Fit Flex – Frontend Documentation

1. Introduction

Project title: FitFlex

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2. Project Overview

Purpose:

Fit Flex is a fitness and lifestyle web application designed to help users track workouts, monitor progress, and stay motivated through an interactive user interface.

Features:

- User authentication (login/signup)
- Dashboard to view fitness stats
- Workout planner with add/edit/delete functionality
- Progress tracking with charts
- Responsive design for mobile and desktop

3. Architecture

Component Structure:

App.js, Navbar, Home, Dashboard, WorkoutPlanner, Profile, Footer

State Management:

Context API for global state, useState/useReducer for local states

Routing:

Implemented with react-router-dom; Routes: /, /login, /signup, /dashboard, /workout, /profile

4. Setup Instructions

Prerequisites: Node.js (>=18.x), npm (>=9.x)

Installation:

git clone [repository-link] cd fit-flex npm install

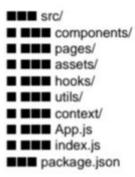
Environment Variables:

REACT_APP_API_URL=https://api.fitflex.com

5. Folder Structure

fit-flex/

■■■ public/



6. Running the Application

npm start
Runs the app in development mode at http://localhost:3000

7. Component Documentation

Key Components:

Navbar, WorkoutPlanner, Dashboard

Reusable Components:

Button, Modal

8. State Management

Global State: Context API

Local State: useState for form inputs, modals

9. User Interface

Responsive layout optimized for mobile and desktop. (Insert screenshots here)

10. Styling

CSS Frameworks/Libraries: Tailwind CSS

Theming: Custom theme with light/dark mode

11. Testing

Testing Strategy:

- Unit tests with Jest

- Component tests with React Testing Library
- E2E tests with Cypress

Code Coverage: jest --coverage

12. Screenshots or Demo

Add screenshots or hosted demo link (Netlify/Vercel).

13. Known Issues

- Mobile performance optimization needed
- Minor UI misalignment in workout cards

14. Future Enhancements

- Al-based personalized workout recommendations
- Gamification (badges, streaks)
- Social features (share progress)
- Integration with wearables