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# 📝 Project 1 - Task Management App

**Overview**

This application helps users organize daily tasks by allowing them to add, edit, delete, and mark tasks as complete. It’s a simple yet effective tool built with **HTML**, **CSS**, and **Native** **JavaScript**, with **local storage** to keep tasks saved even when the browser is closed or refreshed. This is my first big JavaScript project, where I put what I learned into practice with DOM manipulation and form handling.

# Key Features

* **Add Tasks**: Users can add new tasks with an input box, submitting by pressing 'Enter' or clicking an 'Add' button.
* **Edit Tasks**: Tasks can be edited directly in the list so that any task can be updated easily.
* **Delete Tasks**: Options to delete either all tasks or only the completed ones.
* **Mark as Complete**: Each task has a checkbox to mark it as done, making it easy to keep track.
* **Filter Tasks**: You can filter the list to show all, active, or completed tasks.
* **Task Count**: Keeps track of total tasks and active tasks so you know how much is left to do.
* **Data Persistence**: Tasks are saved using local storage, so they’re still there even after closing or refreshing the browser.

# Project Structure

* **index.html**: Contains the HTML structure for the app.
* **styles.css**: Handles the CSS styling to make the app user-friendly and nice to look at.
* **script.js**: Where all the JavaScript magic happens, covering:
  + Adding, editing, and deleting tasks
  + Updating the DOM in real-time
  + Saving and loading tasks from local storage
  + Validating user input to prevent duplicates or errors

# Self-Project Evaluation

|  |  |
| --- | --- |
| **Evaluation Criteria** | **My Thoughts** |
| **Functionality** | I believe the application fully meets functional requirements.  It allows users to add, edit, delete, and filter tasks smoothly. |
| **Data Persistence** | I implemented local storage effectively, so tasks are saved between sessions, creating a smooth user experience. |
| **User Interface** | The UI is clean and intuitive, with well-placed buttons and labels that guide users without overwhelming them. |
| **Error Handling** | I included input validation to prevent users from adding tasks with less than three characters, starting with a number, or duplicating a task. |
| **Responsiveness** | The app adjusts to different screen sizes, making it accessible on both desktop and mobile. |
| **Efficiency** | I optimized DOM updates, only updating elements that changed to maintain performance as the task list grows. |
| **Accessibility** | The app is keyboard-accessible, with labels and visual contrast to improve readability for all users. |
| **Innovation** | While traditional, I added features like filtering, which enhances the classic to-do list by allowing users to organize and view tasks easily. |

# Challenges and Learnings

* **DOM Manipulation**: Learned how to efficiently update and handle large lists without slowing down the app.
* **Error Handling**: Implemented more robust validation than I initially planned, which really improved the user experience.
* **Storage and Persistence**: Practiced using local storage to retain data, which added a lot of value to the app.
* **Responsive Design**: Gained experience with media queries to ensure the app is usable across various devices.

# Final Self-Grade

Based on the project requirements, I believe my project falls into the **Very Good to Excellent range** .

The To-Do List Manager meets all essential requirements and incorporates dynamic, user-focused features, demonstrating a comprehensive understanding of JavaScript and DOM manipulation.

# Deployment

The app is live and hosted on Netlify: [Project 1 - Task Management App](https://taskmanagment-app.netlify.app/)

# Project Details

* **Project Name**: Project 1-Todoist
* **Developer**: [Muhudin Mahamud Alasow](https://muhuala.github.io/muhu/)
* **GitHub Repository**: [Muhudin Alasow](https://github.com/muhuala/muhu)
* **Completion Date**: October 27, 2024

# Final Notes

This project was a great hands-on experience in creating a full JavaScript application. It reinforced the importance of **data persistence**, **user interface design**, and **input validation**. I’m excited to continue building on these skills in future projects!