

# Full Stack Development with MERN

## Project Documentation Format

### 1. Introduction

- Project Title: Freelancing Platform - SB Works
- Team Members:
  - Medara Akshitha
  - Lingala Pujitha
  - Lakkimsetty Nandini
  - Lingamgunta Arjun

### 2. Project Overview

- Purpose: Describe the purpose and goals of SB Works - a platform connecting clients with freelancers.
- Features: Highlight key features like project posting, bidding, secure chat, feedback system, and admin management.

### 3. Architecture

- Frontend: Built using React.js with libraries like Bootstrap and Material UI.
- Backend: Node.js and Express.js manage server-side logic and RESTful APIs.
- Database: MongoDB for storing user, project, application, and chat data.

### 4. Setup Instructions

- Prerequisites: Node.js, MongoDB, Git, React.js, Express.js, Mongoose, Visual Studio Code.
- Installation:
  1. Clone the project from the provided Drive link.

2. Run ``npm install`` in both ``client`` and ``server`` directories.
3. Run ``npm start`` to launch the development servers.

## 5. Folder Structure

- Client: React app components for dashboard, login, projects, etc.
- Server: Node.js/Express APIs, routes, and Mongoose models.

## 6. Running the Application

- Frontend:

`cd client`

`npm start`

- Backend:

`cd server`

`npm start`

## 7. API Documentation

- Endpoints for user registration, login, project creation, applications, chats.
- Include methods, parameters, and sample responses.

## 8. Authentication

- JWT-based authentication for login and route protection.
- Tokens managed using middleware.

## 9. User Interface

- Include screenshots of:
  - Landing Page
  - Freelancer Dashboard

- Admin Panel
- Project Details Page

10. Testing

- Manual testing during milestones.
- Testing tools (optional): Postman, Browser Dev Tools.

11. Screenshots or Demo

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

12. Known Issues

- Document any existing bugs or features pending.

13. Future Enhancements

- Add secure payment gateway.
- Add rating and review system for freelancers.
- Improve real-time messaging with socket.io.