User Feedback System Assignment

In this assignment, you are required to develop a user feedback system. The project will assess your full-stack development skills, including backend development with Node.js, frontend development with React, and data management with a database like MongoDB or PostgreSQL.

Objectives

1. Collect user feedback through a simple frontend form.

2. Store feedback securely in a database.

3. Display collected feedback in a dashboard with filtering and sorting options.

4. Ensure scalability, responsiveness, and clean code structure.

Requirements

1. **Backend**: Use Node.js and Express.js to handle feedback submission and retrieval. The backend should include the following APIs:

   - POST /feedback: To submit user feedback.

   - GET /feedback: To fetch feedback data for the dashboard.

2. **Frontend**: Create a React-based user interface with the following features:

   - A form for submitting user feedback.

   - A dashboard to display feedback with options to filter and sort the data.

3. **Database**: Use MongoDB or PostgreSQL to store feedback data. The data model should include fields like:

   - User name

   - Email

   - Feedback text

   - Timestamp

4. **Optional**: Add functionality to categorize feedback (e.g., suggestion, bug report, feature request).

Deliverables

1. Source code for the frontend and backend.

2. README file with instructions on how to run the application locally.

3. A brief document explaining the architecture and flow of the application.

Evaluation Criteria

1. Code Quality: Readability, maintainability, and adherence to coding standards.

2. Functionality: Implementation of the required features.

3. User Experience: Design and usability of the frontend interface.

4. Scalability: The ability of the backend to handle multiple submissions simultaneously.

5. Innovation: Bonus points for additional features such as categorization or analytics.

Submission Guidelines

1. Share the project code via a GitHub repository (ensure the repository is public or accessible).

2. Include a clear README file with instructions to run the project.

3. Submit the repository link via email or as per the instructions provided.