Project Description

To-Do List Application

The To-Do List Application is a simple yet powerful tool built using React that enables users to manage tasks effectively. The application allows users to add, edit, mark as complete, and delete tasks, providing a seamless and interactive way to keep track of daily activities.

Key Features:

- **Add Tasks:** Easily add new tasks using an intuitive input form.
- **Mark as Completed:** Toggle tasks between completed and incomplete states with a single click.
- **Delete Tasks:** Remove tasks from the list when they are no longer needed.
- **Edit tasks:** User can edit tasks
- **Responsive Design:** Optimised for both desktop and mobile devices, ensuring accessibility and usability across different screen sizes.

Challenges:

1. **State Management:** Handling state updates efficiently to reflect changes in the UI, especially when tasks are added or removed.
2. **Component Communication:** Passing data between components (e.g., from the main App component to the TodoItem component) and managing their interactions.
3. **Props Handling:** Ensuring that the application remains functional and visually appealing on various devices and screen sizes well without any error.

The project demonstrates essential CRUD operations in React and provides a solid foundation for more complex applications. It also showcases the ability to handle user interactions and manage application state effectively.

Github Link:-

STRUCTURE:-

```
my-todo-app/
│
├── public/            # Public folder contains index.html
├── src/               # Source folder for application code
│   ├── components/     # Reusable React components
│   │   ├── TodoForm.js  # Component for adding new tasks
│   │   ├── TodoList.js  # Component that displays the list of tasks
│   │   └── TodoItem.js  # Component for rendering individual tasks
│   ├── App.js          # Main application component
│   ├── index.js        # React entry point file
│   ├── styles.css      # CSS for styling the app
│
├── package.json        # Project dependencies
└── README.md           # Project documentation and instructions
```