

Task: Build a Simple React To-Do List Application

Objective: Create a front-end application using React that allows users to manage their to-do list.

Requirements:

- User Interface:**
 - The application should have an input field for users to add new to-do items.
 - Display a list of to-do items.
 - Each to-do item should be clickable to toggle its completion status.
- Functionality:**
 - Adding Tasks:** Users should be able to add new tasks to the list via the input field.
 - Toggling Completion:** Users should be able to mark tasks as completed or uncompleted by clicking on the task.
 - Initial State:** On application load, populate the to-do list with a few sample tasks.
- State Management:**
 - Use React's `useState` hook to manage the to-do list's state.
 - Use React's `useEffect` hook to initialize the application with sample data.
- Styling:**
 - Apply basic styling to differentiate between completed and incomplete tasks.
 - Ensure the application is neatly laid out and presentable.

Evaluation Criteria:

- Functionality:** The application meets all the specified requirements.
- Code Quality:** The code is clean, well-organized, and properly commented.
- State Management:** Proper use of React hooks for state management and side effects.
- Error Handling:** The application handles and prevents potential errors gracefully.
- UI/UX Design:** The application is user-friendly and visually appealing.

Bonus (Optional):

- Task Editing:** Allow users to edit tasks.
- Task Deletion:** Allow users to delete tasks.

Submission Instructions:

- Provide the source code for the application, preferably through a GitHub repository.
- Include a README file with instructions on how to run the application.