

# **Fitness app - Project Documentation**

## **Introduction**

**Project Title:** Fitness app

**Team Members:**

- P.Dharani(Team Leader)
- V.Lokesh(Team Member)
- M.Anbu(Team Member)
- B.Suvaitha(Team Member)

## **Project Overview**

**Purpose:**

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:

Using **Redux Toolkit**

## **Routing:**

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:

```
git clone https://github.com/your-repo/fitness.git
```

2. Install dependencies:

npm install

3. Configure environment variables

## Folder Structure

/fitflex

├── /src

| ├── /components

| ├── /pages

| ├── /redux

| ├── /utils

| └── /assets

└── package.json

|— README.md

## Running the Application

To start the development server: [GitHub - Suvaitha17/fitness\\_app](#)

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

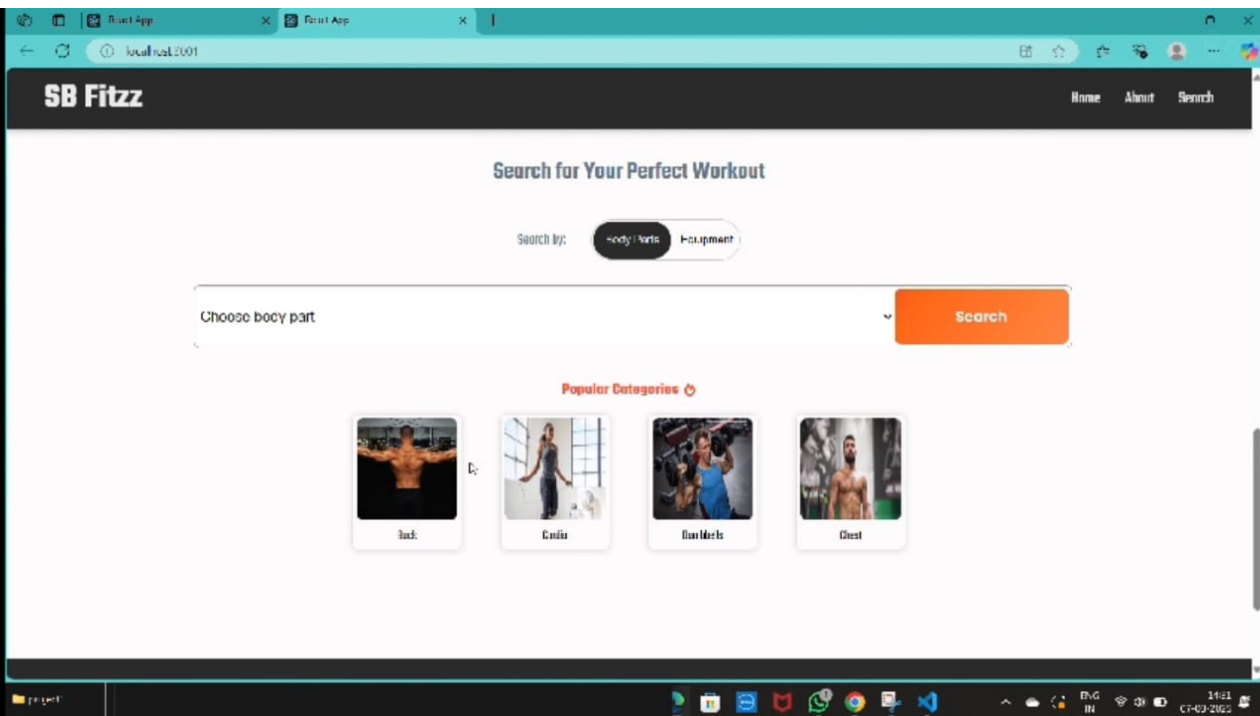
Testing Strategy:

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

**Screenshot& Demo:**

project demo link:[Naan Mudhalvan.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)