Software Requirements

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Functional Requirements

Authentication

- Users must be able to register and log in securely.

- Passwords will be encrypted before storage.

- Authentication will be handled using JWT tokens.

User Roles

- The system will manage two roles: normal user and moderator.

- Moderators will have additional privileges for content moderation.

Book Tracking

- Users can add books they have read to their personal library.

- Books can be marked as "reading," or "completed,".

Reviews and Ratings

- Users can rate books on a scale of 1 to 5.

- Users can write reviews for books they have read.

- Other users can view the reviews.

Discussion and Social Features

- Users can create discussion topics related to books.

- Users can participate in discussions and reply to other comments.

- Private messaging allows users to chat with friends.

Friendship System

- Users can send and receive friend requests.

- Users can view books and reviews shared by their friends.

Leveling System

- Users earn levels based on the number of books they have read.

- Higher levels unlock special achievements or badges.

Moderation

- Moderators can delete inappropriate reviews, posts, or comments.

- Moderators can block or unblock users who violate community guidelines.

Non-Functional Requirements

Scalability

- The system must support a large number of concurrent users.

- The architecture should allow horizontal scaling.

Security

- Passwords must be securely encrypted using modern hashing techniques.

- JWT tokens will be used for authentication and authorization.

- User data will be protected against unauthorized access.

Performance

- The system must provide a fast and responsive user experience.

- Page load times and API response times should be minimized to ensure smooth interactions.