Unified Mentor

To-Do List App

Internship Project Report

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1. Introduction

The **To-Do List App** is a simple, interactive web-based application designed to help users organize and manage their daily activities effectively. It provides an intuitive interface where users can add, edit, delete, and mark tasks as completed.

This project was developed as part of a **3-month internship under Unified Mentor**, focusing on **frontend web development** using **HTML, CSS, and JavaScript**.

The app runs entirely in the browser and uses **Local Storage** to persist data, ensuring users can retain their task list even after refreshing or closing the page.

2. Objective

The main objectives of this project are:

- Allows users to manage daily activities digitally.
- Provides intuitive UI for adding, editing, and tracking tasks.
- Stores all data locally without external databases.
- Demonstrates modular JavaScript and DOM manipulation skills.

3. Scope of the Project

The app is intended for individual use on any browser without server dependencies. All task data persists via Local Storage, ensuring reliability even after page refresh.

Future enhancements may include:

- Cloud integration for multi-device access.
- Task prioritization and color-coded categorization.
- Daily reminders and push notifications.

4. System Requirements

Hardware Requirements

- Processor: Intel i3 or above

- RAM: Minimum 2 GB
- Storage: At least 200 MB free

Software Requirements

- OS: Windows 10 / 11
- Browser: Chrome / Edge (latest)
- Code Editor: Visual Studio Code

5. Technologies Used

Layer	Technology
Frontend	HTML5, CSS3, Vanilla JavaScript
Storage	Browser Local Storage
Environment	Client-side (No Backend Server Required)
Version Control	Git & Github

6. Features Implemented

- **Add Tasks:** Users can enter new tasks through an input field and add them to the list.
- **Edit Tasks:** Modify existing tasks with a single click.
- **Mark as Complete:** Toggle a checkbox to mark tasks as completed or incomplete.
- **Delete Tasks:** Remove unwanted tasks from the list.
- **Search & Filter:** Filter tasks by completion state or search keywords.
- **Responsive Design:** Works smoothly on both desktop and mobile screens**.**
- **Calendar View:** Highlights due-date tasks for better planning.
- **Dark Mode:** Persistent theme preference saved locally.

7. System Design Overview

Architecture:

- Pure frontend application structured with modular JavaScript for readability and maintainability.
- DOM manipulation handles all task CRUD operations dynamically.
- Local Storage acts as the data layer, storing serialized task objects.

Modules:

1. **Task Management Module:** Add, edit, delete, and toggle tasks.
2. **Filter & Search Module:** Provides filtering and search functionality.
3. **UI & Theme Module:** Manages Dark Mode and responsive layout.
4. **Calendar Module:** Generates interactive monthly calendar with due-date indicators.

8. Project Setup & Execution

Live site link: https://shivanie07.github.io/To-Do-List-App/

Local Setup(Optional)

1.Clone the repository:

bash

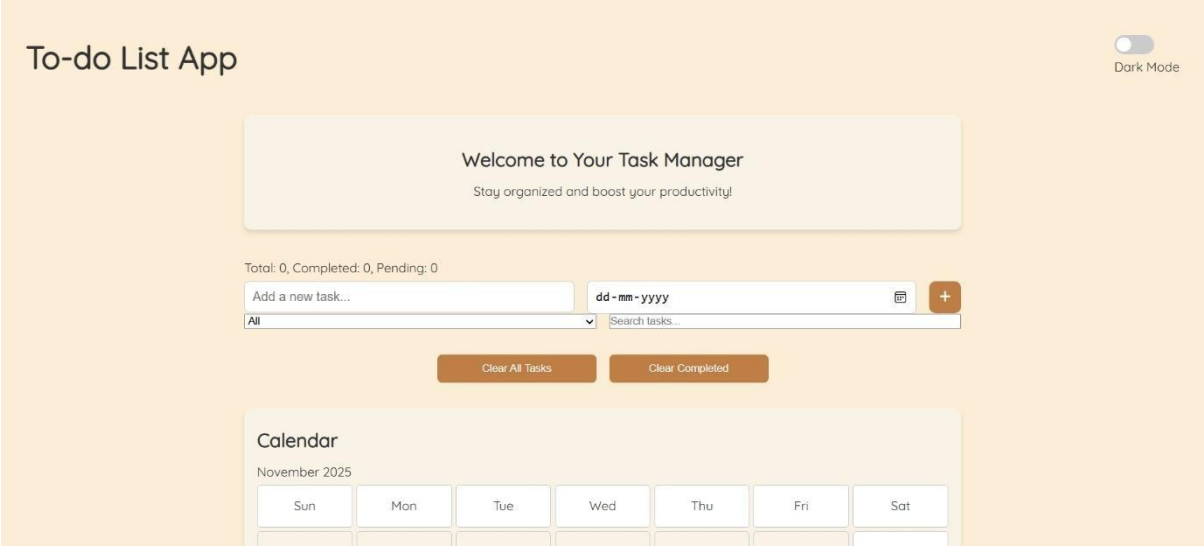
git clone https://github.com/shivanie07/To-Do-List-App

2.Open the project in VS Code.

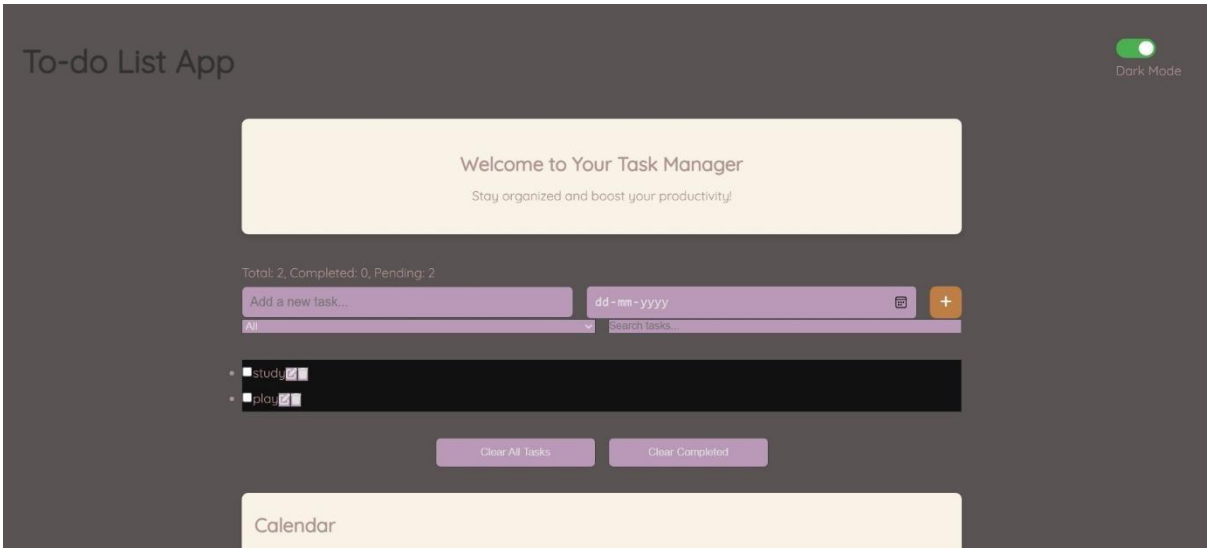
3.Run the application by opening index.html in any modern browser.

9. Output & Screenshots

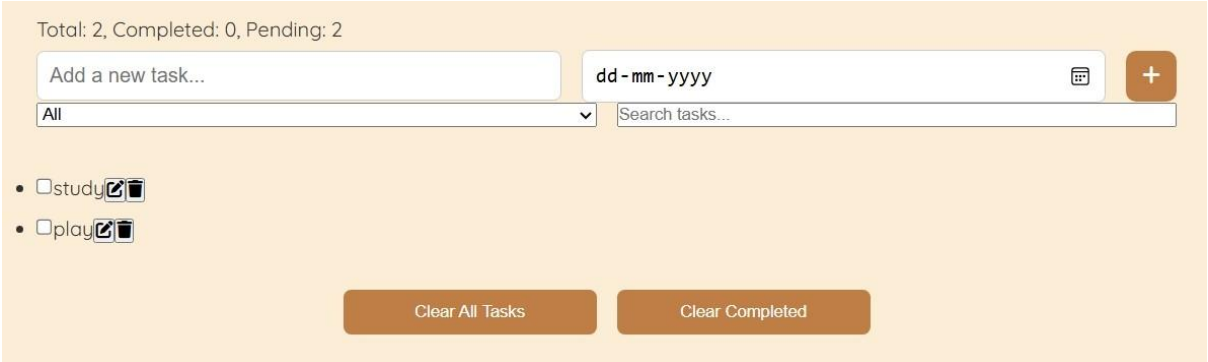
1. Home / Main Interface



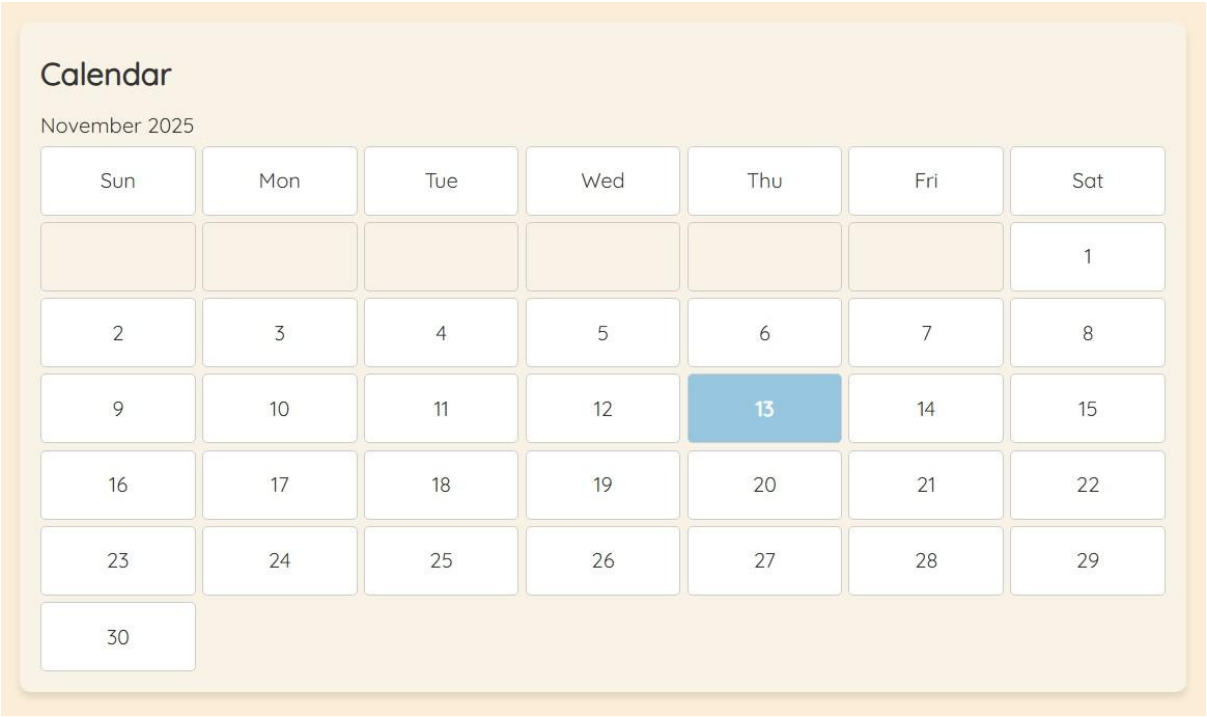
2. Dark mode View



3. Task View



3. Calendar View



10. Challenges Faced

- Maintaining data consistency while editing or deleting tasks.
- Implementing calendar highlights for due-date tasks.
- Ensuring responsive layout for both mobile and desktop.
- Managing dark-mode toggle persistence across reloads.

11. Learning Outcomes

- Improved understanding of JavaScript DOM manipulation and event-driven design.
- Learned practical use of Local Storage for client-side data persistence.
- Enhanced ability to design responsive and accessible web interfaces.
- Strengthened debugging, documentation, and version control skills.

12. Conclusion

The **To-Do List App** fulfills its goal as an easy-to-use, efficient tool for managing daily tasks.

It highlights essential web development concepts—HTML structure, CSS styling, JavaScript interactivity, and data persistence—while maintaining a clean and intuitive design.

This project successfully demonstrates core frontend principles learned during the **Unified Mentor Internship**.

13. GitHub Repository

Project Link: https://github.com/shivanie07/To-Do-List-App

14. Acknowledgement

I would like to express my heartfelt thanks to **Unified Mentor** for the opportunity to work on this project.
The internship experience strengthened my technical skills, creativity, and understanding of frontend development fundamentals.

End of Report