



Blank

SWE215: Requirements engineering.

Project Phase-2

BookMart

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# 1. Introduction

## **a. Problem Statement**

Used books stores at their last days and suffer from lack of sales even though they help in financial and environmental causes. Moreover, many customers are facing many difficulties such as finding a specific book or found it later to be sold out.

## **b. Needs**

The primary need is to increase the communication between the bookstores and the customers so the sales rate increase. Moreover, users want to reach the books they want cost-effectively. Also, some readers prefer to look for a book by other readers reviews.

## **c. Product Overview**

BookMart is an online platform that allows users to buy, sell, and rent new/used books. It also offers an option for the readers to rate and review books. So other readers can view organized review and the overall rating of the books.

# 2. Product features and user requirements

## **a. Requirements List**

- R.1. The system shall allow the individual to create an account.
- R.2. The system shall allow the bookstore owner to create an account.
- R.3. The system shall allow the individual to lease their books.
- R.4. The system shall allow the bookstore owner to lease their books.
- R.5. The system shall allow the individual to sell their books.
- R.6. The system shall allow the bookstore owner to sell their books.
- R.7. The system shall allow the individual to buy books.
- R.8. The system shall allow the individual to make a review.
- R.9. The system shall allow the individual to see all reviews.
- R.10. The system shall allow the individual to add their books.
- R.11. The system shall allow the individual to remove their books.
- R.12. The system shall allow the bookstore owner to add their books.
- R.13. The system shall allow the bookstore owner to remove their books.
- R.14. The system shall allow the admin to remove books.
- R.15. The system should allow the individual to see the top selling books.
- R.16. The system should allow the bookstore owner to see the top selling books.
- R.17. The system should allow the individual to see a digital book.
- R.18. The system should send a message to the individual if a book is available.
- R.19. The system should display the current condition of a used book to the individual.

- R.20. The system should allow the individual to add a book in their Wishlist.
- R.21. The system should allow the individual to edit their Wishlist.
- R.22. The system should allow the individual to view their Wishlist.
- R.23. The system shall allow the individual to search for a book.
- R.24. The system shall allow the bookstore owner to search for a book.
- R.25. The system shall allow the admin to ban users.
- R.26. The system shall allow the bookstore to see all reviews.

## **b. Requirements Categorization Table**

*Table 1 Requirements Categorization Table*

Requirement Sr.	Brief description	Importance (High, Medium, Low)	Difficulty (High, Medium, Low)
R1	Creating an account in BookMart as an individual.	High	Low
R2	Creating an account in BookMart as a bookstore owner.	High	Low
R3	Listing the individual book for leasing.	High	Medium
R4	Listing the bookstore owner book for leasing.	High	Medium
R5	Listing the individual book for sell.	High	Medium
R6	Listing the bookstore book for sell.	High	Medium
R7	Allowing the individual to buy books.	High	Medium
R8	Allowing the individual to make a review.	High	Medium
R9	Allowing the individual to see all reviews.	High	Medium
R10	Allowing the individual to add a book to the list.	High	Medium
R11	Allowing the individual to remove a book from the list.	High	Medium
R12	Allowing the bookstore owner to add a book to the list.	High	Medium
R13	Allowing the bookstore owner to remove a book from the list.	High	Medium
R14	Allowing the admin to remove books from the list.	High	Medium
R15	Allowing the individual to top selling books.	Medium	Medium
R16	Allowing the bookstore owner to top selling books.	Medium	Medium
R17	Giving the individual a digital copy of the book.	Medium	Medium
R18	Sending a notification if the book become available	Medium	Medium
R19	Displaying the current status of a specific book.	Medium	Low

R20	Allowing the individual to add a book to Wishlist.	Medium	Low
R21	Allowing the individual to edit a book to Wishlist.	Medium	Low
R22	Allowing the individual to view Wishlist.	Medium	Low
R23	Allowing the individual to look for a specific book.	High	Low
R24	Allowing the individual to look for a specific book.	High	Medium
R25	Allowing the admin to ban users.	High	Medium
R26	Allowing the bookstore to see all reviews.	High	Medium

### 3. Stakeholders, Users and User Characteristics

#### a. *Stakeholders, Users, User characteristics*

##### 1. Stakeholders

- a. Ministry of commerce.
- b. Ministry of media.
- c. registered corporations.
- d. Admin.
- e. Individuals.
- f. Bookstore owner.
- g. General Authority of Zakat & Tax.
- h. Committee for the Promotion of Virtue and the Prevention of Vice.

##### 2. Users

- a. Admin
- b. Individuals
- c. Bookstore owner

## **b. User/Functionality Matrix**

Table 2 User / Functionality Matrix

User	Main functionalities	Typical Computer Literacy (High, Average, Low)	Typical Educational Level (High school, College degree)	Expected Frequency of System Usage (Several times a day, Daily, Weekly, Monthly)
Individual	R1, R3, R5, R7, R8, R9, R10, R11, R15, R17, R18, R19, R20, R21, R22, R23	Average	College degree	Daily
Bookstore owner	R2, R4, R6, R12, R13, R16, R24, R26	Average	High School	Several times
Admin	R14, R25	High	College degree	Several times

## **c. Constraints**

- The software must be approved by the ministry of commerce.
- Taxes will be applied to every purchase.
- The software must follow the Islamic teachings.
- All copy rights shall be preserved.
- Inappropriate books shall be removed from the system.
- Only books approved by any of the registered corporations are accepted on the software.
- Damaged books (torn, missing pages, ... etc.) are not accepted.

## **d. Assumptions**

- we assume that the client will provide us with a server.
- we assume that the client will provide the logistics.
- we assume that the client will provide us with a payment system.

## **e. Dependencies**

- Google log in.
- App store.
- Play store.

## **4. System Requirements**

### **a. *Non-Functional Requirements***

#### **Product requirements**

1. The system features shall not exceed seven features in a single page.
2. The user interface should not have more than 4 colors present in a single page.
3. The user shall not take more than 10 minutes to find a feature.
4. The system should not exceed more than 1 day for a new feature to be implemented.
5. The system shall not take more than 1 day for an error to be fixed.
6. The system should not take more than 5 seconds to search for a book inside the database.
7. The system should be able to handle more than 10,000 users at the same time.
8. The system should have the digital copies be on PDF format.

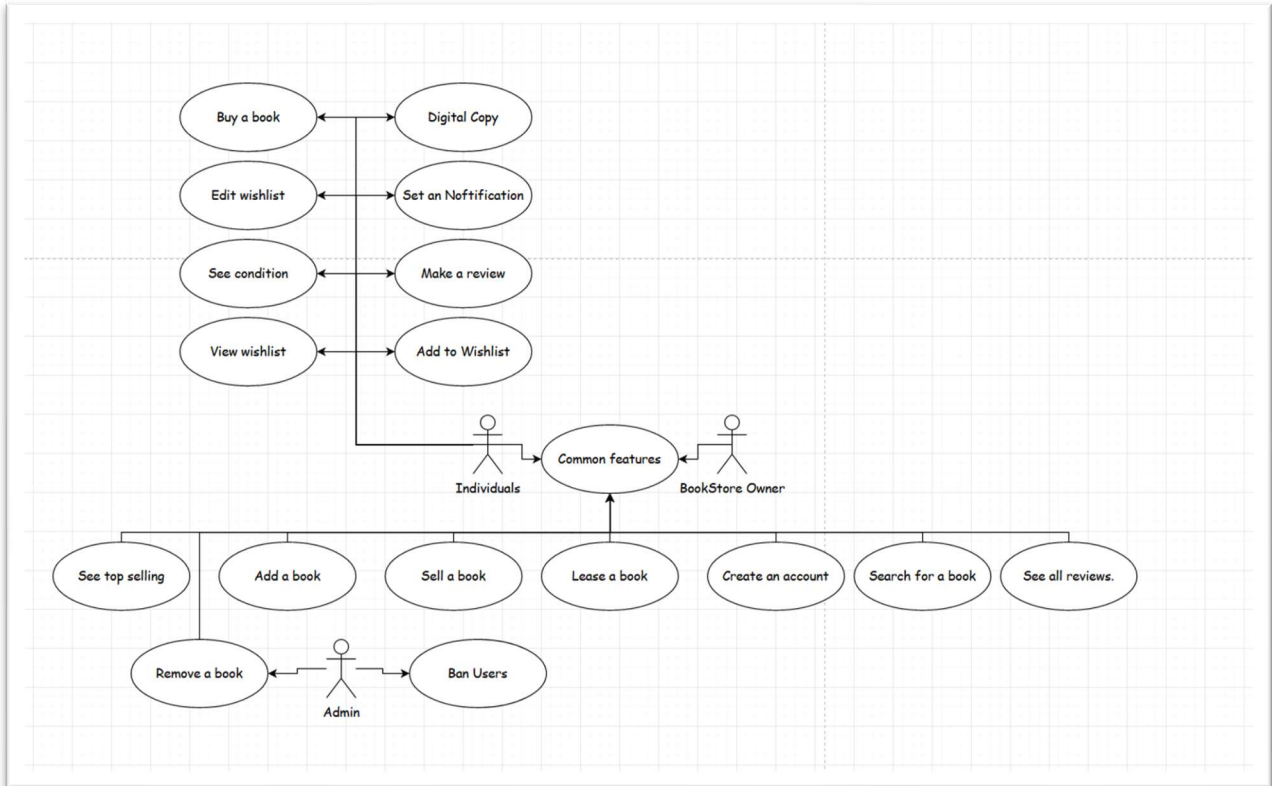
#### **Organizational requirements**

1. The requirement phase shall be separated into 4 parts.
2. The duration for requirement phase shall not exceed two months.
3. The first phase in developing the requirements shall be submitted on the 5th week in the standard KFUPM semester.
4. The second phase in developing the requirements shall be submitted on the 8th week in the standard KFUPM semester.
5. The third phase in developing the requirements shall be submitted on the 12th week in the standard KFUPM semester.
6. The fourth phase in developing the requirements shall be submitted on the 15th week in the standard KFUPM semester.
7. The system shall be implemented using the simplified rational unified process.
8. The model shall be made using UML modeling language.

#### **External requirements**

1. The system shall implement Saudi Arabia's Ministry of Commerce standards.
2. The system shall implement Saudi Arabia's Committee for the Promotion of Virtue and the Prevention of Vice standards.
3. The system shall implement Saudi Arabia's Ministry of Media.

## b. Use Cases Diagram





### c. Use Case Description

Use case ID:	UC.1		
Use Case Name:	Add to Wishlist		
Created by:	Fahad AL-OSAIMI	Last Updated by:	3/27/2021
Date Created:	3/25/2021	Last Revision Date:	3/27/2021
Actors:	Individuals		
Description:	Allow the user to add a book to a Wishlist.		
Trigger:	The user presses "Add to Wishlist" button.		
Preconditions:	1. Connection to the Database. 2. The chosen book must be in the Database.		
Postconditions:	1. The book is added to the user's Wishlist.		
Normal Flow:	1. The user search for the book he wanted to add to the Wishlist. 2. The System checks if the book is in the Database. 3. The System display the results to the user. 4. The user chooses the book he wanted to add to the Wishlist. 5. The user press "Add to Wishlist" button. 6. The System updates the user's Wishlist with the newly added book.		
Alternative Flows:	3b. In step 3 of the normal flow, if the book is not in Database The System display that the chosen book is not found in the Database.		
Exceptions:	5a. In step 5 of the normal flow, if the book is already in the Wishlist. The System display error message that tells the user that the book is already in the Wishlist.		
Assumptions:	1. The user knows which book to add to the Wishlist.		
Notes and Issues:	1. Will there be a limitation for the number of books in a Wishlist? If yes, what should be the limit?		

Use case ID:	UC.2		
Use Case Name:	Edit Wishlist.		
Created by:	Fahad AL-OSAIMI	Last Updated by:	3/27/2021
Date Created:	3/25/2021	Last Revision Date:	3/27/2021
Actors:	Individuals		
Description:	Allow the user to edit their Wishlist.		
Trigger:	The user chooses "Delete" option that is besides the chosen book.		
Preconditions:	Connection to the Database.		
Postconditions:	The book gets deleted from the Database.		
Normal Flow:	1. The System display the current books that is inside the Wishlist from the Database. 2. The user press "Delete" option that is besides the chosen book. 3. The system prompts the user the confirmation to delete the book from the Wishlist. 4. The System updates the user's Wishlist.		
Alternative Flows:	3b. In step 3 of the normal flow, if the confirmation is denied The System display the Wishlist again.		
Exceptions:	-		
Assumptions:	1. The user knows which book to be deleted from the Wishlist.		
Notes and Issues:	-		

Use case ID:	UC.3		
Use Case Name:	View Wishlist.		
Created by:	Fahad AL-OSAIMI		
Date Created:	3/25/2021		
Actors:	Individuals		
Description:	Allow the user to see their Wishlist.		
Trigger:	The user chooses "Wishlist" option from their profile.		
Preconditions:	Connection to the Database.		
Postconditions:	The Wishlist is displayed to the user.		
Normal Flow:	-		
Alternative Flows:	-		
Exceptions:	-		
Assumptions:	-		
Notes and Issues:	-		

Use case ID:	UC.4		
Use Case Name:	Add Book		
Created by:	Abdulrhman Gharsa	Last Updated by:	
Date Created:	22/3/2021	Last Revision Date:	
Actors:	Admin, BookMart system		
Description:	The admin adds book to the database		
Trigger:	The admin presses the "Add Book" button.		
Preconditions:	The System is connected to the database.		
Postconditions:	The book is displayed on the website. The Individuals can list the book for sale.		
Normal Flow:	1.Admin enters ISBN number. 2.System validate that the ISBN number does not previously exist in the database. 3.Admin enters author name. 4.Admin enters book title. 5.Admin enters book publisher. 6.Admin enters book date of issue. 7.Admin press the add button. 8.System displays and overview of the book information. 9.System asks the Admin if they want to confirm the information or edit them. 10.Admin confirms the book information by pressing the confirmation button. 11.System adds the book information to the database. 12.System shows a message that the book is added successfully.		
Alternative Flows:	9a. If the admin chooses the edit option: 1.System shows the book information again. 2.Admin edits the information. 3.It continues from (STEP 8) in normal flow.  2a. If the book already exists in the database: 1.System shows an error message that the book already exists. 2.Two options appear either get back to the admin page or add new book. 3.Admin choose to get back to the admin page. 4.Admin page appear.  2b. If the book already exists in the database: 1.System shows an error message that the book already exists. 2.Two options appear either get back to the admin page or add new book. 3.Admin choose to add a new book.		

	4.It continuous from (Step 1) in normal flow.
Exceptions:	<p>2a. If the number of ISBN is shorter than 10:</p> <ol style="list-style-type: none"> <li>1.System display an error message that the ISBN number is invalid.</li> <li>2.Two options appear either get back to the admin page or add new book.</li> <li>3.Admin choose to get back to the admin page.</li> <li>4.Admin page appear.</li> </ol> <p>2b. If the number of ISBN is shorter than 10:</p> <ol style="list-style-type: none"> <li>1.System display an error message that the ISBN number is invalid.</li> <li>2.Two options appear either get back to the admin page or add new book.</li> <li>3.Admin choose to add a new book.</li> <li>4.It continuous from (Step 1) in normal flow.</li> </ol>
Assumptions:	The Admin have the book information.
Notes and Issues:	Should the system be connected to an api that have all the books ISBN information?.

Use case ID:	UC.5		
Use Case Name:	Ban User.		
Created by:	Abdulrhman Gharsa	Last Updated by:	
Date Created:	22/3/2021	Last Revision Date:	
Actors:	Admin, BookMart system.		
Description:	1. The admin Ban a User from using the platform.		
Trigger:	1. The admin presses the "Ban User" button.		
Preconditions:	1. The system is connected to the database.		
Postconditions:	1. User is not allowed to use the platform.		
Normal Flow:			
Alternative Flows:			
Exceptions:			
Assumptions:	<ol style="list-style-type: none"> <li>1. The admin has the ID of the user.</li> <li>2. The user did a violation.</li> <li>3. The user has an active account on the System.</li> </ol>		

Notes and Issues:	1. How many warnings should the user be given before being banned. 2. What violations requires immediate ban.
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Use case ID:	UC.6		
Use Case Name:	Add Book.		
Created by:	Abdulrhman Gharsa	Last Updated by:	Abdulrhman Gharsa
Date Created:	22/3/2021	Last Revision Date:	23/3/2021
Actors:	Admin, BookMart system.		
Description:	1. The Admin deletes a book from the database.		
Trigger:	1. The admin presses the "Delete Book" button.		
Preconditions:	1. The System is connected to the database.		
Postconditions:	1. The book is not displayed on the website.		
Normal Flow:	1.Admin enters ISBN number. 2.System validate that the ISBN number exist in the database. 3.System displays and overview of the book information. 4.System asks the Admin if they want to confirm the deletion of the book or Edit the ISBN number. 5.Admin confirms the book deletion by pressing the confirmation button. 6.System deletes the book from the database. 7.System shows a message that the book has been deleted successfully.		
Alternative Flows:	5a. If the admin chooses the edit ISBN number option. 1.System shows the book ISBN information again. 2.Admin edits the ISBN. 3.It continues from (STEP 3) in normal flow.  2a. If the book does not exist in the database 1.System shows an error message that the book does not exist. 2.Two options appear either get back to the admin page or delete another book.		
Exceptions:	2a.If the number of ISBN is shorter than 10 : 1.System display an error message that the ISBN number is invalid. 2.Two options appear either get back to the admin page or delete another book. 3.Admin choose to get back to the admin page. 4.Admin page appear.  2b. 2a.If the number of ISBN is shorter than 10 :		

	1.System display an error message that the ISBN number is invalid. 2.Two options appear either get back to the admin page or delete another book. 3.Admin choose to delete another book. 4.It continuous from (Step 1) in normal flow.
Assumptions:	The Admin have the book information
Notes and Issues:	Rule for deleting a book. Should the book be banned from the database.

Use case ID:	UC.7		
Use Case Name:	Search for a book		
Created by:	Abbad Alabbad	Last Updated by:	2021\ 3\ 27
Date Created:	2021\ 3\ 27	Last Revision Date:	2021\ 3\ 27
Actors:	Individuals, BookStore Owner		
Description:	1. The functionality of finding a specific book in the database.		
Trigger:	1. The user presses the search box.		
Preconditions:	1. The device is connected to the internet.		
Postconditions:	1. The requested book was found.		
Normal Flow:	1. The search box is selected by the user. 2. The user starts entering the name of the book. 3. The system suggests the books that have similar letters to their name. 4. The user selects the suggested book that matches the book they wanted. 5. The system shows the information of the selected book.		
Alternative Flows:	4a. if the input does not match any book in the database: The system prompts the user that the book is not found.		
Exceptions:	2a. if the user is not connected to the internet: The system prompts the user that they are not connected to the internet.		
Assumptions:	The user can write in both Arabic and English. The user knows the name of the book.		
Notes and Issues:			

Use case ID:	UC.8		
Use Case Name:	Sell a book		
Created by:	Abbad Alabbad	Last Updated by:	2021\ 3\ 27
Date Created:	2021\ 3\ 27	Last Revision Date:	2021\ 3\ 27
Actors:	Individuals, BookStore Owner		
Description:	1. The functionality to put a book the user owns on sell for others to buy.		
Trigger:	1. The user selects the option to sell a book.		
Preconditions:	1. The device is connected to the internet.		
Postconditions:	1. The book that the user put on sell, is now on display for others to buy.		
Assumptions:	The user has the book within their position.		
Notes and Issues:	The details that are needed to provide by the seller will be decided later.		

Use case ID:	UC.9		
Use Case Name:	Lease a book		
Created by:	Abbad Alabbad	Last Updated by:	2021\ 3\ 27
Date Created:	2021\ 3\ 27	Last Revision Date:	2021\ 3\ 27
Actors:	Individuals, Bookstore Owner		
Description:	1. The functionality to put a book the user owns for leasing for others who want to lease.		
Trigger:	1. The user selects the option to lease a book.		
Preconditions:	1. The device is connected to the internet.		
Postconditions:	1. The book that the user put on lease, is now on display for others to lease.		
Assumptions:	1. The user has the book within their position.		
Notes and Issues:	1. The details that are needed to provide by the leaser will be decided later.		

Use case ID:	UC.10		
Use Case Name:	Buy a book		
Created by:	Ali Aljumah	Last Updated by:	Ali Aljumah
Date Created:	27/3/2021	Last Revision Date:	27/3/2021
Actors:	Individuals, The System		
Description:	This function allows individuals to buy books which are presented on the application for sale.		
Trigger:	It is triggered when the user clicks the buy button and the money's transaction is complete.		
Preconditions:	<ol style="list-style-type: none"> <li>1. The buyer can afford to buy the book.</li> <li>2. The buyer provides his\her address.</li> <li>3. The wanted book is available.</li> </ol>		
Postconditions:	<ol style="list-style-type: none"> <li>1. The buyer receives his\her book.</li> <li>2. The buyer receives a receipt for the purchase.</li> <li>3. The System is informed about the purchase.</li> </ol>		
Normal Flow:			
Alternative Flows:			
Exceptions:			
Assumptions:	<ol style="list-style-type: none"> <li>1. The system is online.</li> <li>2. The user understands English.</li> </ol>		
Notes and Issues:	<ol style="list-style-type: none"> <li>1. An external payment system shall be invoked in the system to manage the payment process.</li> </ol>		

Use case ID:	UC.11		
Use Case Name:	Digital Copy		
Created by:	Ali Aljumah	Last Updated by:	Ali Aljumah
Date Created:	27/3/2021	Last Revision Date:	27/3/2021
Actors:	Individuals, The System		
Description:	1. This function allows the user to download a digital copy of books.		
Trigger:	1. The download button in the book's information page.		
Preconditions:	<ol style="list-style-type: none"> <li>1. The digital copy is available.</li> <li>2. It is approved that the book can be distributed in a digital form.</li> <li>3. The copy is full and with high quality.</li> </ol>		



Postconditions:	1. The digital copy is downloaded.
Normal Flow:	<ol style="list-style-type: none"> <li>1. The user writes the name of the intended book in the search bar.</li> <li>2. The user clicks on the search button.</li> <li>3. The system will show a list of all possible results.</li> <li>4. The user clicks on the intended book.</li> <li>5. The system will show the book's information page.</li> <li>6. The user clicks on the download button.</li> <li>7. A digital copy (PDF) will be downloaded on the user's device.</li> </ol>
Alternative Flows:	<p>5a. if there are multiple languages of the digital copy of the book: The user clicks on the download button. A list of all available languages will appear in a pop-up window. The user clicks on the preferred language. A digital copy (PDF) of that language will be downloaded on the user's device.</p>
Exceptions:	<p>3a. if there is not any result of the intended book. The system shows a message that there are no books of that name and asks the user to type it in different format. The user clicks on the search button. The system will show a list of all possible results. And continue as step 4 in the normal flow.</p>
Assumptions:	<p>The book is in the original language. The digital book can have multiple languages. The system is online. There is a digital copy of the intended book.</p>
Notes and Issues:	<p>The file can get corrupted. The large size of the digital copies in the servers.</p>

Use case ID:	UC.12		
Use Case Name:	See Condition		
Created by:	Ali Aljumah	Last Updated by:	Ali Aljumah
Date Created:	27/3/2021	Last Revision Date:	27/3/2021
Actors:	Individuals, The System		
Description:	This functionality allows the user to see the book's status, whether it is available, unavailable, pending, or other conditions.		
Trigger:	1. It is triggered by clicking the view condition's button on the book's information page.		
Preconditions:	1. The book is in the database.		
Postconditions:	<ol style="list-style-type: none"> <li>1. The status appears.</li> <li>2. The status agrees the real condition of the book.</li> </ol>		
Normal Flow:	1. The user searches for the intended book.		

	<ol style="list-style-type: none"> <li>2. The user clicks on the book.</li> <li>3. The system shows the book's information page.</li> <li>4. The user clicks on the view status button.</li> <li>5. The system will show the status and more information of the book in a pop-up window.</li> </ol>
Alternative Flows:	2a. if we change the button's location: The user clicks on the view status button below the book's icon. The system will show the status and more information of the book in a pop-up window.
Exceptions:	
Assumptions:	The system is online. The status is initiated.
Notes and Issues:	The information of the status is going to be announce later

Use case ID:	UC.13		
Use Case Name:	Set a Notification		
Created by:	Ali Aljumah	Last Updated by:	Ali Aljumah
Date Created:	27/3/2021	Last Revision Date:	27/3/2021
Actors:	Individuals, The System		
Description:	This function allows the user to set a notification for a certain book in case the book's status changes. So it shall send a message to alert the user.		
Trigger:	It is triggered by the conformation button after specifying the book and setting the notification's configurations.		
Preconditions:	1. The book is in the database.		
Postconditions:	1. A message is sent to the user. The status changes from its current condition.		
Normal Flow:			
Alternative Flows:			
Exceptions:			
Assumptions:	1. The system is online. 2. The book's condition is other than available.		
Notes and Issues:			

Use case ID:	UC.14		
Use Case Name:	Review a book		
Created by:	Abdulrahman Azhar	Last Updated by:	
Date Created:	26/03/2021	Last Revision Date:	26/03/2021
Actors:	Individuals		
Description:	The individuals can review the books they read so other users have more knowledge and honest opinions about the book they want.		
Trigger:	1. The user chooses a book		
Preconditions:	1. The user should have already bought the book.		
Postconditions:	1. The book is reviewed, and other users are able to read the reviews		
Assumptions:	1. The user has read the book.		
Notes and Issues:	1. What is the maximum number of words can a review have?		

Use case ID:	UC.15		
Use Case Name:	See all reviews		
Created by:	Abdulrahman Azhar	Last Updated by:	
Date Created:	27-3-2021	Last Revision Date:	
Actors:	Individuals, bookstore owners		
Description:	The user can see all reviews for a certain book to decide whether to buy it or not.		
Trigger:	1. The user chooses a book.		
Preconditions:	1. The device is connected to the internet.		
Postconditions:	1. The user knows other people's opinion about the book		
Assumptions:	1. The user understands the language used in the reviews.		
Notes and Issues:	1. What if there was more than one language?		

Use case ID:	UC.16		
Use Case Name:	See top selling		
Created by:	Abdulrahman Azhar	Last Updated by:	

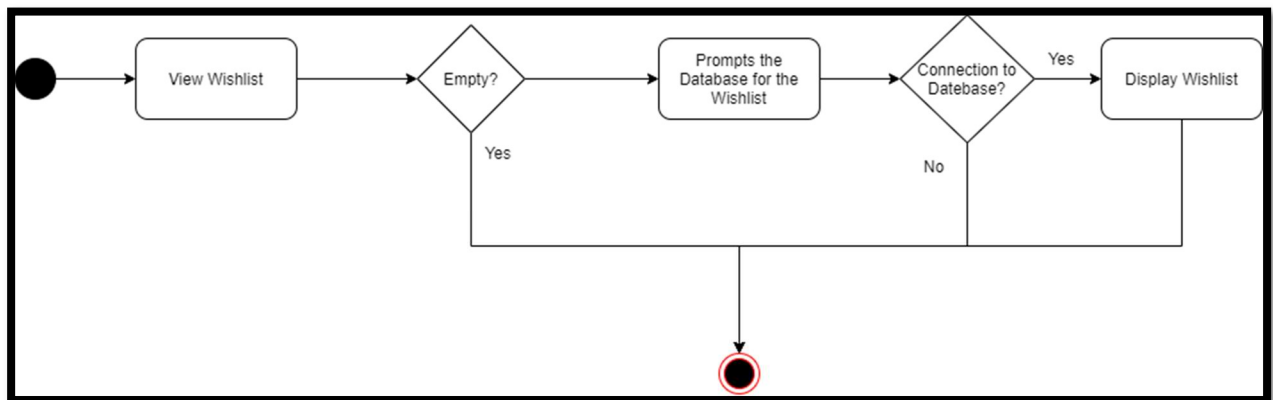
Date Created:	25th march 2021	Last Revision Date:	
Actors:	Individuals Book store owner		
Description:	The individuals can check the top selling books that might get their attention		
Trigger:	The individuals or bookstore owners goes to the top selling list		
Preconditions:	The device is connected to the internet		
Postconditions:	The individual/bookstore owner knows what the top selling books are.		
Normal Flow:	1. The user swipe to the "Top Selling" page. 2. The System shows the top selling books of this week		
Alternative Flows:	The user swipe to the "Top Selling" page. The System shows the top selling books of this week The user drops the drop-down list labeled "Weekly" A list with set periods of times is shown The user chooses the time period he wants (monthly, yearly, All time, ...). The list of the top selling books is updating to match the chosen period.		
Exceptions:	2a) There are no books sold. The system shows a message " There are no books sold".		
Assumptions:			
Notes and Issues:	How many books are shown in one page?		

Use case ID:	UC.17		
Use Case Name:	Create an account		
Created by:	Fahad AL-OSAIMI	Last Updated by:	3/27/2021
Date Created:	3/25/2021	Last Revision Date:	3/27/2021
Actors:	Individuals Book store owner		
Description:	Allow the users to create an account on BookMart.		
Trigger:	The user press "Sign Up" button.		
Preconditions:	1. The user have an internet connection 2. The user have a valid e-mail.		
Postconditions:	An Account is successfully created on BookMart.		
Normal Flow:	1. The user presses "sign up" option. 2. The system prompt the user for their information. 3. The user enter their information.		

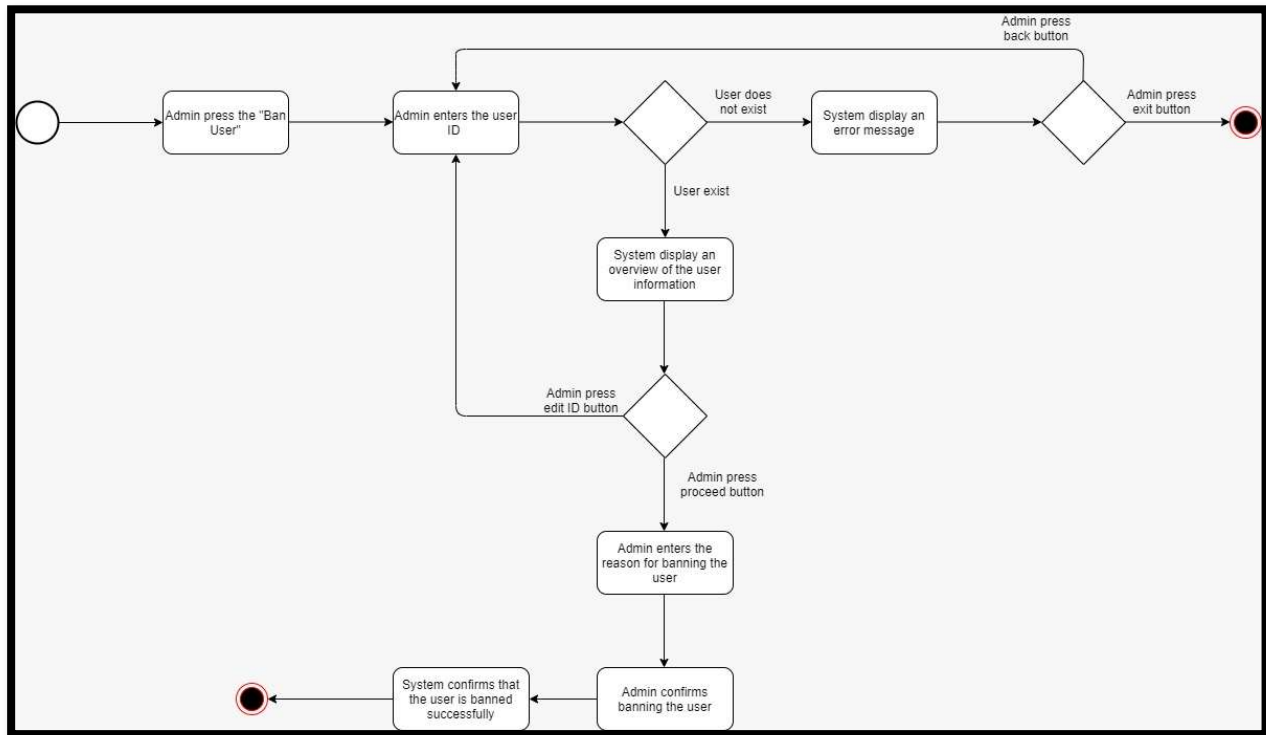
	4. The System validate if the user information is valid and correct.
Alternative Flows:	-
Exceptions:	<p>3a. In step 3 of the normal flow, if the e-mail is not correct. 1. The system display an error message to the user.</p> <p>3a. In step 3 of the normal flow, if the password is less than 6 digits. 1. The system display an error message to the user.</p>
Assumptions:	1. The user have an access to their e-mail.
Notes and Issues:	Should multiple accounts be allowed?

#### d. Activity Diagram

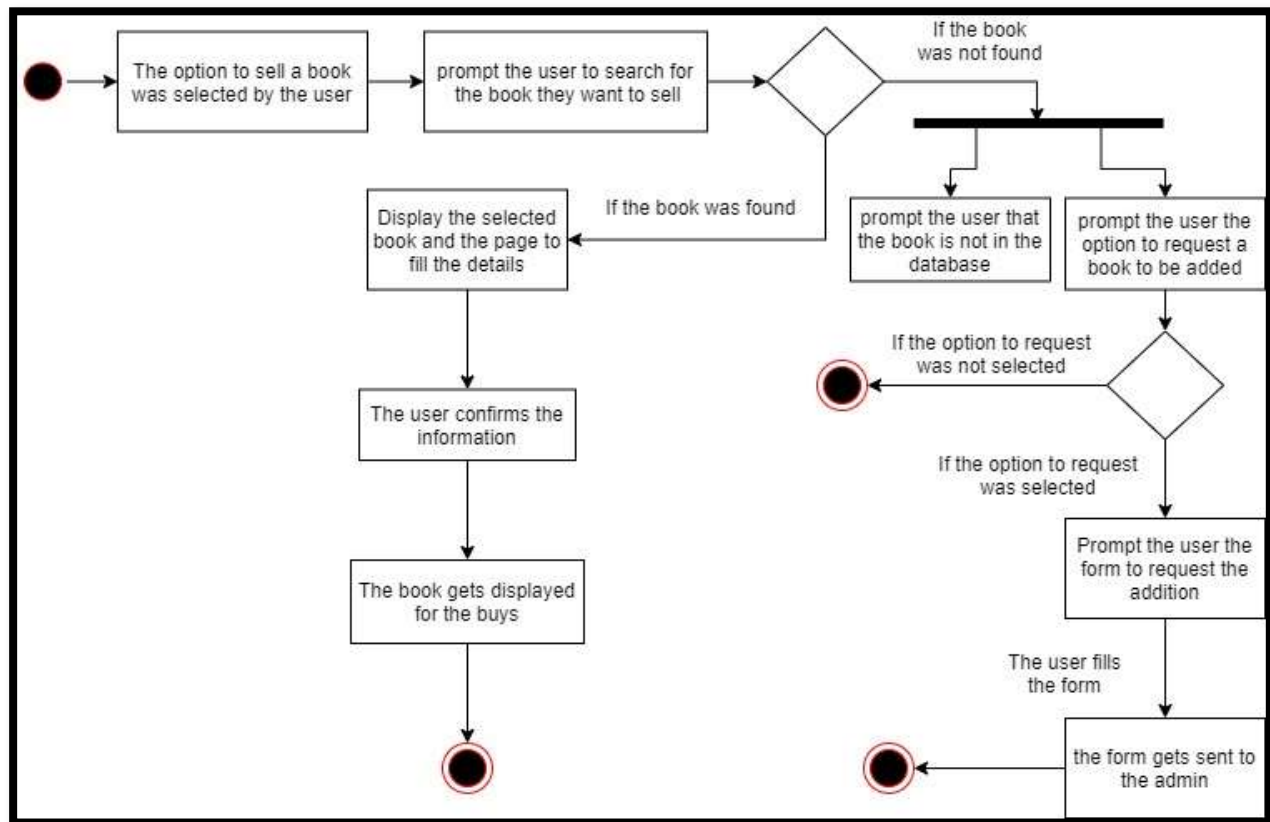
View Wishlist:



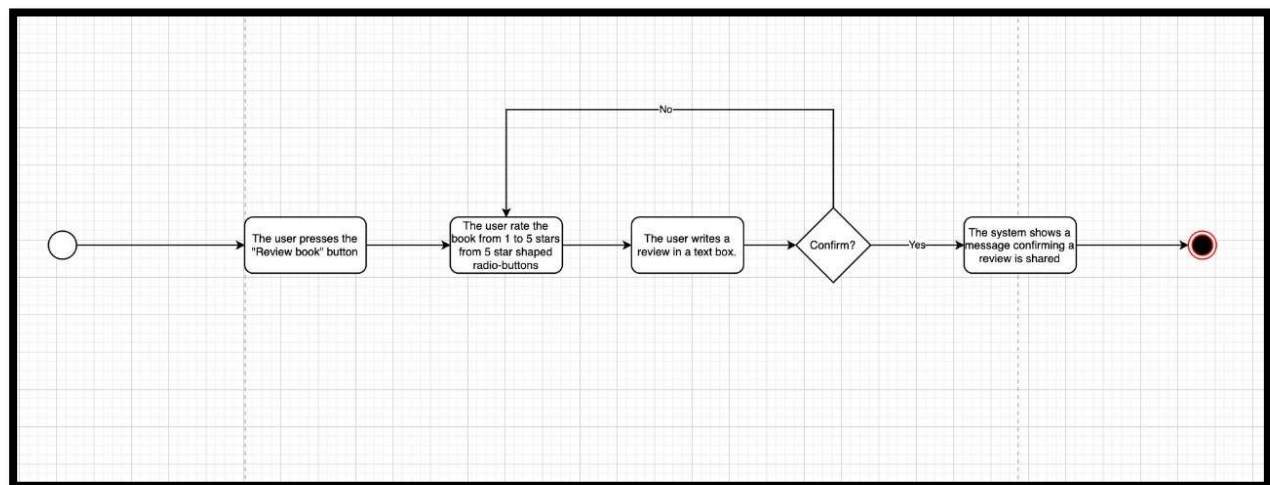
## Ban User:



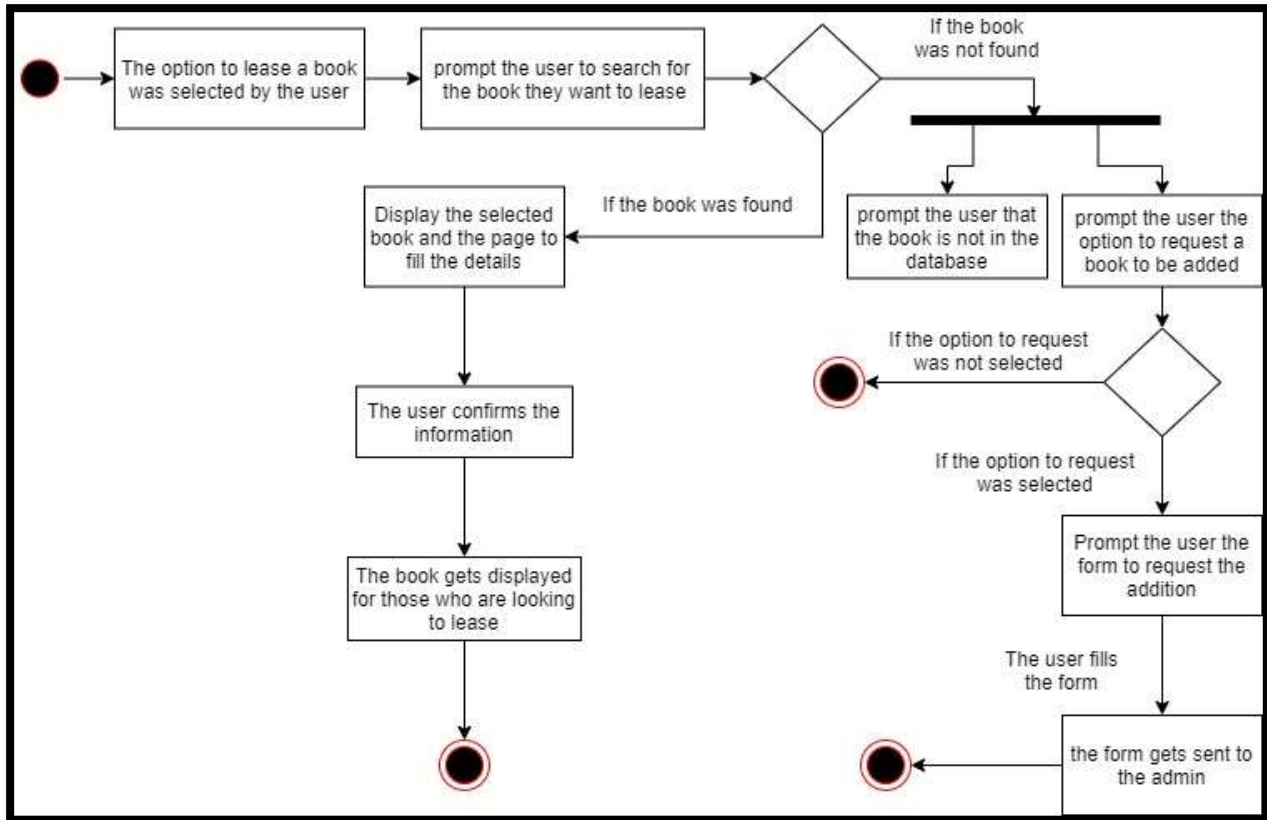
Sell A book:



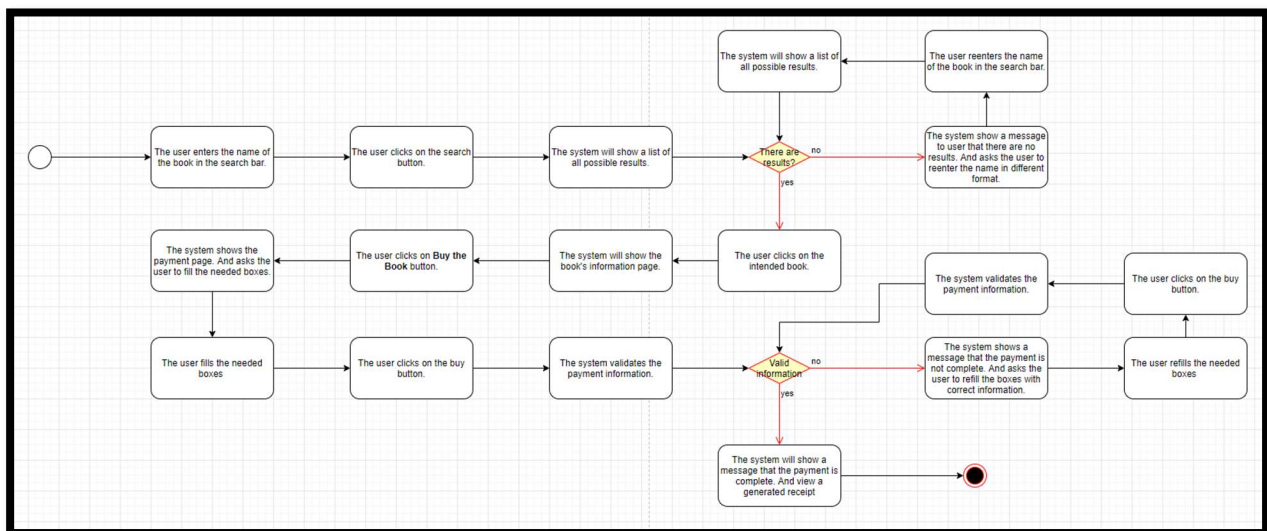
Review A book:



## Lease A book:

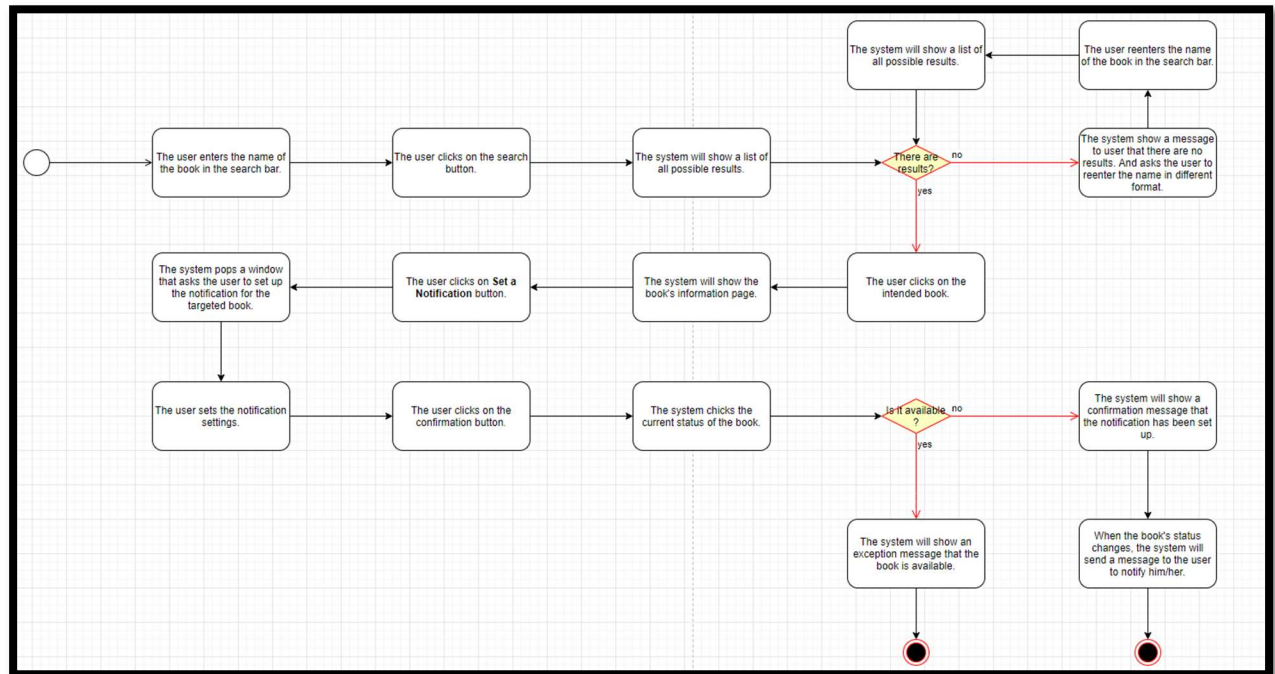


## Buy A book:

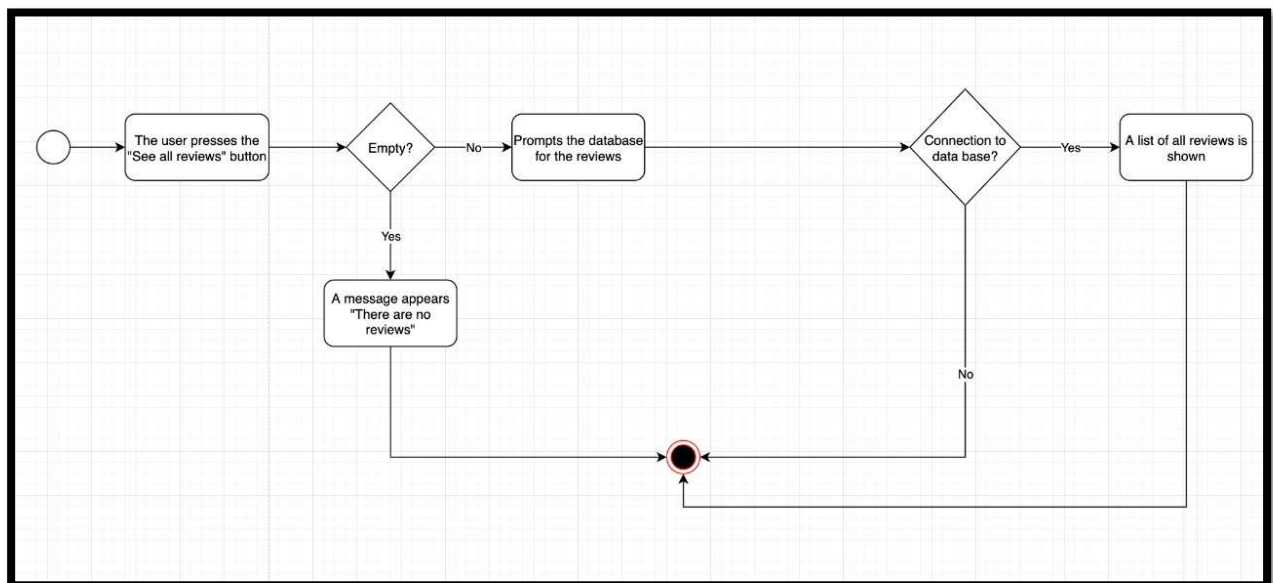




## Set a Notification:



## See All Reviews:



## **5. Analysis Models**

*a. Interaction Diagrams*

*b. Class Diagrams*

## **6. Prototype Screen with Scenarios**