

IT2020 – Software Engineering

Year 2, Semester I, 2023

Group Assignment

Online Hotel Reservation System

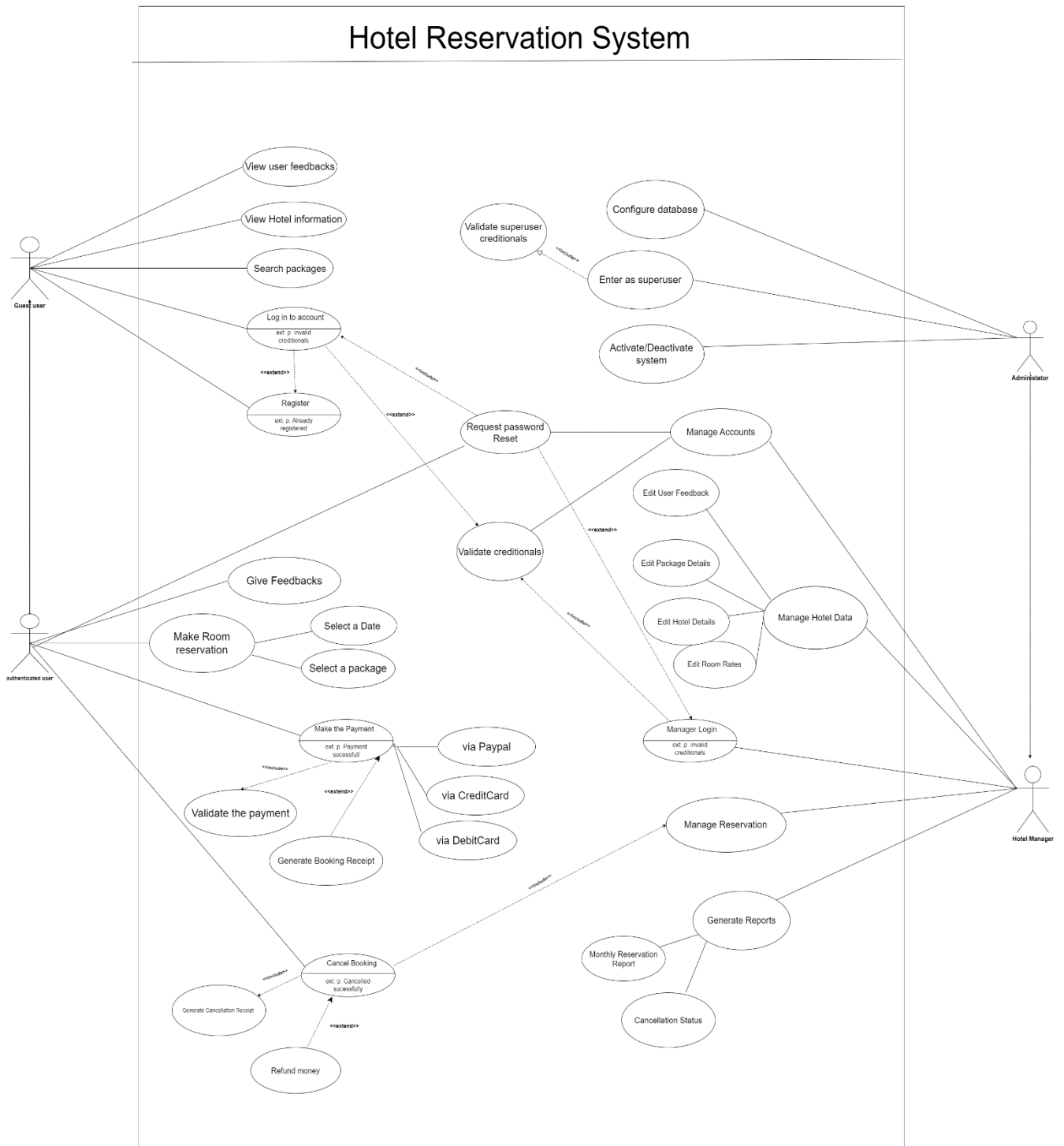
Group Details

Batch: 1.2

SE/OOP Group Number: SE/OOP_2023_S1_WD10

	Student Registration Number	Student Name
1	IT21800900	Lakshan S.N.
2	IT21286100	Yashmila U.D.M
3	IT21315282	Kuruppu K.A.V.U
4	IT21801372	Hemapriya K.K.V.O.D.

Main Use Case



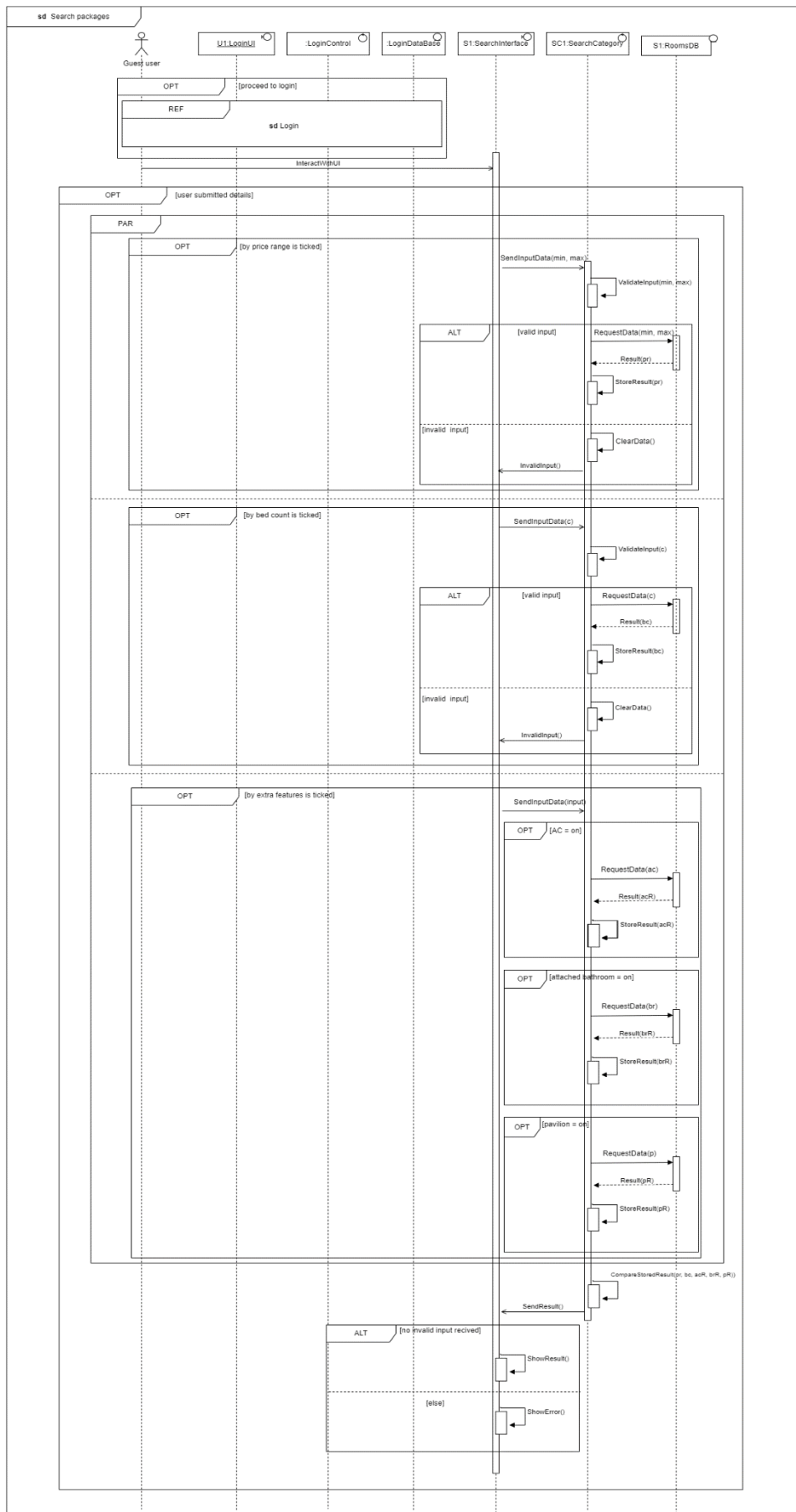
IT21800900 – Lakshan S.N.

Use case scenario (Search packages)

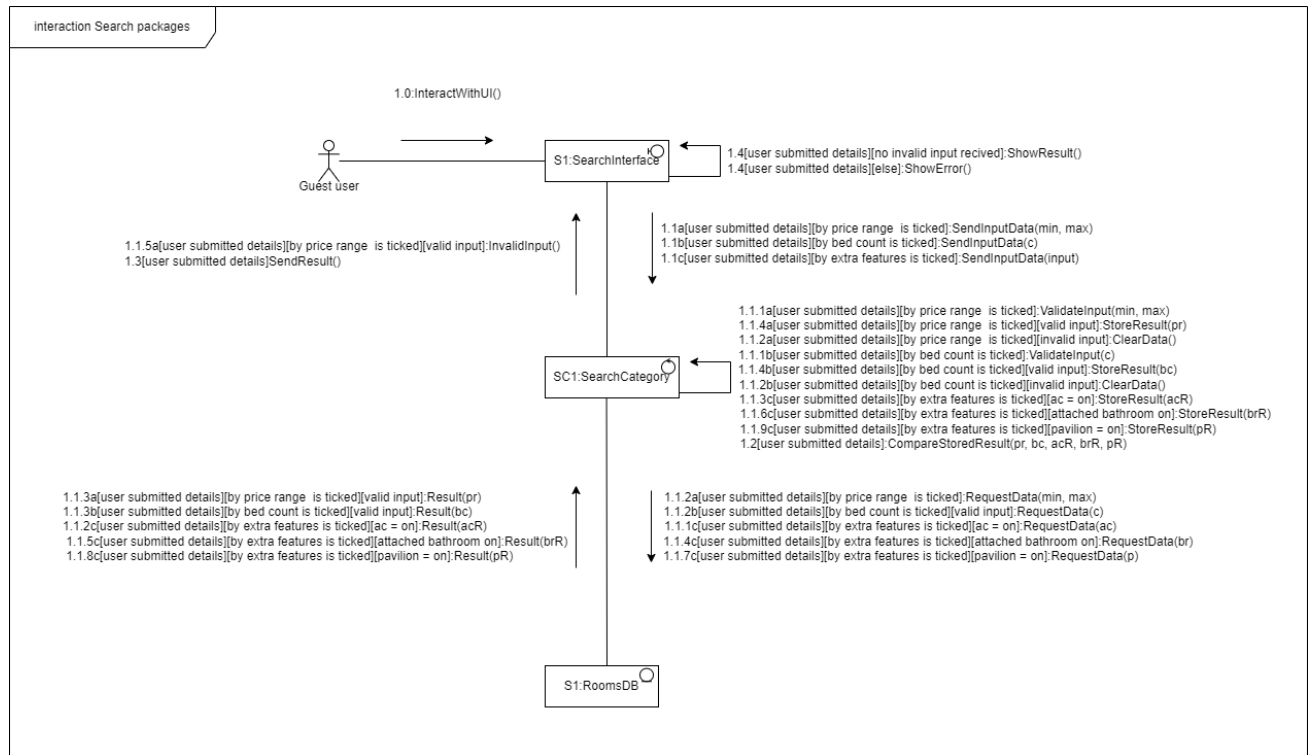
Use Case ID	Use-002	
Use Case Name	Search packages	
Priority	3	
Pre-Condition	Guest has accessed the website (hotel reservation system)	
Post-Condition	- Guest able to see matching hotel rooms and details according to his search criteria - Guest able to see no result/error	
Primary Actor	Guest	
Trigger	Guest clicks on the “search a category “button/link	
Main Success Scenario	Step	Action
	01.	Guest checks in to the page as a guest
	02.	Guest navigates to the hotel room search page without logging in.
	03.	Guest selects relevant checkboxes to specify search criteria.
	04.	Guest enters search details accurately in the input fields.
	05.	Guest enables/disables additional search options using switches.
	06.	Guest submits the search request by clicking the button.
	07.	At the same time system validates each input and stores the search results for each option.
	08.	The system compares all stored inputs and creates a final search result
	09.	The user interface displays the final search results to the guest.
Extensions	02.a	Guest clicks on the login button and is redirected to the login page.
	03.a	Guest does not select any search criteria and tries to proceed without proper inputs.
	04.a	Guest leaves one or more input fields empty while filling out other fields
	04.b	Guest is unable to input data in certain fields due to corresponding tick-box being set to "off"
	07.a	System stores every invalid input received during the submission process for future reference.
	09.b	system displays an error message

IT21800900 – Lakshan S.N.

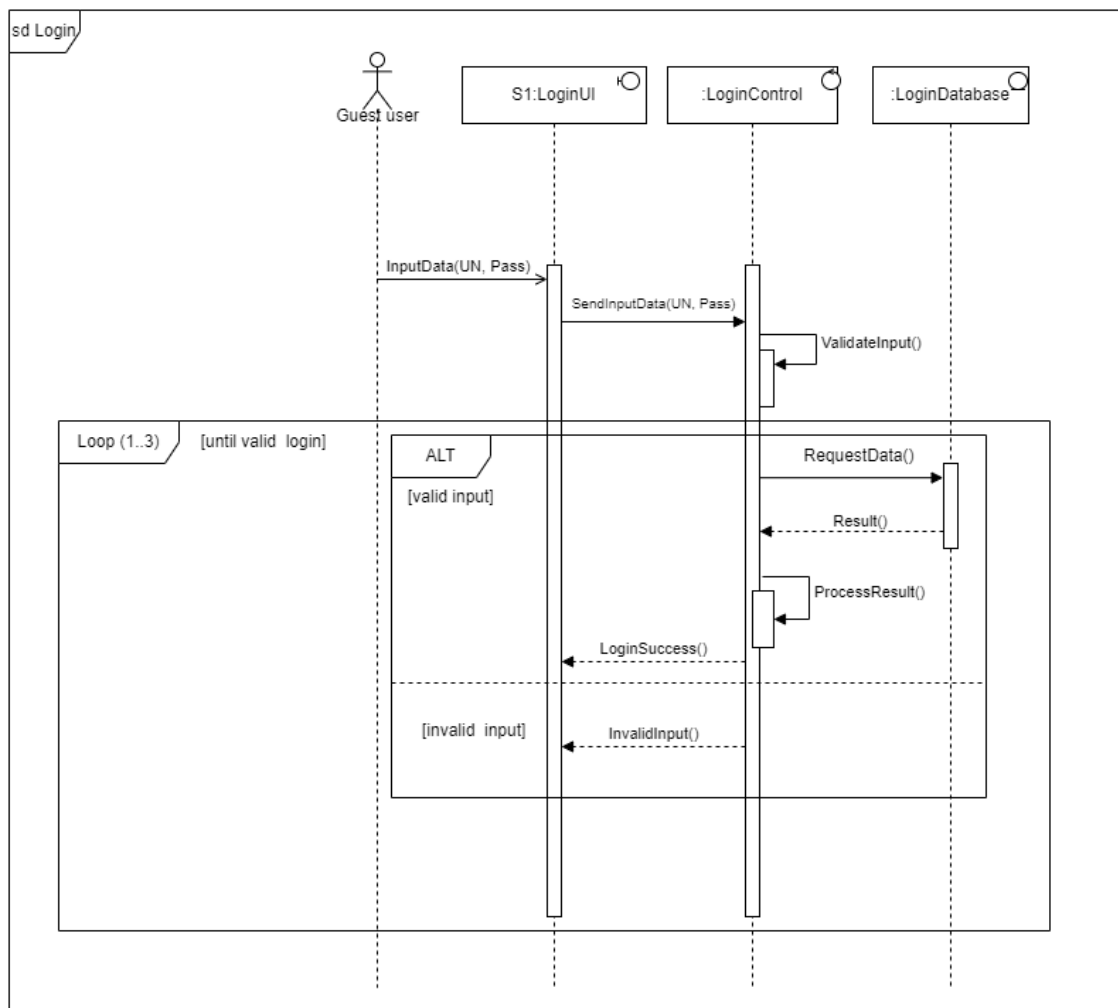
Sequence diagram (Search packages)



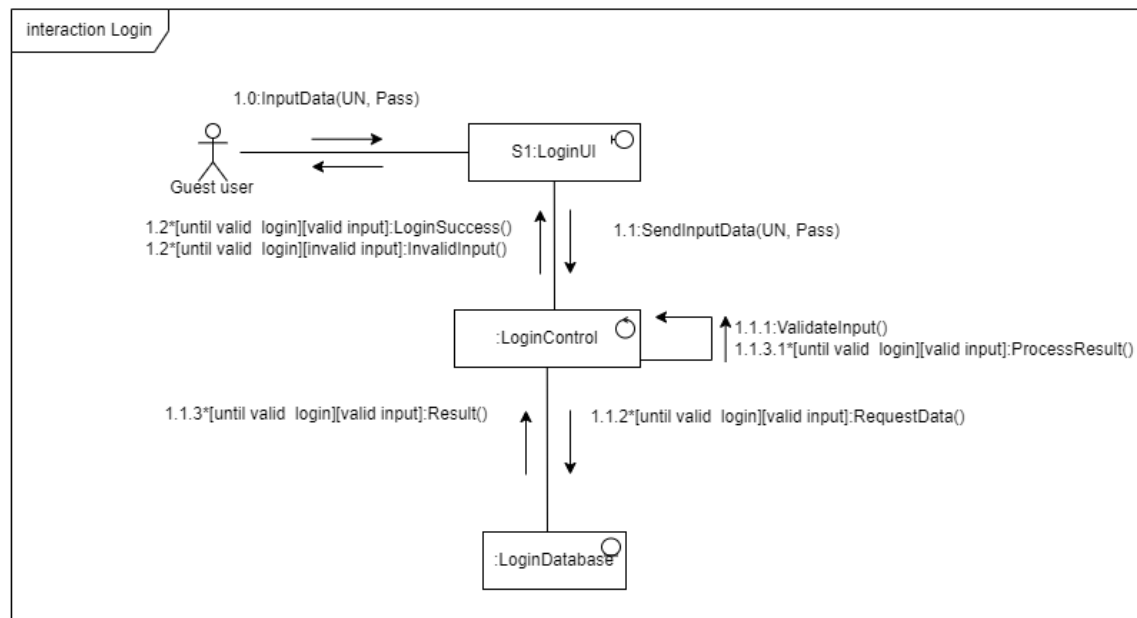
Communication diagram (Search packages)



Sequence diagram (Login)



Communication diagram (Login)

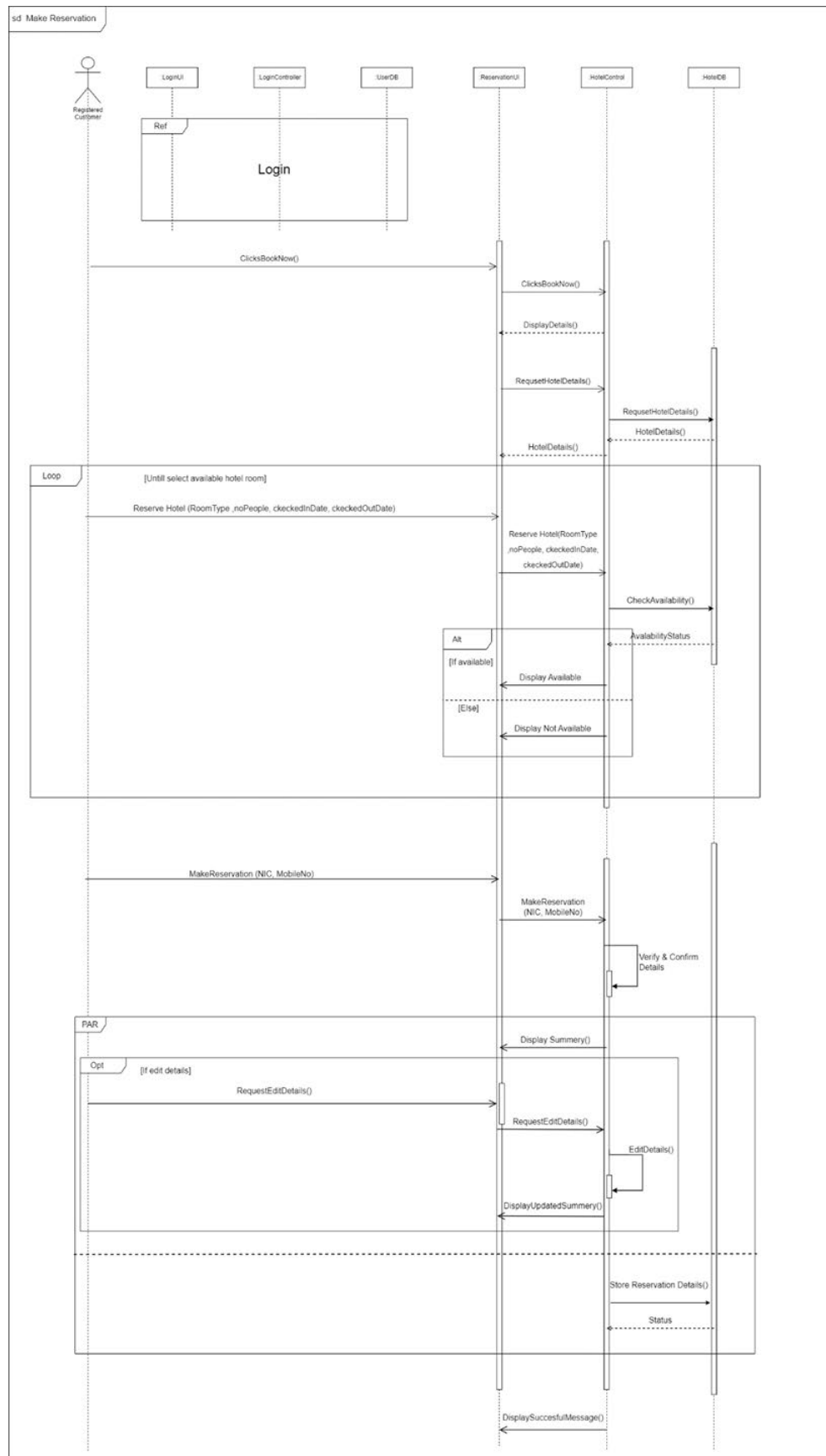


IT21286100 – Yashmila U.D.M

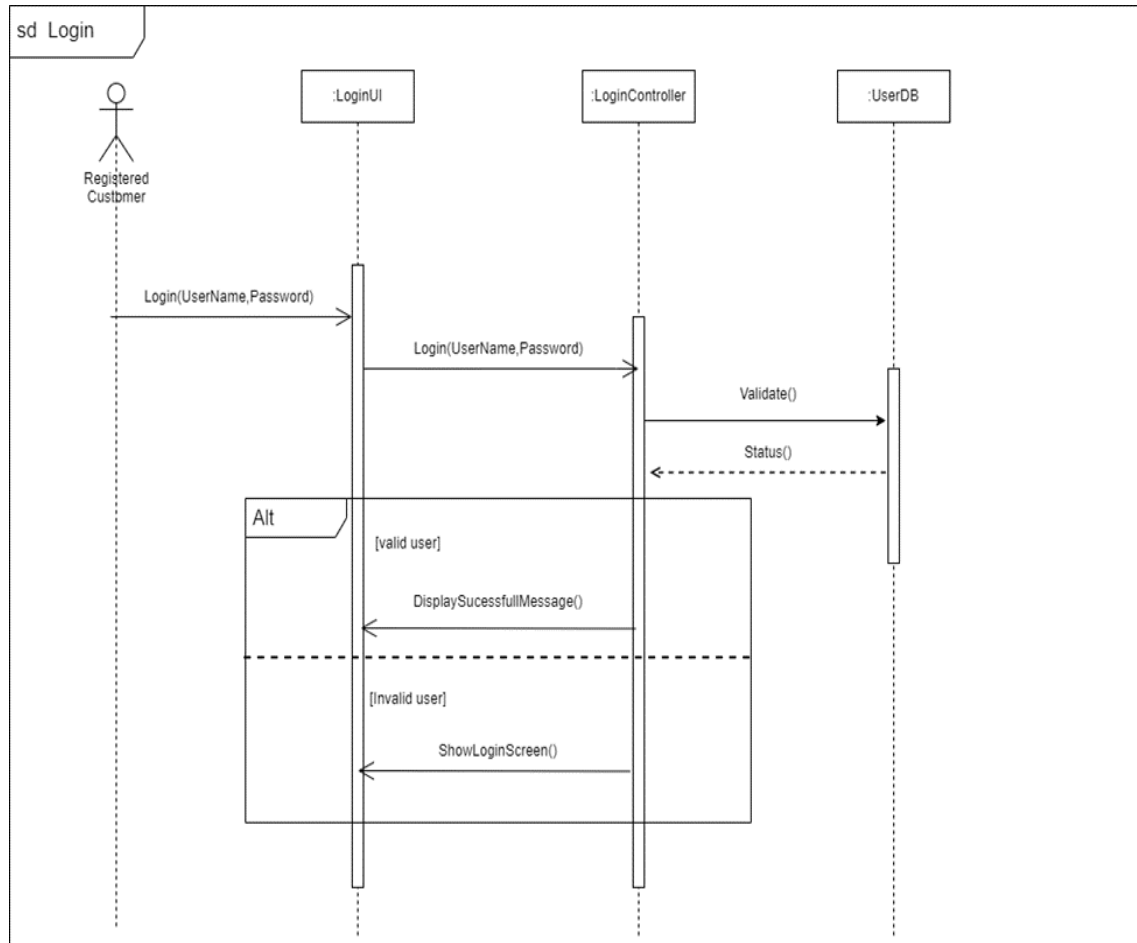
Use case Scenario (Make Reservation)

Use Case ID	Use-003	
Use Case Name	Make Reservation	
Priority	5	
Pre-Condition	Login to the system with valid credentials	
Post-Condition	Directs to the payment page	
Primary Actor	Registered user	
Secondary Actor	System admin	
Trigger	Customer/Registered user wants to make a reservation.	
Main Success Scenario	Step	Action
	1.	User searches web page on a browser.
	2.	Login to the system with valid credentials.
	3.	System validates the user.
	4.	Registered user clicks on book now option.
	5.	Customer directs to reservation page.
	6.	Select & view hotel details.
	7.	Registered users give reservation details.
	8.	System checks the availability.
	9.	Choose a hotel according to the availability.
	10.	Customer reserve hotel rooms.
	11.	Customer gives customer details. (NIC, Mobile number)
	12.	Confirm & verify the details.
	13.	System provides summary and display it.
	14.	System will store reservation details in Database.
	15.	System displays successful message.
Extensions	3a	If login credentials are invalid, then ask to relogging.
	8a	If hotel rooms are available give available message and if not give not available message.
	8b	Customer will check available hotel room until find suitable hotel rooms.
	13a	If a customer wants to edit details, the customer requests the reservation page and allows them to edit.

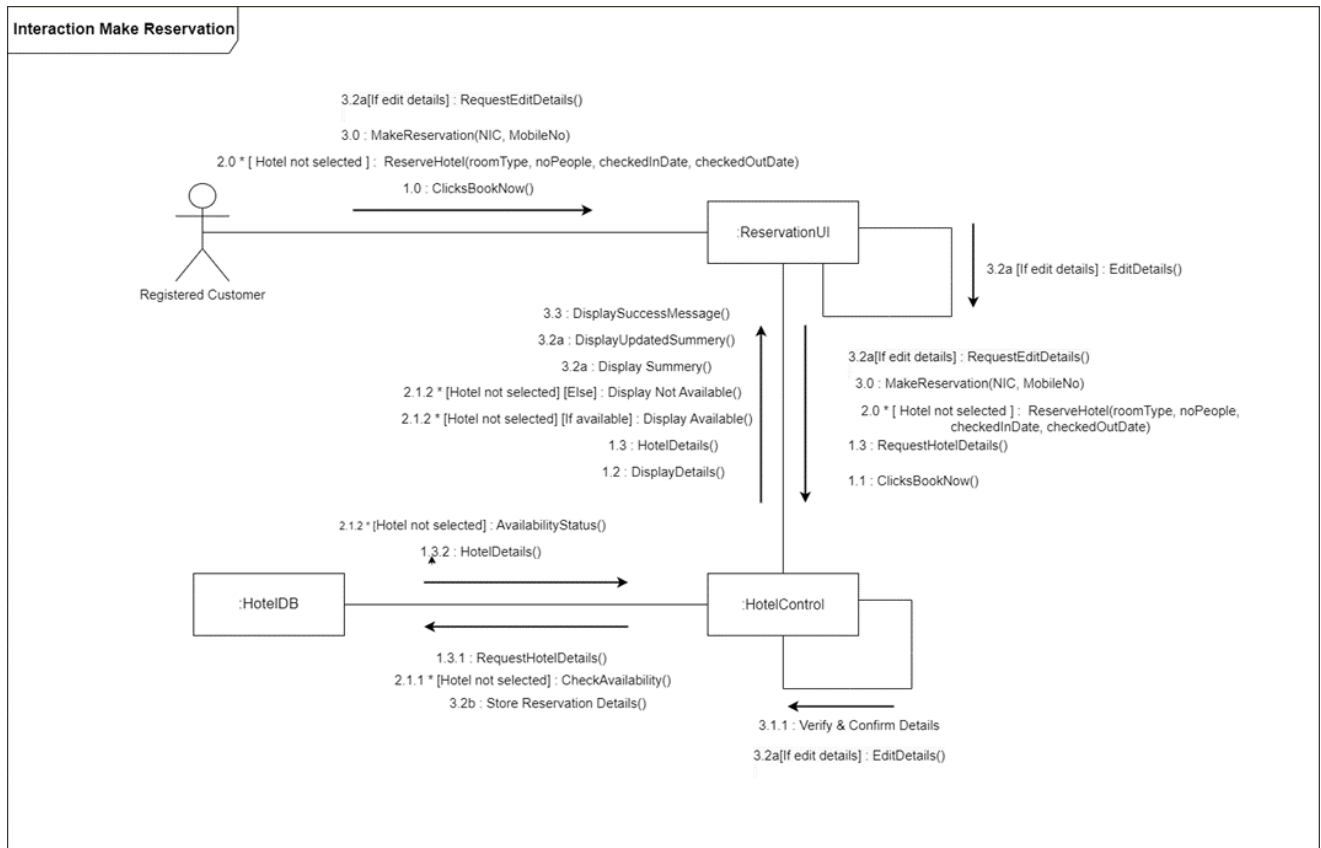
IT21286100 - Sequence Diagram (Make Reservation)



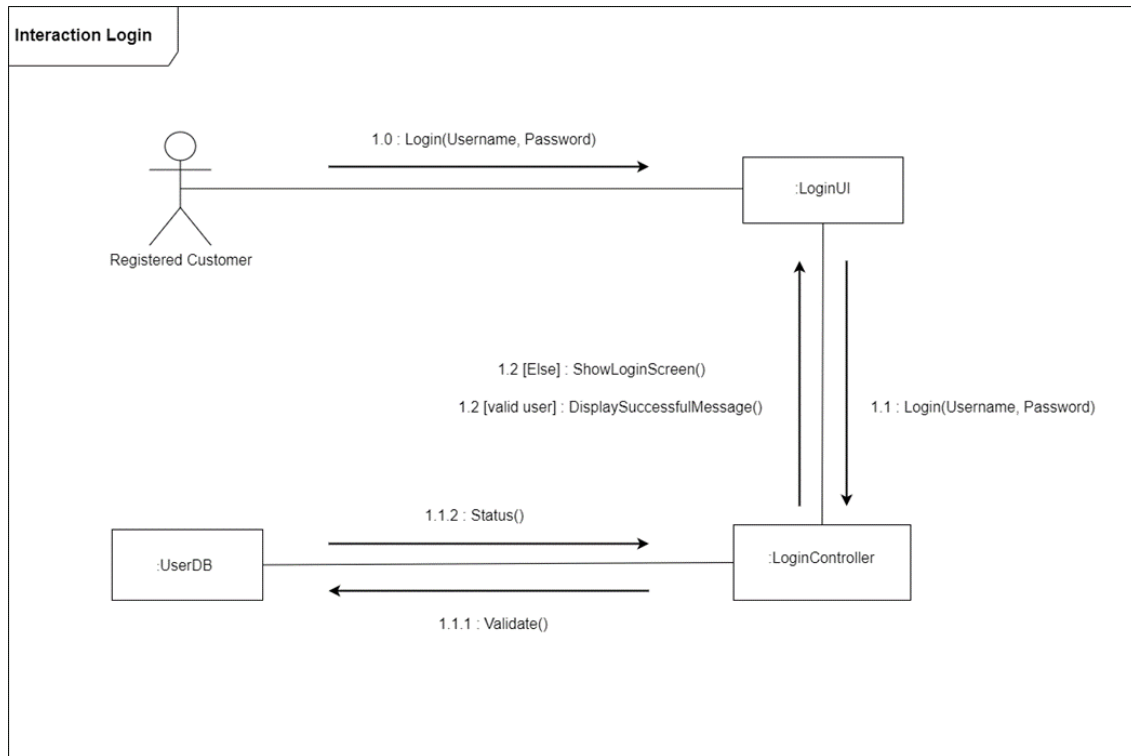
IT21286100 - Sequence Diagram - Login (Ref)



IT21286100 - Communication Diagram (Make Reservation)



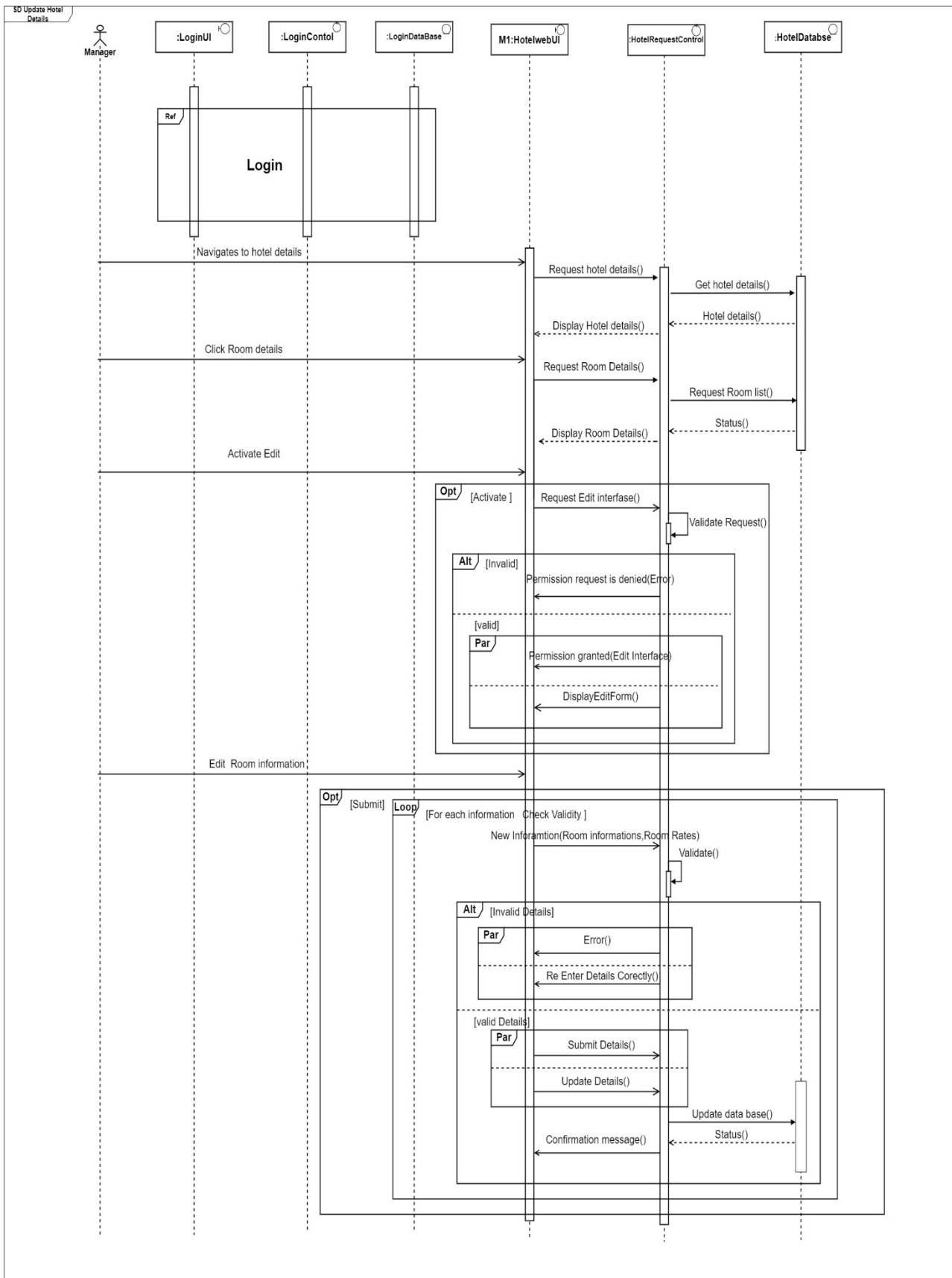
IT21286100 - Communication Diagram (Login)



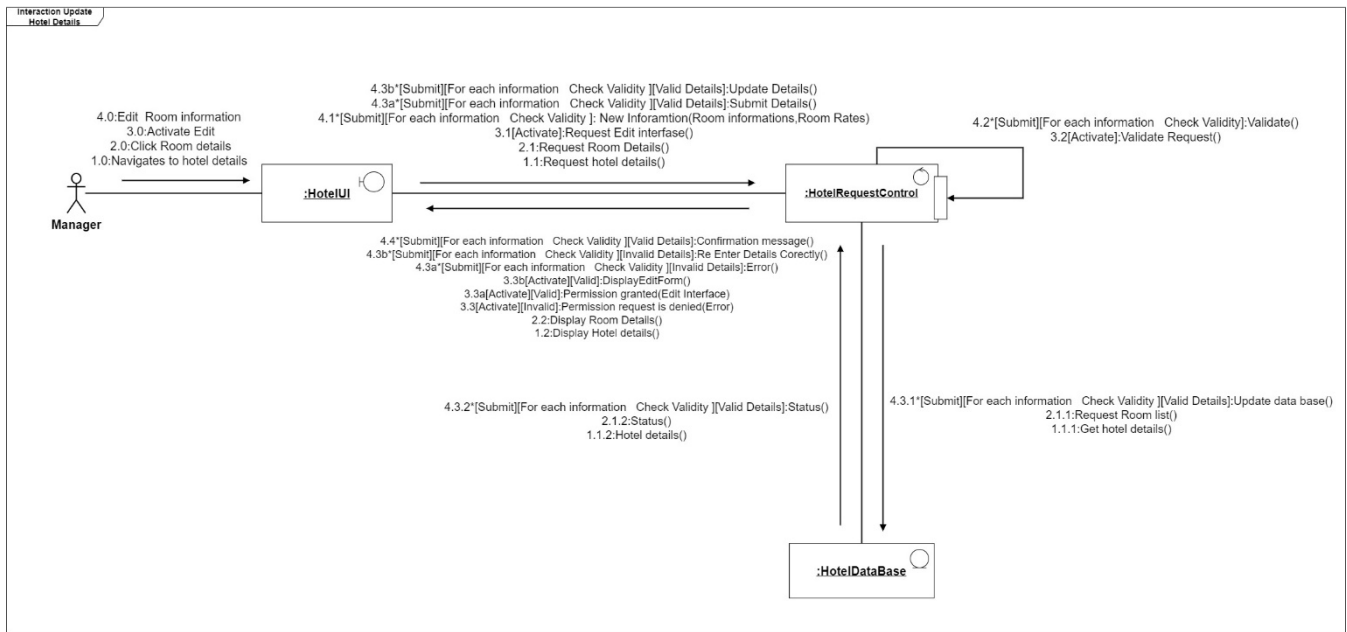
Use case scenario (Update hotel details)

Number	MNGR0001	
Name	Update hotel details	
Summary	Updating the hotel rates based on the room's specifications, the budget, and the Room information.	
Priority	02	
Pre-conditions	Manager login to the system and gain necessary permission to update hotel details.	
Post-conditions	Hotel details have been updated in the system.	
Primary Actor	Hotel Manager	
Trigger	Manager has chosen to update the hotel room rates and room details.	
Main scenario	Steps	Action
	1	Reach the Hotel website.
	2	Login to the system as manager.
	3	System validates the user.
	4	Manager navigates to the hotel details section of the hotel reservation system.
	5	View pricing lists and room details.
	6	Manager activates the editing mode.
	7	The system displays an interface where the manager can make changes to the room information, including the cost.
	8	The manager updates the necessary fields and submits the form.
	9	The hotel reservation system validates the entered information and saves the updates to the system database.
	10	The hotel reservation system notifies the manager via a confirmation message that the updates have been successfully saved.
Extensions	Steps	Branching action
	2a	if Invalid information, please re-enter correctly.
	6a	if the manager does not have the necessary permissions to update hotel details, the system displays an error message.
	9a	if the form is incomplete or invalid, the system displays error messages indicating the fields that need to be corrected.

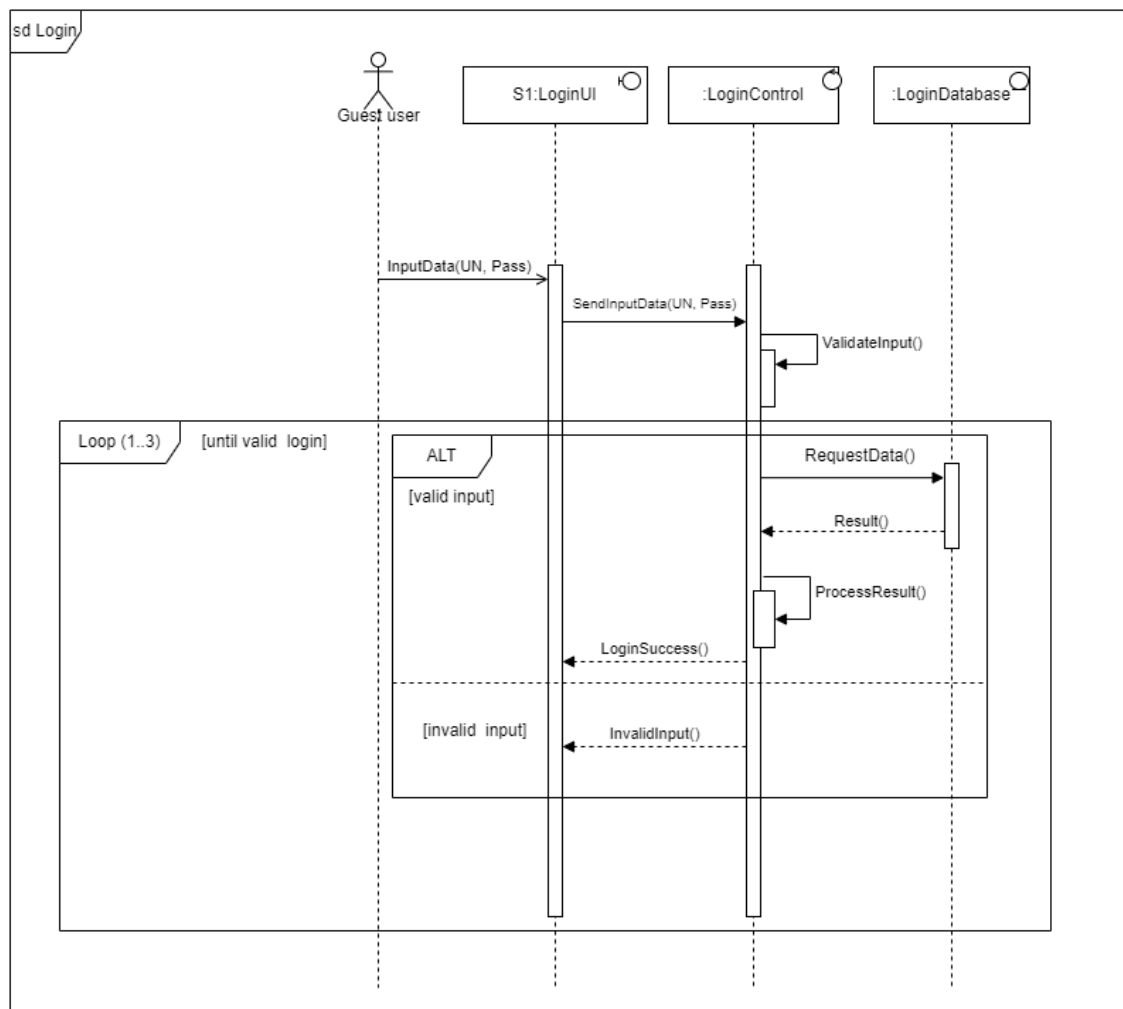
Sequence diagram (Update hotel details)



Communication Diagram (Update hotel details)

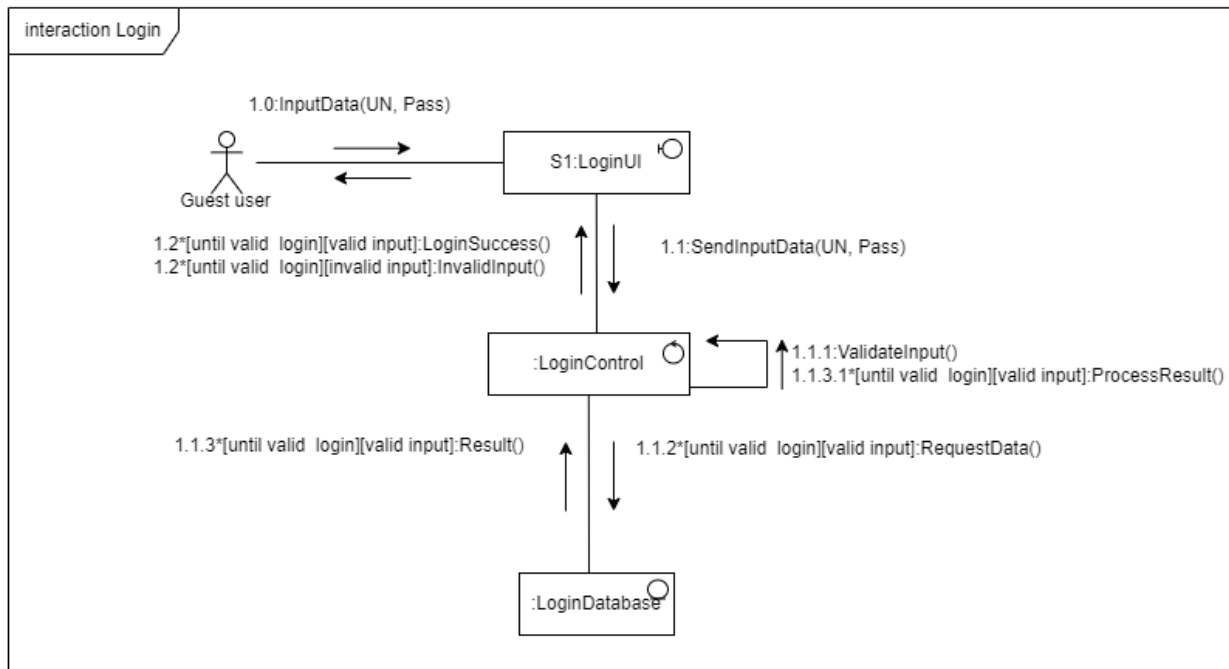


Sequence diagram (Login)



IT21315282- Kuruppu K.A.V.U

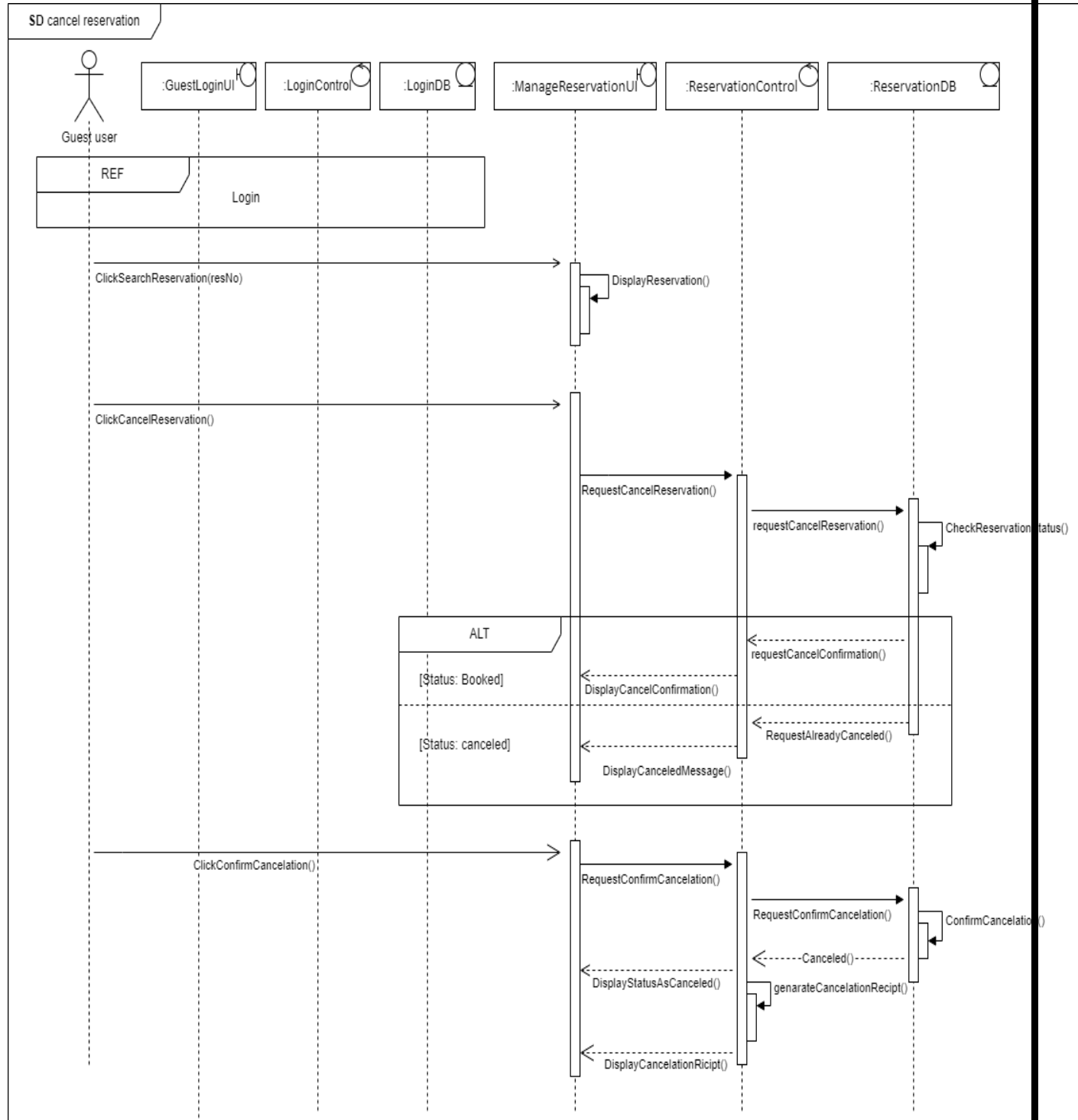
Communication Diagram (Login)



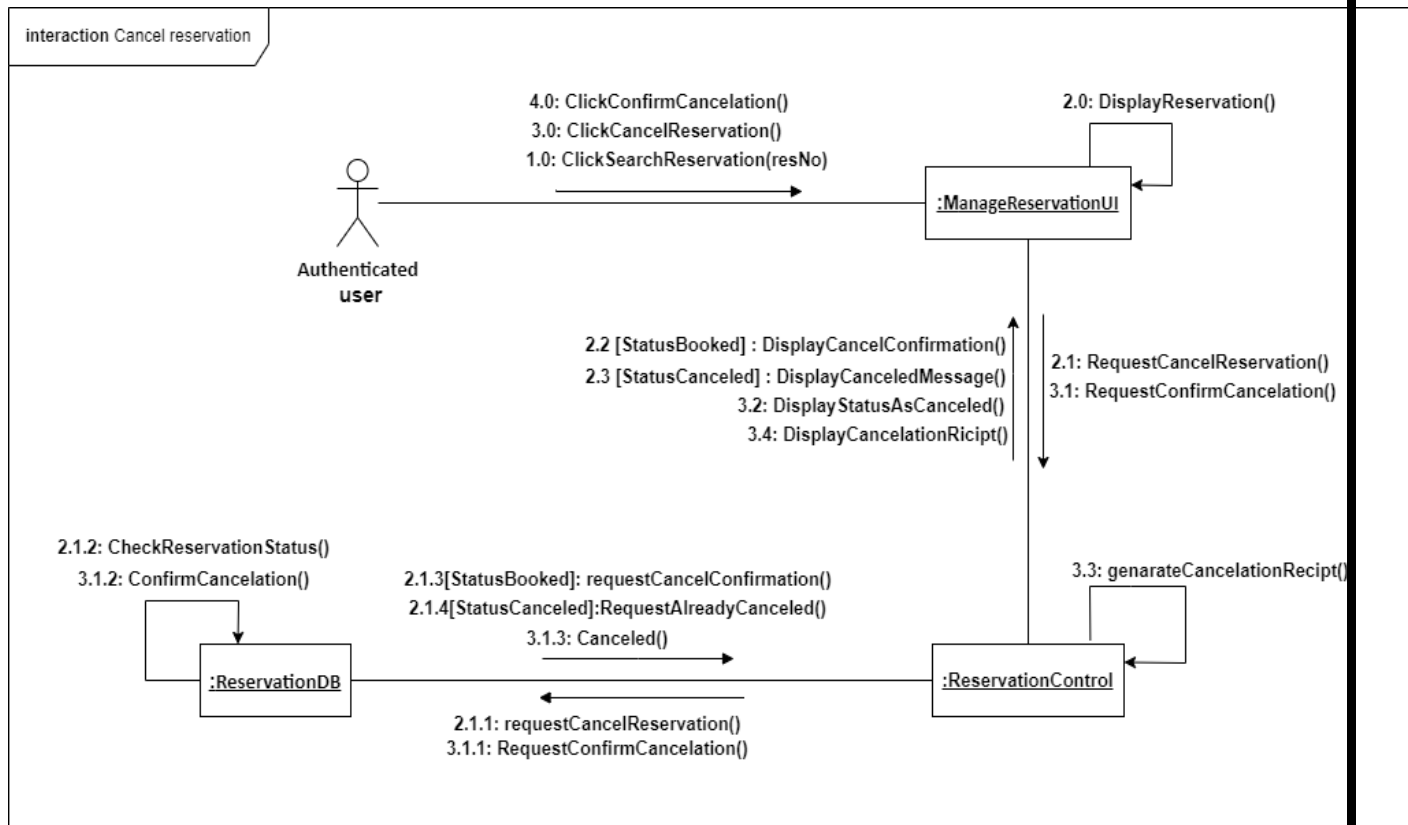
IT21801372- Hemapriya K K V O D
Use case Scenario (Cancelling a hotel reservation)

Use Case ID	Use-004	
Use Case Name	Canceling a hotel reservation	
Priority	4	
Pre-Condition	Authenticated user must have an active reservation and allowed to cancellation policy	
Post-Condition	Reservation booking fee refund to the Authenticated user	
Primary Actor	Authenticated user	
Trigger	Allow authenticated user to cancel their reservation in a timely and efficient manner	
Main Success Scenario	Step	Action
	01.	Authenticated user logs into the hotel reservation system and navigates to the “manage reservation” page
	02.	Authenticated user select the reservation they need to cancel and click “cancel reservation” button
	03.	The system displays the user to confirm cancellation page
	04.	The user confirms the cancellation and system display status as “Canceled”
	05.	System generates cancelation receipt and display the receipt
	06.	The system sends a notification to the system administrator and letting them know that cancellation has occurred
Extensions	01.a	The reservation needs to cancel is not showing in manage reservation page
	03.a	System does not display the confirm cancellation page after click cancel
	04.a	System still display status as “Booked”

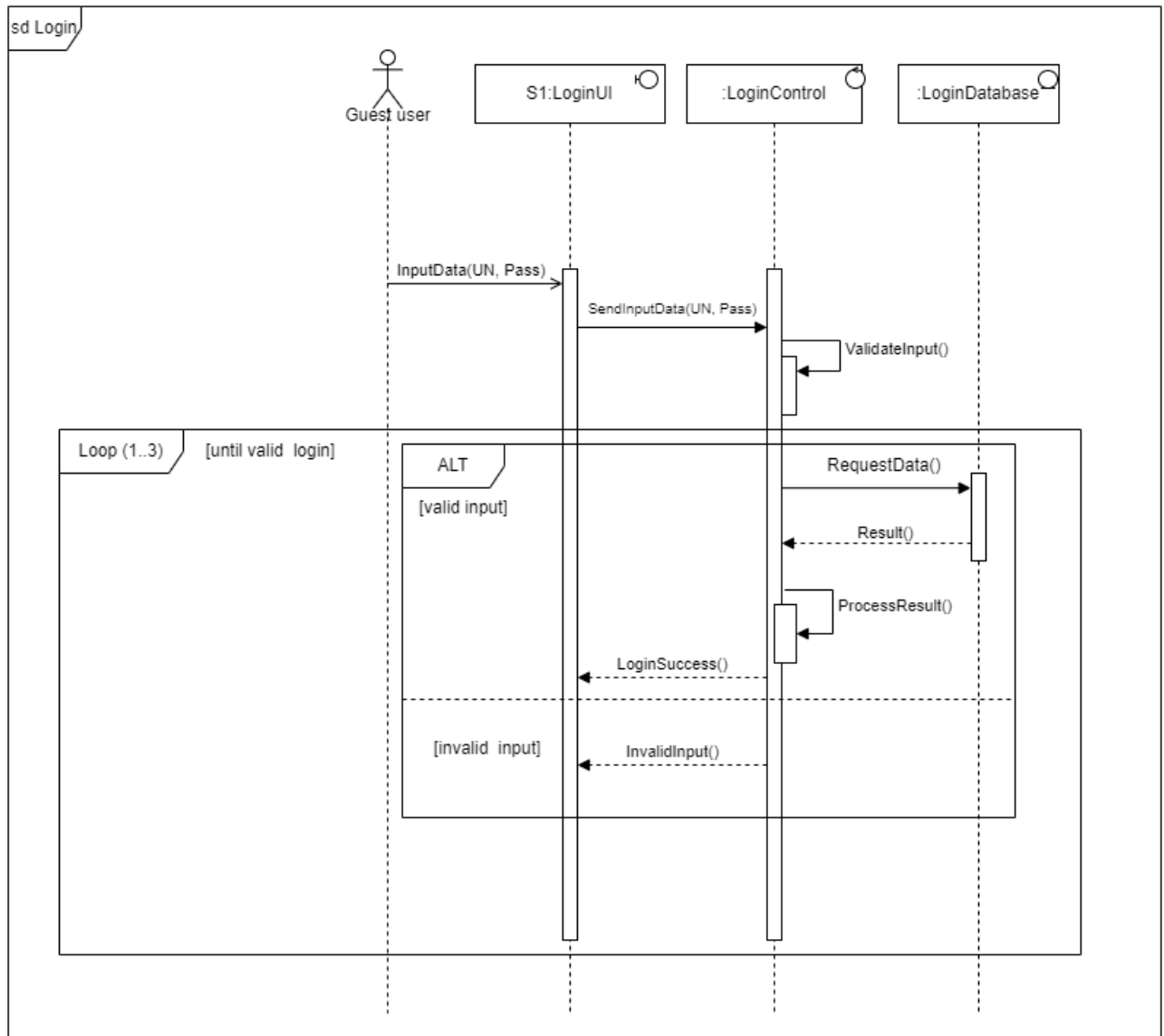
IT21801372- Hemapriya K K V O D **Sequence Diagram (Cancelling a hotel reservation)**



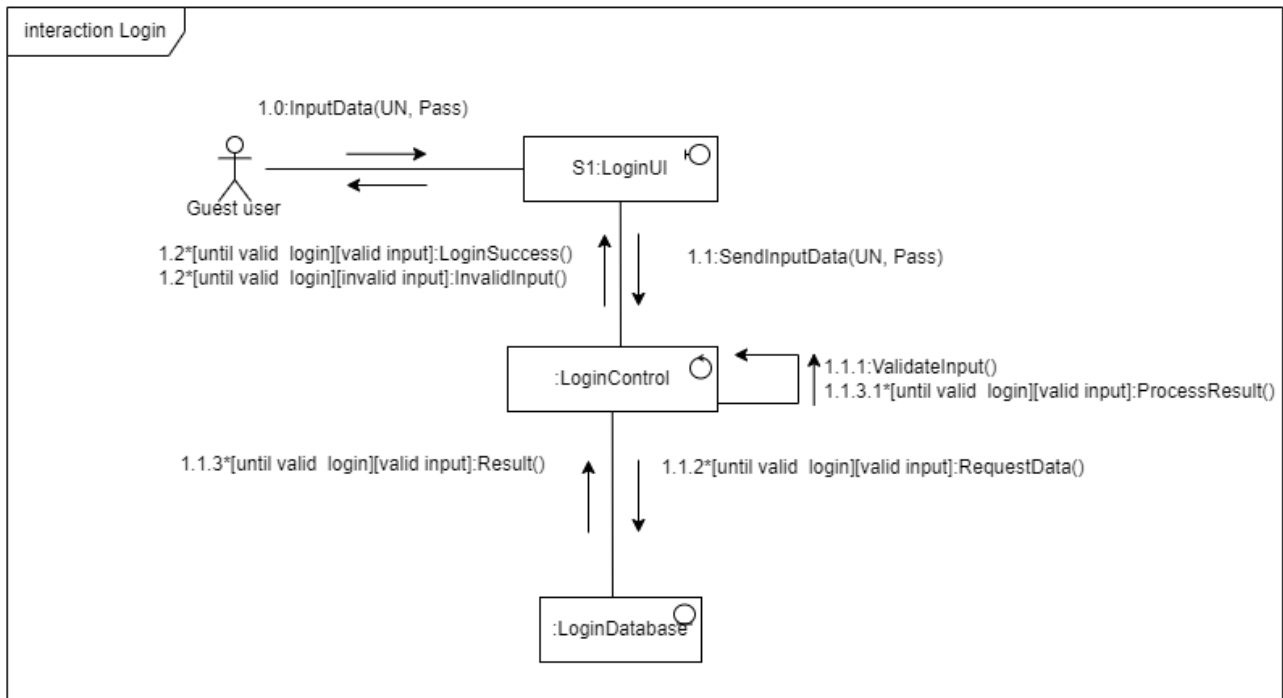
IT21801372- Hemapriya K K V O D
Communication Diagram (Cancelling a hotel reservation)



IT21801372- Hemapriya K K V O D
Sequence Diagram (Login)



IT21801372- Hemapriya K K V O D
Communication Diagram (Login)



Individual Contribution

	Student Registration Number	Student Name	Contribution
01.	IT21800900	Lakshan S.N.	<ul style="list-style-type: none"> - Use case scenario (Search packages) - Sequence diagram (Search packages) - Communication diagram (Search packages)
02.	IT21286100	Yashmila U.D.M	<ul style="list-style-type: none"> - Use case scenario (Make Reservation) - Sequence diagram (Make Reservation) - Communication diagram (Make Reservation)
03.	IT21315282	Kuruppu K.A.V.U	<ul style="list-style-type: none"> - Use case scenario (Update hotel Details) - Sequence diagram (Update hotel Details) - Communication diagram (Update hotel Details)
04.	IT21801372	Hemapriya K.K.V.O.D.	<ul style="list-style-type: none"> - Use case scenario (Cancelling a hotel reservation) - Sequence diagram (Cancelling a hotel reservation) - Communication diagram (Cancelling a hotel reservation)