**Task Management Application Documentation**

**Table of Contents**

1. Introduction

2. Features

3. Technologies Used

4. Setup Instructions

5. Project Structure

6. Detailed Description

- HTML Structure

- CSS Styling

- JavaScript Functionality

7. Usage

8. Future Enhancements

**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.