

Frontend Development with React.js

Project Documentation

1. INTRODUCTION

PROJECT TITLE : FitFlex: Your Personal Fitness companion
(React Application)

TEAM MEMBERS : **TEAM SIZE :** 4

TEAM LEADER – PHEBE BERYL.P

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ROLE – Team leader and frontend developer

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ROLE - UI/UX DESIGNER

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ROLE - State Management Specialist

TEAM MEMBER – MADHUMITHA.K

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ROLE - QA & Deployment Specialist

2..PROJECT OVERVIEW:

PURPOSE : Purpose _fitpal a mobile fitness application designed to help users track their workout, monitor, their progress, and achieve their fitness goals.

FEATURES : workout tracking and logging , customizable workout plans and routines.

3. ARCHITECTURE :

Component structure _app, navbar, dashboard , workoutlogger, workoutplanner.

State Management _homepage, workouts, plans.

4.SETUP INSTRUCTIONS:

Prerequisites _node, npm, react.

Installation _git clone <https://GitHub.com/username/fitpal.git>, cd fitpal,npm install,.env,npm start.

5.FOLDER STRUCTURE:

Client _components,pages, assets,utils,hooks.

Utilities _api.js:,auth.js:, storage.js:.

6. RUNNING THE APPLICATION :

React app

Html css,and javascript

Version control

Development environment

7. COMPONENTS DOCUMENTATION :

This folder stores all the small components used throughout the application.

Pages: This folder contains files that act as pages for different URLs within the app.

Styles: All the CSS styling files are stored in this folder

8. STATEMENT MANAGEMENT:

Financial Statement Management – Tracking revenue, expenses, and financial reports for the app.

User Activity Statements – Managing user workout history, progress tracking, and reports.

Database Statement Management – Handling API calls, queries, and data storage for exercises and users.

Project Statement Management – Managing documentation, milestones, and development progress.

9.user interface

1.navigation &layout

2.search & exploration

3.exercise details page

4.additional features

10. STYLING :

1. CSS Frameworks & Libraries

2. Styling Strategy

3. Global Styles (global.css)

4. Component-Specific Styling

5. Responsive Design
6. Adding Animation
7. Using Tailwind CSS (Alternative Approach)

11. TESTING :

Unit Testing

- Definition: Unit testing involves verifying that individual components (units) function as expected.
- Tools: Jest, React Testing Library
- Scope: Test individual components, functions, and modules
- Focus: Validate correctness, error handling, and edge cases.

12. SCREENSHOTS OR DEMO :

In this we provide a video format about the process of fitness app.

13. KNOWN ISSUES:

We are aware of the bugs and errors in this program that users and developers should be aware of.

14. Future Enhancements in Fitness App Development

Short-Term Enhancements (Next 3-6 months)

1. Personalized Workout Plans: Integrate AI-powered workout planning, considering user goals, fitness levels, and preferences.
2. Social Sharing: Allow users to share their progress, workouts, and achievements on social media platforms.
3. Gamification: Introduce rewards, challenges, and leaderboards to encourage user engagement and motivation.
4. Integrations with Wearable Devices: Expand compatibility with popular wearable devices, enabling seamless data syncing and tracking.
5. Enhanced Nutrition Planning: Provide personalized meal planning, considering users' dietary needs, preferences, and goals.
