Project Report

of

Front End Engineering

<u>**Submitted By :**</u>   <u>**Submitted To :**</u>

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Project Name: React To–Do List – Manage Your Tasks

Summary :

The React To – Do List web application is a user-friendly and responsive to-do list, built using the React JavaScript library. This program aims to provide users with an easy and efficient way to manage their daily tasks and improve productivity.

Introduction :

Today's fast-paced demands often leave us juggling many tasks and responsibilities. In today's digital age, an efficient and user-friendly to-do list is an essential tool for staying organized and increasing productivity. Introducing our web application designed for simplicity and efficiency to help users manage their daily tasks effortlessly. With a clear and intuitive interface, reliable features and smooth usability, our configuration software is the best solution for individuals and teams who want to simplify their workflow, prioritize tasks and regain control of their busy life. Welcome to a smarter, more organized way to manage your to-do list.

Scope of the Project :

The main objectives of the project are :

1. **Efficient Task Management:** Create a to-do list web application that enables users to efficiently manage their tasks, helping them organize, prioritize, and complete their daily activities with ease.
2. **Comprehensive Testing:** Conduct thorough testing, including unit testing, integration testing, and usability testing, to deliver a robust and bug-free application that meets high-quality standards.
3. **Continuous Support and Maintenance:** Offer ongoing maintenance and support to address issues promptly, enhance performance, and introduce new features, ensuring a positive and enduring user experience.
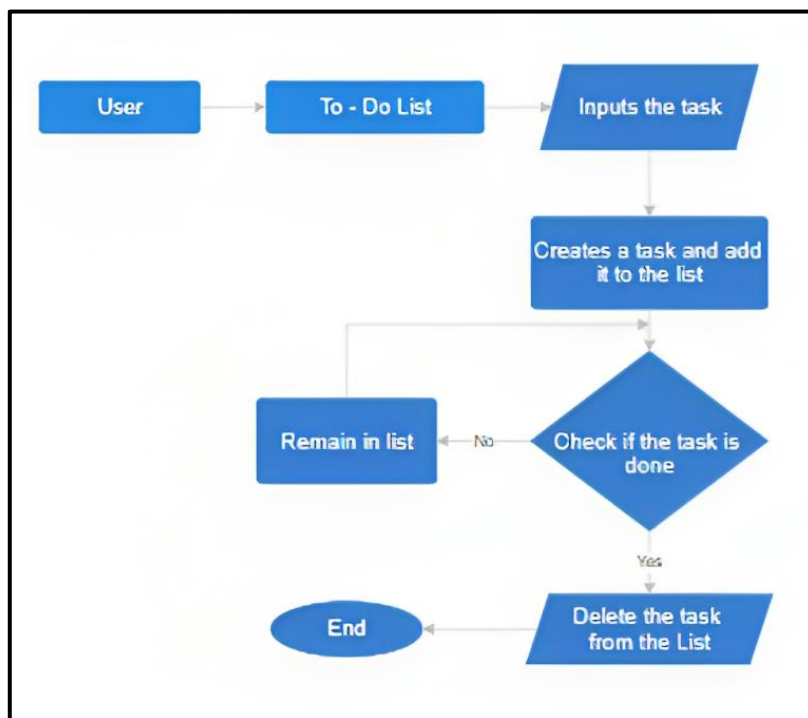
Tech Stack Used :

- **React :** I used React for the whole structure or the front end of the web application. This is because I want the things to render fast and React hooks made the entire development very easy.
- **Scss :** I used Scss for designing the web application. The main reason behind using it is that it provides variable creation function which is very useful and also nesting of elements becomes very easy so that the same code need not to be written multiple times.
- **FireBase :** Firebase has been used for everything related to data. Inbuilt libraries and functions of firebase have been used for authentication , storage and maintenance of the data.
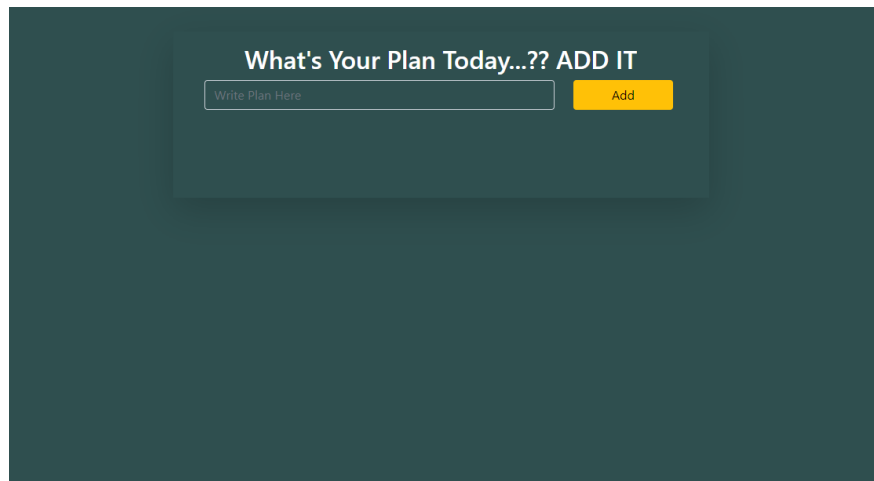
Testing and quality assurance :

Rigorous testing was performed throughout the development process, including unit testing, integration testing, and user acceptance testing. Bugs were identified and fixed quickly to ensure the application and its reliability and durability.

Project Flow :

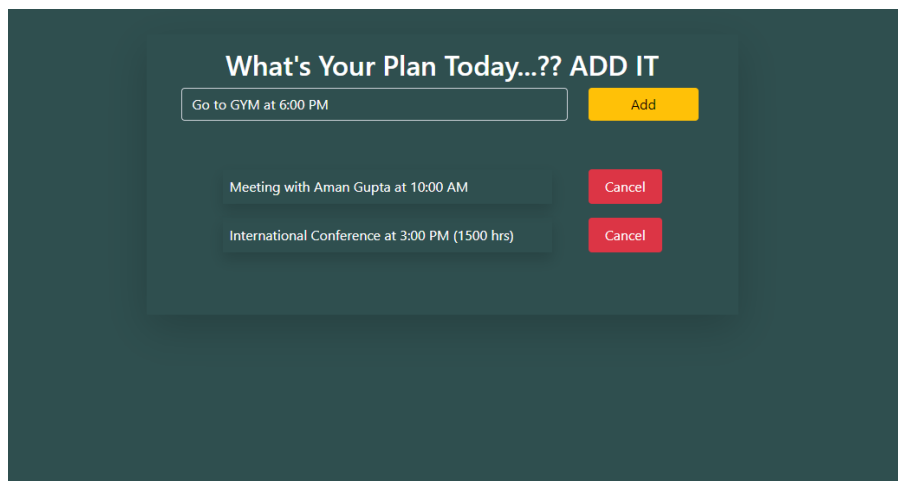The flow of the project is in the following way :

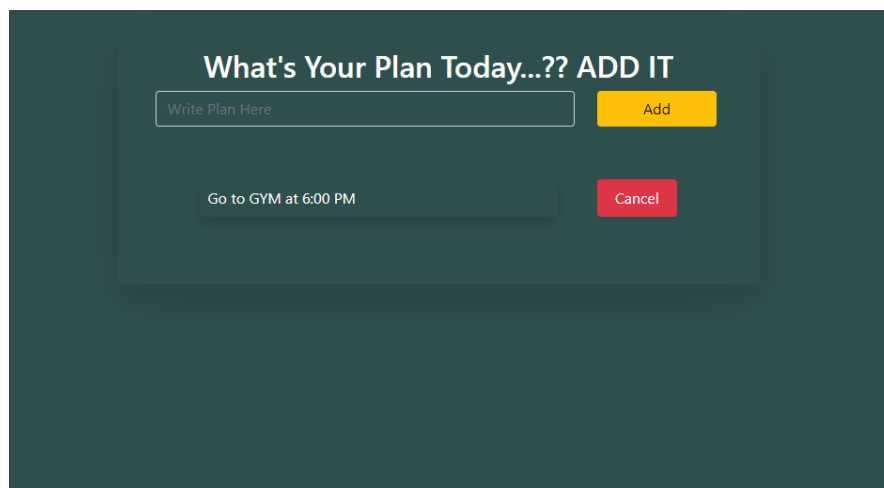1. When the user visits the web application he/she will land on the home page.

2. Then he/she will have to add a description about the task in the typing area and click to add to add that Task in the list.

3. When the particular task is done then the user can click on the Cancel button to delete or remove that task from the list.

Conclusion :

In short, it can be stated that the To-Do List web application developed with React is an effective solution for users to manage their tasks. Thanks to its user-friendly interface, strong functionality and responsive design, it improves productivity and organization. This project successfully accomplishes its goals and is a valuable task management tool. Ongoing maintenance and user feedback ensure its continued effectiveness and relevance, helping people stay organized and manage their responsibilities.

References :

Here are some effective references for a to-do list web application:

1. https://reactjs.org/
2. https://redux.js.org
3. https://developer.mozilla.org/en-US/docs/Web/CSS
4. https://github.com
5. https://www.google.com/