

Task Manager Application

This document provides detailed documentation for the Task Manager web application developed using HTML, CSS, and JavaScript. The project demonstrates core web development concepts such as DOM manipulation, event handling, localStorage usage, and modular file organization.

1. Introduction

The Task Manager application allows users to manage daily tasks efficiently. Users can add, edit, delete, mark tasks as completed, search tasks, apply filters, and reorder tasks using drag and drop.

2. Objectives

- To understand DOM manipulation
- To implement event-driven programming
- To use localStorage for data persistence
- To design responsive and user-friendly UI
- To apply modular JavaScript architecture

3. Technologies Used

- HTML5
- CSS3 (Glassmorphism + Theme separation)
- JavaScript (ES6)
- LocalStorage API

4. Project Structure

week2-task-manager/

```
├── css/
│   ├── style.css
│   └── theme.css
└── js/
    ├── app.js
    ├── storage.js
    ├── ui.js
    └── utils.js
    └── index.html
    └── README.md
```

5. Module Description

app.js: Contains the main application logic, task operations, filters, search, and drag-drop.

ui.js: Handles rendering tasks and updating statistics dynamically.

storage.js: Manages saving and retrieving data from localStorage.

utils.js: Contains helper functions like DOM selectors and ID generation.

6. Features

- Add, edit, delete tasks
- Mark tasks as completed
- Filter tasks (All / Active / Completed)
- Search tasks
- Drag & drop reordering
- Dark mode toggle
- Responsive UI

7. How to Run the Project

1. Download or clone the project repository
2. Open the project folder
3. Double-click index.html
4. The application will run in the browser

8. Conclusion

The Task Manager application successfully demonstrates core frontend development concepts. It provides a clean UI, modular architecture, and practical functionality suitable for academic and learning purposes.

9. Author

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