

Build a Small Task Management Website in React.js

Create a small website for managing tasks. The website should have the following features:

1. **Class Components:** Implement a class component called `TaskManager` that will serve as the main container for managing tasks. This component should have a state to store the list of tasks.
2. **Functional Components:** Create a functional component called `TaskList` responsible for displaying a list of tasks. It should receive the list of tasks as props from the `TaskManager` component.
3. **Nested Components:** Inside the `TaskList` component, create a child component called `TaskItem` that represents an individual task.
4. **Conditional and Looping Constructs:** Implement conditional rendering in the `TaskList` component. If there are no tasks, display a message like "No tasks to display." Use a loop (e.g., `map`) to render each `TaskItem`.
5. **State:** In the `TaskManager` component, manage the list of tasks using state. Initially, you can provide some sample tasks within the state.
6. **Props:** Pass the list of tasks as props from the `TaskManager` component to the `TaskList` component. Each `TaskItem` should receive a task object as a prop.
7. **Form (Controlled Component):** Create a form component called `TaskForm` within the `TaskManager` component. This form should allow users to add new tasks. Use controlled components to manage form input values.

The user should be able to:

- View a list of tasks (if any).
- Add new tasks using the form.
- Mark tasks as completed (implement a button or checkbox to toggle task completion status).
- Delete tasks (implement a button to remove a task).

Ensure that the website is visually appealing and easy to use. You can style it using CSS or a UI library of your choice. This assignment will cover various React.js concepts, making it a comprehensive exercise for your students.