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.
  - **Frontend:** `npm start` in the client directory.
  - **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.