

Project Documentation

FitFlex: Your Personal Fitness Companion

1. Team overview

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Project Overview • Purpose:

To provide users with a personal fitness companion app that helps track workouts, view health tips, and build a healthy lifestyle.

• Features:

User-friendly design, workout tracking, and responsive interface.

2. Architecture

- Component Structure:

Major components include Header, WorkoutList, Tips, and Footer. Each component is modular and reusable.

- State Management:

Handled using React's useState hook for local state and props for data sharing between components.

3. Setup Instructions

- Prerequisites:

Node.js and npm must be installed.

- Installation:

Extract the project folder open in VS Code run npm install run npm start

4. Folder Structure

- Client:

Contains src/ folder with components, assets, and styles.

- Utilities:

Includes helper functions like hooks and reusable CSS.

5. Running the Application

Use the command: npm start in the project folder.

The app runs locally at http:// localhost:3000.

6. Component Documentation

- Key Components:

Header (navigation), Workout (exercise details), Footer (app info).

- Reusable Components:

Buttons and cards are reused across multiple pages

7. State Management

- Global State:

Not required since app is simple; React local state is enough.

- Local State:

useState manages form inputs, workout lists, and UI updates.

10. Styling

CSS Frameworks/Libraries:

Plain CSS and React's built-in styling.

- Theming:

Clean, minimal theme with focus on fitness and wellness.

11. Testing

- Testing Strategy:

Manual testing by running app on localhost and checking all components.

- Code Coverage:

Verified that all pages load correctly and interactions work.

13. Known Issues

Some warnings appear during compilation, but app still runs successfully.

Limited features compared to a fully deployed fitness app.

14. Future Enhancements

Add a BMI calculator and diet planner.
Implement user login system for personalized tracking.