



# Human Resource Application

## Objective



This document outlines the development of a Human Resource Application for [Organization Name]. The HR application is designed to streamline the recruitment process, facilitate efficient employee department mapping with specified salary scales, and support employee mobility between departments in response to organizational demands. Furthermore, the system will maintain a comprehensive record of employees' professional experiences through a dedicated Job History feature.

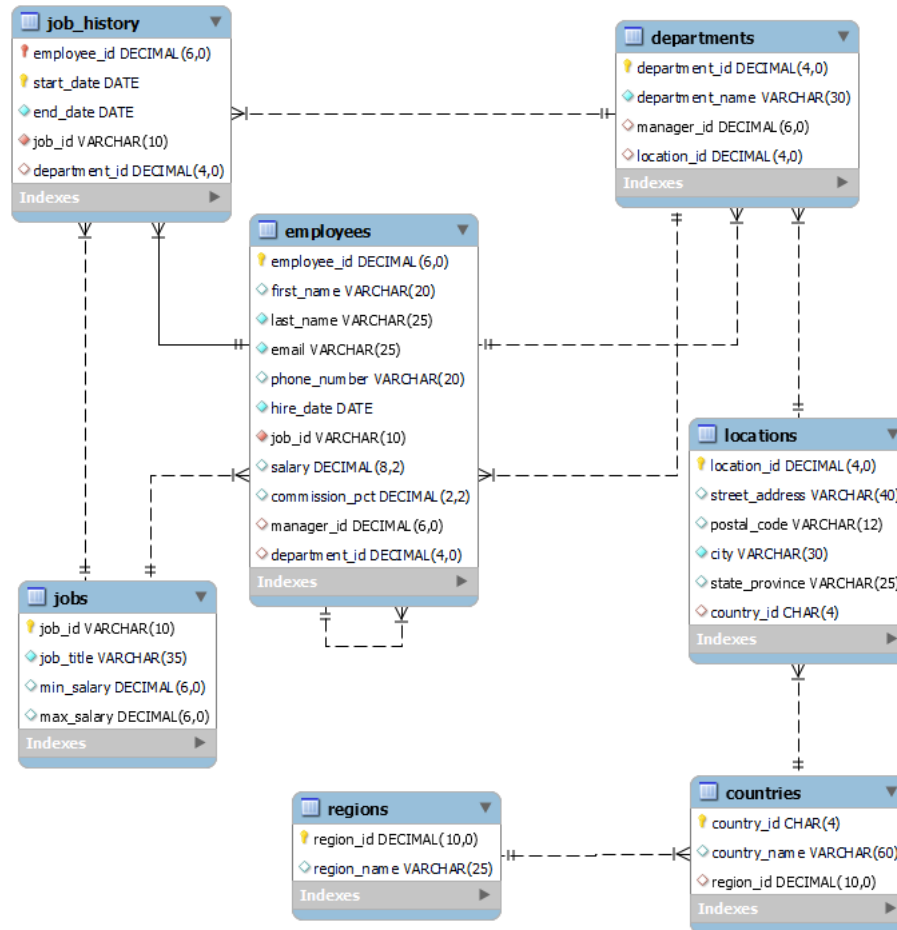
## Design Guidelines

1. All Rest API request and response format must be in JSON.
2. 200, 201, 400, 404, 401, 500, 505 – use appropriate http status code in your response object.
3. Handle the Rest exceptions globally using Rest exception handler for all endpoints.
4. Sample Error Responses are shown in below table, participants to identify error paths for all the Endpoints.
5. Test your Rest Api using Junit and Mockito.
6. You should not alter database schema under any circumstances except wherever changes are mentioned explicitly.
7. All PUT and POST requests are secured.

## Database Schema

▼ ER Diagram

HR.mwb



#### ▼ MySQL Script Files




[create table.sql](#)

[insert data.sql](#)

## REST API Endpoints




### Endpoints

#### Endpoints (1)

 Path URL	 HTTP Methods	 Description
<a href="#">/api/v1/job</a>	POST	<a href="#">Add new Job</a>

🔗 Path URL	📡 HTTP Methods	📝 Description
<a href="#">/api/v1/job</a>	PUT	<a href="#">Modify Job</a>
<a href="#">/api/v1/job/{minsalary}/{maxsalary}</a>	PUT	<a href="#">Update min and max salary if any changes</a>
<a href="#">/api/v1/job</a>	GET	<a href="#">Get All Jobs</a>
<a href="#">/api/v1/job/{job_id}</a>	DELETE	<a href="#">Delete Job by Job Id</a>
<a href="#">/api/v1/country</a>	GET	<a href="#">List all Country</a>
<a href="#">/api/v1/country/{country_id}</a>	GET	<a href="#">Search Country by Id</a>
<a href="#">/api/v1/country</a>	POST	<a href="#">Add new country</a>
<a href="#">/api/v1/country</a>	PUT	<a href="#">Modify the country</a>
<a href="#">/api/v1/country/{country_id}</a>	DELETE	<a href="#">Delete country by Id</a>
<a href="#">/api/v1/employees/findfname/{firstname}</a>	GET	<a href="#">findByFirstName</a>
<a href="#">/api/v1/employees/findemail/{email}</a>	GET	<a href="#">findByEmail</a>
<a href="#">/api/v1/employees/findphone/{phone}</a>	GET	<a href="#">findByPhoneNumber</a>
<a href="#">/api/v1/employees/findAllEmployeeWithNoCommission</a>	GET	<a href="#">findAllEmployeeWithNoCommission</a>
<a href="#">/api/v1/employees/findTotalCommissionIssuedToEmployee/{department_id}</a>	GET	<a href="#">findTotalCommissionIssuedToEmployeeByDepartment</a>
<a href="#">/api/v1/employees/listAllEmployees/{department_id}</a>	GET	<a href="#">listAllEmployeesByDepartment</a>
<a href="#">/api/v1/employees/employees_departmentwise_count</a>	GET	<a href="#">countAllEmployeesGroupByDepartment</a>
<a href="#">/api/v1/employees/listallmanagerdetails</a>	GET	<a href="#">listAllManagerDetails</a>
<a href="#">/api/v1/employees/locationwisecountofemployees</a>	GET	<a href="#">countAllEmployeesGroupByLocation</a>
<a href="#">/api/v1/employees/{empid}/findmaxsalaryofjob</a>	GET	<a href="#">findMaxSalaryOfJobByEmployeeId</a>
<a href="#">/api/v1/employees/findAllOpenPositions</a>	GET	<a href="#">find All Open Positions which was not filled</a>

🔗 Path URL	📡 HTTP Methods	📝 Description
<a href="#">/api/v1/employees/findAllOpenPositions/{department_id}</a>	GET	<a href="#">Find All Open Positions which was not filled in a particular department.</a>
<a href="#">/api/v1/employees/listallemployeebyhiredate/{from_hiredate}/{to_hiredate}</a>	GET	<a href="#">List All employee hired on particular date range.</a>
<a href="#">/api/v1/employees</a>	POST	<a href="#">Add new Employee</a>
<a href="#">/api/v1/employees</a>	PUT	<a href="#">Modify Employee</a>
<a href="#">/api/v1/employees/{job_id}</a>	PUT	<a href="#">Assign employees job using JOB ID</a>
<a href="#">/api/v1/employees/{manager_id}</a>	PUT	<a href="#">Assign employee's manager.</a>
<a href="#">/api/v1/employees/{department_id}</a>	PUT	<a href="#">Assign employee's department</a>
<a href="#">/api/v1/employees/{department_id}/{sales_percentage}</a>	PUT	<a href="#">Assign employee's department and update the percentage for sales department employees</a>
<a href="#">/api/v1/employees/{email}</a>	PUT	<a href="#">update employee email</a>
<a href="#">/api/v1/employees/{phonenumber}</a>	PUT	<a href="#">Update employee phone number</a>
<a href="#">/api/v1/employees/{emp_id}</a>	DELETE	<a href="#">Delete by employee Id</a>
<a href="#">/api/v1/region</a>	GET	<a href="#">List All Region</a>
<a href="#">/api/v1/region/{region_id}</a>	GET	<a href="#">Search Region by Id</a>
<a href="#">/api/v1/region</a>	POST	<a href="#">Add new Region</a>
<a href="#">/api/v1/region</a>	PUT	<a href="#">Modify the Region</a>
<a href="#">/api/v1/region/{region_id}</a>	DELETE	<a href="#">Delete Region by region Id</a>

 Path URL	 HTTP Methods	 Description
<a href="#">/api/v1/location</a>	GET	<a href="#">List All Location</a>
<a href="#">/api/v1/location/{location_id}</a>	GET	<a href="#">Search Location by Id</a>
<a href="#">/api/v1/location</a>	POST	<a href="#">Add new Location</a>
<a href="#">/api/v1/location</a>	PUT	<a href="#">Modify the Location</a>
<a href="#">/api/v1/location/{location_id}</a>	DELETE	<a href="#">Delete Location by location Id</a>
<a href="#">/api/v1/department</a>	POST	<a href="#">Add new Department</a>
<a href="#">/api/v1/department</a>	PUT	<a href="#">Modify Department</a>
<a href="#">/api/v1/department/findmaxsalary/{department_id}</a>	GET	<a href="#">Employee max salary in the department</a>
<a href="#">/api/v1/department/findminsalary/{department_id}</a>	GET	<a href="#">Employee min salary in the department</a>
<a href="#">Untitled</a>	GET	
<a href="#">api/v1/departments/{department_id}</a>	DELETE	<a href="#">Delete Department by department Id</a>
<a href="#">/api/v1/job_history/totalyearsofexperience/{emp_id}</a>	GET	<a href="#">findExperienceOfEmployee</a>
<a href="#">/api/v1/job_history/lessthanoneyearexperience</a>	GET	<a href="#">listAllEmployeesWithLessThanOneYearExperience</a>
<a href="#">/api/v1/job_history/{empid}/{startdate}/{job_id}/{department_id}</a>	POST	<a href="#">Add entry in job history, if employee moves from one department to another with same or different Job Title. Also when new employees added add job history.</a>
<a href="#">/api/v1/job_history/{empid}/{enddate}</a>	PUT	<a href="#">Job History Modified</a>