

Project Documentation

FitFlex

1. Introduction

- Project Title: FitFlex
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2. Project Overview

- 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

```
FitFlex/  
├ 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**

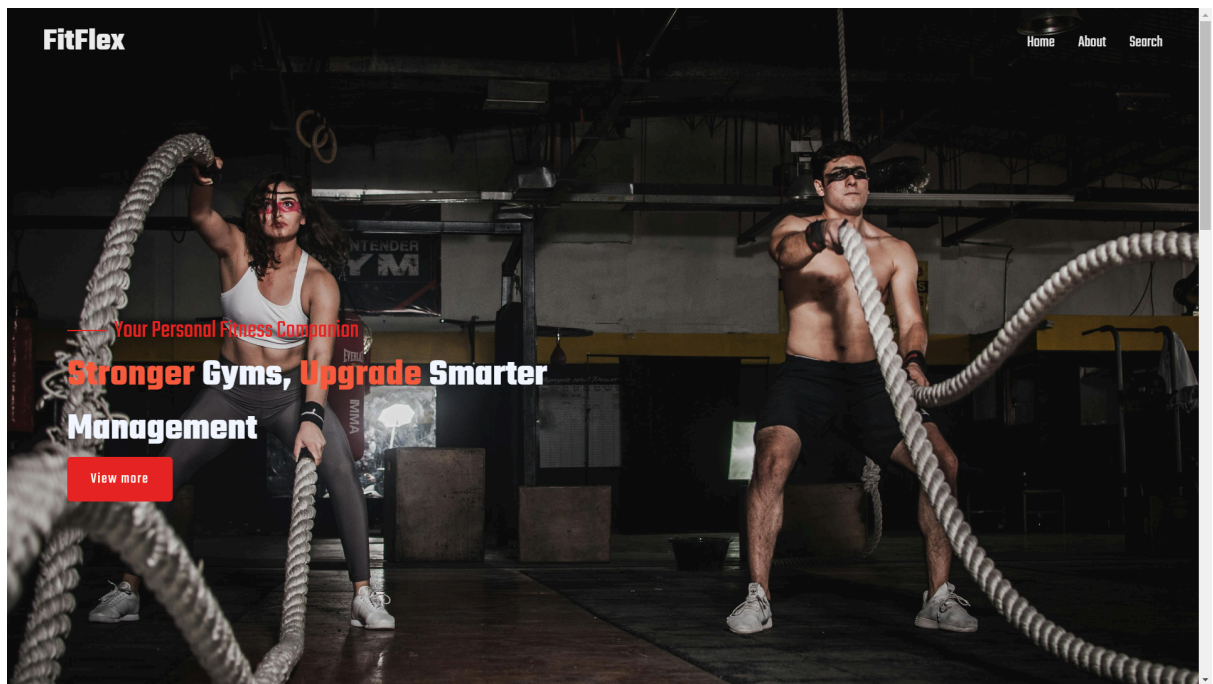
9. User Interface

- **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: [🔥 FitFlex Demo Video.mp4](#)

12. Known Issues:

Some API problems occur, some images are not loading.

13. Future Enhancements:

The known issues will be fixed in future.