Fitness app - Project Documentation

Introduction

Project Title: Fitness app

Team Members:

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Project Overview

Purpose: SEP

Fitness is a React.js-based fitness application designed to provide users with personalized workout routines, exercise tracking, and fitness guidance.

Features:

- Personalized workout plans
- Exercise tracking and progress monitoring
- Fitness guidance and recommendations
- Integration with RapidAPI for extensive exercise data
- User authentication

Architecture

Component Structure:

- **Header:** Navigation bar
- Dashboard: Personalized user dashboard
- Workout Planner: Exercise routines based on fitness goals
- Exercise Tracker: Logs user progress
- Guidance Section: Fitness tips and recommendations

State Management: SEP

Using Redux Toolkit

Routing: SEP

React Router with paths:

- Home (/)
- Workout Planner (/workout-planner)

- Exercise Tracker (/exercise-tracker)
- Guidance (/guidance)

Setup Instructions

Prerequisites:

- Node.js
- npm
- React.js
- Redux Toolkit

Installation:

- 1. Clone the repository:
- 2. git clone https://github.com/your-repo/fitness.git
- 3. Install dependencies:
- 4. npm install
- 5. Configure environment variables

Folder Structure

Running the Application

— README.md

To start the development serverhttps://github.com/jothish04/Fitness app.git npm start

Component Documentation

Key Components:

- WorkoutCard: Displays workout details
- ExerciseTracker: Logs and tracks workouts
- GuidanceFeed: Provides fitness tips

Reusable Components:

- **Button:** Customizable button component
- Loader: Loading animations

State Management

- Global State: Managed using Redux Toolkit
- Local State: Managed with React's useState

Styling

Using Tailwind CSS for a modern UI

Testing

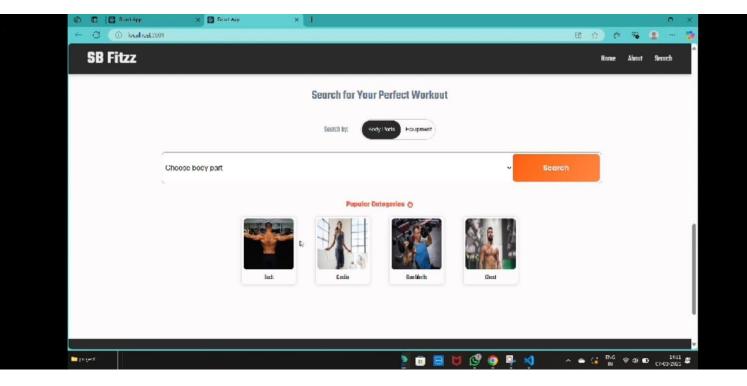
Testing Strategy:

- Unit Testing: Jest & React Testing Library
- Integration Testing: Cypress for end-to-end tests

Screenshot& Demo:

project demo link:VID-20250308-WA0010.mp4

screeneshot:



Known Issues

- API rate limits may affect exercise data retrieval.
- Dark mode support in progress.

Future Enhancements

- AI-based workout recommendations
- Integration with wearable fitness trackers
- Social features (leaderboards, challenges)