Book Club Project

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Introduction/ Overview

In today's world there is:

❖ A lack of well-organized online book clubs
❖ No good way to find good books with solid reviews
❖ Limitations in meeting new readers online

We want to change this.

Project Description

Project: Online book club

❖ Club can be setup by registered users

❖ Within the club, users are able to connect with others to read, set goals, and converse about books

❖ There is currently a lack of good book club software

❖ This product fills a need in the industry

Functional Requirements

❖ Allow users to sign up with email, Google, or social media accounts
❖ Users are able to create private/public book clubs
❖ Friends can be added/removed
❖ Ability to set club moderators for club structure
❖ Books are able to be purchased/rented through the app
❖ Book recommendations are made based on friends' recent reads
❖ Club moderators can set goals for the club to reach by certain date
❖ Users can highlight, bookmark, or make notes on pages
❖ Location based feature to find local in-person book clubs
❖ Review book section for readers to leave their comments

Plus more!

Non-functional Requirements

❖ **Scalable**: Application should be scalable and support large number of users/clubs

❖ **Cross-Platform**: Users have the ability to use application on different browsers (Google, Firefox, Bing, etc.)

❖ **Security**: MFA is implemented to protect privacy and data

❖ **Availability**: App will have access to several different languages to meet all user needs

❖ **Usability**: Design should be user-friendly to all users (access for disabilities, etc.)

❖ **Performance**: All books and features should load within 5 seconds

❖ **Data Backup**: Site should implement regular backups bi-daily to prevent data loss

Responsibilities

1. **Project Lead: Jaden Song**
   - Oversees project timeline and member workshare
2. **Research and Diagrams: Amanda Wei**
   - Responsible for necessary research about project needs and diagramming user needs
3. **UI/UX Designer: Sierra Cumbee**
   - Design project site flow and functionality
4. **Front-End Developer: Ty Robertson**
   - Develops and implements front-end of application for best user flow/experience
5. **Back-End Developer: Ben Clemons**
   - Develops back-end of application, including all user accounts and account data
6. **Security and System Architecture: Skylar Mayfield**
   - Tasked with testing for security vulnerabilities and oversees system design

Potential Challenges

01.   Supporting app with large number of concurrent users at all times
    a.   User chat, online book downloads, new accounts

02.   Funding for Project
    a.   Maintaining servers, etc.

03.   Feasibility of complicated features
    a.   Location information, 3rd-party purchasing ability

Strategies to Address Challenges

01. Project management and planning
    a. Plan for large user base and use scalable technologies
    b. AWS would be great consideration

02. Keep costs maintainable
    a. Stay flexible about which resources are used

03. Research technologies capable of handling all functionality
    a. Tech stack including React, Next.js, etc. brings modern capabilities and allows for more complex features

Questions?