Vision

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1 Overview

This project is a web application designed to help users track the books they have read, rate and review them, and engage in discussions with other users. The application also features a leveling system, where users gain levels based on the number of books they have read. The system consists of the following microservices :

- **Login/Signup and Friendship System:** Handles user authentication, authorization, and friend connections.
- **Moderation, Chat, and Notifications:** Ensures a safe community by providing content moderation, real-time chat, and notifications.
- **Leveling System:** Tracks user reading progress and assigns levels based on books read.

2 Problem Statement

Many book lovers struggle to keep track of their reading history and share their experiences with like-minded individuals. Existing solutions often lack social interaction features or gamification elements to encourage engagement. This application aims to solve these problems by providing a user-friendly platform for tracking books, reviewing them, and interacting with others.

3 Objectives

3.1 Security and Privacy

- Users' passwords will be encrypted and stored securely.
- Sensitive data will be protected using modern encryption techniques.
- Authentication will be based on JWT tokens, ensuring secure access.

3.2 Scalability

- The system will be built using a microservices architecture for scalability.
- Each component can be scaled independently.

3.3 User Engagement

- Users can add books, rate them, and leave reviews.
- Discussions and private messaging features enable community interactions.
- A leveling system provides motivation for users to read more books.

3.4 Moderation

- Moderators will have privileges to remove inappropriate content and block users who violate guidelines.
- Our goal is to provide all users with a safe and inclusive space to share their love for books.

4 Target Audience

The application is designed for a wide range of users:

- Casual readers who want to track their books and share opinions.
- Avid book enthusiasts looking to discuss literature.
- Book clubs and reading communities.

5 Goals and Requirements

5.1 Main Goals

- Provide a secure and intuitive user authentication system.
- Allow users to track books they have read.
- Enable users to rate and review books.
- Support social interactions through discussions and chats.
- Implement a leveling system to encourage reading.

5.2 Technical Requirements

- Authentication using JWT for secure user access.
- Backend built with Java Spring Boot for scalability.
- Frontend implemented using Angular for a responsive experience.
- Database optimized for fast retrieval of user and book data.

6 Benefits of the Application

- **User-Friendly:** The interface is intuitive for all users.
- **Encourages Reading:** The leveling system motivates users to read more books.
- **Community-Oriented:** Discussion features foster engagement and interactions.
- **Secure:** User data is encrypted and protected.

7 Conclusion

This web application provides an engaging and secure platform for book lovers to track their reading, share insights, and interact with a like-minded community. The scalable architecture ensures that the platform can grow with its user base while maintaining performance and security.