# **Project Documentation**

## Full Stack Development with MERN

#### 1. Introduction

• Project Title: Freelancing Platform

• Team Leader: Medara Akshitha

• Team Members:

- Lingamgunta Arjun
- Lingala Pujitha
- Lakkimsetty Nandini

### 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 https://github.com/YOUR_USERNAME/SB-Works.git
cd SB-Works

# 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

• Demo Video: https://drive.google.com/file/d/1erdcudF8D00QyHEf0aMKioTAqWa2AjDb/view?usp=sharing

#### 12. Known Issues

- Minor bugs in chat feature
- Admin page styling incomplete

## 13. Future Enhancements

- Add payment gateway integration
- $\bullet$  Implement ratings and reviews
- $\bullet\,$  Enable real-time messaging with Socket.io