

■ To-Do List Web Project Documentation

This project is a simple, interactive To-Do List web application built using HTML, CSS, and JavaScript. It uses the browser's `localStorage` to save tasks even after the page is refreshed. Users can add tasks, mark them as completed, and delete them. It is a perfect beginner-friendly project for learning front-end development and `localStorage` functionality.

■ Features

- 1 Add new tasks via input field
- 2 Mark tasks as completed (crossed out)
- 3 Delete individual tasks
- 4 Automatically saves tasks using browser `localStorage`
- 5 Persistent task list after refreshing or reopening page

■ File Structure

The project consists of the following files: - `index.html` — main structure of the web page - `style.css` — styling for layout, buttons, and responsiveness - `script.js` — JavaScript logic for handling tasks and `localStorage`

■ HTML (`index.html`)

This file creates the layout for the application. It contains an input box for new tasks, an 'Add Task' button, and an unordered list to display all tasks dynamically using JavaScript.

■ CSS (`style.css`)

The CSS styles the input box, task list, buttons, and overall layout. It uses basic properties like padding, margin, background, box-shadow, and flexbox to make the interface clean and modern.

■ JavaScript (`script.js`)

The JavaScript file handles user interactions and task management logic. Here's a breakdown: - ``addTask()`` reads the input and stores the task in `localStorage`. - ``loadTasks()`` fetches all saved tasks from `localStorage` and displays them. - ``toggleTask(index)`` marks a task as completed or uncompleted. - ``deleteTask(index)`` removes a task permanently. - ``localStorage`` is used to store the task list persistently in JSON format.

■ Conclusion

This To-Do List project is a great starting point for beginners in web development. It covers core concepts of HTML structure, CSS styling, DOM manipulation in JavaScript, and persistent storage using `localStorage`. You can enhance it further by adding features like theme toggle, drag-and-drop, due dates, or integration with APIs.