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| BookClub | | | | |
|  |  | | |  |
| Technical Documentation | | | | |
| Abishekh Manoharan |  | | |  |

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# Project Overview

## Business Need

As society tends towards the direction of short-from, instantly gratifying media, an increasing number of people are discovering the negative effects it has on their emotional and mental well-being. As a result, many individuals are looking towards alternative pastimes. Reading is among the most popular alternatives. Though, many may find it difficult to attain reading habits and resort to joining book clubs to enrich their reading experience and make the activity more attractive. For these individuals, a centralized platform for all their book club activities would be highly beneficial.

## Product Description

BookClub aims to help individuals create, join, and manage book clubs and their activities. Users can create clubs, invite members, find books to read from a vast database, vote on books to read, set progress expectations, update their progress, track book progress, take part in discussions, and plan meetings. Users will be able to take part in numerous clubs and manage the activities of each one individually.

## Key Features

Account Holders

* Users can create, join, and use book club instances
* Users can customize their profile to show their name, bio, favorite books, associated club
* Book club members browse through a database of books

Members

* Book club members can leave club instances
* Book club members can view joined clubs
* Book club members can vote on what book to read
* Book club members can track and update their book progress
* Book club members can opt out of a book if they desire
* Book club members can write private or public notes
* Book club members can create and take part in discussion boards

Admin

* Users can invite other users to the book club
* Book club administrators can initiate readings
* Book club administrators can configure book club instance details
* Book club administrators can give administrative privileges to other members of the group
* Book club administrators can initiate polls
* Book club administrators can add books to a backlog
* Book club administrators can set meeting dates and book progression expectations
* Book club administrators of private clubs can accept or deny join requests

# Users

## Personas

**Book Club Account Holder:** users with an account but are not members of any clubs.

**Book Club Member:** users with an account who are members of one or more clubs. They include all the functionalities of book club account holders.

**Book Club Member (Admin.):** users with an account who are members of one or more clubs and have admin privileges for at least one club. They include all the functionalities of book club account holders and regular book club members.

## **Book Club Account Holder**

### **User Stories and Acceptance Test**

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| --- |
| Create Book Club |
| As a book club account holder, I can create a book club instance |
| Acceptance Tests |
| Book club instance gets created and stored to database |
| New book club instance is shown on dashboard, in admin-clubs section |
| Book club instance is stored with a unique identifier |
| Book club gets stored with the same configuration as specified during creation |
| Creator of book club gets administrator flag in list of members |

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| Search for Book Club to Join |
| As a book club account holder, I can search for a book club to join |
| Acceptance Tests |
| Search returns results for each update |
| Search results are accurate and relevant |
| Search results display relevant information (name, creator) |

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| Join Book Club |
| As a book club account holder, I can join a book club instance |
| Acceptance Tests |
| If club is private, a request is sent to book club administrator |
| If club is public, the user gets added to the book club’s member list |
| Club is shown on dashboard, in member-clubs section |
| User does not have administrative flag in list of members |
| Club is shown on list of clubs on user profile |

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| Customize Profile |
| As a book club account holder, I can customize my profile |
| Acceptance Tests |
| Updates are reflected in database |
| Updates are reflected in profile view |

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| Browse books |
| As a book club account holder, I can browse through the book database to either choose a book for club reading or to include the book as part of my favourite books list |
| Acceptance Tests |
| Typing in search bar shows results – data is returned from API and displayed for every character typed |
| Data is sorted by relevance |

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| View Dashboard |
| As a book club account holder, I can view a dashboard consisting of updates and recommendations |
| Acceptance Tests |
| Updates are displayed in order of date |
| Dashboard updates with new updates |

### **Low Fidelity Prototype**

## **Book Club Member**

### **User Stories and Acceptance Test**

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| --- |
| View Joined Book Clubs |
| As a book club member, I can view all my book club instances categorized by administrative privilege |
| Acceptance Tests |
| All clubs associated with the user are displayed on the dashboard |
| Clubs with administrative privilege are displayed in appropriate section |
| Clubs without administrative privilege are displayed in appropriate section |
| Displayed club details are correct |

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| Leave Book Club |
| As a book club member, I can leave a book club instance |
| Acceptance Tests |
| Choosing to leave removes user from club’s member list |
| If club was private, user will be unable to see the club details |
| Club won’t be displayed on dashboard |
| Club won’t be displayed on user profile |

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| --- |
| View Book Club Instance |
| As a book club member, I can view club details of public clubs and private clubs (if i am a member) |
| Acceptance Tests |
| If club is private or public, user can view details |
| User can see every property: e.g. name, description, meetings, discussion boards, notes list, readings, member progress |

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| --- |
| Add books to recommendations page for a book club instance |
| As a book club member, I can add books to a recommendations page, which consists of books that may be included in polls for the next reading |
| Acceptance Tests |
| User can only vote once |
| User gets notified about polls |
| User’s vote submission leads to related change in poll status |

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| --- |
| Vote on books to read |
| As a book club member, I can partake in polls to decide on what books the club will be reading |
| Acceptance Tests |
| User can only vote once |
| User gets notified about polls |
| User’s vote submission leads to related change in poll status |
| Poll outcomes/status is shown to all book club members |

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| --- |
| Track and update book progress |
| As a book club member, I can update my book progress so that I and other club members can view my progress. |
| Acceptance Tests |
| Progress gets updated as specified |
| Progress starts at 0% |
| Various progress measurements can be used (percent, pages, chapter, etc.) |

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| Opt in or out of a reading |
| As a book club member, I can opt to be an active member of the current reading or to indicate that I'm not taking part |
| Acceptance Tests |
| If opted in, user is included in member page of the current reading |
| If opted out, user is not included in member page of the current reading |
| If opted out, user cannot engage in reading activities (updating progress, discussions, etc.) |

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| Take part in discussion boards |
| As a book club member, I can partake in discussion boards |
| Acceptance Tests |
| User can create, edit, or delete threads and updates are reflected on the UI and in the database |
| Edited threads display “edited” notice |
| Ability to reply to existing posts |
| Ability to sort and filter threads as needed |

### **Low Fidelity Prototype**

*Note: The above low fidelity prototype is meant to highlight the additional viewports available to a book club member in addition to the viewports of the account holder.*

## **Book Club Member (Admin.)**

### **User Stories and Acceptance Tests**

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| --- |
| Invite members to book club |
| As a book club admin, I can invite other BookClub users to the club |
| Acceptance Tests |
| Inviting a user creates an invitation object associated with the user and club instance |
| Cancelling a request removes the invitation object associated with the user and club instance |
| Inviting a user displays an invite request to the invited user |
| Deleting an invite removes the displayed invite request |

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| --- |
| Initiate polls |
| As a book club admin, I can initiate polls that will help decide the books to use for readings |
| Acceptance Tests |
| Polls can be created with a set of book options |
| Poll deadline can be set |
| Poll concludes and is no longer accessible at deadline |
| Poll outcomes/status is shown to all book club members |

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| --- |
| Initiate readings |
| As a book club admin, I can initiate readings |
| Acceptance Tests |
| Reading instance is created with specified configurations |
| Members get notified on new reading (so they may opt in) |
| Initiating a reading creates a new reading object |

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| Conclude readings |
| As a book club admin, I can conclude readings |
| Acceptance Tests |
| Reading instance is marked as concluded in database |
| Reading instance is marked as concluded on the reading UI. |

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| --- |
| Configure book club, readings details |
| As a book club admin, I can configure and update book club or reading details. I can update things like:   * Reading club and names * Reading meeting times * Reading book * Reading expectations |
| Acceptance Tests |
| Updates are reflected in database and in UI |

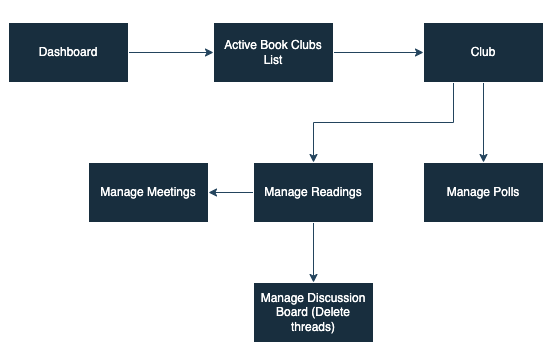
|  |
| --- |
| Give administrative privileges to other members of the club |
| As a book club admin, I can give administrative privileges to other members of the club |
| Acceptance Tests |
| Non-administrative members don’t have access to unauthorized content |
| Once given privileges, members have access to the authorized content |
| All club members are displayed on choosing screen |

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| --- |
| Accept/Deny join requests |
| As a book club admin, I can accept or deny club join requests. |
| Acceptance Tests |
| Requests don’t come if invited member joins |
| All requests are displayed |
| Denied requests are no longer displayed |
| Accepting a request adds user to club member table |
| Denying a request doesn’t add user to club member table |
| Handled requests are removed from the requests table |

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| --- |
| Delete Discussion Board Threads |
| As a book club admin, I can delete discussion board threads (for example if a message breaks club rules) |
| Acceptance Tests |
| Requests don’t come if invited member joins |
| All requests are displayed |
| Denied requests are no longer displayed |
| Accepting a request adds user to club member table |
| Denying a request doesn’t add user to club member table |
| Handled requests are removed from the requests table |

### 

### **Low Fidelity Prototype**



*Note: The above low fidelity prototype is meant to highlight the additional viewports available to a book club administrator in addition to the viewports of the account holder and the book club member.*

# Paper Prototypes

## Home Screen (All Users)

# Technical Diagrams

## Software Architecture Overview

## Entity Relationship Diagram

## Sequence diagrams