

Report

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Task Title: To-Do List Application Development

Task Description: Develop a simple To-Do List web application allowing users to add tasks and mark them as completed.

Steps Taken: Created the basic structure of the HTML file with input field, add button, and task list container. Styled the application using CSS to enhance visual appeal and user experience. Implemented JavaScript functions to add tasks dynamically to the list and mark them as completed. Utilized local Storage to store tasks locally, ensuring persistence even after page reload.

Challenges Faced: Managing task addition and deletion dynamically while ensuring a smooth user experience. Implementing local Storage functionality to store and retrieve tasks without interfering with the application flow.

Solutions Implemented: Used event listeners to capture user input and dynamically update the task list accordingly. Implemented conditional rendering to display tasks based on their completion status. Utilized local Storage methods like `setItem()` and `getItem()` to save and retrieve tasks from the browser's storage.

Learnings: Enhanced proficiency in JavaScript DOM manipulation for building interactive web applications. Gained understanding of client-side storage mechanisms like local Storage for data persistence. Learned effective techniques for structuring and organizing code to maintain scalability and readability.

Project Update: The To-Do List web application has been successfully developed and deployed, allowing users to add, view, and mark tasks as completed. Further enhancements such as task prioritization, due dates, or categorization can be considered based on user feedback and requirements.