Employee Management System Project

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ABSTRACT

Employee management system is an application-based system, having two users to apply in, one for admin to manage employee details, and the other one for the employees to mark their attendance and control their clocking.

INTODUCTON:

1.1 project description

Employee Management System is an application, developed to maintain the details of employees working in any organization. It maintains the information about the personal details of their employees, also the details about their vacations and off days. The application is actually developed using Laravel.

This software package has been developed using the powerful coding tools of HTML, CSS and bootstrap at Front End and MySQL Server at Back End and also the Laravel framework. The software is very user friendly. The package contains different modules like Employee details, Time off balance module, Clocking module. This version of the software has multi-user approach. For further enhancement or development of the package, feedback will be considered.

1.2 Objective of the project

In this world of growing technologies everything has been computerized. With large number of works opportunities, the Human workforce has increased. Thus, there is a need of a system which can handle the data of such a large number of Employees in an organization. This project simplifies the task of maintain records because of its user-friendly nature.

SYSTEM ANALYSIS:

2.1 System Requitements

2.1.1 Functional Requirements

The admin can log in into his dashboard which display two tables one for the users, so he can see the users' details and can make operations on them like add, edit and delete users, the second table is for the leave types to display the details of the leave types and also can make the add, edit and delete operations on it.

In the side bar he can access the vacation section the show two tables, first one for the vacation types with details, and also can add, edit, delete them.

The second table show the vacation requests that applied by the users and the status of the request, so he can accept or reject them.

The final section for the admin is the off users which display one table for the users off days to show the users who are off.

And he can log out the system by clicking on the logout button.

The user can log in into his dashboard which display three tables, the first one to display his personal details, the second table is for the leave types to display the details of the leave types and the last table is for activities that display the activities has been done by the user.

In the dashboard there is a section called breaks, allow him as an employee to choose his leave type and determine the start and end for it.

In the vacation section in the side bar, he can show his total vacations allowed to him and the total vacation he had used.

And there is a table to show the vacation types and details about it.

Also, another table where he can apply for a vacation request and show him the status of his request.

The final section for the user is the off users, which display one table for the users off days to show the users who are off.

And he can log out the system by clicking on the logout button.

2.1.2 Non-Functional Requirements

Availability Requirement

The system is available 100% for the users and is used 24 hrs. a day and 365 days a year. The system shall be operational 24 hours a day and 7 days a week.

Efficiency Requirement

Mean Time to Repair (MTTR) - Even if the system fails, the system will be recovered back up within an hour or less.

Accuracy

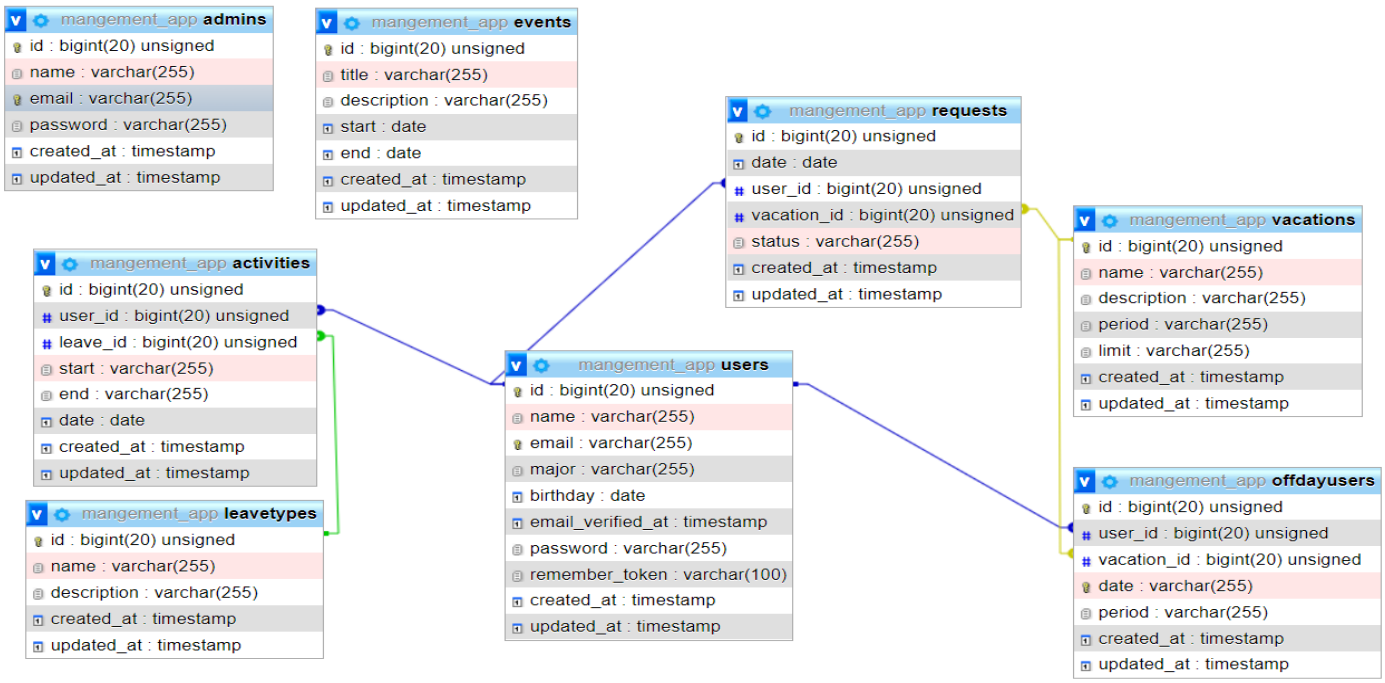
The system should accurately provide real time information taking into consideration various concurrency issues. The system shall provide 100% access reliability.

Reliability Requirement

The system has to be 100% reliable due to the importance of data and the damages that can be caused by incorrect or incomplete data. The system will run 7 days a week, 24 hours a day.

2.2 Employ management system ER diagram

The **employee management system ER diagram** shows the relationships of the system's entities that build its **database design**. ER diagram describes the logical structure of the system's database or data storage. It is done by identifying the employee management process entities, their properties, and the interactions between them.



The **employee management system ER Diagram** was made based on managing employees' information requirements. Its database design can store and secure employees' information. Admin can have access to the employees' status and information to see their performances. They can handle the data needed in managing employees and their job departments.

This ER diagram shows the tables I made to make the employee management system, and the relations between them.
the users have many relations with many other tables with the one-to-many relationship type.

2.3 Employ management system use-case diagram

In the Unified Modeling Language (UML), a use case diagram can summarize the details of your system's users (also known as actors) and their interactions with the system. To build one, you'll use a set of specialized symbols and connectors. An effective use case diagram can help your team discuss and represent:

- Scenarios in which your system or application interacts with people, organizations, or external systems.

- Goals that your system or application helps those entities (known as actors) achieve.
- The scope of your system.