Build a Simple Todo App

Project Requirements

Todo List Page

• **Purpose**: Display all tasks that the user has added.

• Features:

- A title at the top of the page (e.g., "Todo List").
- o A list displaying all current tasks. Each task should be presented as a separate item.
- Checkbox for Task Completion: Each task should have a checkbox next to it, allowing the user to mark it as complete.
- The ability to see new tasks appear in the list as they are added from the Add Todo
 Page.

Add Todo Page

• **Purpose**: Provide a simple interface for users to add new tasks.

Features:

- o A form with a single input field where the user can type the name of the task.
- A button to submit the form and add the task to the list.
- The input field should clear after a task is added, preparing it for a new entry.

Application Structure

• Components:

- TodoList Component: Manages and displays the list of tasks. Each task should include a checkbox to mark it as complete.
- AddTodo Component: Manages the input field and the submission of new tasks.
- App Component: Acts as the main entry point of the application, combining both the Todo List and Add Todo components.

State Management:

- o The app will manage the list of tasks using React's state.
- The state should be lifted up to the main App component, ensuring both the list and form components can interact with the same data.
- The state should also track whether each task is complete or incomplete based on the checkbox state.

User Experience

Adding a Task:

 The user should be able to enter a task name and submit it. The task should then appear in the Todo List with a checkbox next to it. o If the user submits an empty task or a task that only contains spaces, it should be ignored.

• Viewing and Completing Tasks:

- o All added tasks should be displayed in the Todo List, in the order they were added.
- The user can mark a task as complete by checking the checkbox next to the task. This
 action should visually indicate that the task is complete (e.g., by striking through the
 task name).

Todo List

