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***HCM web api specification***

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# Introduction

This document describes the api methods offered by Human Capital Management (HCM). The main objective behind the development of HCM is to centralize the employee management such as employee profile, expenses management, assignments, and leave management. Through HCM api employee data can be access in the other applications. HCM service provide state of art api methods that help to get employee data by computer code / id, etc

In later sections, there is comprehensive details available about the APIs, such as how to send request and what will get as response. In this documents DTOs schema also provided to mapped the API response to make more descriptive and meaningful for consumer.

There is some consideration while using HCM APIs.

* Create DTOs and Enumerators to map the response from API (optional)

# Services

|  |  |
| --- | --- |
| **Service Ref #** |  |
| **Service Name** | **api/Employees/GetByEmployeeCodeNo/{EmployeeCodeNo}** |
| **Description** | **Get employee data by employee code no** |
| **ActionVerb** | **[HttpGet]** |
| **Input Parameters** | |  |  |  | | --- | --- | --- | | EmployeeCodeNo | string | رقم كمبيوتر الموظف | |
| **Output Parameters** | **NA** |
| **Return** | |  |  |  | | --- | --- | --- | | **Name** | **Type** | **Description** | | NA | HttpResponseMessage:   * HttpResponseMessageResult * EmployeesCodes |  | |
| **Service Ref #** |  |
| **Service Name** | **api/Employees/GetByEmployeeCodeID/{EmployeeCodeID}** |
| **Description** | **Get employee data by EmployeeCodeID** |
| **ActionVerb** | **[HttpGet]** |
| **Input Parameters** | |  |  |  | | --- | --- | --- | | **Name** | **Type** | **Description** | | EmployeeCodeID | int |  | |
| **Output Parameters** | **NA** |
| **Return** | |  |  |  | | --- | --- | --- | | **Name** | **Type** | **Description** | | NA | HttpResponseMessage:   * HttpResponseMessageResult * EmployeesCodes |  | |
| **Service Ref #** |  |
| **Service Name** | **api/OrganizationStructure/Get** |
| **Description** | **Get list of Organization Structure** |
| **Input Parameters** | |  |  |  | | --- | --- | --- | | **Name** | **Type** | **Description** | | NA | NA |  | |
| **Output Parameters** | **NA** |
| **Return** | |  |  |  | | --- | --- | --- | | **Name** | **Type** | **Description** | | NA | HttpResponseMessage:   * HttpResponseMessageResult * List<OrganizationStructure**>** | يتم استرجاع قائمة بالهيكل التنظيمي كاملا (رئيس المؤسسة - إدارة عامة – إدارة فرعية – قسم( | |
| **Service Ref #** |  |
| **Service Name** | **api/OrganizationStructure/GetByOrganizationStructureID/{OrganizationStructureID}** |
| **Description** | **Get Organization Structure by id** |
| **ActionVerb** | **[HttpGet]** |
| **Input Parameters** | |  |  |  | | --- | --- | --- | | **Name** | **Type** | **Description** | | **OrganizationStructureID** | int |  | |
| **Output Parameters** | **NA** |
| **Return** | |  |  |  | | --- | --- | --- | | **Name** | **Type** | **Description** | | NA | HttpResponseMessage:   * HttpResponseMessageResult * OrganizationsStructures | يتم استرجاع الهيكل التنظيمي عن طريق الرقم التعريفي | |
| **Service Ref #** |  |
| **Service Name** | **api/Employees/GetByOrganizationID/{OrganizationID}** |
| **Description** | **Get employees data by Organization ID** |
| **ActionVerb** | **[HttpGet]** |
| **Input Parameters** | |  |  |  | | --- | --- | --- | | OrganizationID | Int |  | |
| **Output Parameters** | **NA** |
| **Return** | |  |  |  | | --- | --- | --- | | **Name** | **Type** | **Description** | | NA | HttpResponseMessage:   * HttpResponseMessageResult * List<EmployeesCodes> |  | |
| **Service Ref #** |  |
| **Service Name** | **api/Employees/EditEmployeeMobileNo/{EmployeeCodeNo}/{MobileNo}** |
| **Description** | **Edit employees Mobile no by EmployeeCodeNo** |
| **ActionVerb** | **[HttpPost]** |
| **Input Parameters** | |  |  |  | | --- | --- | --- | | EmployeeCodeNo | string | رقم كمبيوتر الموظف | | MobileNo | string | رقم المحمول الجديد | |
| **Output Parameters** | **NA** |
| **Return** | |  |  |  | | --- | --- | --- | | **Name** | **Type** | **Description** | | NA | HttpResponseMessage:   * HttpResponseMessageResult * Result : * (HttpStatusCode.OK, "Employee mobile no has been updated successfully) * HttpStatusCode.BadRequest, "Employee is not exist" * HttpStatusCode.BadRequest, "Mobile No is not valid" |  | |
| **Service Ref #** |  |
| **Service Name** | **api/Employees/GetEmployeeImageByEmployeeCodeNo/{EmployeeCodeNo}** |
| **Description** | **Get Image of employee by employee code no** |
| **ActionVerb** | **[HttpGet]** |
| **Input Parameters** | |  |  |  | | --- | --- | --- | | EmployeeCodeNo | string | رقم كمبيوتر الموظف | |
| **Output Parameters** | **NA** |
| **Return** | |  |  |  | | --- | --- | --- | | **Name** | **Type** | **Description** | | NA | Stream |  | |

# Appendix

## Data Types

|  |  |  |
| --- | --- | --- |
| ***Employees*** | | |
| **Property Name** | **Property Data Type** | **Description** |
| EmployeeID | int |  |
| EmployeeIDNo | string | رقم الهوية الوطنية |
| EmployeeNameAr | string | اسم الموظف - عربي |
| EmployeeNameEn | string | اسم الموظف - انجليزي |
| EmployeeMobileNo | string | رقبم المحمول |

|  |  |  |
| --- | --- | --- |
| ***EmployeesCodes*** | | |
| **Property Name** | **Property Data Type** | **Description** |
| Employee | Employees | البيانات الشخصية |
| EmployeeCodeID | int |  |
| EmployeeCodeNo | string | رقم كمبيوتر الموظف |
| EmployeeCurrentJob | EmployeesCareersHistory | الوظيفة الحالية |
| EmployeeCurrentQualification | string | المؤهل الحالي |
| EmployeeType | EmployeeTypeEnum | نوع الموظف |

|  |  |  |
| --- | --- | --- |
| ***EmployeesCareersHistory*** | | |
| **Property Name** | **Property Data Type** | **Description** |
| OrganizationJob | OrganizationsJobs | بيانات الوظيفة |
| CareerDegreeID | int | الدرجة |
| JoinDate | date | تاريخ المباشرة |

|  |  |  |
| --- | --- | --- |
| ***OrganizationsJobs*** | | |
| **Property Name** | **Property Data Type** | **Description** |
| Job | Jobs | البيانات الرئيسية للوظيفة |
| Rank | Ranks | بيانات المرتبة / الرتبة المسندة للوظيفة |
| OrganizationStructure | OrganizationsStructures | بيانات الإدارة المسندة للوظيفة |

|  |  |  |
| --- | --- | --- |
| ***Jobs*** | | |
| **Property Name** | **Property Data Type** | **Description** |
| JobID | int |  |
| JobName | string | مسمى الوظيفة |

|  |  |  |
| --- | --- | --- |
| ***Ranks*** | | |
| **Property Name** | **Property Data Type** | **Description** |
| RankID | int |  |
| RankName | string | مسمى المرتبة / الرتبة |

|  |  |  |
| --- | --- | --- |
| ***OrganizationsStructures*** | | |
| **Property Name** | **Property Data Type** | **Description** |
| OrganizationID | int |  |
| OrganizationName | string | مسمى الإدارة / القسم / المصنع |
| ParentOrganization | OrganizationsStructures | بيانات الإدارة الأم |
| OraganizationManager | EmployeesCodes | بيانات مدير الإدارة / القسم / المصنع |

## Enumerators

|  |
| --- |
| ***EmployeesTypesEnum*** |
| Enumerator with the following values:   1. Civil. 2. Military. |