

# Full Stack Development with MERN

## 1. Introduction

- Project Title: [Your Project Title]
- Team Members: List team members and their roles.

## 2. Project Overview

- Purpose: Briefly describe the purpose and goals of the project.
- Features: Highlight key features and functionalities.

## 3. Architecture

- Frontend: Describe the frontend architecture using React.
- Backend: Outline the backend architecture using Node.js and Express.js.
- Database: Detail the database schema and interactions with MongoDB.

## 4. Setup Instructions

- Prerequisites: List software dependencies (e.g., Node.js, MongoDB).
- Installation: Step-by-step guide to clone, install dependencies, and set up the environment variables.

## 5. Folder Structure

- Client: Describe the structure of the React frontend.
- Server: Explain the organization of the Node.js backend.

## 6. Running the Application

- Provide commands to start the frontend and backend servers locally.
  - o Frontend: npm start in the client directory.
  - o Backend: npm start in the server directory.

## 7. API Documentation

- Document all endpoints exposed by the backend.
- Include request methods, parameters, and example responses.

## 8. Authentication

- Explain how authentication and authorization are handled in the project.
- Include details about tokens, sessions, or any other methods used.

## **9. User Interface**

- Provide screenshots or GIFs showcasing different UI features.

## **10. Testing**

- Describe the testing strategy and tools used.

## **11. Screenshots or Demo**

- Provide screenshots or a link to a demo to showcase the application.

## **12. Known Issues**

- Document any known bugs or issues that users or developers should be aware of.

## **13. Future Enhancements**

- Outline potential future features or improvements that could be made to the project.