

Frontend Development with React.js

Project Documentation format

1. Introduction

- **Project Title:** FitFlex
- **Team Leader:** Mohammed Sharuke S - 12462cs22@princescience.in
- **Team member :** Sankar L – 12011cs22@princescience.in

Emmanuvel S – 12392cs22@princescience.in

Gowtham S – 12494cs22@princescience.in

Yuvaraj R – 12137cs22@princescience.in

2. Project Overview

- **Purpose:** Briefly describe the purpose and goals of the project.
- **Features:** Highlight the key features and functionalities of the frontend.

3. Architecture

- **Component Structure:** Outline the structure of major React components and how they interact.
- **State Management:** Describe the state management approach used (e.g., Context API, Redux).
- **Routing:** Explain the routing structure if using react-router or another routing library.

4. Setup Instructions

- **Prerequisites:** List software dependencies (e.g., Node.js).
- **Installation:** Provide a step-by-step guide to clone the repository, install dependencies, and configure environment variables.

5. Folder Structure

- **Client:** Describe the organization of the React application, including folders like components, pages, assets, etc.
- **Utilities:** Explain any helper functions, utility classes, or custom hooks used in the project.

6. Running the Application

- Provide commands to start the frontend server locally.
 - **Frontend:** npm start in the client directory.

7. Component Documentation

- **Key Components:** Document major components, their purpose, and any props they receive.
- **Reusable Components:** Detail any reusable components and their configurations.

8. State Management

- **Global State:** Describe global state management and how state flows across the application.

- **Local State:** Explain the handling of local states within components.

9. **User Interface**

- Provide screenshots or GIFs showcasing different UI features, such as pages, forms, or interactions.

10. **Styling**

- **CSS Frameworks/Libraries:** Describe any CSS frameworks, libraries, or pre-processors (e.g., Sass, Styled-Components) used.
- **Theming:** Explain if theming or custom design systems are implemented.

11. **Testing**

- **Testing Strategy:** Describe the testing approach for components, including unit, integration, and end-to-end testing (e.g., using Jest, React Testing Library).
- **Code Coverage:** Explain any tools or techniques used for ensuring adequate test coverage.

12. **Screenshots or Demo**

- Provide screenshots or a link to a demo showcasing the application's features and design.

13. **Known Issues**

- Document any known bugs or issues that users or developers should be aware of.

14. **Future Enhancements**

- Outline potential future features or improvements, such as new components, animations, or enhanced styling.