
Employee Management Portal

OVERVIEW

The Employee Management System is an online portal designed to efficiently manage our employees. It facilitates tracking employees assigned to various projects, identifying those currently not assigned to any project, and determining the respective managers for each employee.

3 Task

FUNCTIONAL REQUIREMENTS

There will be three types of users: admin, employee and manager.

[All must Have Email] All the types of users should have a valid email address which belongs to the organization.

[M : ~1 , E : 1] Managers can have multiple projects, but an employee should be tagged to one project only.

- **Admin:**

Admin will have comprehensive access to the system's functionalities.

[INSERT : SQL] Admin will be able to add new employees/ managers and new projects to the system.

[SELECT : SQL] Admin will be able to view all the employees and projects.

[UPDATE : SQL] Admin can assign/ unassign projects to employees.

[UPDATE : SQL] Admin can approve/ reject managers' requests for a resource.

[DELETE : SQL] Admin can delete an employee.

[UPDATE : SQL] Admin can update employee details.

- **Employee:**

Employees will have limited access to the system's functionalities.

[UPDATE : SQL] Employees can update new skills.

[SELECT : SQL] Employees can view his information like in which Project he is tagged, who is manager, etc.

[SELECT : SQL] Employees can view all the employees(managers also) after login.

- **Manager (Admin Subtype):**

[SELECT : SQL] Managers will be able to view all the employees, managers and projects.

[SELECT : WHERE : SQL] Managers should be able to filter the employee by skills and unassigned employees.

[???] Managers can request an admin for (unassigned) employees based on skills for his/ her project.

[???] Managers can request multiple employees for a project.

SPECIFICATIONS

- A UI to be developed using HTML, CSS, JS.
- REST API to be developed in Python
- Any open-source database can be used. Preferably PostgreSQL or MySQL.
- Target of minimum 85% code coverage through unit test.
- Application logs must be generated. [LOGGING MODULE IN PYTHON]