**Task Management Application Documentation**

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**Introduction**

The Task Management Web Application is a simple, client-side application that allows users to register, log in, and manage their tasks. This application utilizes Local Storage to persist data between sessions.

**Features**

- User Registration

- User Login

- Task Creation

- Task Viewing

- Task Updating

- Task Deletion

- User Logout

**Technologies Used**

- HTML

- CSS

- JavaScript (with Local Storage)

**Setup Instructions**

1. Clone the repository:

* git clone https://github.com/yourusername/task-management-app.git

2. Navigate to the project directory:

* cd task-management-app

3. Open `index.html` in your preferred web browser.

**Project Structure**

task-management-app/

index.html

styles.css

app.js

**Detailed Description**

**HTML Structure**

The `index.html` file contains the structure of the application, divided into three main sections:

* Registration Form: Allows users to register by providing a username and password.
* Login Form: Allows users to log in using their registered username and password.
* Task Manager: Allows logged-in users to manage their tasks, including adding, viewing, and deleting tasks.

**CSS Styling**

* The `styles.css` file provides basic styling to make the application visually appealing and user-friendly.

**JavaScript Functionality**

* The `app.js` file contains the core logic for handling user interactions and managing tasks using Local Storage.

**Usage**

1. **Register a new user:**

- Enter a username and password in the registration form.

- Click the "Register" button.

- You will see a confirmation message.

2. **Log in:**

- Enter the registered username and password in the login form.

- Click the "Login" button.

- If the credentials are correct, you will be logged in and redirected to the task manager.

3. **Manage tasks:**

- Add a new task by entering the task description in the input field and clicking the "Add Task" button.

- View the list of tasks below the input field.

- Delete a task by clicking the "Delete" button next to the task.

4. **Log out:**

- Click the "Logout" button to log out and return to the login screen.

**Future Enhancements**

- Implement input validation to ensure strong passwords.

- Add password encryption for secure storage.

- Enhance the UI/UX with more styling and interactive elements.

- Implement task editing functionality.

- Allow users to mark tasks as complete or incomplete.

**License**

This project is licensed under the MIT License. For more information, refer to the LICENSE file in the repository. This documentation provides an overview of the Task Management Web Application, including its features, setup instructions, and usage guidelines. It is designed to help you understand the structure and functionality of the application, as well as provide ideas for future enhancements.