***Task Manager Application***

***Project Overview***

*The Task Manager Application is a web-based tool designed to help users organize and manage their tasks. The application provides core functionalities such as adding new tasks, editing existing tasks, deleting tasks, and marking tasks as completed or uncompleted. Tasks are stored locally, ensuring that they are retained even if the user closes the browser.*

***Features***

*1. Add New Tasks:*

*- Users can input new tasks through the provided input field.*

*- Tasks are added to the list upon pressing the "Add Task" button or pressing Enter in the input field.*

*2. Edit Existing Tasks:*

*- Users can edit the name of an existing task.*

*- Editing is initiated by clicking the "Edit" button associated with each task.*

*3. Delete Tasks:*

*- Users can permanently remove tasks from the list.*

*- Deletion is initiated by clicking the "Delete" button associated with each task.*

*4. Mark Tasks as Completed/Uncompleted:*

*- Users can toggle the completion status of tasks.*

*- Completion status is toggled by clicking the "Toggle Completed" button associated with each task.*

*5. Local Storage:*

*- Tasks are stored locally using the browser's local storage mechanism.*

*- Task data persists even if the user closes the browser.*

***User Interface***

*The user interface is designed to be intuitive and user-friendly. The main components include:*

*Header: Displays the title of the application ("Task Manager").*

*Task Input Form : Allows users to input new tasks. Pressing Enter or clicking the "Add Task" button adds the task to the list.*

*Task List: Displays the list of tasks with options to edit, delete, and mark tasks as completed or uncompleted*

*Task Actions: Each task has associated action buttons (Edit, Delete, Toggle Completed) for easy interaction.*

***Technical Implementation***

*The application is implemented using HTML, CSS, and JavaScript. The core functionality is driven by JavaScript, which manipulates the Document Object Model (DOM) to dynamically update the UI. Local storage is utilized to persistently store and retrieve tasks.*

***Files:***

*index.html: Contains the structure of the web page.*

*styles.css: Defines the styles for the UI.*

*script.js: Implements the core functionality of the task manager.*

***Responsive Design***

*The application is designed to be responsive, providing a seamless user experience across various screen sizes and devices.*

***Testing***

*The application has been tested to ensure that it meets the following criteria:*

*- Core functionalities work as expected.*

*- Local storage retains tasks even after browser closure.*

*- Responsive design adapts to different screen sizes.*

***Future Enhancements***

*Future enhancements may include:*

*- Prioritizing tasks.*

*- Sorting tasks by due date.*

*- Categorizing tasks into different lists.*

***Conclusion***

*The Task Manager Application provides a simple yet effective solution for organizing tasks. Users can easily add, edit, delete, and manage their tasks with the assurance that their data is stored locally.*