

React Native To-Do List App Report

1. Introduction The React Native To-Do List App is a simple mobile application that allows users to add and manage their tasks. The application features a user-friendly interface with a text input field for adding tasks and a list that dynamically updates as tasks are added.

2. Features

- Add tasks to the list.
- Display tasks in a styled list.
- Maintain a visually appealing and responsive design.
- Implement basic input validation to prevent empty tasks from being added.

3. Technologies Used

- **React Native:** Framework for building mobile applications using JavaScript.
- **React Hooks (useState):** For managing component state.
- **FlatList:** For rendering the list of tasks efficiently.
- **TextInput & Button:** Core UI components for user interaction.

4. Implementation The app consists of a single functional component that maintains an array of tasks in its state. When a user enters a task and presses the "ADD GOAL" button, the task is added to the list and displayed on the screen.

5. User Interface Design The UI follows a clean and modern design with a purple header and rounded task items to enhance user experience. Key design elements include:

- A header with the title "To-Do List".
- An input field for task entry.
- A button for adding tasks.
- A list displaying added tasks with a styled background.

6. Future Enhancements

- Add task deletion functionality.
- Implement local storage for task persistence.
- Improve styling and animations for a smoother experience.

- Introduce categories or priority levels for tasks.

7. Conclusion This React Native To-Do List App serves as a foundational project for learning React Native and state management. With further enhancements, it can be developed into a fully functional task management application.