Project Documentation

Project Title

1. Introduction

• Project Title: FitFlex

• Team ID:NM2025TMID42588

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2. Project Overview

• **Purpose:** SB Works connects 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
```

Folder Structure

../server npm install

5.

```
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