

Online Library System

Part 2 – Individual

Name: Krithika Balan

Project: Online Library System

Requirements:

ID	Requirement	Actor
UR-002	As a customer, I want an option to log in using my credentials so that I can access my account	Customer
UR-006	As a customer, I want a dashboard so that I can manage the books that I have borrowed	Customer
UR-007	As a customer, I want to be able to search for books based on titles, authors, genres or ISBN	Customer
UR-008	As a customer, I want an option to post reviews for books so that I can write reviews for the book that I have read.	Customer
UR-009	As a customer, I want to see a book's description so that I can view details of the book and other users' reviews before I borrow it.	Customer
UR-010	As a customer, I want to have an option to contact library staff so that I can ask queries.	Customer
UR-017	As an administrator, I want to be able to create/remove staff accounts so that I can manage staff user accounts.	Admin
UR-020	As a library staff, I want to be able to manage customer accounts so that I can add/remove customer accounts.	Staff

Use Case Documents:

Use Case ID:	UC-002		
Use Case Name:	Customer Login		
Description:	Customer can login to the library system using user-ID and password.		
Actors:	Customer		
Pre-conditions:	Customer must have an account in the system		
Post-conditions:	Customer is logged in and the customer dashboard is displayed.		
Frequency of Use:	Frequently		
Flow of Events:		Actor Action	System Response
	1	Customer enters credentials and clicks on the Login button	User is authenticated and the customer dashboard is displayed
Variations:			
Exceptions:	Incorrect credentials will generate an error message and the user remains on the login screen		
Developer Notes:			

Use Case ID:	UC-006a
Use Case Name:	Extend Due Date for Book
Description:	Customer can extend the due dates for books that they have borrowed

Actors:	Customer		
Pre-conditions:	Customer must be logged into the system and must be on the customer dashboard page		
Post-conditions:	Due date is extended for the selected book.		
Frequency of Use:	Often		
Flow of Events:		Actor Action	System Response
	1	User clicks the Extend button for a specific book	Due date for the book is extended and the updated information is displayed on the customer dashboard.
Variations:			
Exceptions:	If the customer has already extended the selected book twice, then the due date is not extended and an error message is displayed on the screen.		
Developer Notes:			

Use Case ID:	UC-006b
Use Case Name:	Return Book
Description:	Customer can return a book that they have borrowed

Actors:	Customer		
Pre-conditions:	Customer must be logged into the system and must be on the customer dashboard page		
Post-conditions:	The selected book removed from the customer's list of borrowed books.		
Frequency of Use:	Frequently		
Flow of Events:		Actor Action	System Response
	1	User clicks the Return button for a specific book	The selected book is removed from the customer's list of borrowed books and the updated information is displayed on the customer dashboard.
Variations:			
Exceptions:			
Developer Notes:			

Use Case ID:	UC-007
Use Case Name:	Search for books in the library based on search categories.
Description:	A customer can search the available books in library based on Title, Author, Genre or ISBN.

Actors:	Customer	
Pre-conditions:	Customer is logged into the system.	
Post-conditions:	Customer can see the books that match the search key in the selected category	
Frequency of Use:	Frequently	
Flow of Events:		Actor Action
		System Response
	1.	Customer clicks on the drop down provided
		Drop down provides the list of search categories: Title, Author, Genre, ISBN.
	2.	Customer enters the search string and submits.
		System queries the database as per given criteria and displays the results on the screen.
Variations:		
Exceptions:	If there are no book in the database that match the entered criteria, an error message will be displayed instead of the search results.	
Developer Notes:		

Use Case ID:	UC-008
Use Case Name:	Post Reviews
Description:	Customers can post reviews for books

Actors:	Customer		
Pre-conditions:	Customer must be logged in to the system and must on the book description page		
Post-conditions:	Review is displayed on the book description page		
Frequency of Use:	Often		
Flow of Events:		Actor Action	System Response
	1	User types the review into the space provided and clicks the Post button	The review for the selected book is stored in the database
	2	Customer views book description page	All the reviews for the selected book are displayed including the review posted by the customer.
Variations:			
Exceptions:			
Developer Notes:			

Use Case ID:	UC-009a
Use Case Name:	View Book Description
Description:	Customer can view a book's description including user reviews.

Actors:	Customer		
Pre-conditions:	Customer must be logged in to the system		
Post-conditions:	The description of the selected book is displayed including user reviews		
Frequency of Use:	Frequently		
Flow of Events:		Actor Action	System Response
	1	Customer searches for books based on title, author, ISBN or genre	Search results are displayed based on the search criteria
	2	Customer clicks on a book listed in the search results	The description of the book, including user reviews is displayed on a separate page.
Variations:			
Exceptions:	If the book that the customer searches for is not present in the database, an appropriate message will be displayed instead of the search results.		
Developer Notes:			

Use Case ID:	UC-009b
Use Case Name:	Borrow book
Description:	Customer can borrow a book after viewing the book description.

Actors:	Customer		
Pre-conditions:	Customer must be logged in to the system and on book description page of a book.		
Post-conditions:	The book is checked out to the customer and the updated dashboard is displayed		
Frequency of Use:	Frequently		
Flow of Events:		Actor Action	System Response
	1	Customer clicks on the Borrow button the book description page	The book is checked out to the customer and added to the customer's list of borrowed books
	2		The customer dashboard is displayed with the updated list of borrowed books.
Variations:			
Exceptions:	If the book is already checked out to the customer, then the Borrow button will not be displayed on the book's description page.		
Developer Notes:			

Use Case ID:	UC-010
Use Case Name:	Contact Staff
Description:	Customer can contact library staff with any questions

Actors:	Customer		
Pre-conditions:	Customer must be logged in to the system		
Post-conditions:	Customer question is posted to library staff.		
Frequency of Use:	Often		
Flow of Events:		Actor Action	System Response
	1	Customer clicks the Contact Us button on the customer dashboard	A form with input fields for question details is displayed.
	2	Customer fills in question details and clicks on the Submit button	The question is saved in the database.
Variations:			
Exceptions:	If any fields in the form are left blank, then an error message is displayed to the user and the question is not posted to the database.		
Developer Notes:			

Use Case ID:	UC-017a
Use Case Name:	Create Staff Account
Description:	Admin can create new staff accounts

Actors:	Admin		
Pre-conditions:	Admin must be logged in to the system and must be on the admin dashboard page		
Post-conditions:	Staff account is added to the system		
Frequency of Use:	Rarely		
Flow of Events:		Actor Action	System Response
	1	Admin clicks the Add Staff button in the admin dashboard	Form is displayed where staff details need to be filled
	2	Admin fills in details of the staff and clicks on the Submit button	Information entered is validated and the staff record is created in the database
Variations:			
Exceptions:	If there are any incorrect details in the form, then the system displays an error message and the staff account is not created.		
Developer Notes:			

Use Case ID:	UC-017b
Use Case Name:	Remove Staff Account
Description:	Admin can remove staff accounts

Actors:	Admin		
Pre-conditions:	Admin must be logged in to the system and must be on the admin dashboard page		
Post-conditions:	Staff account is removed from the system		
Frequency of Use:	Rarely		
Flow of Events:		Actor Action	System Response
	1	Admin clicks the Remove Staff button in the admin dashboard	Text field is displayed, requesting the Staff ID.
	2	Admin fills in the staff ID and clicks on the Submit button	The staff record is obtained and the admin is asked to confirm the removal action
	3	Admin clicks OK to confirm the removal of staff account	The staff account is removed from the system and the admin dashboard is displayed again.
Variations:	<ul style="list-style-type: none"> - If the admin clicks NO in the confirmation page, the staff account is not removed and the text field for entering staff ID is displayed again. - If the admin cancels the removal process at any time, he is taken back to the admin dashboard. 		
Exceptions:	If the Staff ID entered is not present in the database, then an error message is displayed.		
Developer Notes:			

Use Case ID:	UC-020a
Use Case Name:	Create Customer Account
Description:	Staff can create new customer accounts

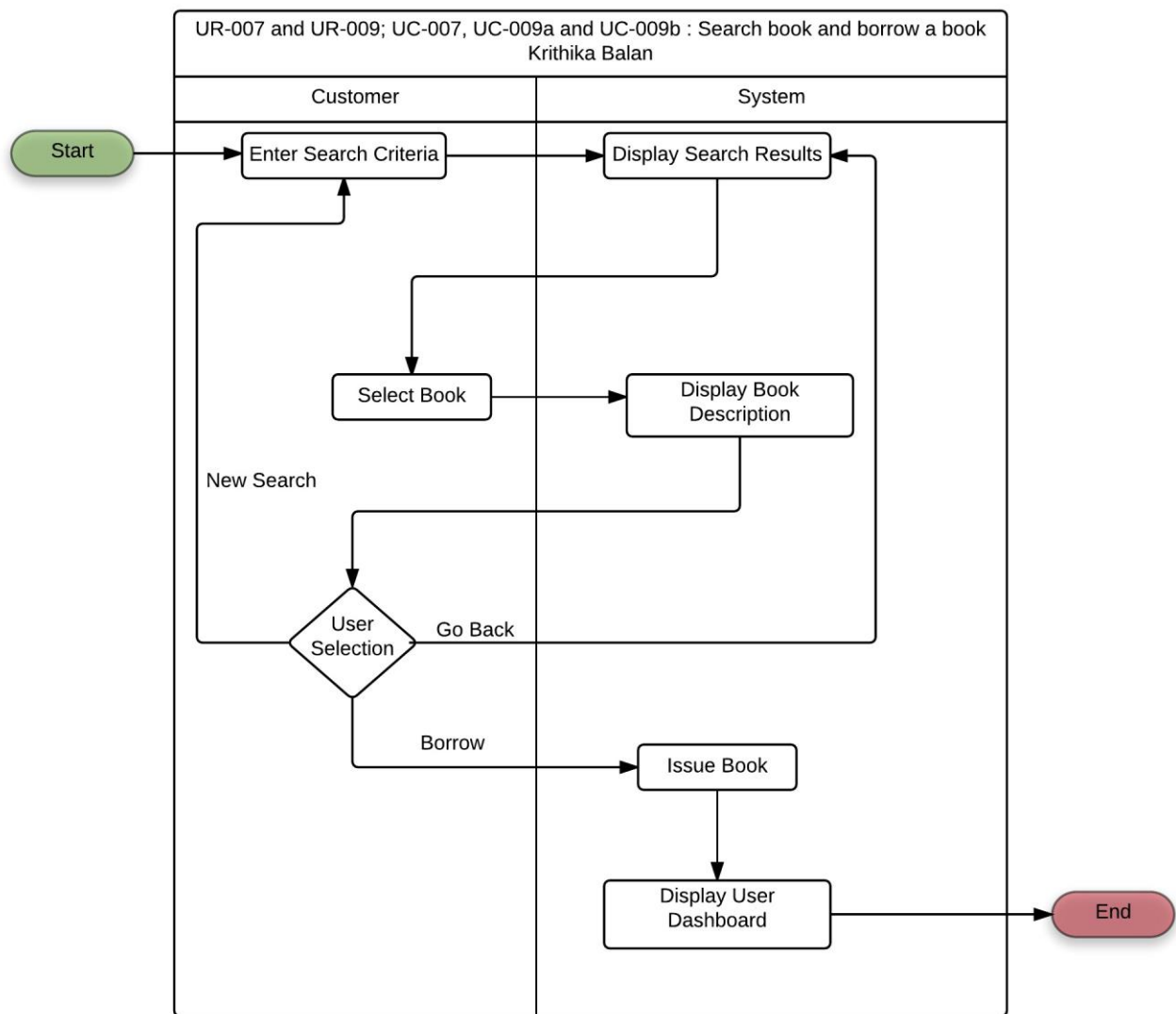
Actors:	Staff		
Pre-conditions:	Staff must be logged in to the system and must be on the staff dashboard page		
Post-conditions:	Customer account is added to the system		
Frequency of Use:	Rarely		
Flow of Events:		Actor Action	System Response
	1	Staff clicks the Add Customer button in the staff dashboard	Form is displayed where customer details need to be filled
	2	Staff fills in details of the customer and clicks on the Submit button	Information entered is validated and the customer account is created
Variations:			
Exceptions:	If there are any incorrect details in the form, then the system displays an error message and the customer account is not created.		
Developer Notes:			

Use Case ID:	UC-020b
Use Case Name:	Remove Customer Account
Description:	Staff can remove customer accounts

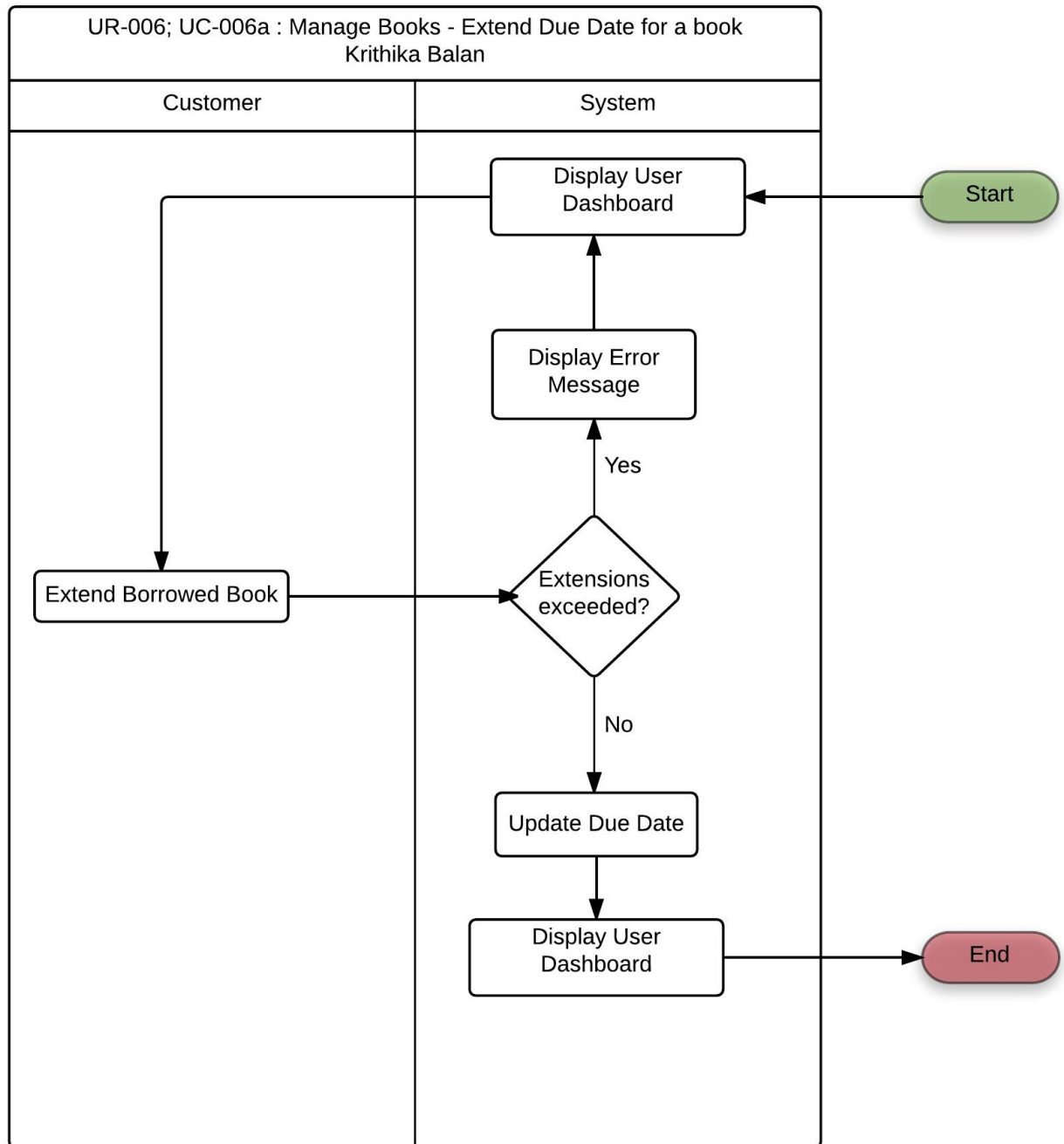
Actors:	Staff		
Pre-conditions:	Staff must be logged in to the system and must be on the staff dashboard page		
Post-conditions:	Customer account is removed from the system		
Frequency of Use:	Rarely		
Flow of Events:		Actor Action	System Response
	1	Staff clicks the Remove Customer button in the staff dashboard	Text field is displayed, requesting the Customer ID.
	2	Staff fills in the Customer ID and clicks on the Submit button	The customer record is obtained and the staff is asked to confirm the removal of the customer account
	3	Staff clicks OK to confirm the removal of customer account	The customer account is removed from the system and the staff dashboard is displayed again.
Variations:	<ul style="list-style-type: none"> - If the staff clicks NO in the confirmation page, the customer account is not removed and the text field for entering Customer ID is displayed again. - If the staff cancels the removal process at any time, he is taken back to the staff dashboard. 		
Exceptions:	If the Customer ID entered by the staff is not present in the database, then an error message is displayed.		
Developer Notes:			

Activity Diagram:

- 1. Requirement ID : UR-007 and UR-009
- Use Case ID : UC-007, UC-009a and UC-009b
- Description : Search for a book and borrow the book
- Author : Krithika Balan

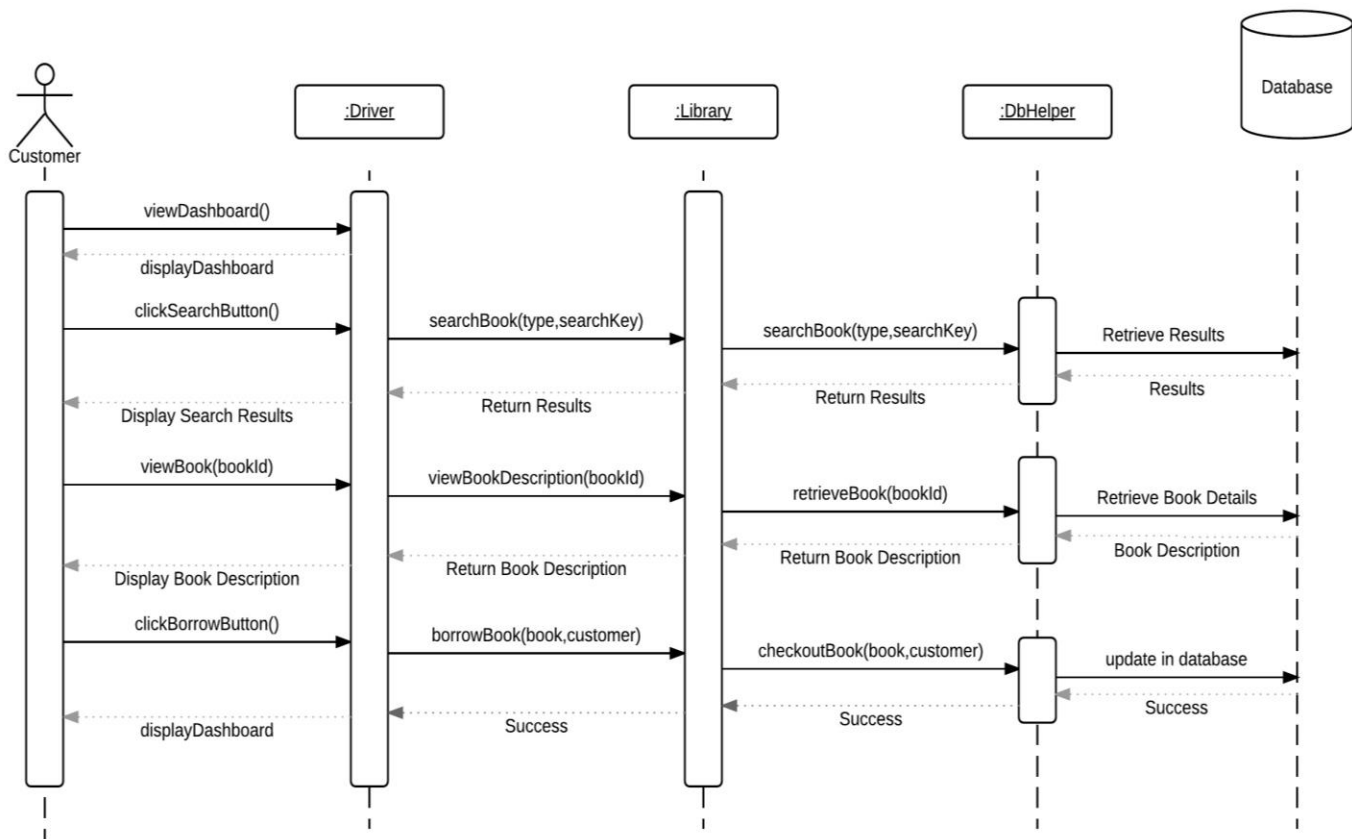


2. Requirement ID : UR-006
Use Case ID : UC-006a
Description : Search for a book and borrow the book
Author : Krithika Balan



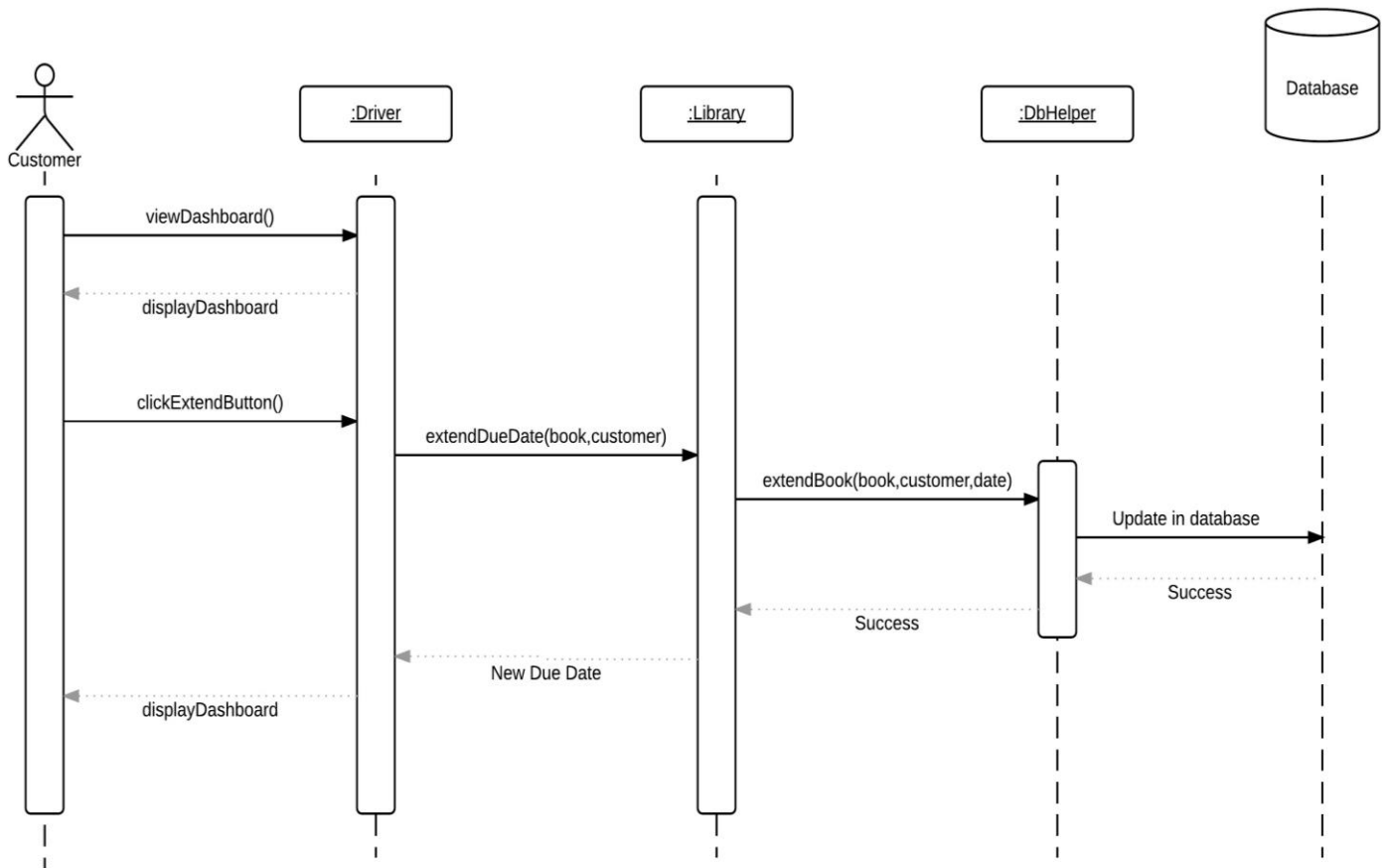
User Interactions:

1. Requirement ID : UR-007 and UR-009
- Use Case ID : UC-007, UC-009a and UC-009b
- Description : Search for a book and borrow the book
- Author : Krithika Balan



UC-007,UR-009; UC-007, UC-009a, UC-009b - Searching for a book and borrowing a book - Krithika Balan

2. Requirement ID : UR-006
Use Case ID : UC-006a
Description : Search for a book and borrow the book
Author : Krithika Balan



UR-006; UC-006a - Extending Due Date for a book - Krithika Balan