

# Project Documentation

## FitFlex: Your Personal Fitness Companion

### 1. Introduction

- Project Title: FitFlex - Your Personal Fitness Companion
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### 2. Project Overview

- Objective:

The overarching aim of FitFlex is to offer an accessible platform tailored for individuals passionate about fitness, exercise, and holistic well-being.
- Features:
  - Exercises from Fitness API
  - Visual Exercise Exploration
  - Intuitive and User-Friendly Design
  - Advanced Search Feature

### 3. Architecture

- Frontend: React.js with Bootstrap and Material UI
- Backend: Node.js and Express.js managing server logic and API endpoints
- Database: MongoDB stores user data, project information, applications, and chat messages

### 4. Setup Instructions

- Prerequisites:
  - Node.js
  - MongoDB
  - Git
  - React.js
  - Express.js
  - Mongoose
  - Visual Studio Code

### 5. Folder Structure

```
CODE/  
├ node_modules/  
├ public/  
├ src/  
│ ├── assets/  
│ ├── components/  
│ ├── pages/  
│ └ styles/
```

## 6. Running the Application

- **Frontend:**  
cd client  
npm start
- **Backend:**  
cd server npm  
start
- **Access:** Visit <http://localhost:3000>

## 7. API Documentation

- **User:**
  - /api/user/register
  - /api/user/login
- **Projects:**
  - /api/projects/create
  - /api/projects/:id
- **Applications:**
  - /api/apply
- **Chats:**
  - /api/chat/send
  - /api/chat/:userId

## 8. Authentication

- JWT-based authentication for secure login
- Middleware protects private routes

## 9. User Interface

- Landing Page
- Freelancer Dashboard
- Admin Panel
- Project Details Page

## 10. Testing

- Manual testing during milestones
- Tools: Postman, Chrome Dev Tools

## 11. Screenshots or Demo



Drive link of Demo Video:

[https://drive.google.com/file/d/1hNmSbKiM70QOm7c3-2K8e4DwMDrE1\\_W9/view](https://drive.google.com/file/d/1hNmSbKiM70QOm7c3-2K8e4DwMDrE1_W9/view)

## 12. Known Issues:

Some API problems occur, some images are not loading.

## 13. Future Enhancements:

The known issues will be fixed in future.