PROJECT DOCUMENTATION

Project title

1. INTRODUCTION

. Project title: Fitflex : Your personal fitness   Companion.

. Team I'd : NM2025TMID47668

. Team leader :

 Name: P. Karunya
 Email:karunyapalanisamy137@gamil.com

. Team members :

 Name : J. Iniya
 Email: iniyajayaselkumar@gmail.com

 Name : A. Vinciya prabanjalin
 Email:iniya5281@gmail.com

 Name: S. Anushka
 Email:anushkasoundarajan@gmail.com

2. Project overview

. Purpose: SB works connect clients and freelancers through project postings, bidding and real-time communication.

. Features

 . Project posting and bidding

 . Secure chat system

 . Feedback and review system

 . Admin control panel

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

Installation Steps:
  # Clone the repository git clone
  # Install client dependencies cd
  client npm install
  # Install server dependencies cd
  ../server npm install

5. Folder Structure
    SB-Works/
    |-- client/ # React frontend
    |__components/
    L__ pages/
    |__ server/ # Node.js backend
    |__routes/
    |__ models/
    |__ controllers/

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
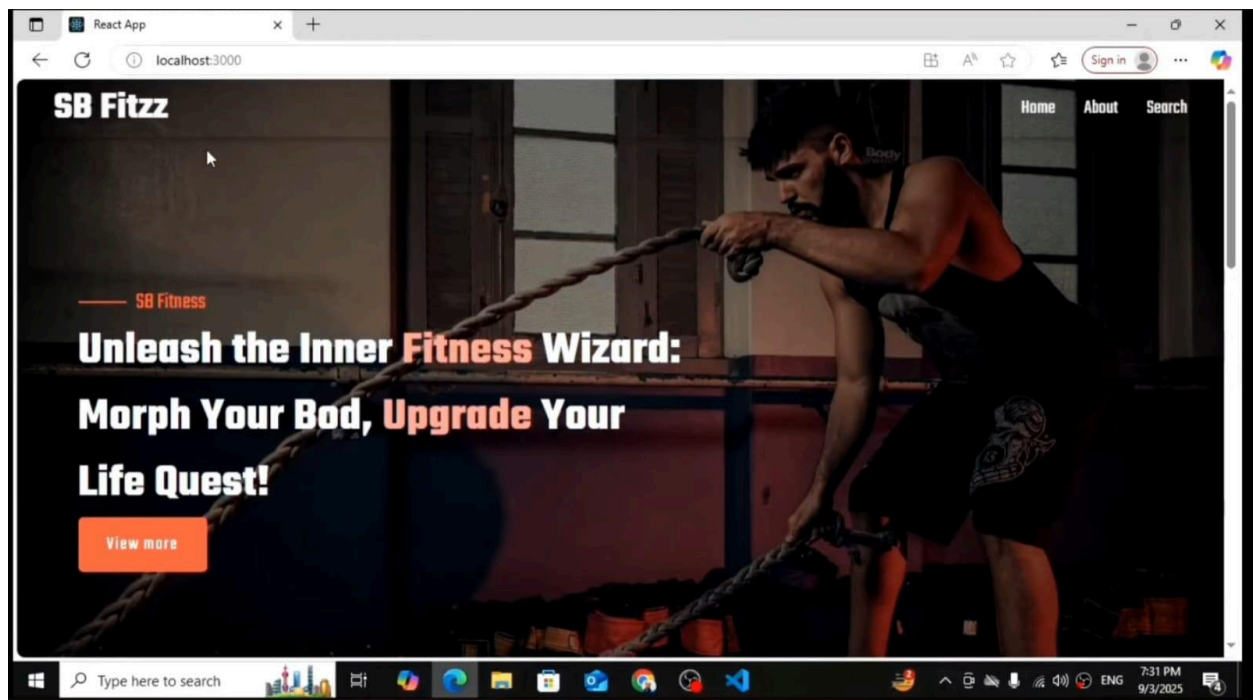• Middleware protects private routes

9. User Interface

• Landing Page
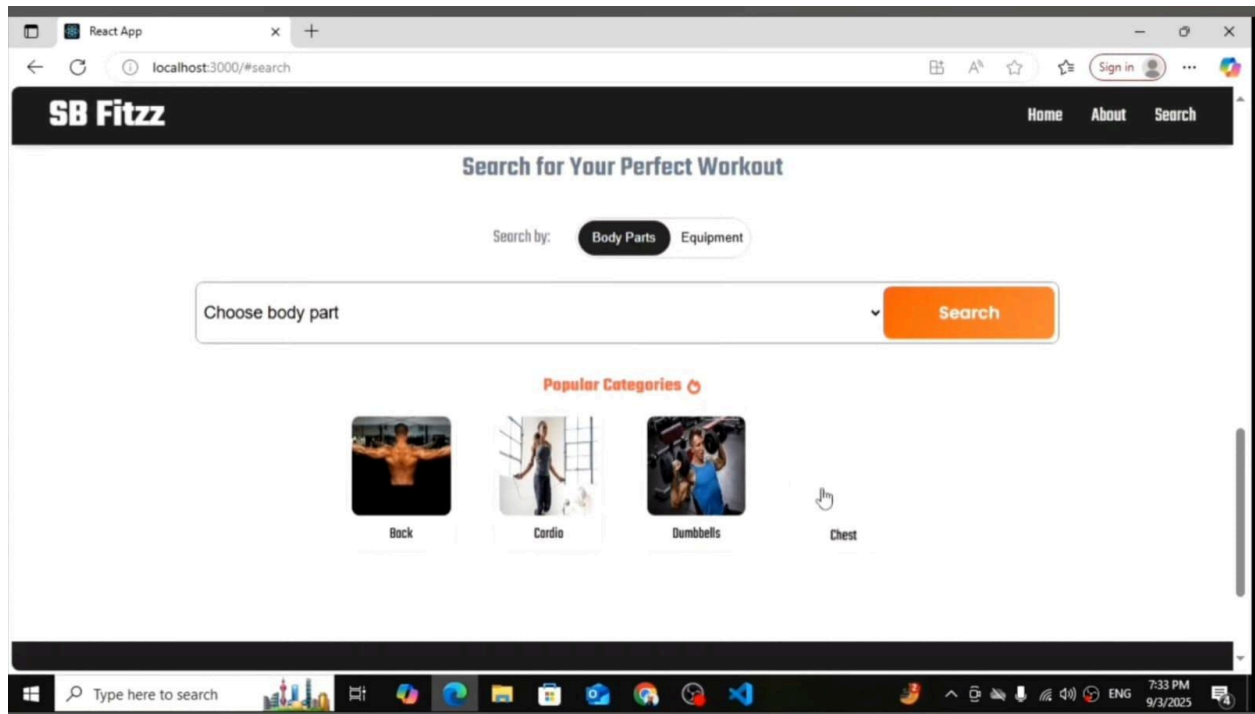• Freelancer Dashboard
• Admin Panel
• Project Details Page
10. Testing

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

11. Screenshots or Demo

12. Known Issues

13. Future Enhancements