Web services project

Employee Management System

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1.Description of the domain

The Employee Management System is used to manage the information about employees in a typical organization, including the personal profile, department, reporting line, professional title, and payment information of the employees. The expected users are Human Resource, IT or any utility functions. The users can search entries, add new entries, update or delete existing entries. The system contains 5 tables – employee, department, manager, title and salary.

2.Description of the web API

**APIs of Employee Table:**

* POST: to add a new employee entry or update information of one existing employee
* GET: to get information of all employees
* GET: to get information of one employee by id
* DELETE: to delete one employee entry by id

**APIs of Department Table**

* POST: to add a new department entry or update information of one existing department
* GET: to get information of all departments
* GET: to get information of one department by department id
* DELETE: to delete one department entry by department id

**APIs of Manager Table**

* POST: to add a new manager entry or update information of one existing manager
* GET: to get information of all managers
* GET: to get information of one manager by manager id
* DELETE: to delete one manager entry by manager id

**APIs of Title Table**

* POST: to add a new title entry or update information of one existing title entry
* GET: to get information of all title entries
* GET: to get information of one title by title
* DELETE: to delete one title entry by title

**APIs of Salary Table**

* POST: to add a new salary entry or update information of one existing salary entry
* GET: to get information of all salary entries
* GET: to get information of one salary by salary id
* DELETE: to delete one salary entry by salary id

3.List of routes and description

**Employee Routes:**

* @GetMapping("/employeeList")

For the user to get the list of all employees

* @GetMapping("/employee/{id}")

For the user to get infor of one employee

* @PostMapping("/employee/save")

For the user to add or update infor of one employee

* @DeleteMapping("/employee/delete/{id}")

For the user to delete one employee entry by employee id

**Department Routes:**

* @GetMapping("/departmentList")

For the user to get the list of all departments

* @GetMapping("/department/{id}")

For the user to get infor of one department

* @PostMapping("/department/save")

For the user to add or update infor of one department

* @DeleteMapping("/department/delete/{id}")

For the user to delete one department entry by department id

**Manager Routes:**

* @GetMapping("/managerList")

For the user to get the list of all managers

* @GetMapping("/manager/{id}")

For the user to get infor of one manager

* @PostMapping("/manager/save")

For the user to add or update infor of one manager

* @DeleteMapping("/manager/delete/{id}")

For the user to delete one manager entry by manager id

**Title Routes:**

* @GetMapping("/titleList")

For the user to get the list of all title entries

* @GetMapping("/title/{id}")

For the user to get infor of one title entry

* @PostMapping("/title/save")

For the user to add or update infor of one title entry

* @DeleteMapping("/title/delete/{id}")

For the user to delete one title entry by title

**Salary Routes:**

* @GetMapping("/salaryList")

For the user to get the list of all salary entries

* @GetMapping("/salary/{id}")

For the user to get infor of one salary entry

* @PostMapping("/salary/save")

For the user to add or update infor of one salary entry

* @DeleteMapping("/salary/delete/{id}")

For the user to delete one salary entry by salary id

4.MOCKUP of the UI

Table

Description automatically generated

Graphical user interface

Description automatically generated

Description:

This is the UI for the five tables. It will show the entire lists of all five tables when the page gets loaded. There is a hyperlink for each table that you can add new entry in a pop-up window..

There are two buttons for each table- onclick edit and delete, using which you can update or delete one entry,

5.Diagram and Schema of the database

Diagram

Description automatically generated

Graphical user interface, text

Description automatically generated

Table

Description automatically generated

Graphical user interface, text

Description automatically generated

Text, table

Description automatically generated with medium confidence

Table

Description automatically generated