Project Documentation

1.Introduction

**Project Title:** Fitfex(gym)

Team ID : NM2025TMID41789

Team Size : 4

Team Leader : GOPINATH L

Team member : AJAY CHANDRAN C

Team member : AMARNATH D S

Team member : EBENEZER P

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 (API endpoints and server logic)

**Database:** MongoDB (user data, project info, applications, 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 <repository-url>

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# Install client dependencies

cd client

npm install

# Install server dependencies

cd ../server

npm install

5. Folder Structure

SB-Works/

├── client/ # React frontend

│ ├── components/

│ └── 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:**

POST /api/user/register

POST /api/user/login

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**Projects:**

POST /api/projects/create

GET /api/projects/:id

**Applications:**

POST /api/apply

**Chats:**

POST /api/chat/send

GET /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.Demo

https://drive.google.com/file/d/1mAONhVhJKXghx7zIss1OTv1q2Ik5UweZ/view?usp=drivesdk

12. Known Issues

*(List any known issues here)*

13. Future Enhancements

*(List planned features or improvements here)* documentation.md 2025-09-17

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