

# **React Assignment 1:**

## **Todo App**

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# PROJECT OVERVIEW :

This project is a **simple To-Do List application** built using **React** and **Vite**. The app allows users to efficiently manage their daily tasks through an intuitive and user-friendly interface. It demonstrates core React concepts such as **functional components**, **state management**, **props**, and **event handling**.

## Key Features

- **Add New Tasks** – Users can add new to-do items through an input field.
- **Mark as Completed** – Tasks can be marked as completed to help track progress.
- **Delete Tasks** – Unwanted tasks can be easily removed from the list.
- **Edit Existing Tasks** – Users can edit the text of an existing task.
- **Dynamic Rendering** – The list updates instantly as tasks are added, edited, or deleted.
- **Responsive Design** – Styled using CSS/Tailwind for a clean and modern UI.

## Technical Details

- **Framework:** React (Functional Components)
- **Build Tool:** Vite
- **State Management:** React `useState` hook
- **Data Flow:** Props passed between `App`, `ToDoList`, and `ToDoItem` components
- **Components:**
  - `App` – Root component managing the overall state and logic
  - `Header` – Displays the application title
  - `ToDoList` – Renders the list of tasks dynamically using the `map()` function

- `ToDoItem` – Represents a single to-do item with options to edit, delete, and mark complete

## PROJECT STRUCTURE :

```

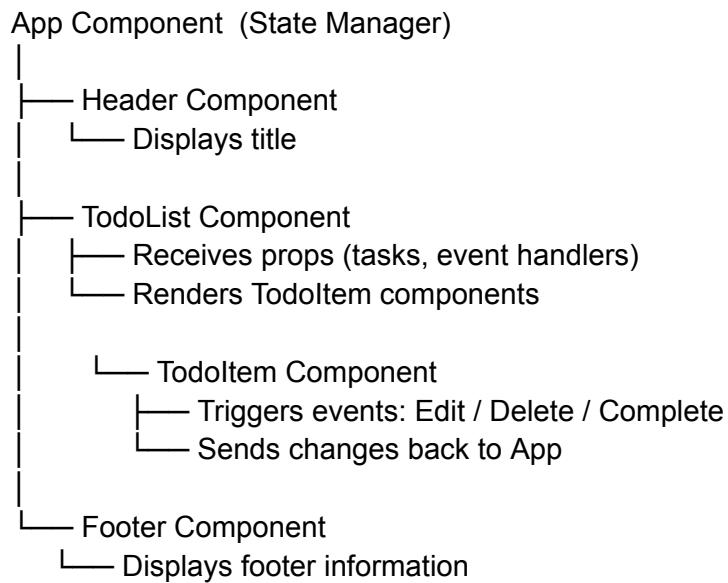
todo-app/
├── node_modules/          # Installed dependencies (excluded from GitHub)
│
└── public/
    └── vite.svg           # Default Vite logo (publicly available assets)
|
└── src/
    ├── assets/            # Static images and assets used in the app
    │   ├── bg.jpg
    │   └── react.svg
    |
    ├── Components/         # Reusable React functional components
    │   ├── Footer.jsx      # Footer section of the app
    │   ├── Header.jsx       # Displays application title
    │   ├── Todoltem.jsx     # Single to-do item (edit, delete, complete)
    │   └── TodoList.jsx     # Renders list of all to-do items dynamically
    |
    ├── App.jsx             # Root component — manages state and logic
    ├── App.css             # Component-level styles for App
    ├── index.css            # Global styles or Tailwind imports
    └── main.jsx             # Entry point that renders the App component
    |
    ├── .gitignore           # Ignored files (e.g., node_modules)
    ├── eslint.config.js     # ESLint configuration for code quality
    ├── index.html           # Main HTML file used by Vite
    ├── package.json          # Project dependencies and scripts
    ├── package-lock.json     # Lock file for consistent dependency versions
    ├── vite.config.js        # Vite build and server configuration
    └── README.md             # Project documentation

```

**Github : <https://github.com/chaitali9497/ToDo-App-React>**

**Live Project : <https://to-do-app-react-virid.vercel.app/>**

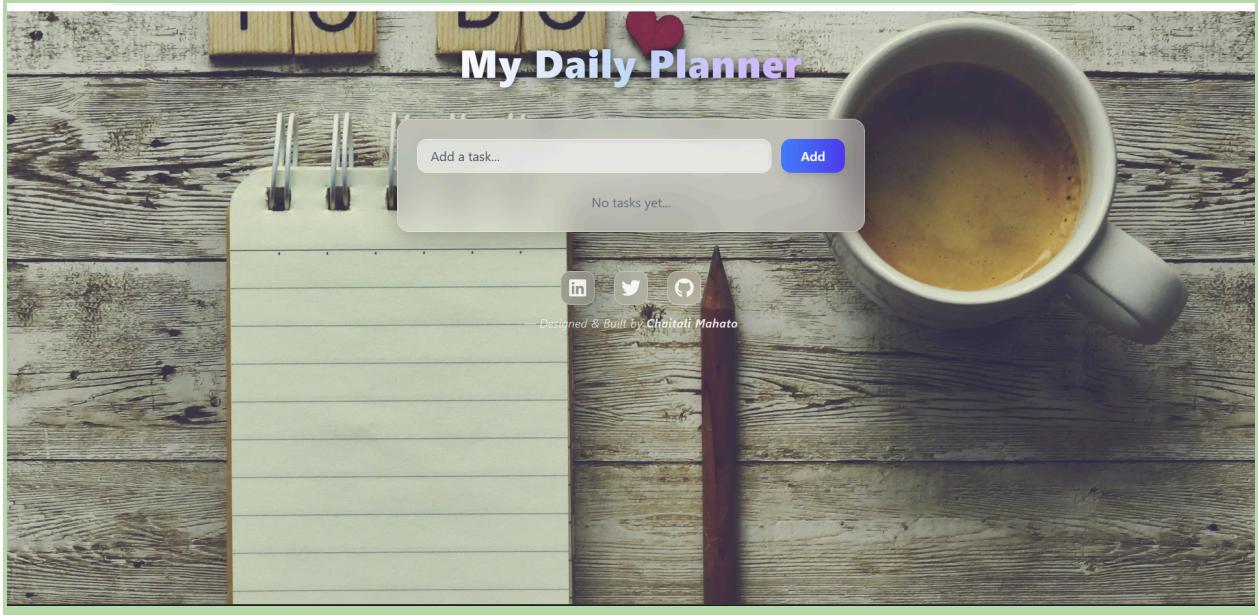
# PROJECT FLOW :



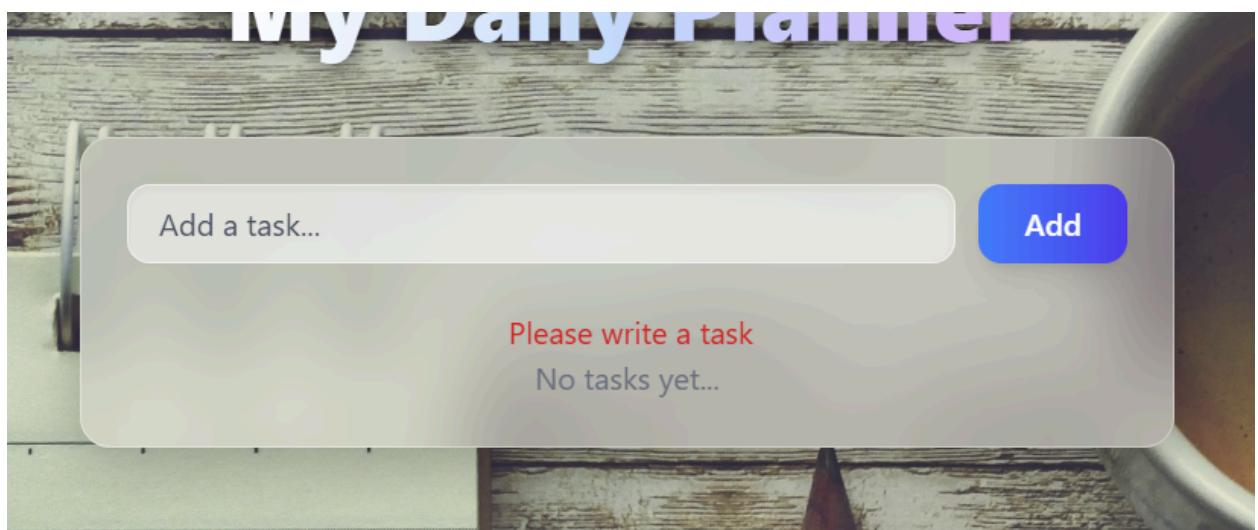
## Flow Explanation:

- **App** → manages global state (`tasks`, `setTasks`)
- **App** → **TodoList** → passes `tasks` and functions via props
- **TodoList** → **TodoItem** → renders individual task items
- **TodoItem** → **App** → sends user-triggered updates (mark done, delete, edit)
- **App** → **Header/Footer** → provides layout and static info

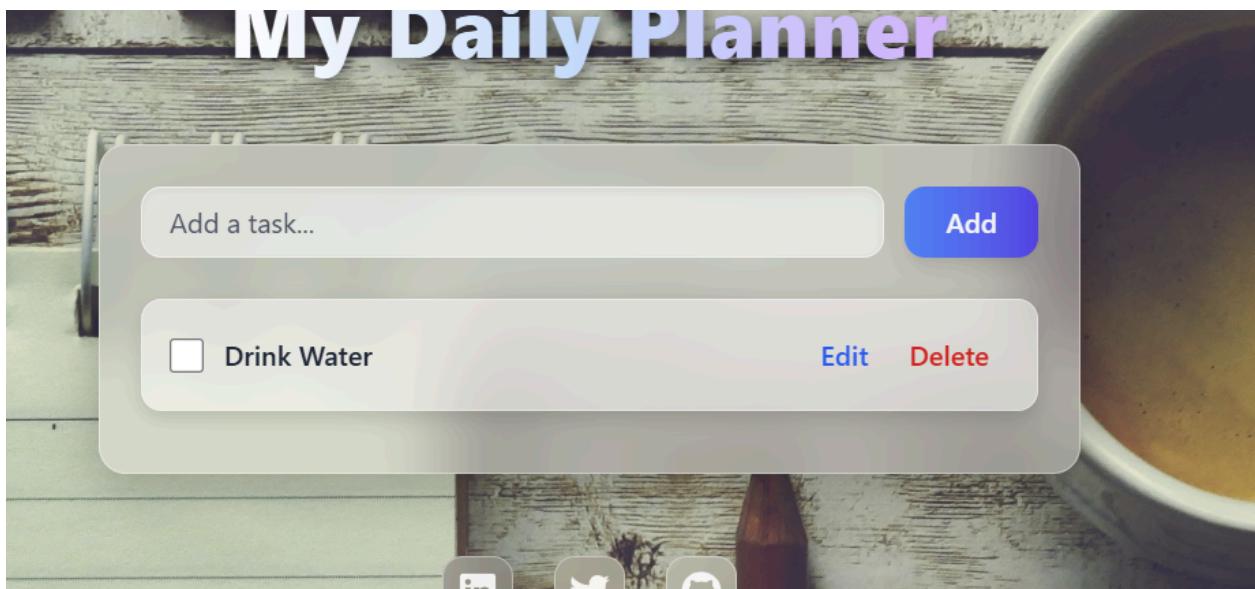
## Landing Page:



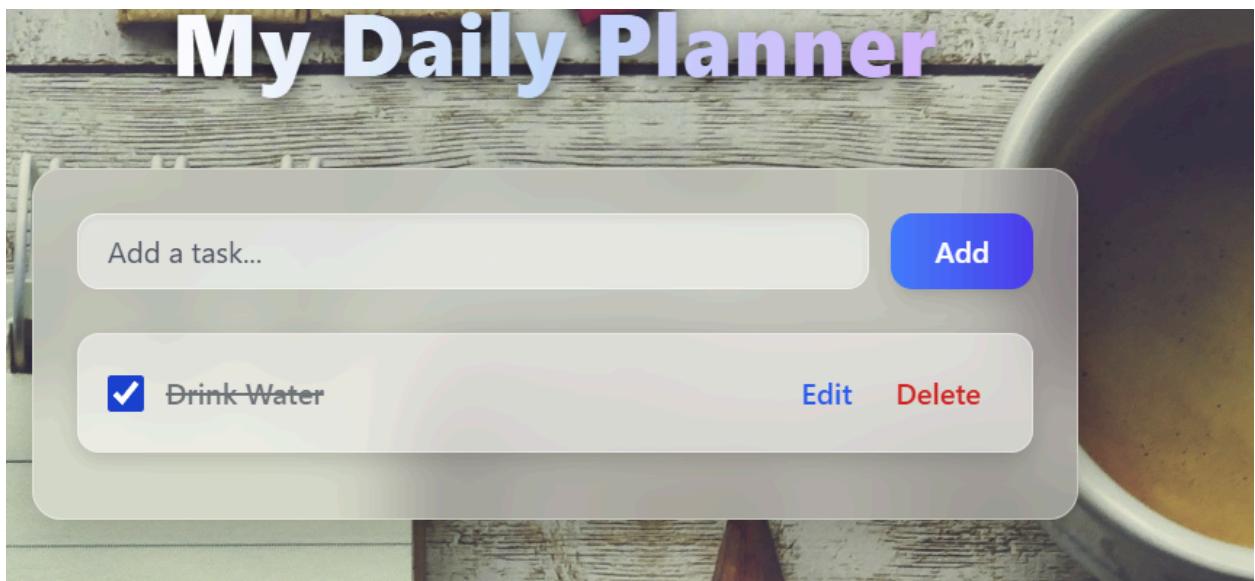
Empty check:



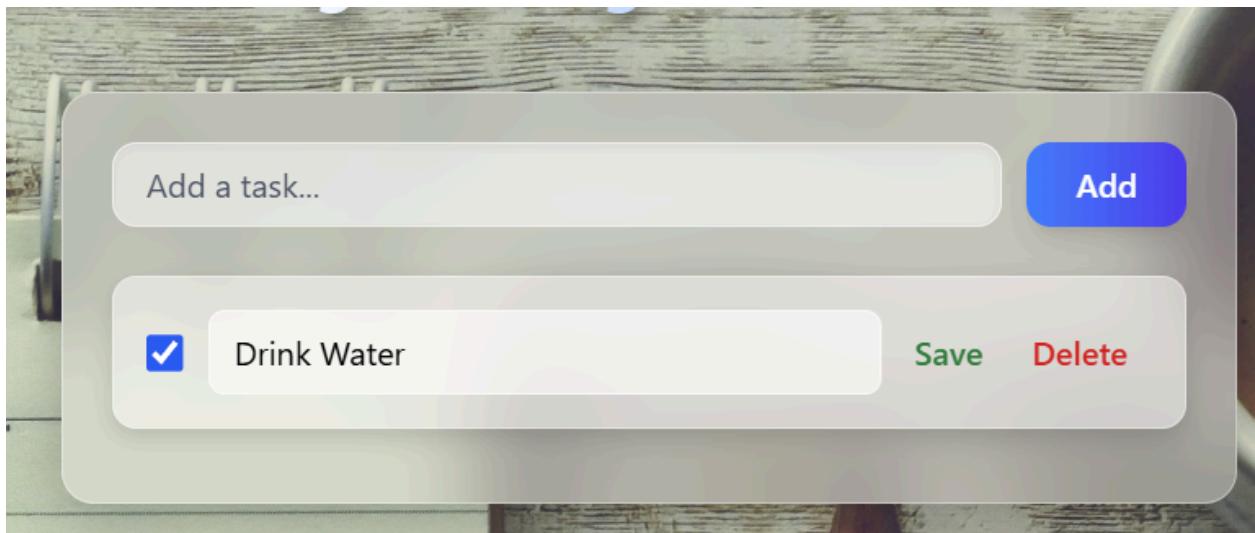
Add Task:



Task Completed (Marked):



## Edit and Save :



\*\*\*\*\* THANK YOU \*\*\*\*\*