidVersion": 8

}

1. **CheckAttendance**

/Requests/api/workflow/checkAttendance

No input parameters needed

"Response": {

"signIn": true,

"signInTime": 1594103656000,

"signOut": false,

"signOutTime": null

}

This method gets the sign in/out info for the logged in employee on the current date.

1. **GetSettings**

Requests/api/workflow/getSettings

No input parameters needed

"Response": {

"requiredAndroidVersion": 8,

"errandTimeFromSystem": true,

"showVacationBalance": true,

"obligateNotes": true,

"showAddressOnForm": true,

"locationAccuracy": 500,

"locationAccuracy2": 2000,

"showRequestsOnCalendar": true,

"companyName": "4s",

"isLocationAccuracyEnabled": true

}

This method returns the application persisted configuration.

1. **Sign in/out**

[/Requests/api/workflow/signInOut](http://41.153.28.231:8080/Requests/api/workflow/signInOut)

{  
    "attendanceType":1,  
    "latitude":30.0519712,  
    "longitude":31.1933566  
}

This method depends on the system clock for sign in/out time.

attendanceType = 1 for sign in

= 2 for sign out

Taking into consideration that no sign out is allowed without a sign in on the same day. Also attendance can’t overlap with a full day errand. Moreover employees are not allowed to sign in, if they forgot to sign out in the most recent sign in date.

1. **Permissions, errands and vacations**

[/Requests/api/workflow/userRequest](http://41.153.28.231:8080/Requests/api/workflow/userRequest)

The following JSON is an example for the post request body:

{  
    "attendanceType":6,  
    "attendanceTime":"2019-2-11 14:30:55",  
    "latitude":30.0519712,  
 "longitude":31.1933566,  
    "notes": "testing",

}

**attendanceType** parameter values:

3. Permission Start

4. Permission End

5. Errand Start

6. Errand End

7. Special vacation

8. Periodic vacation

**permissionType** (0: Special 1:Errand 2:Normal)  
**permissionEffect**  (0: Without Effect 1: Delay 2: Early Dismissal)

Example of special vacation JSON Request

{  
    "attendanceType":7,  
    "vacation":"001",  
    "attendanceTime":"2019-2-20 18:30:55",  
    "attendanceTime2":"2019-2-25 18:30:55",  
    "latitude":30.0519712,  
    "longitude":31.1933566,  
    "notes": "testing"  
}

Example of periodic vacation JSON Request

1. **Vacation Types**

/Requests/api/workflow/vacTypes

**requestType:** input parameter is needed.

1: for special vacation

2: for periodic (annual) vacation

"Response": [

{

"vacation": "003",

"name": "اجازة مرضيه",

"ename": " ",

"id": null,

"entityDisplayName": "Vacation addition"

},

{

"vacation": "888",

"name": "راحة وردية موقع",

"ename": "Site Period vac",

"id": null,

"entityDisplayName": "Vacation addition"

}

]

vacTypes returns a list of vacation types with identity field "vacation" used in the previous json request.

1. **Submitted Requests**

/Requests/api/workflow/submittedRequests

Used to retrieve submitted requests for the logged in user

The following JSON is an example for the post request body:

{  
    "requestNumber":null,   
    "dateFrom":"01/02/2019",  
    "dateTo":"01/03/2019",  
    "exactDateFrom":null,  
    "exactDateTo":null,   
    "requestType":"1",  
    "statusId":null

"sort":"desc",

"pageNumber":1,

"pageSize":10  
}

**requestNumber:** is the number given by the back end to any created request.

**dateFrom** and **dateTo:** is the date interval to query from the request entry date

**exactDateFrom** and **exactDateTo:** is the date interval to query from the exact date on which the request took place.

**requestType**: 1:Special Vacations 2:Periodic Vacations 3:Permissions 4:Special&Periodic Vacations 5:Sign in/out

**statusId:** is the request approval status (0: Not yet approved, 1:Approved, 99:Rejected)

**sort:** to sort results by date (asc, desc)

**pageNumber and pageSize** are used for paging purposes.

1. **Requests waiting approval**

[/Requests/api/workflow/requestsForApproval](http://41.153.28.231:8080/Requests/api/workflow/requestsForApproval)

The following JSON is an example for the post request body:

{  
    "requestNumber":null,   
    "emp\_code":null,  
    "dateFrom":"01/02/2019",  
    "dateTo":"01/03/2019",  
    "exactDateFrom":null,  
    "exactDateTo":null,   
    "requestType":"1",  
    "codeFrom":null,   
    "codeTo":null,  
    "statusId":null,

"sort":"desc",

"isInsideCompany":1,

"pageNumber":1,

"pageSize":10  
}

**requestNumber:** is the number given by the back end to any created request.

**emp\_code:** is the employee code.

**dateFrom and dateTo:** is the date interval to query from the request entry date

**exactDateFrom and exactDateTo:** is the date interval to query from the exact date on which the request took place.

**codeFrom and codeTo:** is the range of employee codes.

**requestType**: 1:Special Vacations 2:Periodic Vacations 3:Permissions 4:Special&Periodic Vacations 5:Sign in/out

**statusId:** is the request approval status (0: Not yet approved, 1:Approved, 99:Rejected)

**sort:** to sort results by date (asc, desc)

**pageNumber and pageSize** are used for paging purposes.

1. **Approve request**

[/Requests/api/workflow/approveRequest](http://localhost:080/Requests/api/workflow/approveRequest)

The following JSON is an example for the post request body:

{  
    "requestId":"21824",  
    "approve":1,  
    "notes":"testing approval"  
}

1. **Vacation limit, credit and consumption**

[/](http://localhost:080/Requests/api/workflow/approveRequest)Requests/api/workflow/vacInfo

VacInfo method is used to get the employee's vacations credit, limit and consumed. To be displayed in the approval form.

The following JSON is an example for the post request body:

{  
    "requestId":"22919"  
 }

OR

{

"vac":"001",  
 "empCode":"23174",  
 "fromDate":"23/05/2019",

}

1. **Check Started Requests**

[/Requests/api/workflow/checkStartedRequests](http://41.153.28.231:8080/Requests/api/workflow/checkStartedRequests)

checkStartedRequests method is used to get errands or permissions that wasn’t terminated.

The following JSON is an example for the post request body:

{  
dateFrom:1/04/2019

dateTo:28/05/2019

requestType:1

}

dateFrom and dateTo are not mandatory

requestType values

**1: Permissions**

**2: Errands**

1. **getAttendanceVacationReport**

/api/workflow/getAttendanceVacationReport

**emp\_code:**00000006

**dateFrom:**01/05/2020

**dateTo:**21/05/2020

Returns for a specific employee all the attended days with sign in & out times, total attended time for each day, all vacations for the specified period of time. And the total duration attended for the specified period of time.

1. **getAttendanceReport**

/Requests/api/workflow/getAttendanceReport

**emp\_code:**00000006

**dateFrom:**24/06/2020

**dateTo:**27/06/2020

**statusId:**1

**codeFrom:**00000001

**codeTo:**00000016

Either emp\_code or (codeFrom & codeTo) is entered or all can be null

Emp\_code can be for multiple empCodes for different employees (comma separated)

1. **SearchEmployee**

/Requests/api/workflow/searchEmployees

**empCode:**6

**pageNumber:**0

**pageSize:**10

**empName:**

Gets employees either by code or name or both

1. **getPortNo**

/Requests/api/workflow/getPortNo

**clientName:**alfa

Gets the port of the server for a specific client

1. **getUserGroup**

/Requests/api/workflow/getUserGroups

No input parameters needed

**Methods Response**

"Status": {

"status": "True",

"message": "Request Success",

"code": "200"

},

"Results": [

{

"groupId": 165,

"groupName": "63"

}

groupId: is the ID of the group

groupName: is the name to be displayed in the drop down menu

Empty results array means that the employee is not manager for any group

1. **getEmployeesByGroup**

/Requests/api/workflow/getEmployeesByGroup

Input parameter

groupId: ID of the selected group

**Methods Response**

"Status": {

"status": "True",

"message": "Request Success",

"code": "200"

},

"Results": [

{

"id": 1,

"empCode": "00000001",

"name": "محمد جمال السعيد"

},

{

"id": 6,

"empCode": "00000006",

"name": "الحسن عبد الله مصطفى"

},

Id: employee id

empCode: empCode string used for querying attendance report

name: employee name

1. **Logout**

/Requests/api/workflow/logout

**Methods Response**

The response code is 200 on success and the following on failure

300 (No requests started found on the specified date)

301 (Too many requests started on the specified date)

302 (The Request started on the specified date has already been ended)

303 (Null/Empty input parameter)

304 (Empty Search Criteria)

305: One or more of permission parameters is null (permission type and effect)

306: Request not found

307: Invalid request approval status

308: The logged in employee isn't privileged to approve this type of requests.

309: Request approvals had been finished

310: Request had already been rejected

311: A request started on the requested date hasn't been ended yet.

312: Date is not well formated

313: To date is before from date

314: Page Size Value Can’t be ZERO

315: Another Request is already started for the logged in user

316: Invalid email format

317: Invalid mobile no

321: The specified time interval is overlapping with one of your requests

322: User signed in already on the specified date, full day errand is not allowed

323: Please sign out first before starting new request

324: Sign out time is after the request start time

325: User signed In Before and didn’t sign out

326: User didn’t sign In yet

327: Sign out date is before sign in date

328: Please finish your started requests

329: full day errand on this day

330: Finish started Request First

331: A sign in request is already started

340: Successful Authorization with wrong IMEI

341: IMEI is already registered for another user

401: Unauthorized Access

403: Access Denied