

# 1. Introduction

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

- **Purpose:**

SB Works connects clients and freelancers through project postings, bidding, and real-time communication. It aims to simplify freelancing by providing a transparent and secure platform.
  - **Features:**
    - Project posting and bidding
    - Secure chat system
    - Feedback and review system
    - Admin control panel
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## 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
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## 4. Setup Instructions

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

### Installation Steps:

```
# Clone the repository
git clone https://github.com/your-repo/sb-works.git
```

```
# Install client dependencies
cd client
npm install
```

```
# Install server dependencies
cd ../server
npm install
```

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## 5. Folder Structure

```
SB-Works/
|-- client/      # React frontend
```

```
|   └─ components/
|   └─ pages/
|
|-- server/           # Node.js backend
|   └─ routes/
|   └─ models/
|   └─ controllers/
```

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## 6. Running the Application

**Frontend:**

```
cd client
npm start
```

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**Backend:**

```
cd server
npm start
```

- - **Access:** Visit <http://localhost:3000>
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## 7. API Documentation

- **User:**
  - POST /api/user/register
  - POST /api/user/login
- **Projects:**
  - POST /api/projects/create
  - GET /api/projects/:id

- **Applications:**
    - `POST /api/apply`
  - **Chats:**
    - `POST /api/chat/send`
    - `GET /api/chat/:userId`
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## 8. Authentication

- JWT-based authentication for secure login
  - Middleware protects private routes
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## 9. User Interface

- Landing Page
  - Freelancer Dashboard
  - Admin Panel
  - Project Details Page
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## 10. Testing

- Manual testing during milestones
  - **Tools:** Postman, Chrome Dev Tools
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## 11. Screenshots or Demo

demo:[watch link](#)

Source code :[code](#)

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## 12. Known Issues

- Limited error handling for failed chat delivery
  - No integrated payment gateway yet
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## 13. Future Enhancements

- Add integrated payment system
- AI-based freelancer recommendation
- Mobile app support
- Advanced analytics dashboard