

Reading platform based on Bookmate



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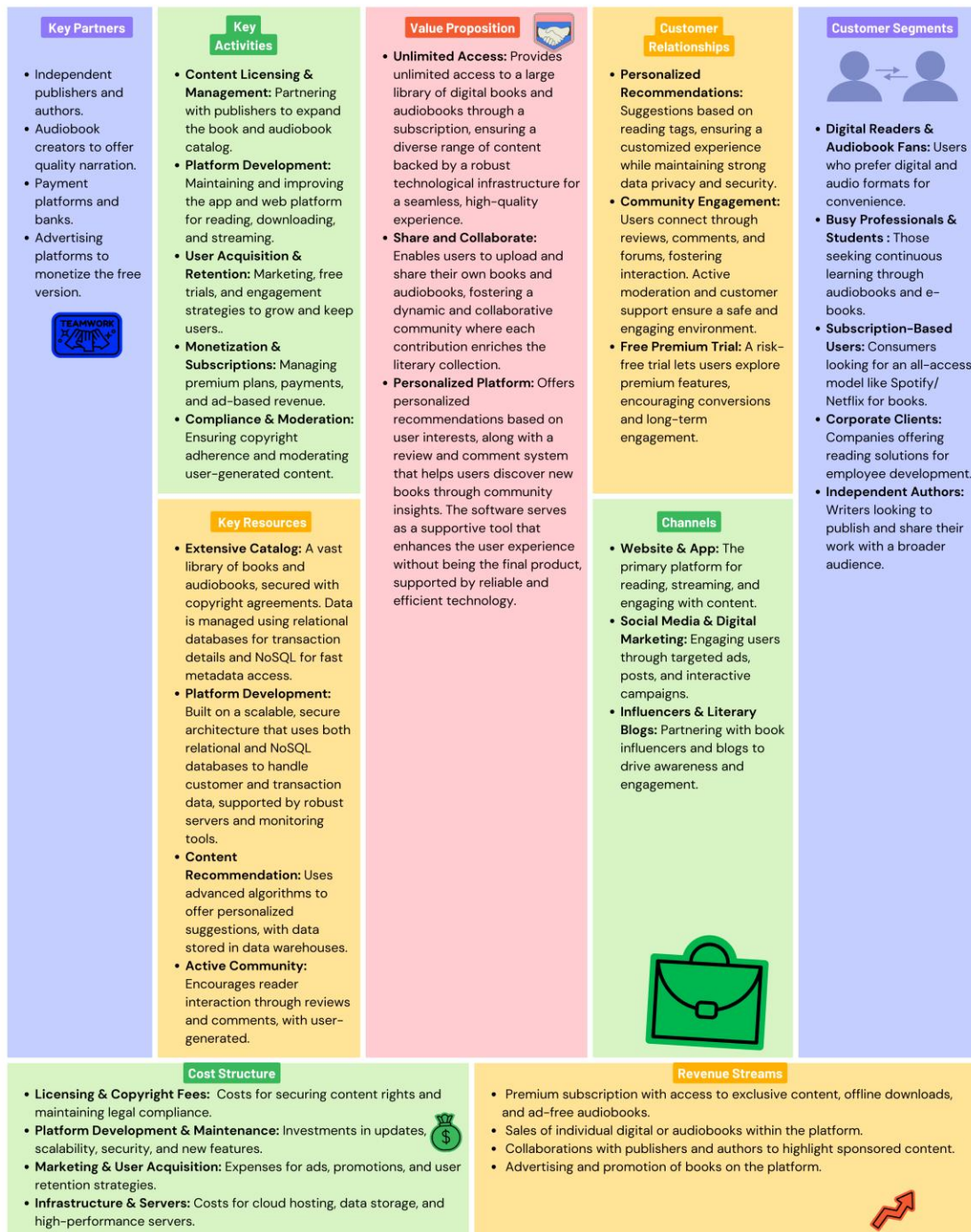
Databases 2

Bogotá, 2025

Business Model

Reading platform based on Bookmate

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In the following link you can see the Canva Model diagram: [Business model - Bookmate](#)

Functional Requirement

1. Audiobooks and reading module:

Code	Requirement
FR-1.1	The system must allow book and audiobook searching by title, author, or genre using a search engine with combinable filters.
FR-1.2	The system must offer an online reading viewer that loads the text without prior download and quick page turning.
FR-1.3	The system must enable pause, fast-forward, and rewind controls for streaming audiobook playback, ensuring seamless continuity.
FR-1.4	The system must allow downloading complete books and audiobooks for offline reading and listening, storing them locally with space management.
FR-1.5	The reading viewer should allow users to adjust the font size and background theme (light/dark, sepia, etc.) to improve the reading experience.

2. Reviews, favorites and comments:

Code	Requirement
FR-2.1	The system should allow users to rate books and audiobooks using a star system (1-5).
FR-2.2	The system should allow users to write reviews associated with each title and allow editing and deletion if necessary.
FR-2.3	The system must display the list of existing reviews for the user to see and decide whether to read or listen to a title.
FR-2.4	The system must allow titles to be marked as favorites and display a personal list of favorites accessible from the profile.

3. Community and profiles:

Code	Requirement
FR-3.1	The system must allow the creation and editing of a user profile with a photo, display name, and short description.
FR-3.2	The system must allow users to follow other users and view their public activity (reviews and lists).
FR-3.3	The system should display the favorites of followed users to facilitate discovery.
FR-3.4	The system must generate notifications when one user is followed by another.
FR-3.5	The system must maintain a list of followers and followed for each user and show follow/unfollow actions.

4. Books management and uploading:

Code	Requirement
FR-4.1	The system must allow profiles with the Administrator or Creator role to upload book and audiobook files with their metadata.
FR-4.2	The system must allow Administrators or Creators to edit metadata (cover, synopsis, author, tags) of any title they have uploaded.
FR-4.3	The system shall allow an Administrator to remove content that violates rules and record the action in an audit log.

5. Recommendations and discoveries:

Code	Requirement
FR-5.1	The system should generate personalized recommendations based on the user's reading history and ratings.
FR-5.2	The system should suggest books read by friends (followed users) that the user has not yet read.
FR-5.3	The system should offer curated thematic collections (by the community or administrators) and navigable from a “Discover” section.

6. **Monetization and subscriptions:**

Code	Requirement
FR-6.1	The system must allow users to purchase a Premium plan with payment management and access control to exclusive content.
FR-6.2	For Premium users, the system must enable unrestricted downloading of books and audiobooks.
FR-6.3	For Premium users, the system must play audiobooks without ads or promotional interruptions.

User Stories

1. Reviews, favorites and comments

Title: Book search	Priority: High
User Story: As a user, I want to search for books and audiobooks by their title, author or genre to find content of my interest.	
Acceptance Criteria: The search function should return books and audiobooks that match the paraments sent by the user.	

Title: Online reading	Priority: High
User Story: As a user, I want to be able to read books online without needing to download them.	
Acceptance Criteria: The site should load the content of the book the user selected.	

Title: Audiobook streaming	Priority: High
User Story: As a user, I want to be able to stream audiobooks without interruptions.	
Acceptance Criteria: The site should allow audiobook streaming	

Title: Book download	Priority: Medium
User Story: As a user, I want to be able to download books or audiobooks to read or listen to offline.	
Acceptance Criteria: The downloading function should return books or audiobooks files downloaded.	

Title: Reading experience	Priority: Medium
User Story: As a user, I want to be able to adjust the font size and background to enhance my reading experience.	
Acceptance Criteria: The site should display the personalization features set by the user.	

2. Community and profiles

Title: Rating creation	Priority: High
User Story: As a user, I want to be able to rate books and audiobooks with stars to share my opinion with the community.	

Acceptance Criteria: The application should save and display the ratings made the user.

Title: Review creation	Priority: High
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User Story: As a user, I want to be able to write reviews to recommend (or not) a book to other readers.
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Acceptance Criteria: The application should save reviews made by the user.
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Title: Review reading	Priority: High
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User Story: As a user, I want to be able to read reviews from other readers before deciding if I want to read a book or not.
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Acceptance Criteria: The application should display reviews made by other users to see.

Title: Favorite list	Priority: High
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User Story: As a user, I want to be able to save books and audiobooks on my favorites list so I can access them easily.

Acceptance Criteria: The application should let users create favorite lists and add books and audiobooks to it.

3. Books management and uploading

Title: Profile creation	Priority: High
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User Story: As a user, I want to be able to create a personal profile with my picture, name and a short description to personalize my account.
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Acceptance Criteria: The application should receive the picture, name and short description, save it and show it to the user.

Title: Following	Priority: Medium
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User Story: As a user, I want to be able to follow other readers to see their recommendations and reading lists.
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Acceptance Criteria: The application should add and save followers of any reader and show them to the users.
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Title: Favorite list of followers	Priority: Low
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User Story: As a user, I want to be able to see the favorite books and audiobooks of the users I follow to discover new titles.
Acceptance Criteria: The application should return the list of favorites of the users any other user follows.

Title: Following notification	Priority: Medium
User Story: As a user, I want to receive notifications when someone follows me.	
Acceptance Criteria: The application should notify any user when another user follows them.	

Title: Follow users	Priority: Medium
User Story: As a user, I want to be able to follow and be followed by other users to connect with other readers.	
Acceptance Criteria: The application should update the list of followers and following of the users.	

4. Recommendations and discoveries

Title: Book uploading	Priority: High
User Story: As an administrator or creator, I want to be able to upload books and audiobooks to share with the community.	
Acceptance Criteria: Only users with administrator or creator roles should be able to upload content on the site.	

Title: Book details editing	Priority: High
User Story: As an administrator or creator, I want to be able to edit the details of the books (cover, synopsis, author and tags).	
Acceptance Criteria: Only users with administrator or creator roles should be able to edit information related to books and audiobooks.	

Title: Content deletion	Priority: High
User Story: As an administrator, I want to be able to delete content that infringes the norms to assure the quality of the platform.	
Acceptance Criteria: Only users with administrator or creator roles should be able to review and delete content.	

5. Monetization and subscriptions

Title: Recommendations based on own readings	Priority: Medium
User Story: As a user, I want to receive recommendations of books and audiobooks based on my readings and reviews.	
Acceptance Criteria: The application should show recommendations based on the interests of the user.	

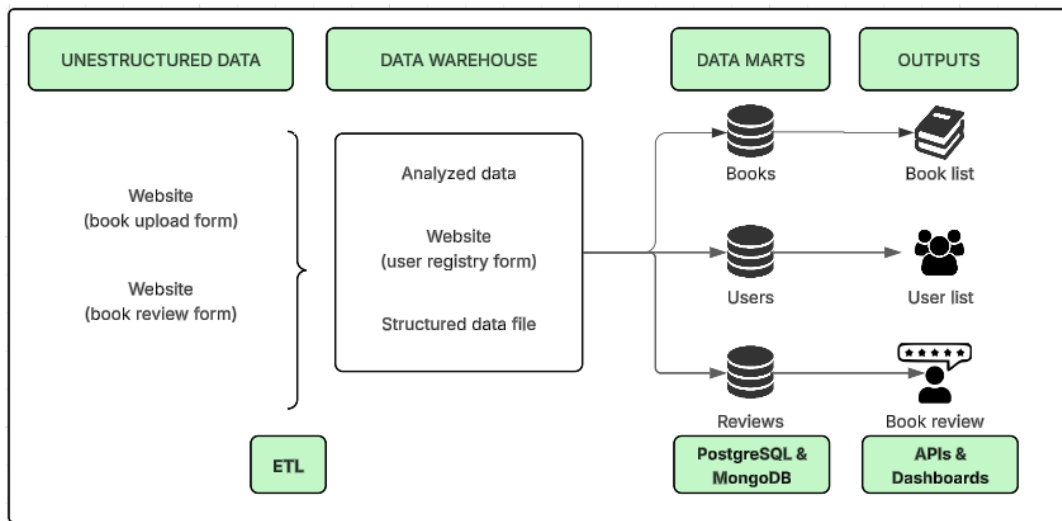
Title: Recommendations based on friends readings	Priority: Medium
User Story: As a user, I want the platform to suggest new books based on what my friends are reading.	
Acceptance Criteria: The application should show recommendations based on the interests of the user's following list.	

Title: Exclusive content for premium users	Priority: High
User Story: As a premium user, I want to be able to access a premium plan to unlock exclusive content and advanced functionalities.	
Acceptance Criteria: The system should set privileges to users registered as premium.	

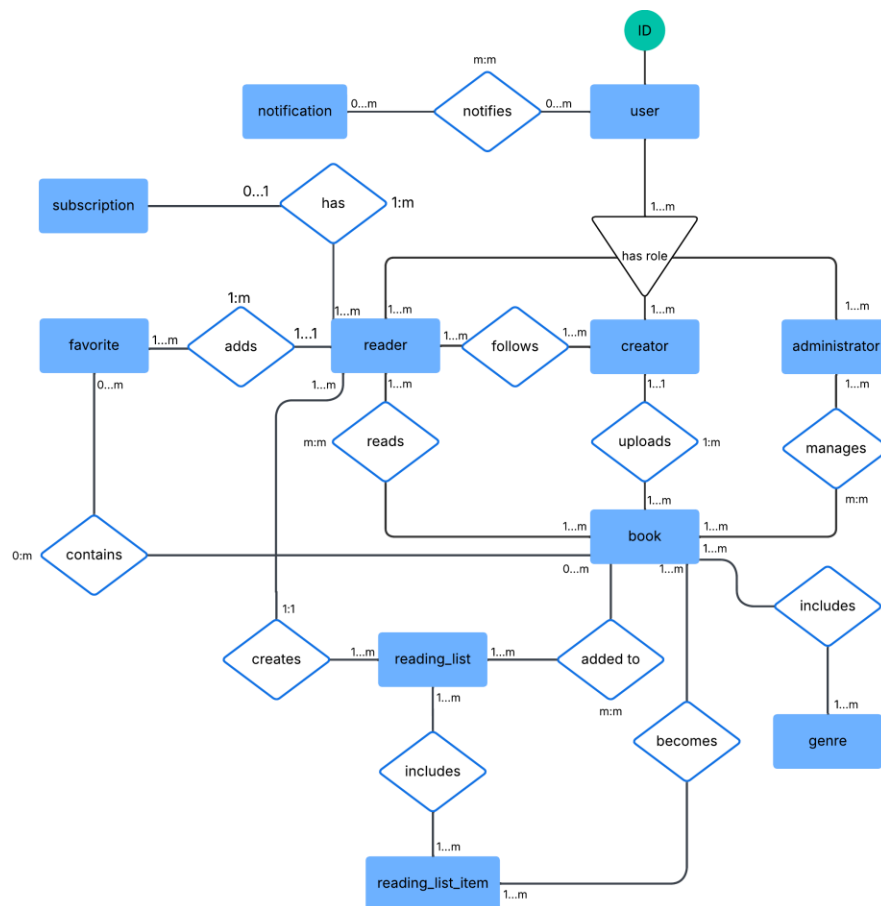
Title: Downloads for premium users	Priority: High
User Story: As a premium user, I want to be able to download books without restrictions to read them offline.	
Acceptance Criteria: The application should display the option for premium users to download books and audiobooks.	

Title: Advertising for premium users	Priority: High
User Story: As a premium user, I want to be able to enjoy audiobooks without advertising for a better experience.	
Acceptance Criteria: The application should not display any type of advertising only when the user reading is a premium one.	

Initial Database Architecture

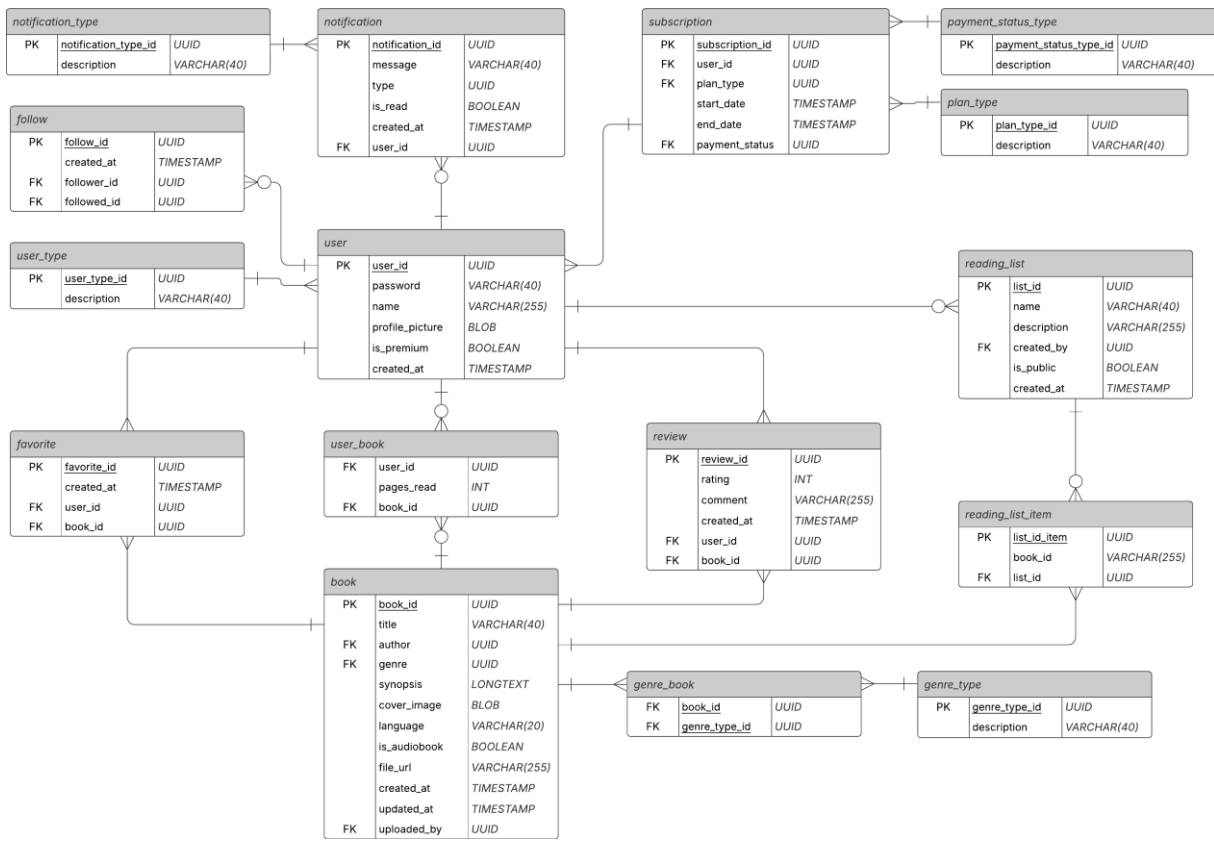


Entity Relationship Diagram



In the following link you can see the Entity Relationship Diagram: [E-R_Diagram](#)

Entity Relationship Mode



In the following link you can see the Entity Relationship Model: [E-R Model](#)

Main entities & relationships

Entity	Description	Key relationship
user	Represents a registered user (reader, creator & administrator).	Has many reviews, favorites, follows, reading_lists, subscriptions, and notifications.
book	Represents a book with its title, author, cover image, etc.	Has many reviews, is in many favorites, and appears in many reading_list items.
subscription	User subscription information such as plan, dates and payment status.	Belongs to one user Refers to one plan type Has one payment status type
review	Comments and scores made by any user to a book.	Belongs to User. Belongs to Book.
favorite	Relationship between users and books marked as favorites.	Belongs to User. Belongs to Book.
follow	Allows one user to follow another.	One user follows another user.
notification	Represents a notification resulting from any interaction one user has with another user.	Belongs to one user. Refers to a notification_type.

reading_list	Represents a reading list made and personalized by any user.	Created by one user Has many reading_list item entries
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