

Task Management System

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December 2024

Abstract:

The Task Management System is a web-based project designed to streamline the assignment, monitoring, and completion of tasks within an organization. Developed using PHP, MySQL, HTML, CSS, and JavaScript, this system has two roles: Admin and Employee. The Admin has complete control over user management, including adding, updating, and deleting employee records, assigning tasks, and monitoring task progress. Employees, on the other hand, can view their assigned tasks, update the status of their tasks, and provide feedback. The system provides a user-friendly interface, enhanced with custom CSS and Bootstrap, ensuring a responsive and interactive experience.

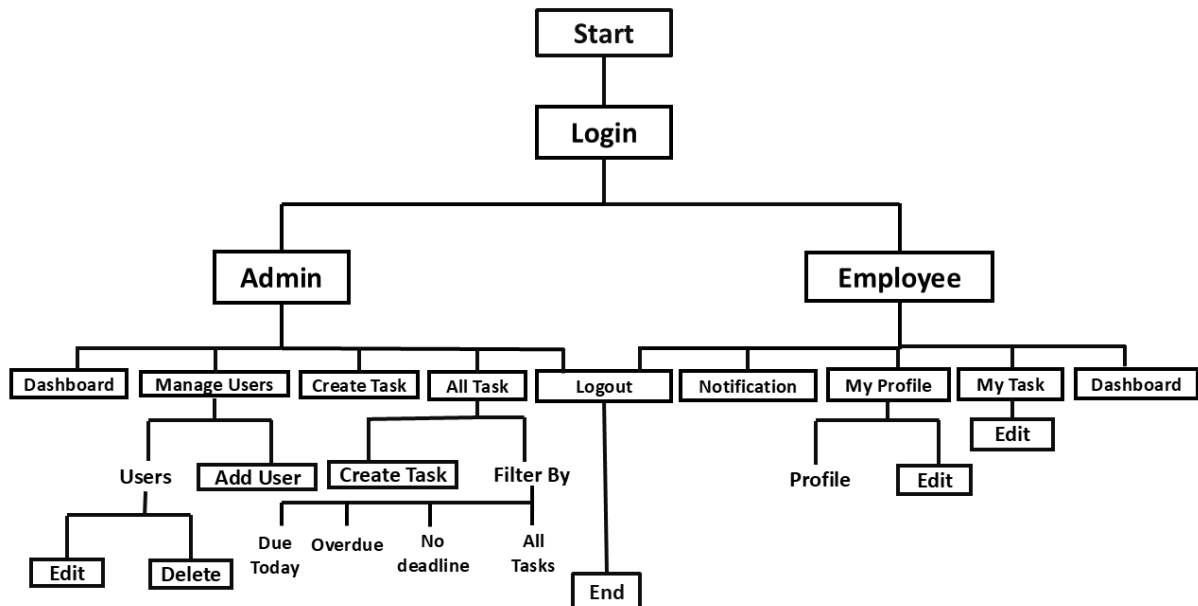
Objectives:

The objective of the Task Management System is to create an intuitive and user-friendly interface using HTML, CSS, and a bit of JavaScript, with Bootstrap ensuring responsiveness across various devices. The purpose of the system is to implement functionality using PHP to handle the application logic and interact seamlessly with a MySQL database for secure and efficient data storage and retrieval. The system has different roles, such as Admin and Employee, each with their own set of permissions. Admins are empowered to manage users, assign tasks, and track progress, while employees can view their tasks, update statuses, and manage their profiles effectively.

Requirements:

- **Sublime Text:** A code editor to develop PHP,HTML, and CSS files.
- **XAMPP Control Panel:**
 - Apache: For serving PHP files on a local server.
 - MySQL: For managing user data in the database.
- **Bootstrap:** To create a responsive and user-friendly interface.
- **Web Browser:** Any web browser such as Chrome, Firefox, etc. for testing the application.

Flowchart of the system:



Steps of the Entire Process:

- Download and install XAMPP , which provides an integrated environment with Apache server and MySQL database support. Turn on the Apache server to handle web requests and turn on MySQL to manage the database. Open the MySQL admin interface (phpMyAdmin) to create and manage the project database.
- The project is organized in a Task Management System folder, which contains subfolders for app, css, in, and files for various functionalities such as adding users, creating tasks, and managing profiles. Inside the App Folder, it contains Model folder for logic and files like add user, add task, login, notification, update profile, and others for managing different aspects of the application. Inside the Model Folder, it includes structured files for user, task, and notification models. In Files like header and navigation handle the layout and menu navigation across the application.
- Design an index to include all menus, visual styles, and navigation menus.
- Implement a login system to verify the user credentials and differentiate user roles (admin and employee) to control access to features. Upon successful login, users can be redirected to their respective index pages based on their roles.
- Create a taskdb database in phpMyAdmin and define tables for users, tasks, and notifications. The database script is stored as db.sql for easy deployment.
- Implement both the admin role and the employee role.
 - Admin role:

- * Admins can add new users and view the details of all users in the system.
 - * Admins have the ability to update user information if needed. If required, admins can remove users entirely from the system.
 - * Admins can create new tasks and assign them to users. They can view and modify the details of any task. Tasks can also be deleted by the admin if necessary.
- Employee role:
- * Employees can view tasks assigned to them by the admin. They are able to update the status of their tasks, marking them as "pending," "in progress," or "completed."
 - * Employees can view their profile details, including basic information. They have the ability to update their profile, such as changing passwords or other personal information.
- Add due dates and snooze functionality to tasks. Enable task filtering by status, deadline, due dates, overdue tasks, and tasks due today.
 - Create an admin dashboard to display key metrics and tasks and an employee dashboard to highlight assigned tasks and their status.
 - Implement notifications for task updates, deadlines, and overdue tasks.

Results:

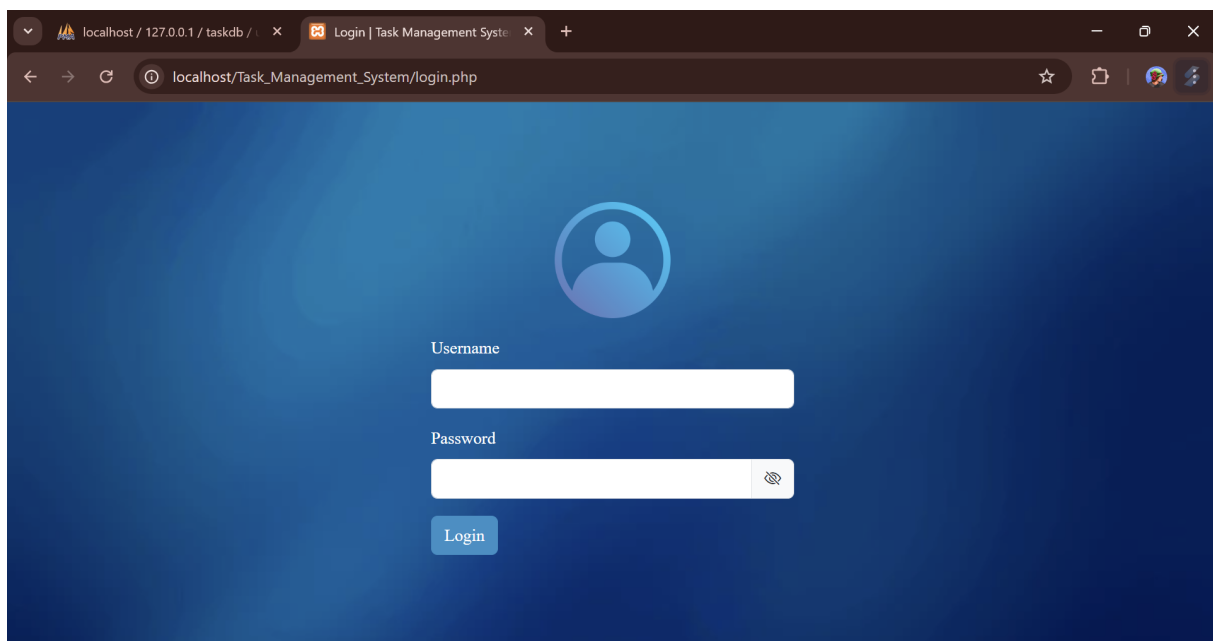


Figure 1: Login page

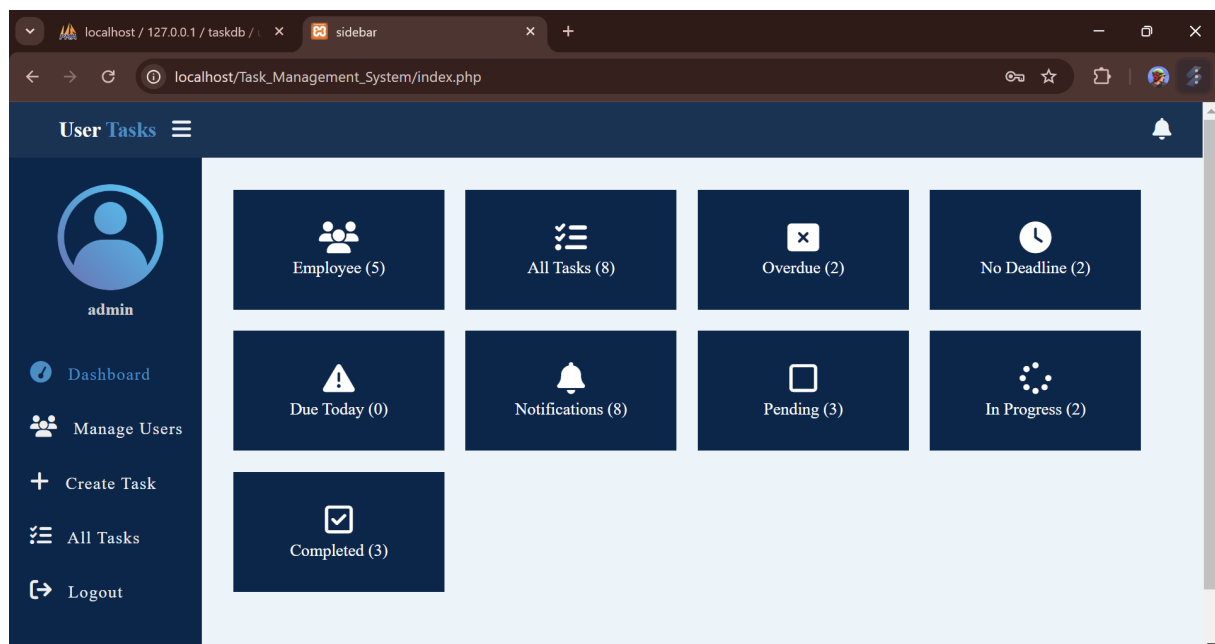
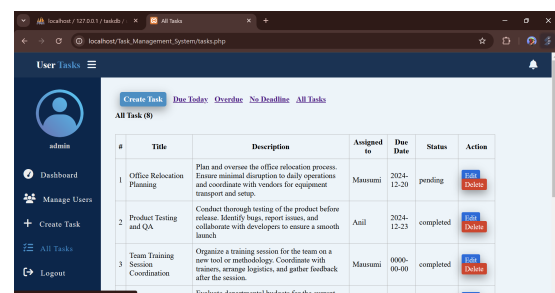
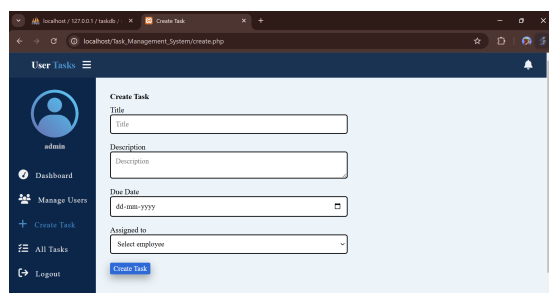
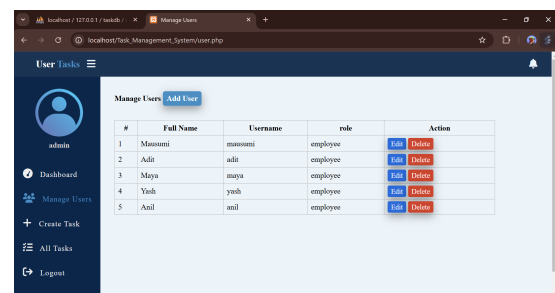
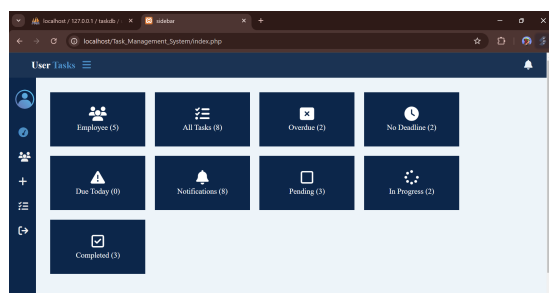


Figure 2: Admin page



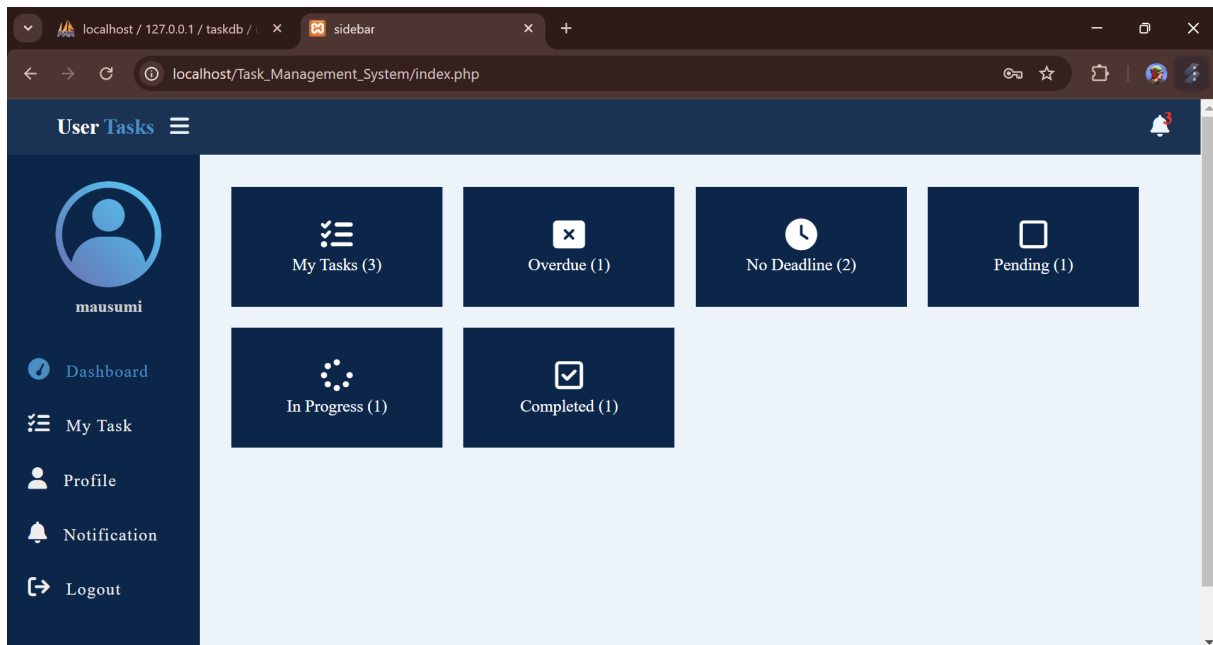
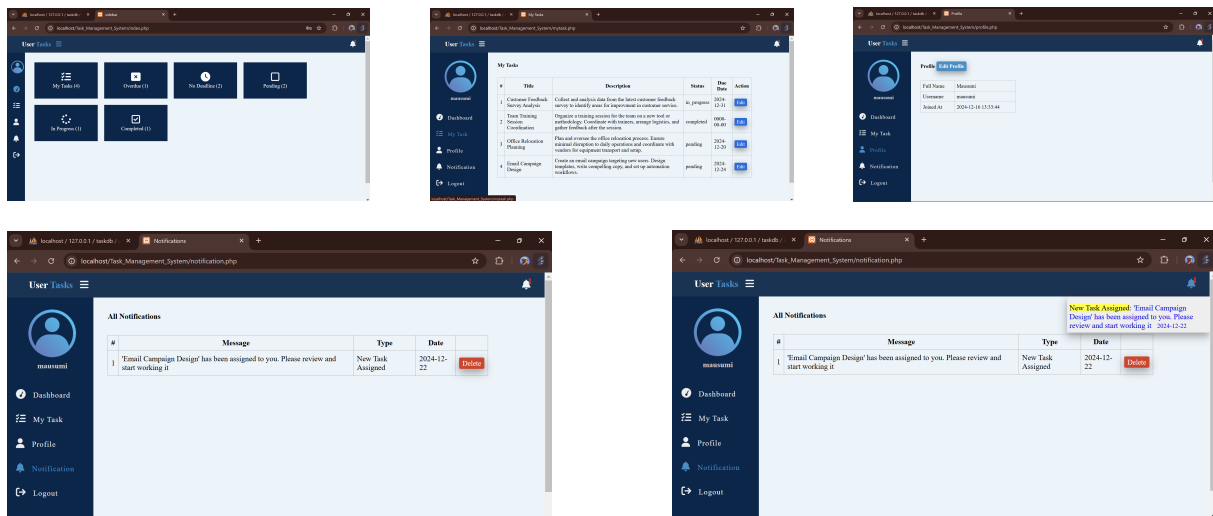


Figure 3: Employee page



Project Goals and Scope:

The Project goals of the Task Management System are to simplify the assignment, tracking and completion of tasks within an organization. Admins can manage users, assign tasks, and monitor progress, while employees can view tasks, update their status, and manage their profiles. The system is designed to be user-friendly, with a responsive interface built using HTML, CSS, Bootstrap, and JavaScript, and

a secure back-end powered by PHP and MySQL. The Project Scope includes features like role-based permissions, task filtering, notifications for updates and deadlines, and dashboards for both Admins and Employees. While the current project focuses on these core functionalities, future improvements like improving notification features, advanced reporting, and external tool integration are also planned.