

Employee Management System

Course: Software Engineering

Group Members:

Khawaja Abdullah (20k-0385)

Sohaib Ashraf (20k-0488)

M. Shahzaib (20k-1067)

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Employees are the backbone of any company therefore their management plays a major role in deciding the success of the organization. We have prepared the web app for a company named **Cloudways** to manage the employees, department, attendance, projects, meetings scheduled etc. from one platform alone.

Our software will be accessed only by the employees or the admin of the software. All the forms in our application have validation so we do not get inconsistent data in our database and avoid anomalies.

1. Project Requirements

1.1 Functional Requirements

Employees can Check-in:

Employees can login and mark their attendance. They can only do this once otherwise they will get a warning that they have already checked in today. They can also filter their attendance for specific dates and check how many times they were late.

Employees can request for leaves:

Employees can apply for leave by giving reason, details and date of their leave which admin can see and approve. They can also track their leaves status that whether it is approved or not.

Manager of a department can assign project:

If employee is a manager of any department, he can also assign project to only employees of his department and can track their assigned projects.

Add new employees:

Admin can add new employee and give email password to the employee. Employee can then update his profile or change password.

Delete employees:

Delete can delete employees who have left the job. The deleted employee record will also be saved in our database

Add new department:

Admin can add new department and assign manager to the department

Filter and check attendance:

Admin can check attendance of an employee by searching his name and in a specific range date

Schedule training sessions and meetings:

Admin can schedule meeting and training sessions of an specific employee by filling the details which will be showed on that employee's dashboard.

Apply for leave:

Employees can request for leave while the admin will review the leave and accept or reject the request.

Give appraisal

Manager of a department can give appraisals to employee of his department.

Manage salaries

Admin can filter salaries of employees by filtering by department and also check number of employees in a department.

1.2. Non Functional Requirement

Performance Requirements

Performance wise, our app is built to be very responsive and fast. Transitions between the interfaces takes very minute time . The system is also storage friendly as it hardly takes around 29 MBS.

The system is absolutely safe as we are using hashed passwords to save data. Only admin can access the admin dashboard

Safety Requirements

The system is very safe as we are using hashed passwords to save data. Only thing user should take care is the entry of fake/dummy data. Dummy data must be deleted from database

Security Requirements

External users must not be given access to admin dashboard. Our login system ensures this. The data of user stays safe and untouchable. So privacy is maintained.

2. IDE/Tools/Language

The system is made on a php framework Laravel which follows MVC design pattern.

the application logic, or controller, is separated from the technology used to display information to the user, or the view layer. The model is a communications vehicle between the controller and view layers. IDE used in Visual Studio Code.

We also need xampp to have local host to run this project

Applications:

- Visual studio code(IDE)
- Xampp
- Php my admin on local host for Mysql

3. Task Distribution

Group member 1 M. Shahzaib handled all the tasks related to front end. He created front end using html,css and bootstrap. Form validations and alert messages were also added.

Group member 2 Khawaja Abdullah managed the backend of the application. He used Php's framework Laravel to create backend logic in the controllers.

Group member 3 Sohaib Ashraf managed the integration of database with the backend code. He designed the database with all the constraints. Backend logic was created while interacting with the database so all the data is safe and secured.

4. Gantt chart

