

Bookshelf.me: Project Part 2

Team:

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Title:

Bookshelf.me

Project Summary:

The program will be used by users in order to track which books they own. It will be able to track what they have read, are currently reading, and want to read.

Project Requirements:

Business Requirements

ID	Requirement	Topic Area	User	Priority
BR - 1	User must be able to pay by credit card	Payment processing	Customer	Critical
BR-2	User must be able to contact customer service	Customer Service	Customer	Critical

User Requirements

ID	Requirement	Topic Area	User	Priority
UR - 1	User must be able to register	Account management	Customer	Critical
UR-2	User must be able to login	Account management	Customer	Critical
UR-3	Administrator must be able to see user account credentials in order to reset passwords	Account Management	Admin	High
UR-4	User must be able to add books to their bookshelf	Functionality	Customer	High
UR-5	User must be able to add their e-book's file path to their bookshelf	Functionality	Customer	Medium

UR-6	User must be able to rate books that I have read on a 5 star system	Functionality	Customer	Medium
UR-7	User must be able to see statistics on their reading progress like number of books read in the past year	Functionality	Customer	Low
UR-8	Administrator must be able to see how many books users are storing in the program	Data Gathering	Admin	Low
UR-9	User must be able to add comments or review about the book	Functionality	Customer	Low
UR-10	User must be able to get a book suggestion from system database.	Functionality	Customer	Low

Functional Requirements

ID	Requirement	Topic Area	User	Priority
FR - 1	Bookshelves are pre-populated with read, to-read, reading.			
FR-2	Fill in file path automatically when adding an ebook	Functionality		

Non-Functional Requirements

ID	Requirement	Topic Area	User	Priority
NFR - 1	Adding books to the user library must be fairly straightforward.	Usability	Program user	Medium
NFR-2	The program should start up reliably w/out bugs.	Performance/Reliability	All	Critical

Main Use Case Diagram:



Use Case ID	UC-1	
Use Case Name	User Registration	
Description	When the User first goes to the website, they must be able to create an account to track their data	
Actors	Customer	
Pre-Conditions	Customer navigates to the website	
Post-Conditions	Customer receives confirmation that their account has been created	
Frequency of Use	First time only	
Flow of Events	Actor Actions <ol style="list-style-type: none"> 1. Click Register User button on top right 2. Insert Username 3. Insert Password 4. Confirm Password 	System Response

	5. Click Register User 6. Go to screen to insert payment information 7. Go to screen confirming that account has been created and allows you to download	6. System checks that the passwords match and then creates account in the database 7. Process payment
Variations	If passwords don't match then alert the user to reenter the passwords	
Notes and Issues		
Developer Notes		

Use Case ID	UC-2	
Use Case Name	Login	
Description	When customer visits the website again they can sign in and view their bookshelf	
Actors	Customer	
Pre-Conditions	1. Navigate to website 2. The customer has registered	
Post-Conditions	The Customer can view their data	
Frequency of Use	Every time the customer visits the website	
Flow of Events	Actor Actions 1. Click Login button in top-right 2. Insert Username 3. Insert Password 4. Click submit	System Response 2. Brings user to login screen 5. Checks database for customer credentials and then redirects to user dashboard
Variations	If customer is not registered, program redirects to registration page. If Password does not match existing password in database customer is prompted to reenter credentials.	
Notes and Issues		

Developer Notes	Need to sanitize queries so that we don't face SQL injection attacks.
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Use Case ID	UC-3	
Use Case Name	Admin Reset Password	
Description	The Administrators must have a way to reset the users passwords in case they forget	
Actors	Administrator	
Pre-Conditions	Admin logged in	
Post-Conditions	Password has been reset	
Frequency of Use	Infrequent - Most Users will remember their passwords	
Flow of Events	Actor Actions 1. See list of usernames and passwords 2. Admin makes sure user has an account 3. Click user to reset the password	System Response 3. System clears users password
Variations	If User does not exist, Admin informs customer to create an account	
Notes and Issues	There could be ethical concerns as the administrators would have access to all user passwords. Potential fix would be to not allow admins to view passwords only to reset them.	
Developer Notes		

Use Case ID	UC-4
Use Case Name	Add Books
Description	User must be able to add books to their bookshelf
Actors	Customer
Pre-Conditions	User has an account and is logged in
Post-Conditions	Bookshelf has been updated with new book
Frequency of Use	Frequent - This is the main functionality of the website

Flow of Events	Actor Actions <ol style="list-style-type: none"> 1. Click + button on bookshelf 2. Get prompt with areas to enter book title 3. Click Save 	System Actions <ol style="list-style-type: none"> 3. Run search against ISBN database to see prefill data 4. System adds book to database for customer 5. System reloads page for customer
Variations	Once the Book title is added the system will trigger a search against our ISBN database and attempt to fill in all the fields. The User will be shown the pre-filled screens and if the title is wrong they can run the search again.	
Notes and Issues		
Developer Notes		

Use Case ID	UC-5	
Use Case Name	E-book Support	
Description	User must be able to add their e-book's file path to their bookshelf	
Actors	Customer	
Pre-Conditions	Customer is logged in	
Post-Conditions	Bookshelf has been updated with file path	
Frequency of Use	Frequent - This is the main functionality of the website	
Flow of Events	Actor Actions <ol style="list-style-type: none"> 1. Click on a book in the bookshelf 2. Get prompt with areas to add information and insert books 3. Click add file path 4. Add the string for the location of the book 5. Click Save 	System Actions <ol style="list-style-type: none"> 5. System updates the database with new information

Use Case ID	UC-7	
Use Case Name	See Progress	
Description	User must be able to see statistics on their reading progress like number of books read in the past year	
Actors	Customer	
Pre-Conditions	Customer is logged in	
Post-Conditions		
Frequency of Use	Frequent - This is the part of the main functionality of the website	
Flow of Events	Actor Actions 1. Customer goes to website dashboard 2. In Top right corner the number of books read is displayed	System Actions 1. System checks count of books read by the customer and then renders that on the dashboard
Variations		
Notes and Issues		
Developer Notes		

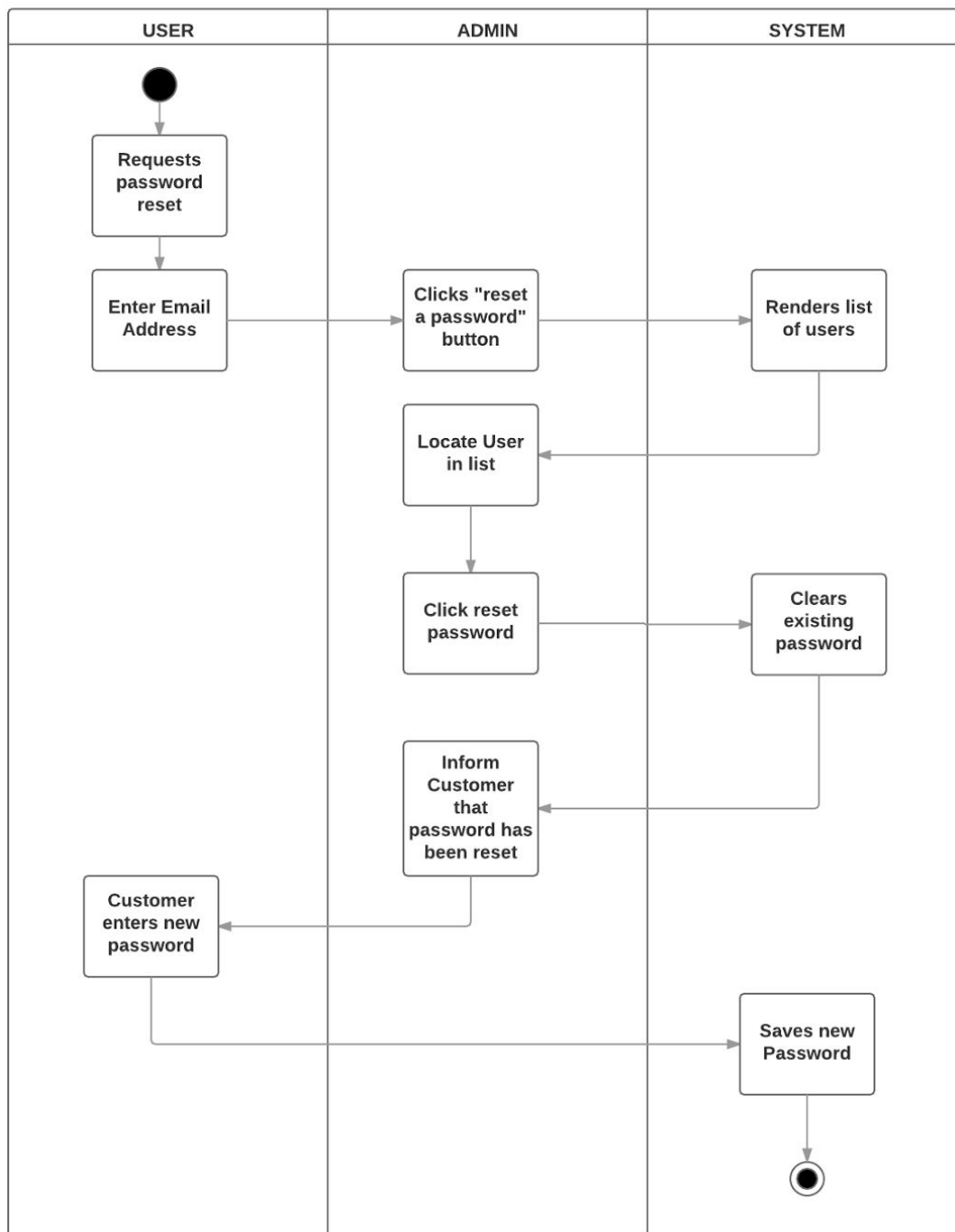
Use Case ID	UC-8	
Use Case Name	See Statistics	
Description	Administrator must be able to see how many books users are storing in the program	
Actors	Administrator	
Pre-Conditions	Administrator is logged in	
Post-Conditions		
Frequency of Use	In-Frequent. Administrator will only log in when dealing with customer support	
Flow of Events	Actor Actions 1. Administrator goes to website dashboard 2. In Top right corner the number of books read by all customers is	System Actions 2. System runs a sum function on all the customers books to see

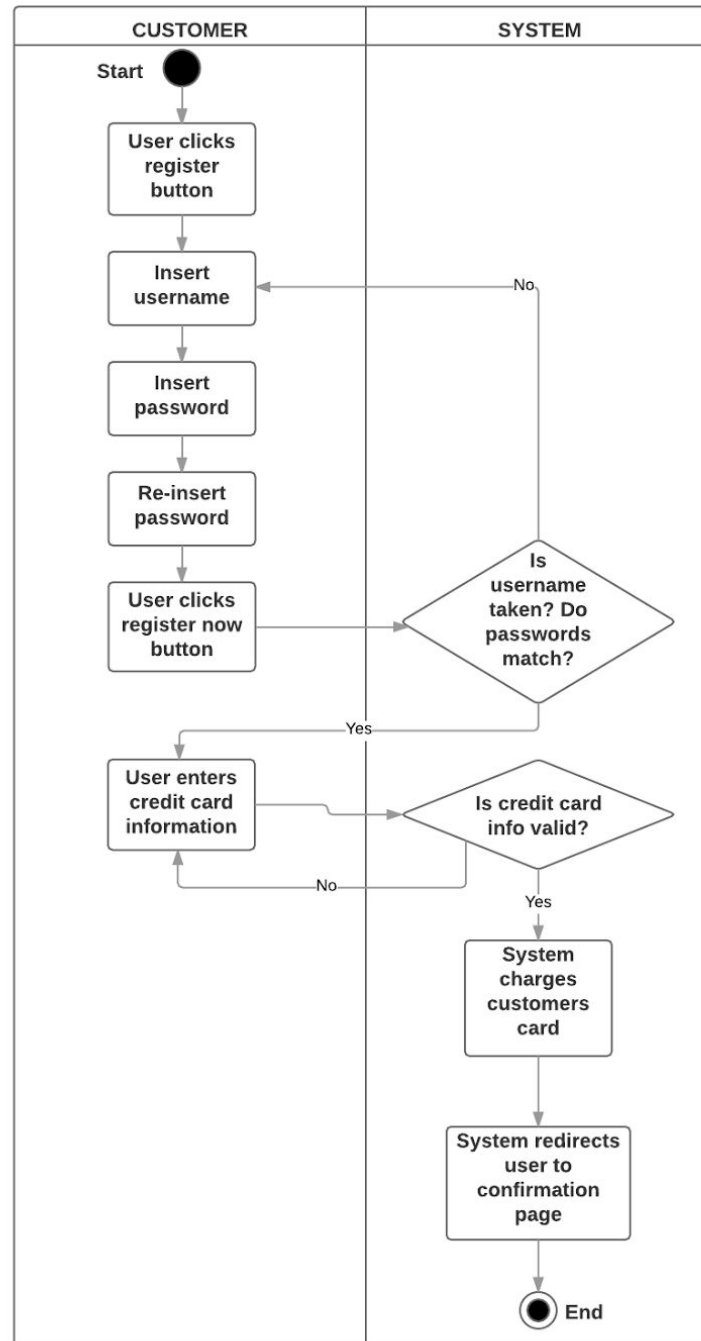
	displayed	how many have been read.
Variations		
Notes and Issues		
Developer Notes		

Use Case ID	UC-9	
Use Case Name	Add Comments	
Description	User must be able to add comments or review about the book	
Actors	Customer	
Pre-Conditions	User is logged in	
Post-Conditions		
Frequency of Use	Frequent. This is part of the main functionality of the website	
Flow of Events	<p>Actor Actions</p> <ol style="list-style-type: none"> 1. Click on a book in the bookshelf 2. Get prompt with areas to add information and insert books 3. Click add review 4. Type thoughts about the book 5. Click Save 	<p>System Actions</p> <ol style="list-style-type: none"> 5. Database is updated with new information 6. Updated webpage will be displayed with new information
Variations	Not all information needs to be filled out for the book to be added to the bookshelf.	
Notes and Issues		
Developer Notes		

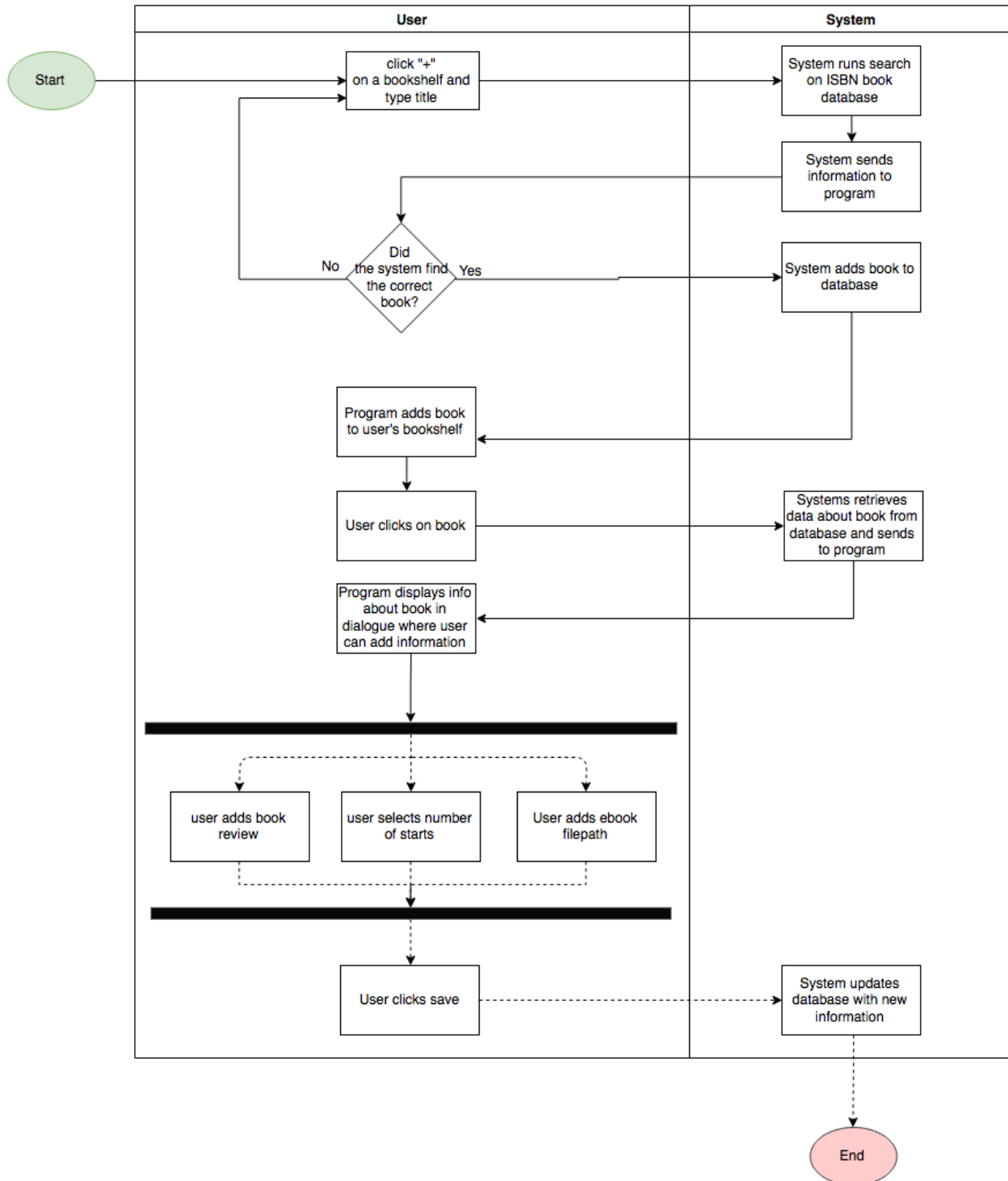
Use Case ID	UC-10
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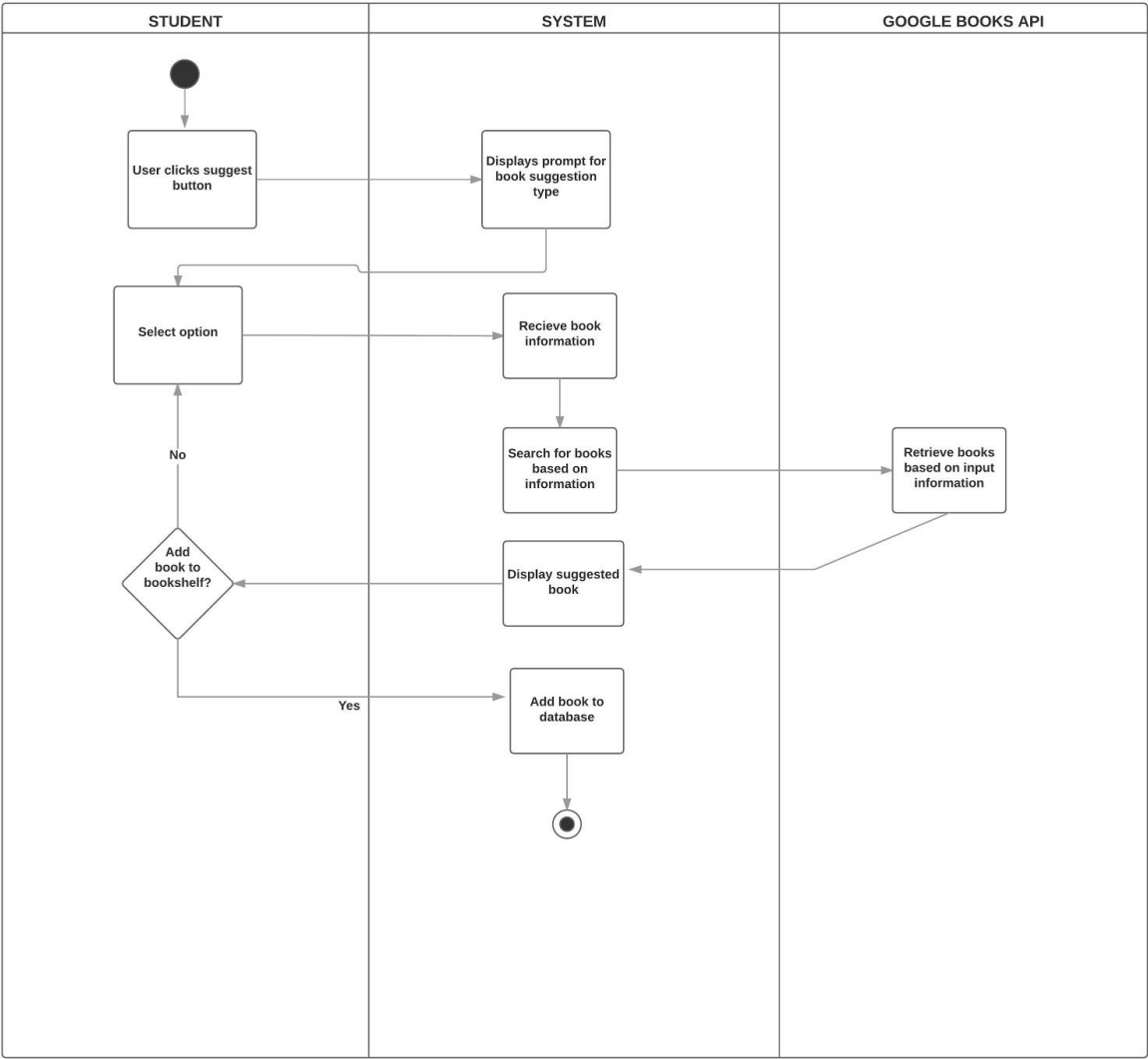
Use Case Name	Suggested Books	
Description	User uses the program to generate a new book suggestion that they can add to their bookshelf	
Actors	Customer	
Pre-Conditions	1. User is logged in	
Post-Conditions	User has a new book suggestion added in their bookshelf.	
Frequency of Use	Frequent. This is part of the main functionality of the website	
Flow of Events	<p>Actor Actions</p> <ol style="list-style-type: none"> 1. User clicks on suggest button 2. Choose books from bookshelves or a genre that they would like to read as inputs to the system 3. Review the random book selection made by system 4. Add book 	<p>System Actions</p> <ol style="list-style-type: none"> 1. System displays prompt for suggestion types 2. System checks Google Books API for books in the same genres 3. Displays book suggestion from same genre 4. User adds book, and updates database
Variations	User clicks suggest again to get new book recommendation.	
Notes and Issues		
Developer Notes		





UR 4,5,6 / UC 4,5,6 Activity Diagram: Soham Shah

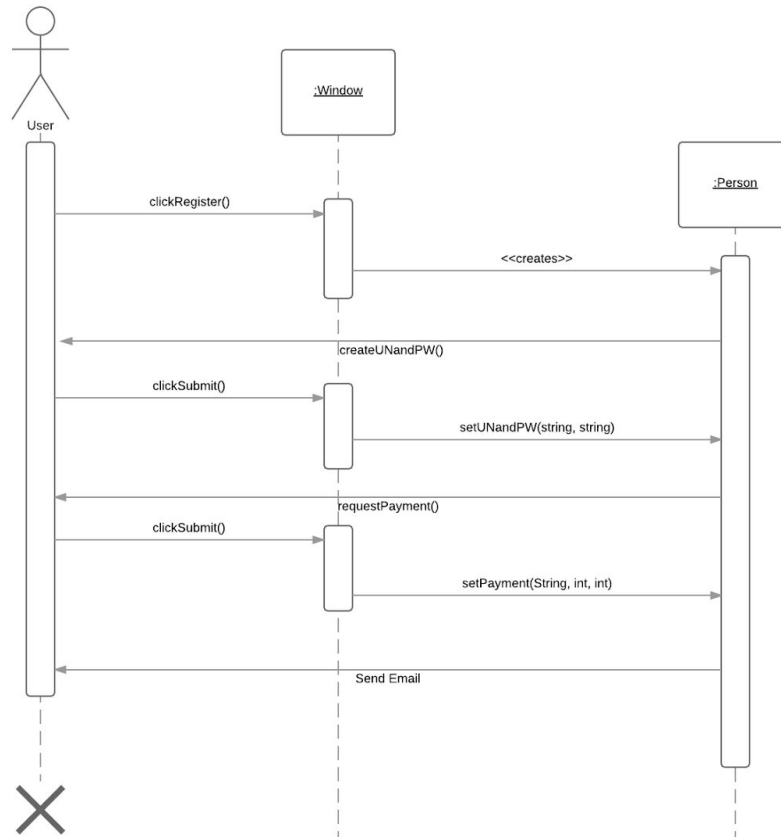


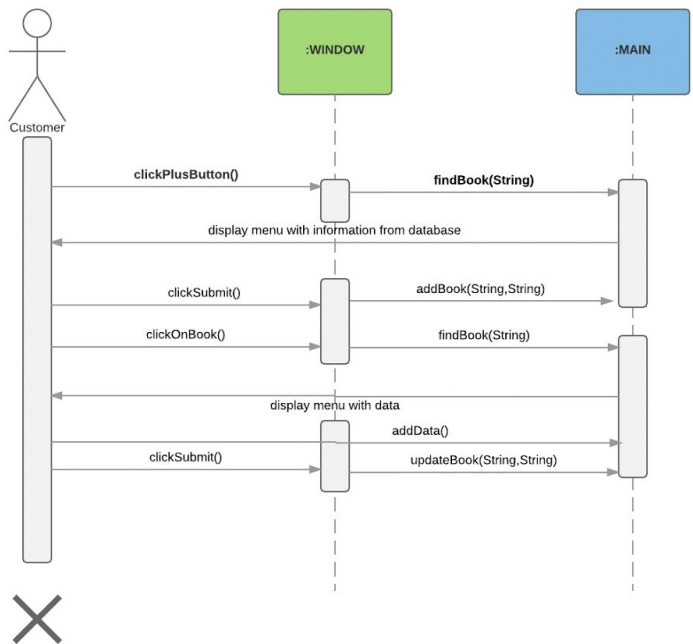
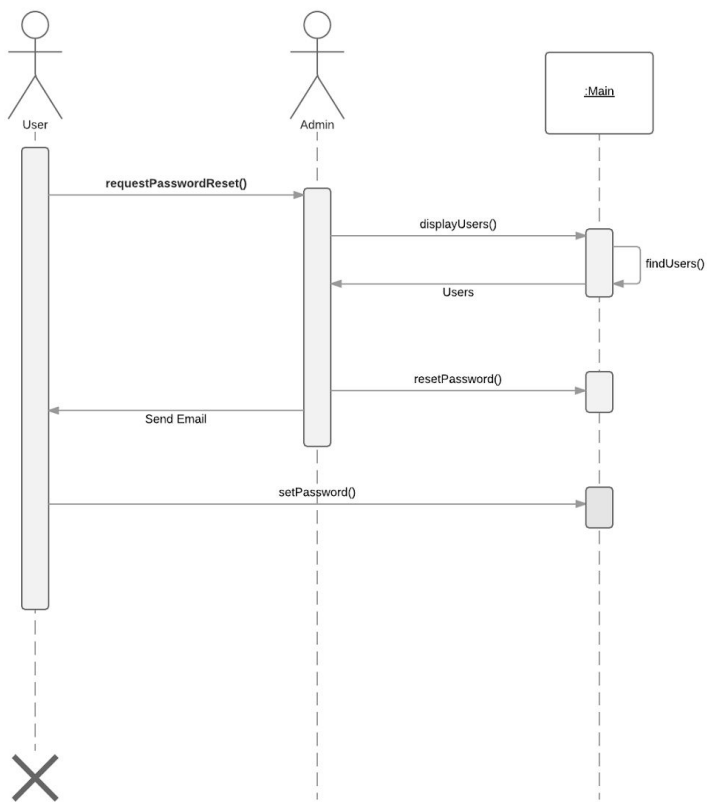


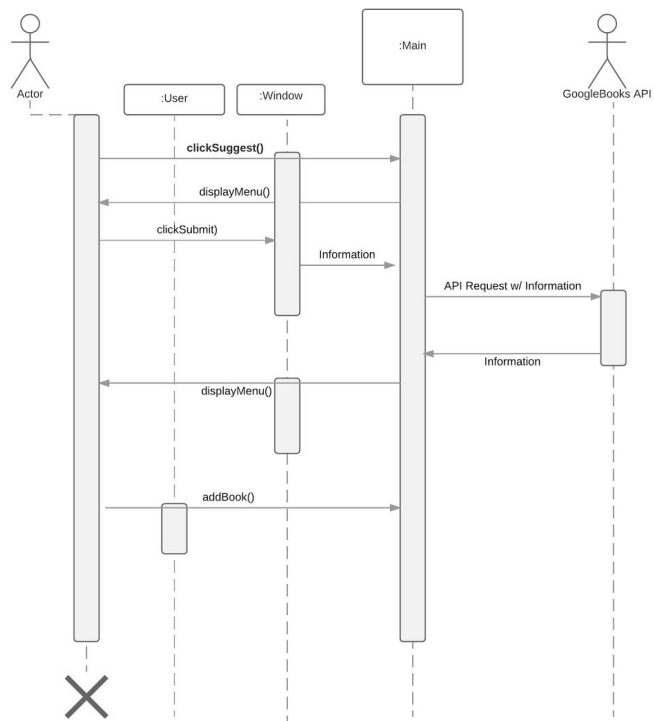
Sequence Diagrams:

UC-1 USER REGISTRATION SEQUENCE DIAGRAM

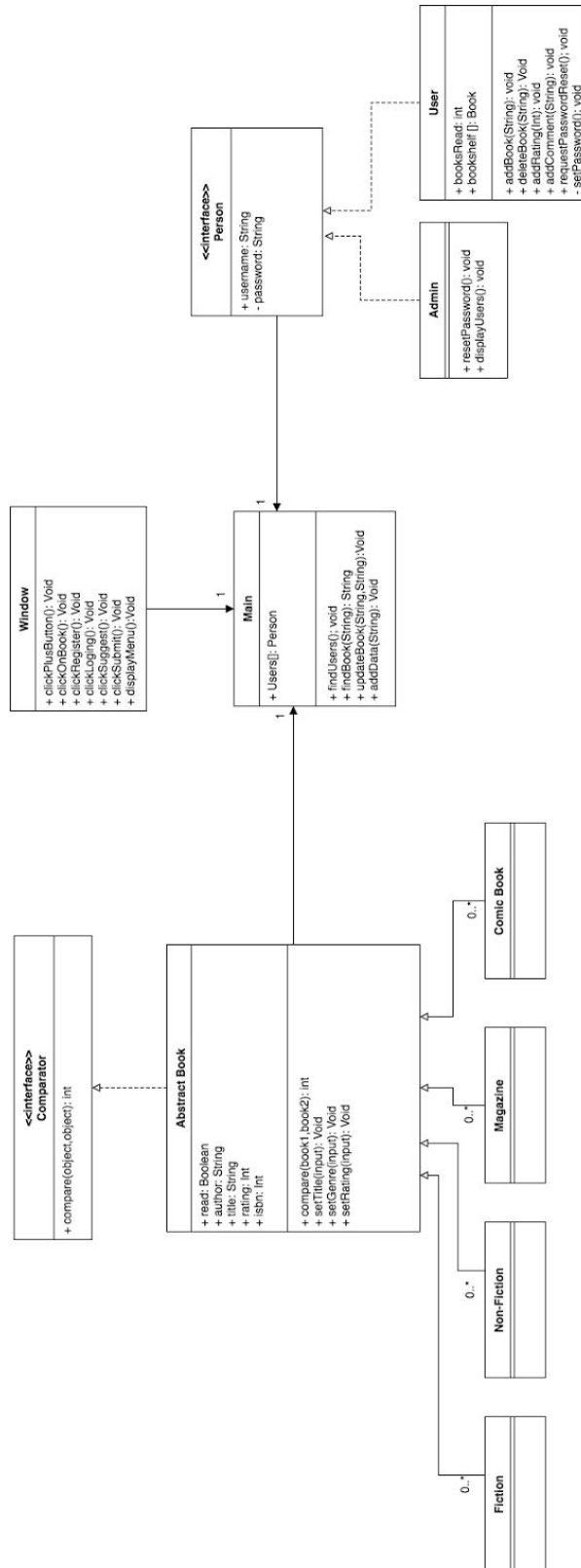
Samuel Taylor







Class Diagram:



*Class Diagram is also in the Github as an image for increased visibility.

Data Storage:

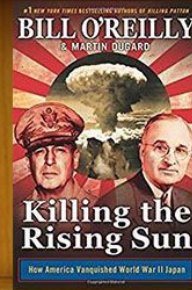
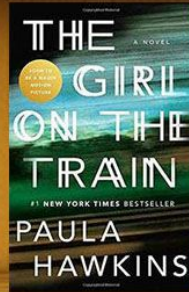
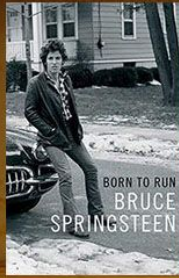
We will use MySQL to store the data on people's bookshelves. There will be two main tables, Users, and Books. This way each user will have a unique bookshelf where they can store the different books that they own and their unique reviews and settings. We will use Hibernate to access and represent this data in Java.

UI Mockup:

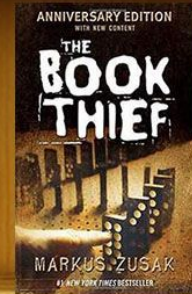
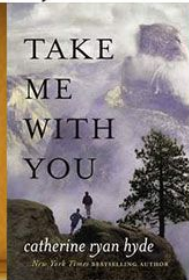


My BookShelf

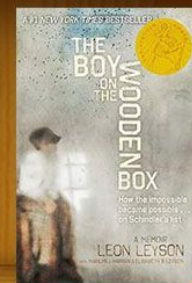
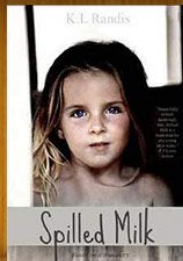
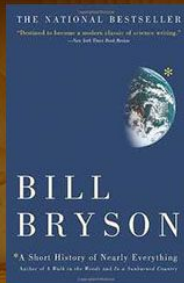
[LOGIN](#)
[REGISTER](#)



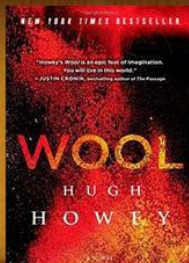
My Favorites



Fiction



Non-Fiction

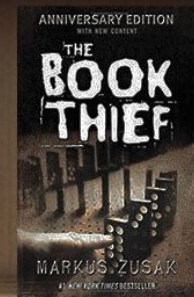
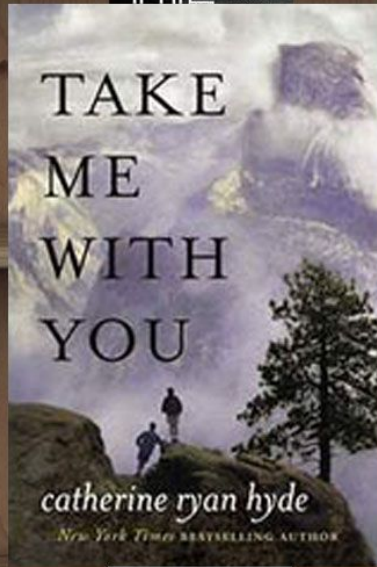
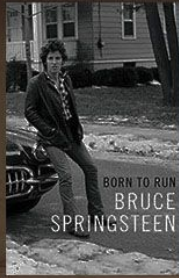


Science Fiction



My BookShelf

[LOGIN](#)
[REGISTER](#)



Fiction

Rating: ★★★★★

Author: Catherine Ryan Hyde

Review: I love this book!

File Location: /Users/name/Desktop/take-mewith.pdf



Science Fiction

Registration

username

password

re-enter password

**Register
Now**

