Online Library System
Part 2 - Individual

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Project: Online Library System

Requirements:

Use case documents, Activity and Sequence Diagrams are covered for requirement UR-014.

ID	Requirement	Topic Area	Actor	Priority
UR-014	As a library staff, I want dashboard so that I can add and remove books in circulation.	Dashboard	Staff	High

This requirement basically takes care of the adding and removing book to the system. This will be required by a staff member only and he/she will complete this tasks using the Add Book and Remove Book options available on his/her dashboard.

Additionally, only use case documents are available for following requirements:

ID	Requirement	Topic Area	Actor	Priority
UR-003	As a customer, I want to update my profile so that i can provide my details	Account	Customer	Medium
UR-012	As a library staff, I want to be able to login, so that I can access my account.	Account	Staff	High
UR-015	As a library staff, I want to able to manage customer accounts so that I block/unblock accounts when needed	Account	Staff	Medium
UR-018	As an administrator, I want to able to manage user accounts so that I can block/unblock users as needed.	Account	Admin	High
UR-019	As a library staff, I want an update book functionality so that I can update the details of book in circulation.	Dashboard	Staff	High

Use Case Documents

A: Use case documents for use cases described in Activity Diagram and Sequence Diagram

Use Case ID:	UC-014a
Use Case Name:	Add book to the system.
Description:	Staff member can add books to the system by providing following book details: Title, Author, ISBN, Genre and Book ID.
Actors:	Staff Member
Pre-conditions:	Staff has logged into the system and has the details for the book he wants to add to the system.
Post-conditions:	A new book is added to the system and details are stored for that book.
Frequency of Use:	Weekly.

Flow of Events:		**Actor Action**	**System Response**
	1.	Selects Add Book option	A page for filling up book details is displayed on the screen.
	2.	Enters details such as Book title, Author, ISBN, Genre and Book ID	
	3.	Clicks Add/Save button	Validates the details enters for any incorrect format and displays appropriate error messages if needed. On successful validation, accepts the data and stores the book to the database and displays dashboard.

Variations:	
Exceptions:	3. If validation is failed, a page for filling up book details is displayed again.
Developer Notes:	

Use Case ID:	UC-014b
Use Case Name:	Remove book from the system.
Description:	Staff member can remove the book from system by entering a Book ID.
Actors:	Staff Member
Pre-conditions:	Staff member has the Book ID of the book to be removed from system.
Post-conditions:	Book is removed from the system on and will not be available to customers for borrowing.
Frequency of Use:	Weekly

Flow of Events:		**Actor Action**	**System Response**
	1.	Selects the Remove book option	Displays the page to enter the Book ID of the book to be removed.
	2.	Enters the Book ID	Accepts the Book ID and searches book with specified Book ID in database. On successful operation, displays book and asks for confirmation.
	3.	Responds Yes to confirm the action.	Removes the book from system and displays the dashboard to actor.

Variations:	
Exceptions:	2. On unsuccessful search, again displays the page to enter the Book ID of book to be removed. 3. On responding No, displays the dashboard to actor.
Developer Notes:	

B: Use case documents for additional use cases.

Use Case ID:	UC-003
Use Case Name:	Update Customer Profile
Description:	A customer can update his/her profile by providing or modifying following details: Name, Last name, Date of birth, Gender, Address, Contact information and preferred Genre.
Actors:	Customer
Pre-conditions:	Customer has already completed login process and dashboard is visible to customer. Also, Profile option is visible to customer.
Post-conditions:	Customer profile is updated and he/she can view updated details in profile
Frequency of Use:	Rarely

Flow of Events:		Actor Action	System Response
	1	Clicks on profile option	Displays a page with Customer profile details
	2	Selects an edit profile option	Displays a page to fill up/modify the customer details
	3	Enters or modifies the details	Filed entries are validated
	4	Clicks on Update Profile	Details are updated and stored in database.

Variations:	
Exceptions:	
Developer Notes:	

Use Case ID:	UC-012
Use Case Name:	Login functionality for staff
Description:	Staff member can log into the system using his/her username and password.

Actors:	Staff		
Pre-conditions:	Staff member has the profile created and knows the login username and password. System is running and actor is on login page.		
Post-conditions:	Staff member's dashboard page is displayed after successful login.		
Frequency of Use:	Daily		
Flow of Events:		**Actor Action**	**System Response**
	1.	Enters username and password.	
	2.	Selects the login button	Validates the field entries and completes authentication process. On successful login, displays the staff member's dashboard.
Variations:			
Exceptions:	On entering invalid credentials or entering in incorrect format, systems displays appropriate error message.		
Developer Notes:			

Use Case ID:	UC-015a
Use Case Name:	Block the Customer account
Description:	Staff member can block customer accounts if required by providing a customer account.

Actors:	Staff member		
Pre-conditions:	A customer profile exists in the system. Staff member has logged into system and has the customer ID of the customer to be blocked.		
Post-conditions:	A customer account is blocked and he/she will not be able to borrow/return books within the system.		
Frequency of Use:	Rarely		
Flow of Events:		**Actor Action**	**System Response**
	1.	Selects the Block Account option	Displays the page to enter the Customer Id of the account to be blocked.
	2.	Enters the Customer Id	Accepts the Customer Id and validates the customer ID and asks for confirmation.
	3.	Selects yes for confirmation	Customer account is blocked from the system.
Variations:	3. Selects no for confirmation and system again displays the page to enter the customer Id.		
Exceptions:	2. If validation fails, system again displays the page to enter the customer Id.		
Developer Notes:			

Use Case ID:	UC-015b
Use Case Name:	Unblock the Customer account
Description:	Staff member should be able to unblock the blocked customer accounts if required by providing a customer account.

Actors:	Staff member		
Pre-conditions:	A customer profile exists in the system and account is blocked. Staff member has logged into system and has the customer ID of the customer to be unblocked.		
Post-conditions:	A customer account is unblocked and he/she will be able to borrow/return books within the system.		
Frequency of Use:	Rarely		
Flow of Events:		**Actor Action**	**System Response**
	1.	Selects the Unblock Account option	Displays the page to enter the Customer Id of the account to be unblocked.
	2.	Enters the Customer Id	Accepts the Customer Id and validates the customer ID and asks for confirmation.
	3.	Selects yes for confirmation	Customer account is unblocked from the system.
Variations:	3. Selects no for confirmation and system again displays the page to enter the customer Id.		
Exceptions:	2. If validation fails, system again displays the page to enter the customer Id.		
Developer Notes:			

Use Case ID:	UC-018a
Use Case Name:	Block the Customer account
Description:	Administrator can block customer accounts if required by providing a customer account.

Actors:	Administrator
Pre-conditions:	A customer profile exists in the system. Administrator has logged into system and has the customer ID of the customer to be blocked.
Post-conditions:	A customer account is blocked and he/she will not be able to borrow/return books within the system.
Frequency of Use:	Rarely

Flow of Events:		Actor Action	System Response
	1.	Selects the Block Account option	Displays the page to enter the Customer Id of the account to be blocked.
	2.	Enters the Customer Id	Accepts the Customer Id and validates the customer ID and asks for confirmation.
	3.	Selects yes for confirmation	Customer account is blocked from the system.

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Variations:	3. Selects no for confirmation and system again displays the page to enter the customer Id.
Exceptions:	2. If validation fails, system again displays the page to enter the customer Id.
Developer Notes:	

Use Case ID:	UC-018b
Use Case Name:	Unblock the Customer account
Description:	Administrator should be able to unblock the blocked customer accounts if required by providing a customer account.

Actors:	Administrator		
Pre-conditions:	A customer profile exists in the system and account is blocked. Administrator has logged into system and has the customer ID of the customer to be unblocked.		
Post-conditions:	A customer account is unblocked and he/she will be able to borrow/return books within the system.		
Frequency of Use:	Rarely		
Flow of Events:		**Actor Action**	**System Response**
	1.	Selects the Unblock Account option	Displays the page to enter the Customer Id of the account to be unblocked.
	2.	Enters the Customer Id	Accepts the Customer Id and validates the customer ID and asks for confirmation.
	3.	Selects yes for confirmation	Customer account is unblocked from the system.
Variations:	3. Selects no for confirmation and system again displays the page to enter the customer Id.		
Exceptions:	2. If validation fails, system again displays the page to enter the customer Id.		
Developer Notes:			

Use Case ID:	UC-019
Use Case Name:	Update the book details.
Description:	Staff member can update the details of a book available within system by providing necessary data regarding book details.
Actors:	Staff Member
Pre-conditions:	Book is present in the system. Staff has selected the view book option and a page displaying book details and option for Update Book is visible to staff member.
Post-conditions:	The details of the book are updated as per the data entered by the staff member.
Frequency of Use:	Rarely

Flow of Events:		**Actor Action**	**System Response**
	1.	Selects the update book option.	A page to edit the book details is displayed
	2.	Enters the data for fields such as Title, Author, Genre, ISBN.	
	3.	Clicks the Save button	Entered data is validated for incorrect format. On successful validation, book details are updated and the page containing book details is displayed.

Variations:	
Exceptions:	3. Unsuccessful operation will not update the book details and again a page to edit the book details is shown.
Developer Notes:	

Activity Diagram 1

Activity Diagram for UR-14, UC-14a - Add book to the System   Implemented by: Omkar Pawar
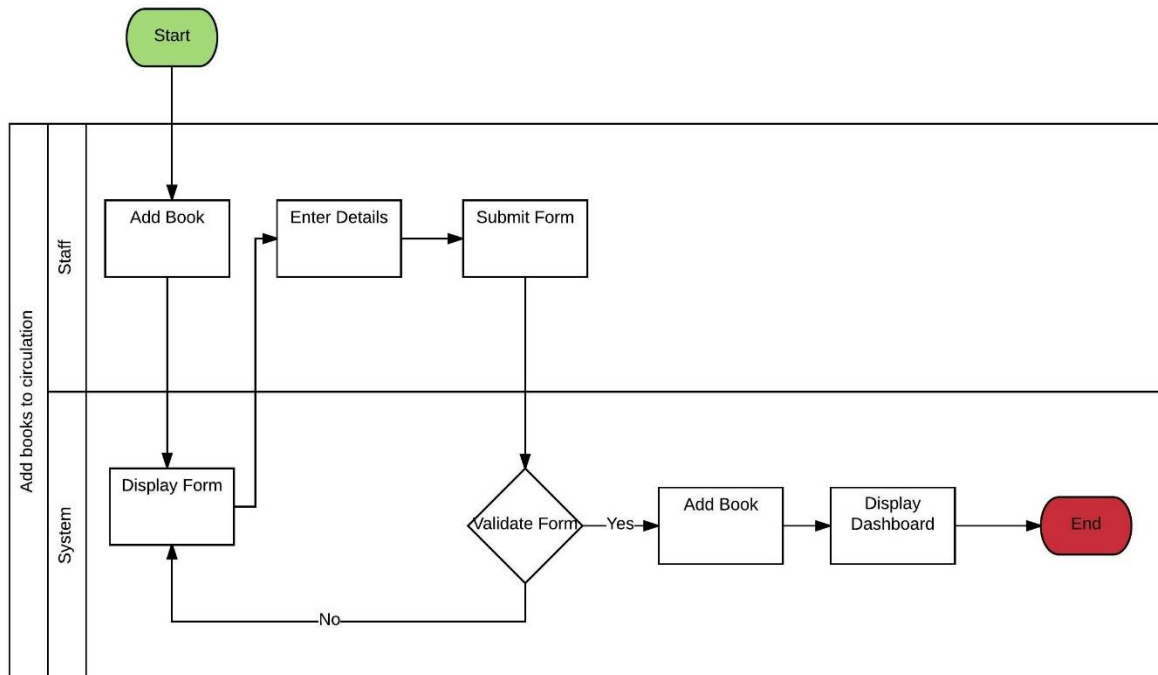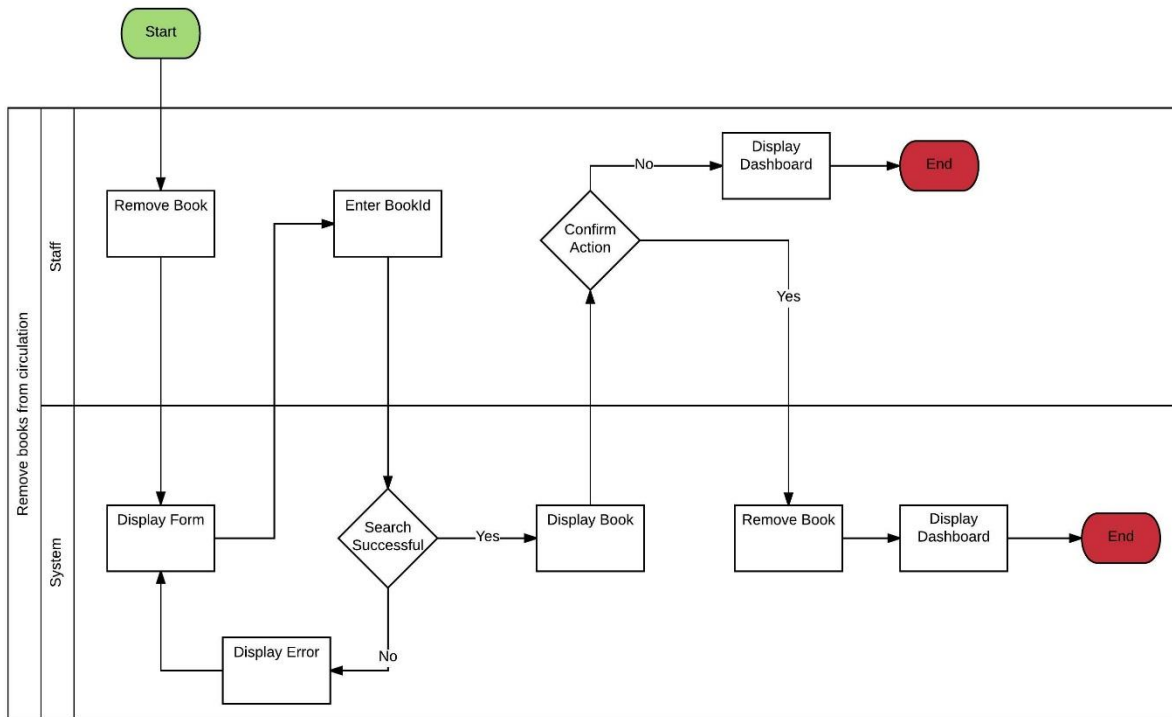
Activity Diagram 2

Activity Diagram for UR-14, UC-14b - Removing book from the System   Implemented by: Omkar Pawar
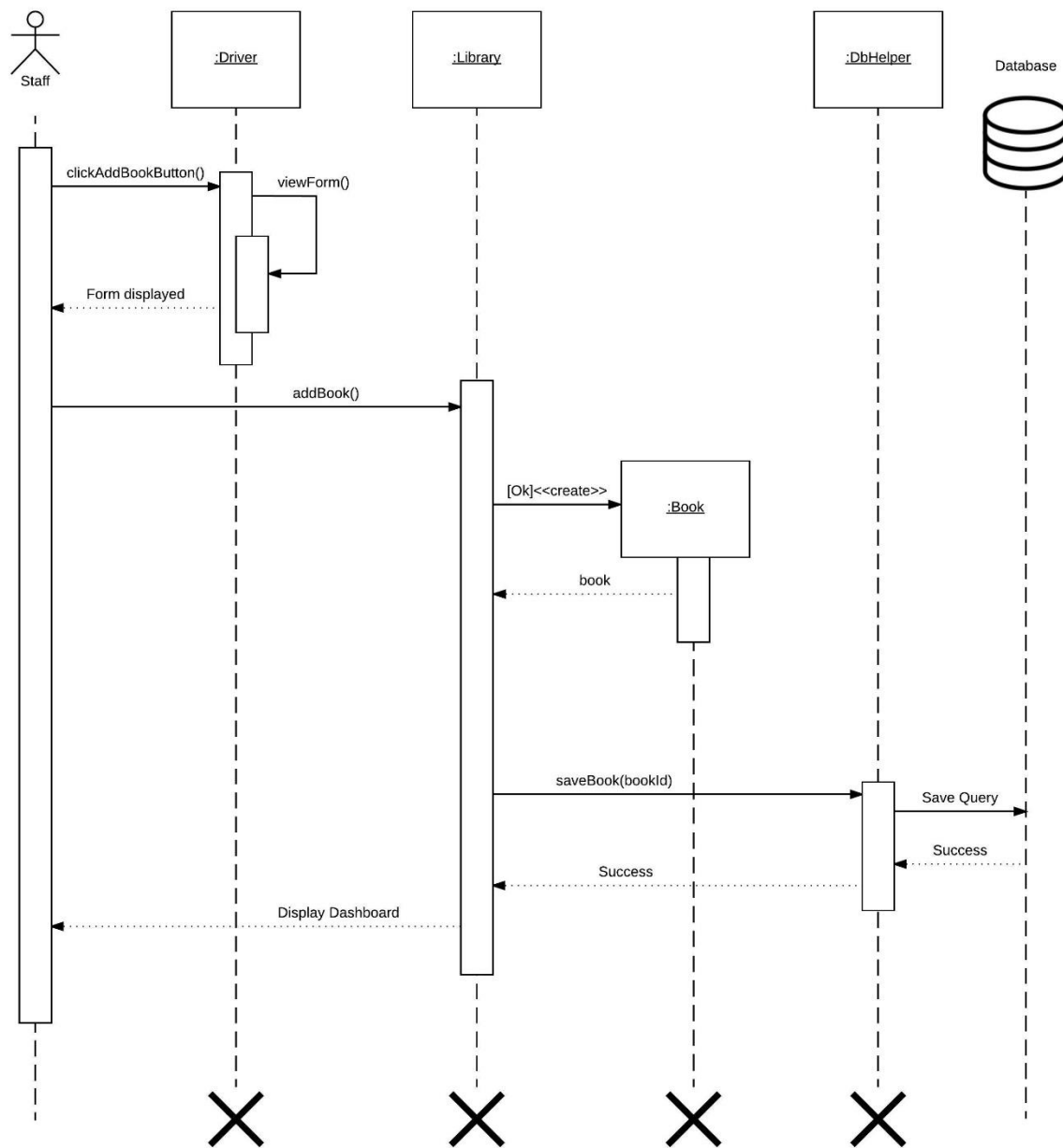
User Interactions:

Sequence Diagram 1

Sequence Diagram for UR-14, UC-14a - Add book to the System   Implemented by: Omkar Pawar

Sequence Diagram 2

Sequence Diagram for UR-14, UC-14b - Removing book from the System   Implemented by: Omkar Pawar