Laurea-ammattikorkeakoulu 27.10.2024

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1 📝 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.

2 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.

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3 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

4 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.

5 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.

6 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.

7 Deployment

The app is live and hosted on Netlify: Project 1 - Task Management App

8 Project Details

- **Project Name**: Project 1-Todoist
- **Developer**: Muhudin Mahamud Alasow
- **GitHub Repository**: Muhudin Alasow
- **Completion Date**: October 27, 2024

9 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!