

# Project Documentation

## Fitflex-Your Personal fitness Companion

### 1. Introduction Project Title: Fitflex- your personal fitness companion

- Team Leader: Mukesh S
- Team Members: Mugeswaran S
- Team Members: Premkumar S
- Team Members: Chandru 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 managing server logic and API endpoints  
Database: MongoDB stores user data, project information, applications, and chat messages

### 4. Setup Instruction

- Prerequisites:
  - Node.js
  - Mongo DB
  - 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
```

## 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

### • 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