Full Stack Development with MERN

Project Documentation format

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.