

IT2020 – Software Engineering

Year 2 - Semester I (June) - 2021

Online Hotel Reservation System

Group Details

Batch: 04

SE/OOP Group Number: 2021_June_Malabe_B4_10

	Student Registration Number	Student Name
1	IT20664862	M.L.L Weerasinghe
2	IT20661410	M.L.D Perera
3	IT20172046	K.T.C.R Kumari
4	IT20639976	A.G.D.R Hansika

IT20664862

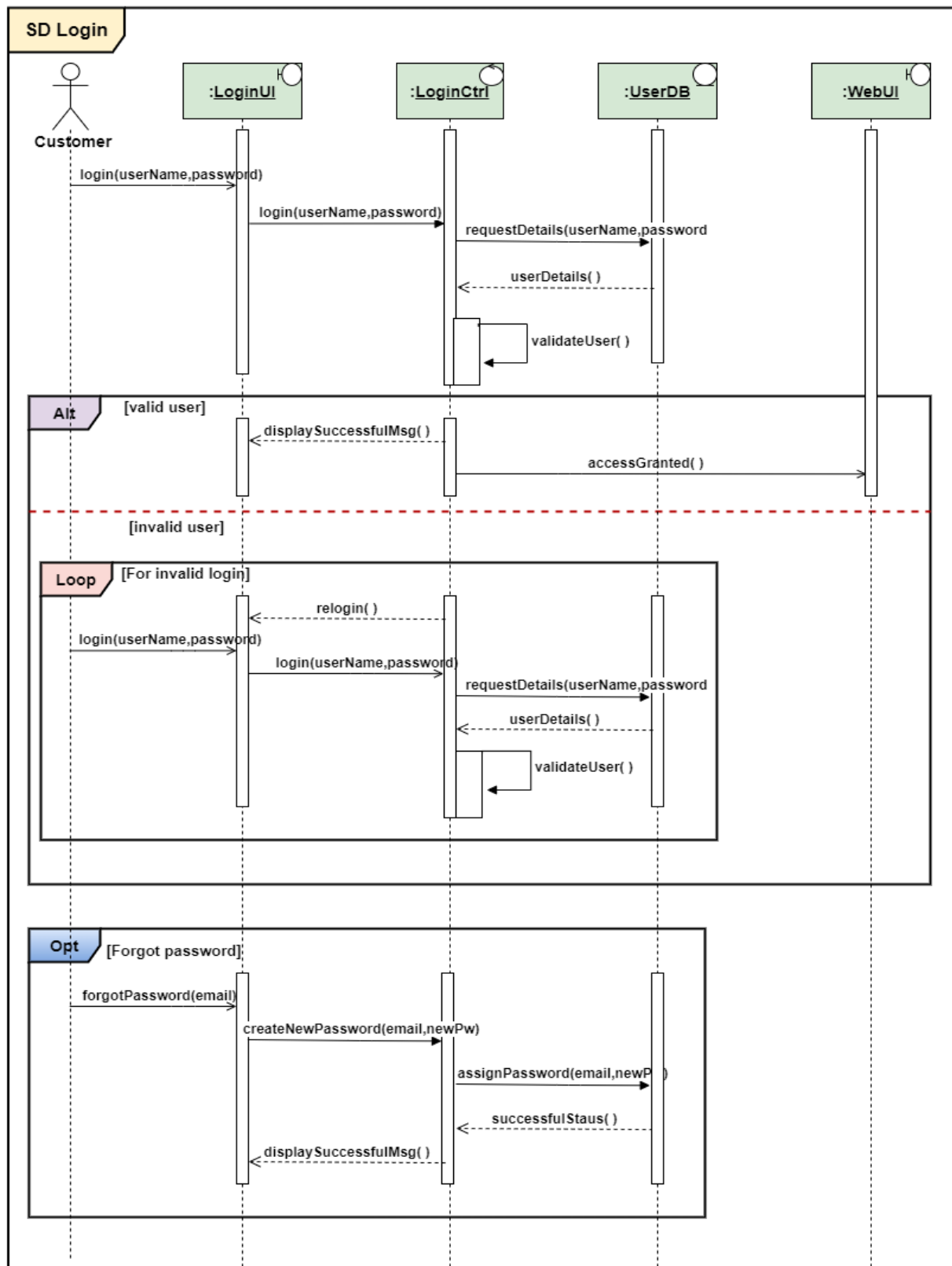
Use case scenario

Number			HRS-001
Name			Booking hotel online
Summary			Booking hotel online by user
Priority			4
Preconditions			Should be a registered user
Postconditions			User booked a hotel
Primary Actor			User
Trigger			User has chosen to available hotel
Main Scenario	Step	Action	
	1	User inputs the username & password to log in to the user account	
	2	System checks the username & password validation	
	3	System gives access to the user account	
	4	User enters the hotel name, room type, duration details and selects a package that the user wants.	
	5	System checks the capabilities of hotels based on user entered information.	
	6	System finds that hotels can be booked based on the information entered by the user.	
	7	The system requests payment to confirm the reservation	
	8	User makes an online payment to confirm the reservation.	
	9	System validates the payment, reserves that hotel and issues Reference Number.	
	10	System records that user payment details in a Database.	
	11	System reserved that hotel for the user.	
	12	System displays a success booking message.	
Extensions			
	3.1	If user entered user name & password is incorrect	
	3a	System will notifies user that the password entered is incorrect	
	3b	User will be prompted to enter the username & the password again	
	3c	User will be prompted to select the forgot password option	
	3d	User creates a new password for his/her existing account	

	3e	System checks the validation & gives access to user account
	7.1	If system cannot find that hotel based on the information entered.
	7a	User re-changes the entered details.
	10.1	If the system finds that user-added account funds are insufficient
	10a	System notifies user that account funds are insufficient
	10b	System doesn't reserve that available hotel

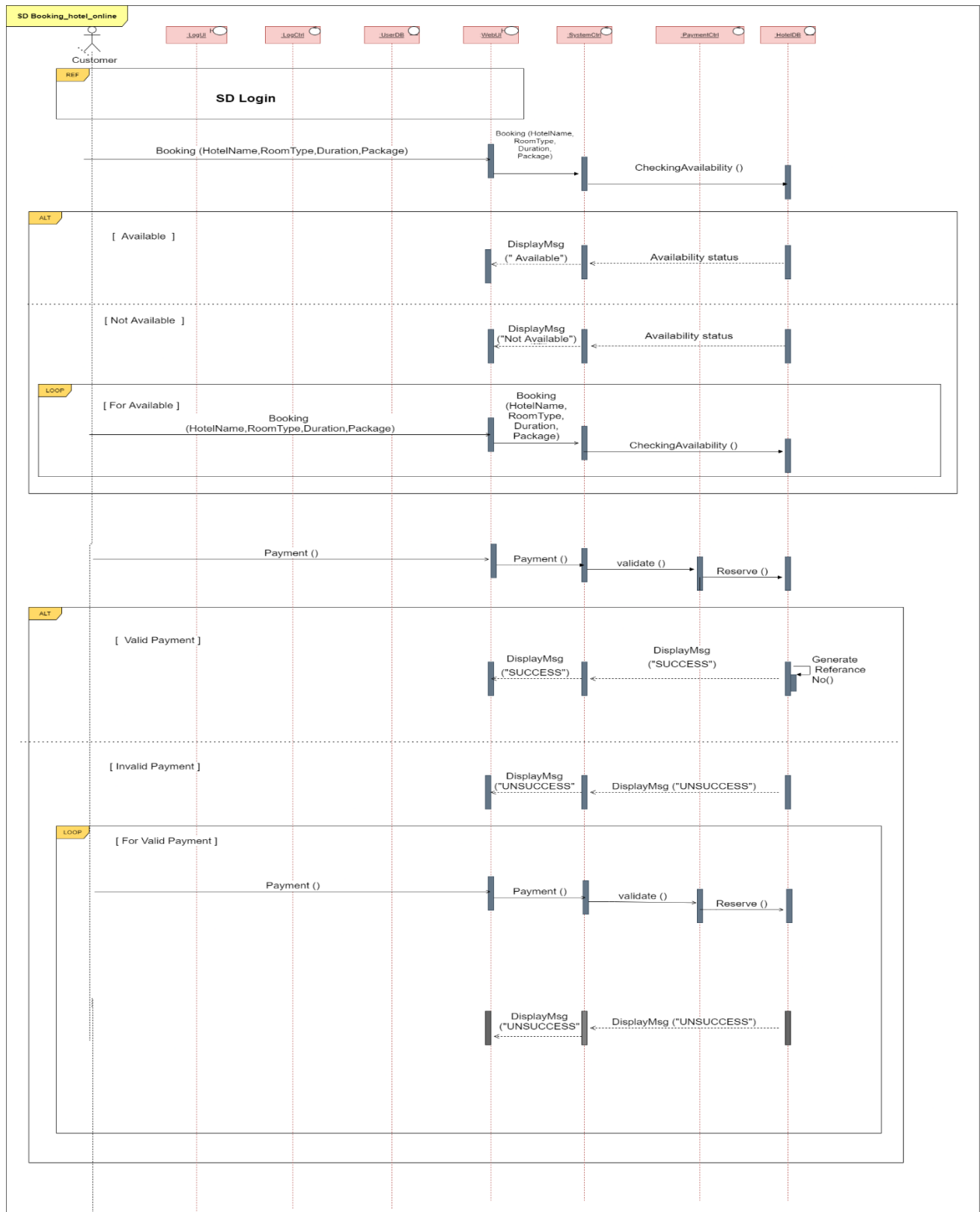
IT20664862

Sequence diagram for Login



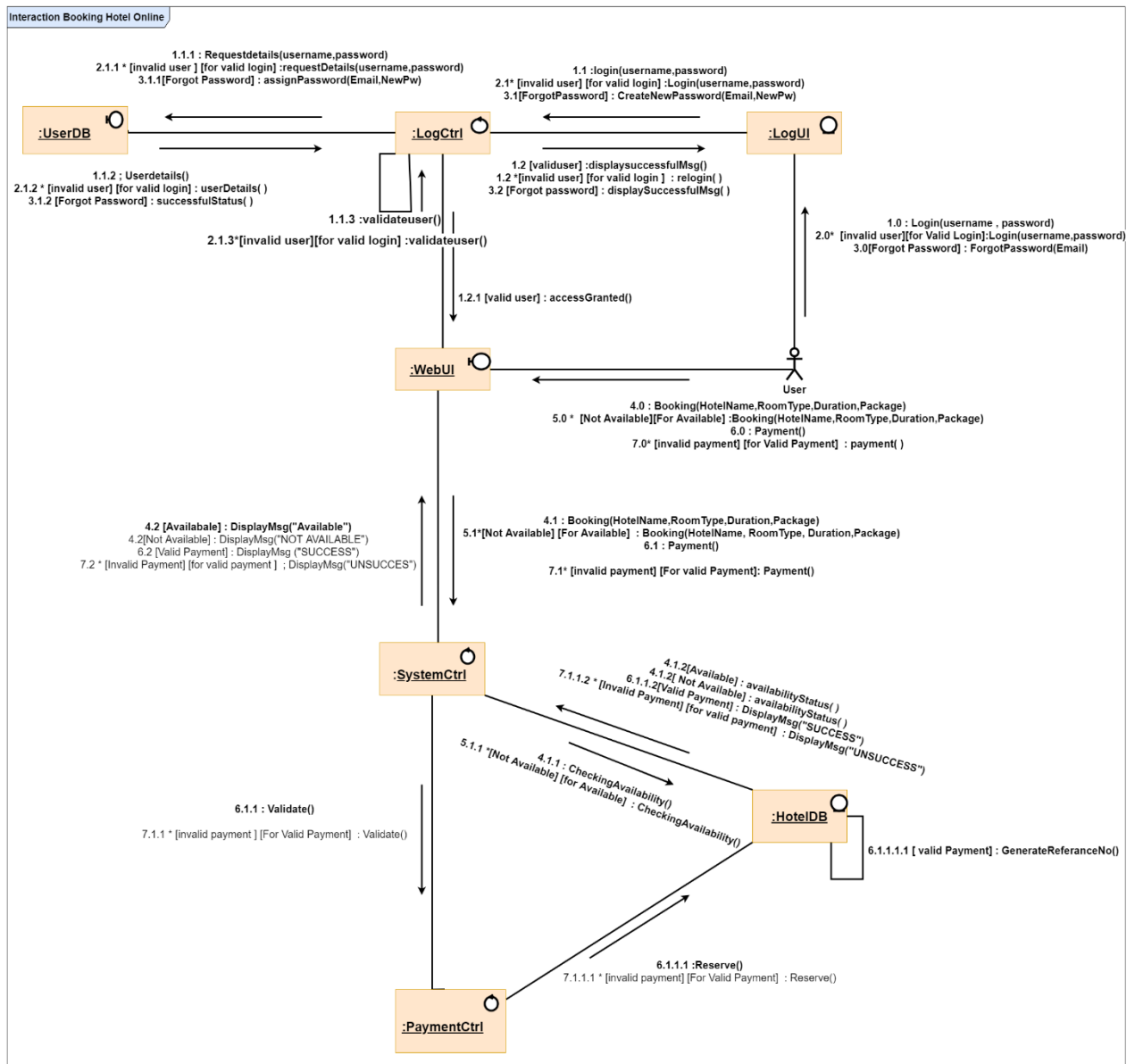
IT20664862

Sequence Diagram



IT20664862

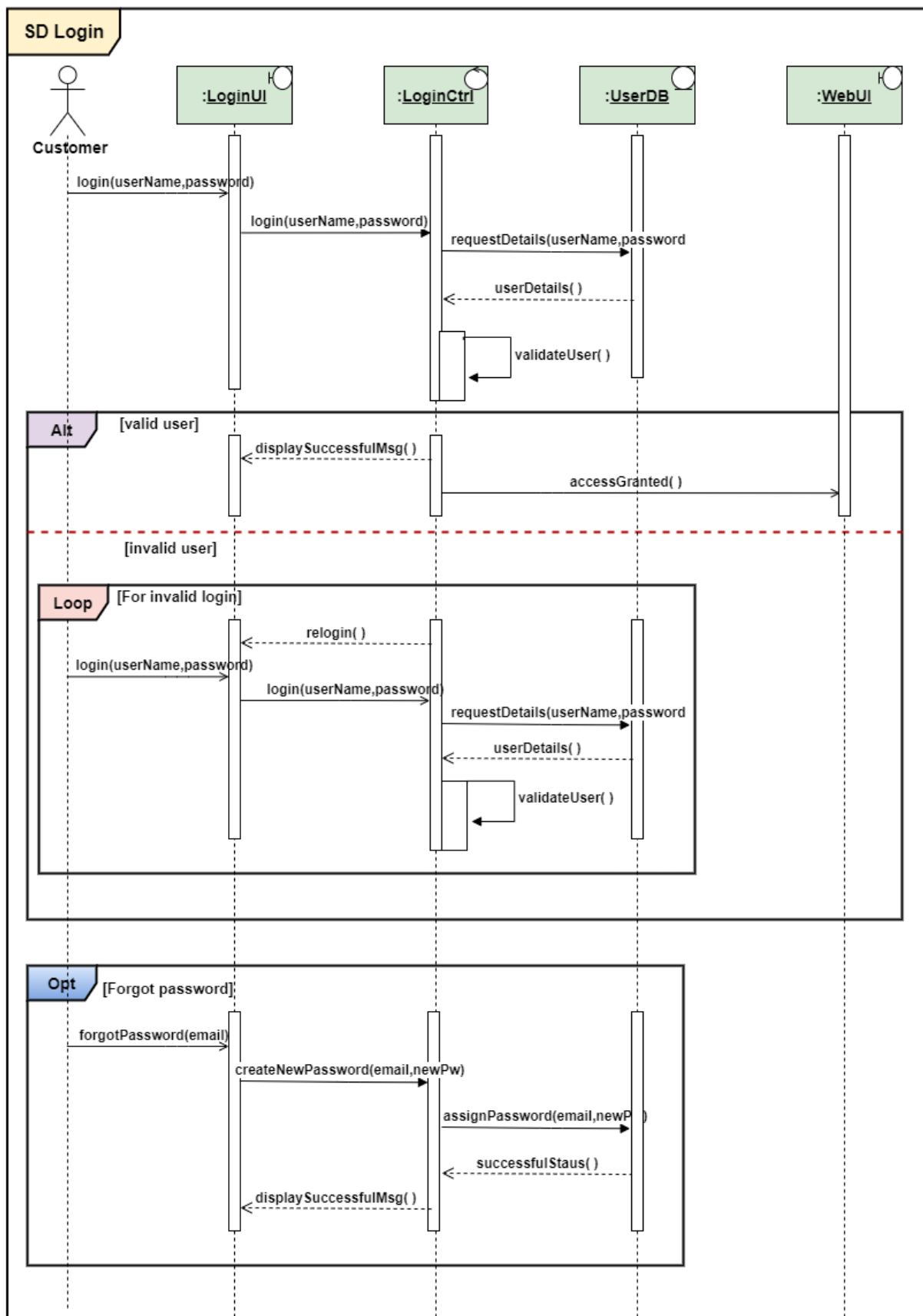
Communication diagram



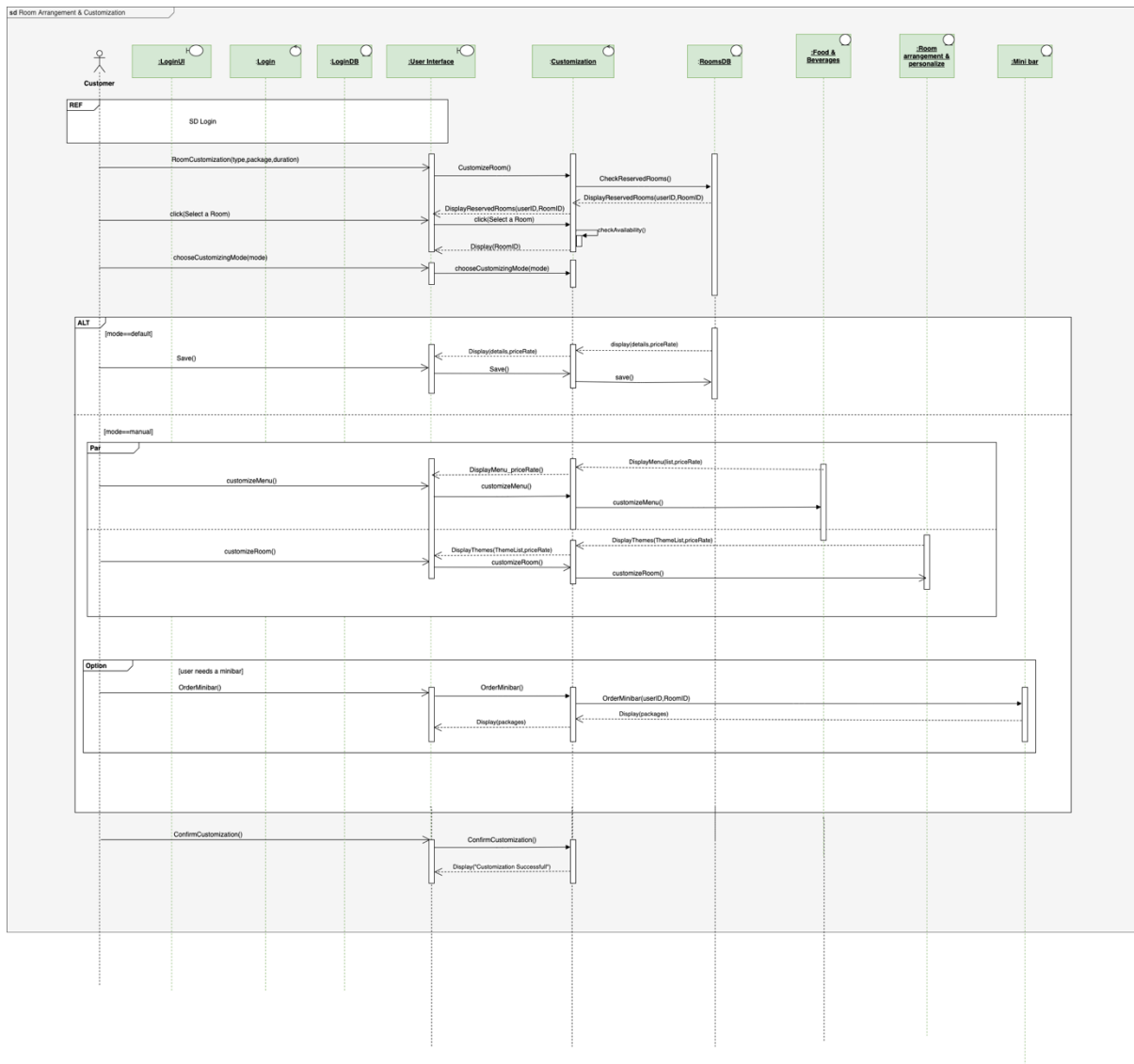
IT20661410

Use Case Scenario

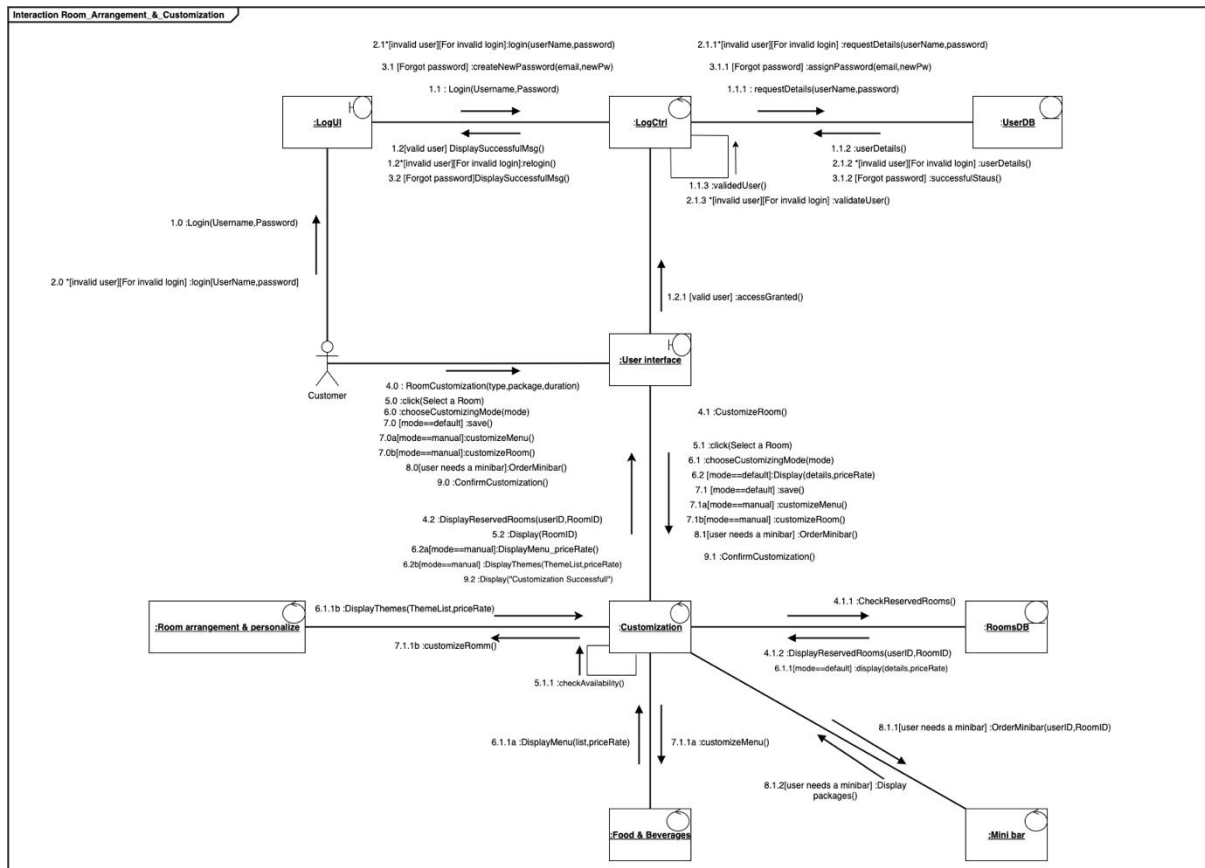
Use Case Id	HRS - 002	
Use Case Name	Room customization	
Summary	Customize a room	
Priority	2	
Pre-conditions	Login to the system	
Post-conditions	User booked a room	
Primary Actor	Customer	
Trigger	User need to customize a room	
Main Scenario	Step	Action
	1	Customer logs into the website.
	2	Customer customizes room using type, package and duration
	3	System checks reserved rooms and displays room id and customer id to the customer.
	4	Customer selects a room
	5	System checks availability of that room and display to the customer.
	6	Customer chooses customizing mode.
	7	Customer selects manual mode then system displays menu with price rates.
	8	Customer customizes menu with needed food & beverages.
	9	Customer personalizes the room arrangement as their wish.
	10	Customer orders mini bar.
	11	System displays mini bar packages to the customer.
	12	User should confirm the customization.
	13	System displays a message "Customization Successful".
Extensions	Step	Branching Action
	1a	If the customer enters incorrect login credentials, he/she must re-logging into the system.
	1b	If the Customer enters incorrect login credentials, he/she can reset the password.
	7a	Customer can select the default option and save it.
	10a	minibar ordering is optional for the customer.

Sequence diagram for Login

Sequence Diagram

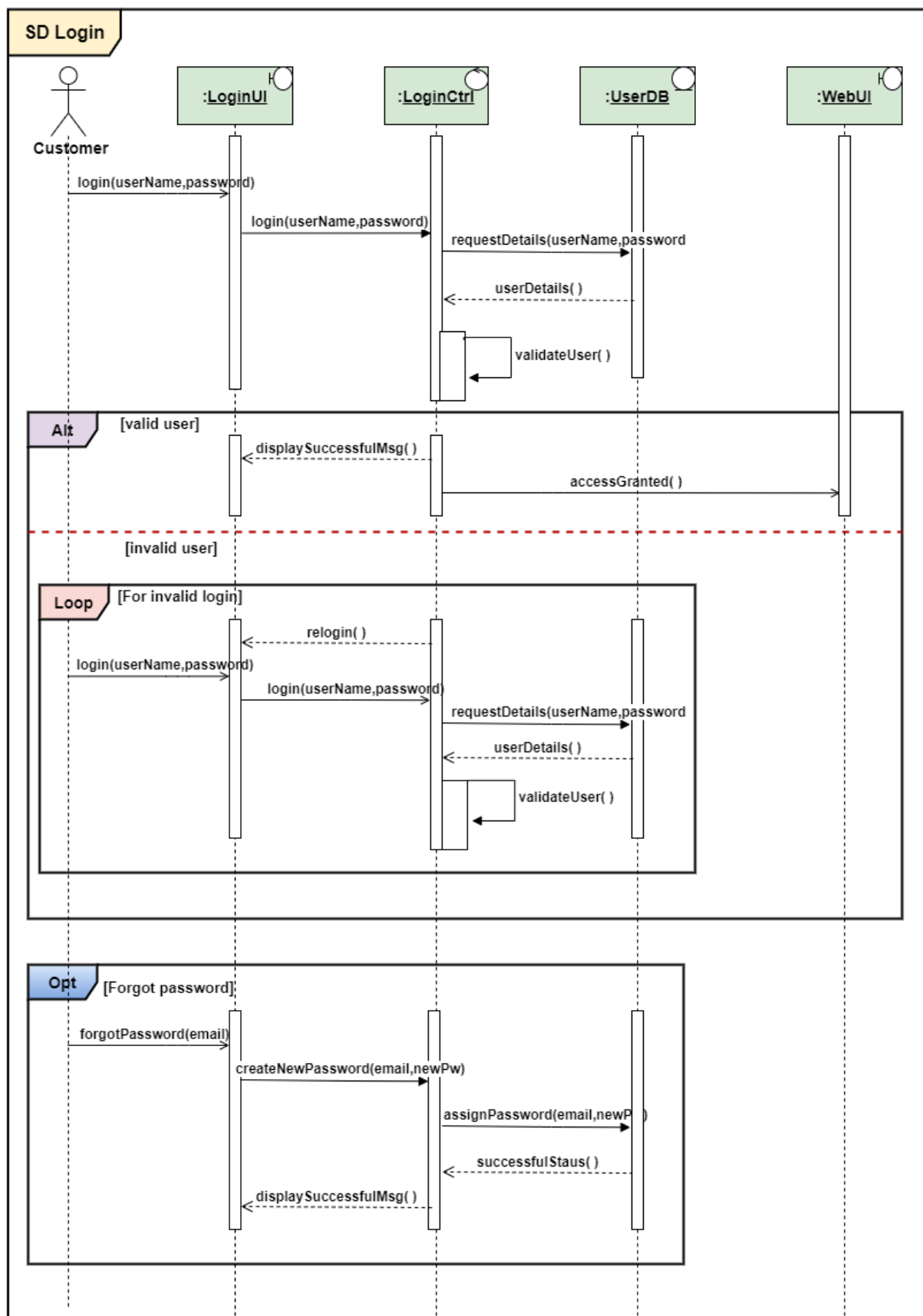


Communication diagram

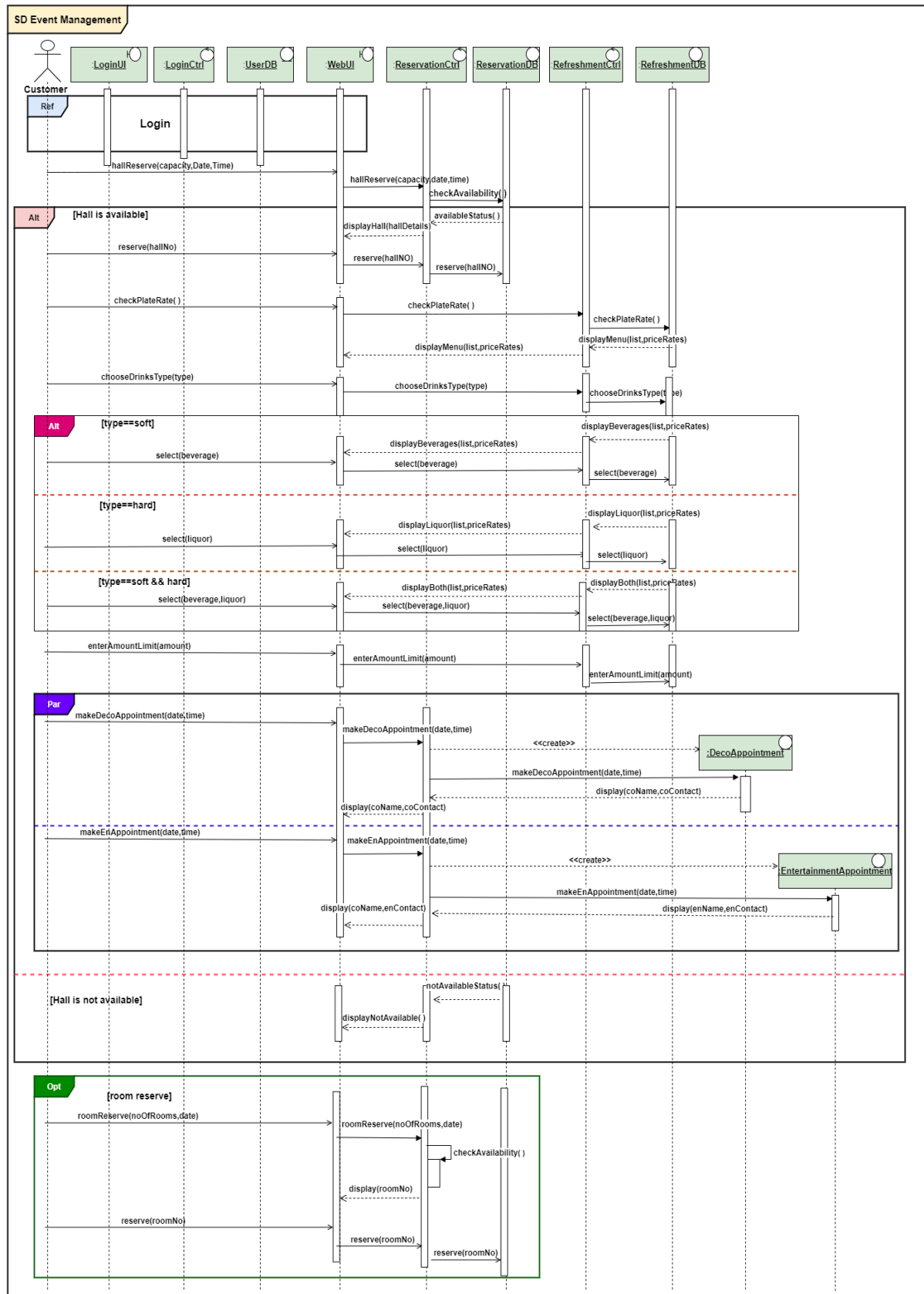


Use Case Scenario

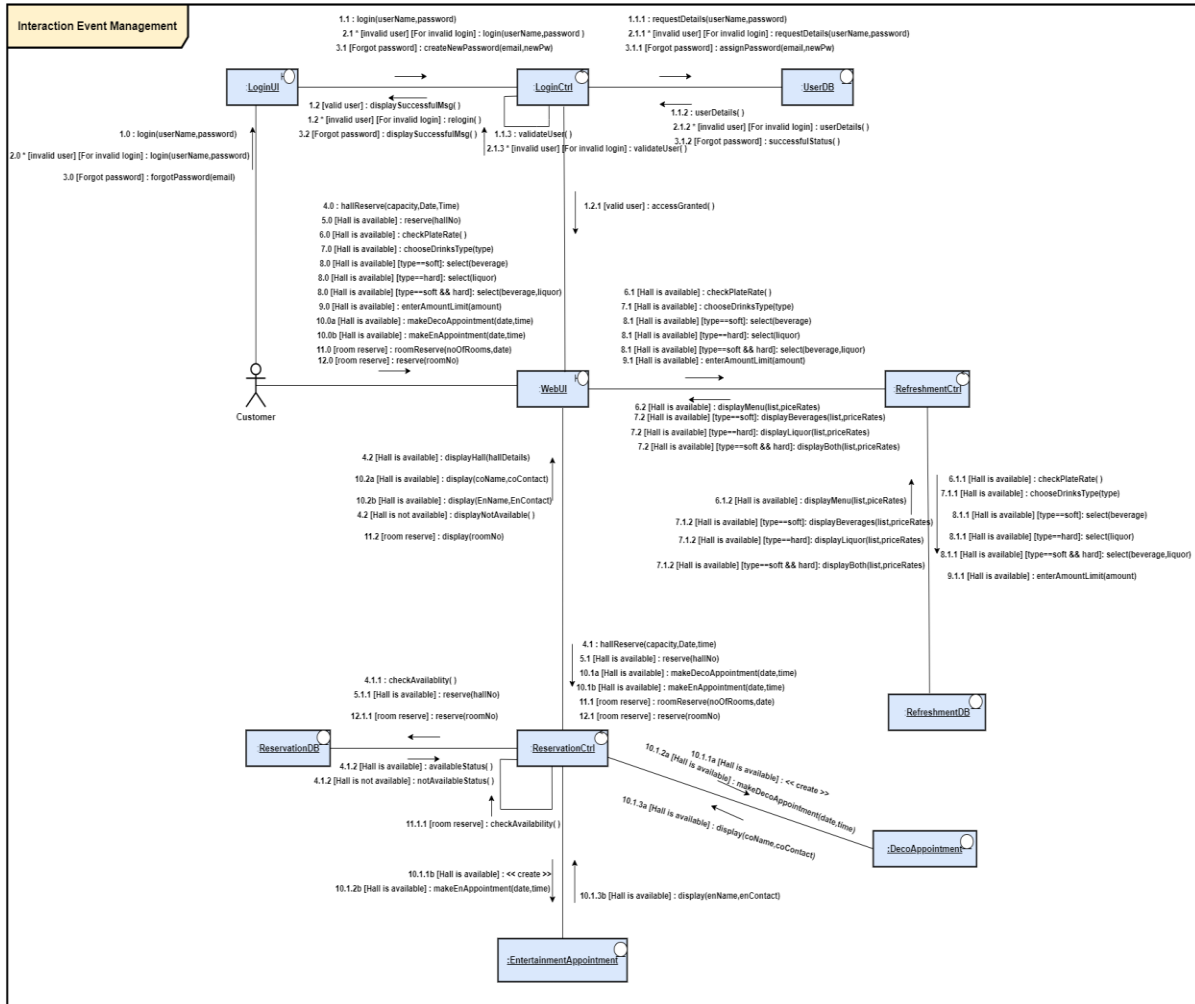
Use Case Id	HRS - 003	
Use Case Name	Event Management	
Summary	Organize an Event Online	
Priority	3	
Pre-conditions	Customer should be access to the online hotel website	
Post-conditions	Customer organized an event	
Primary Actor	Customer	
Trigger	Customer needs to organize an event	
Main Scenario	Step	Action
	1	Customer logs into the website.
	2	Customer reserves hall by giving capacity, date and time.
	3	System checks available halls and display it to the customer.
	4	Customer reserves hall using hall no.
	5	Customer selects plate rates according to their choice.
	6	Customer selects drink types according to their choice.
	7	Customer enters amount limit for his/her selections.
	8	Customer makes appointments for decorating and entertainment coordinators by giving date and time.
	9	System displays coordinators' names and their contacts to the customer.
	10	Customer can reserve rooms for guests by given number of rooms and date.
	11	System checks available rooms and display to the customer.
	12	Customer can reserve rooms.
Extensions	Step	Branching Action
	1a	If the customer enters incorrect login credentials, he/she must re-logging into the system
	1b	If the Customer forgot the password, he/she can reset the password.
	3a	If the halls are not available system displays not available message to the customer.
	6a	Customer can select soft drinks or hard drinks or both.
	10a	If the customer does not need any rooms for their event he/she can skip this option.

Sequence diagram for Login

Sequence diagram for Event Management



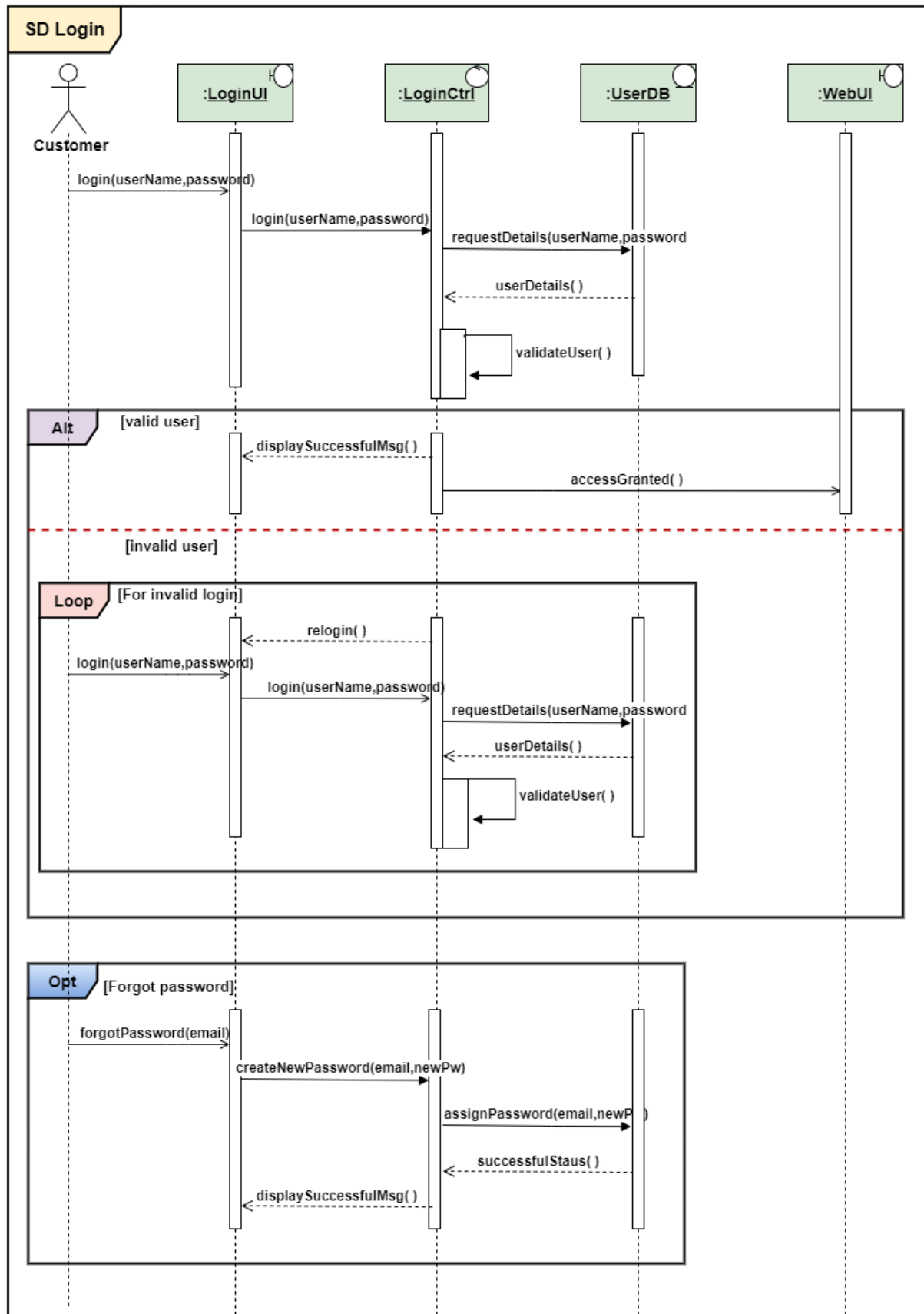
Communication diagram for Event Management



IT20639976

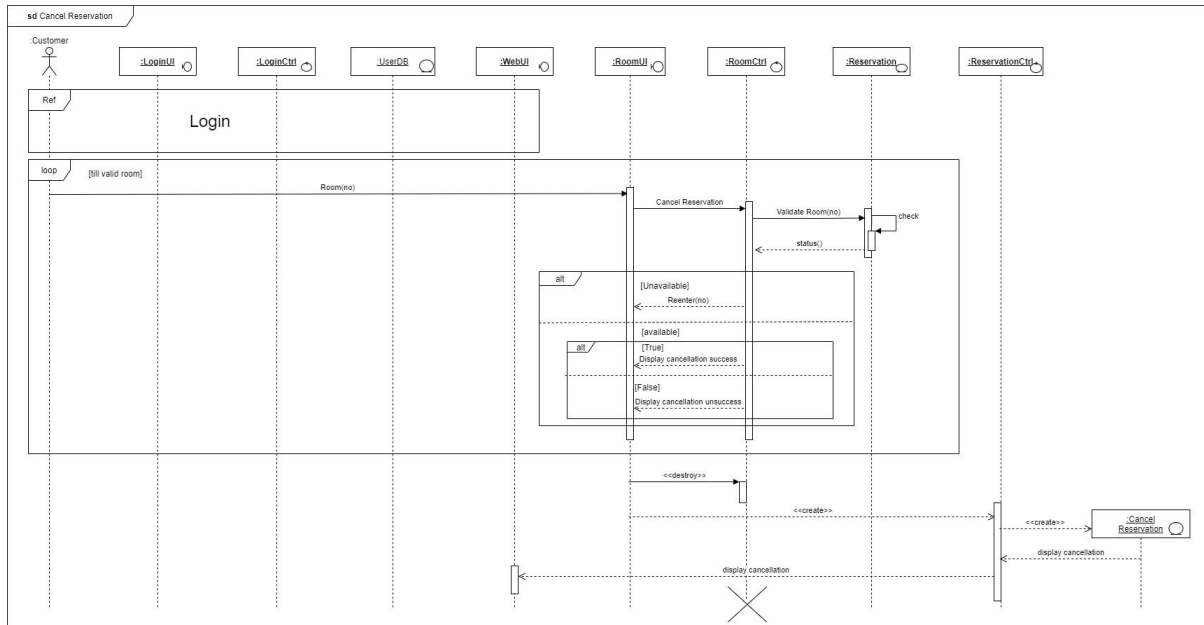
Use Case Scenario

Use Case ID	HRS - 004	
Name	Cancel Reservation	
Primary Actor	Customer	
Preconditions	Customer should be register to the system	
Postconditions	Get confirmed cancellation of room	
Main scenario	Steps	Action
	1	Customer logs into the website
	2	Customer enters room number which is he/she wants to cancel.
	3	Customer cancels that reserved room.
	4	System validates that room using given room number and gives status.
	5	System displays cancellation successful message.
	6	System destroys that room reservation and create cancel reservation.
	7	System displays a cancellation successful message to the customer.
Extensions	Steps	Branching Action
	1a	If the customer enters incorrect login credentials, he/she must relogging into the system.
	1b	If the customer forgot the password, he/she can reset the password.
	2a	Customer can cancel reservations until all the reserved rooms are finished.
	5a	If the entered room is not available in the database that current moment, customer can re-enter the room number.
	5b	If the cancelation is unsuccessful, then system displays unsuccessful message to the customer.

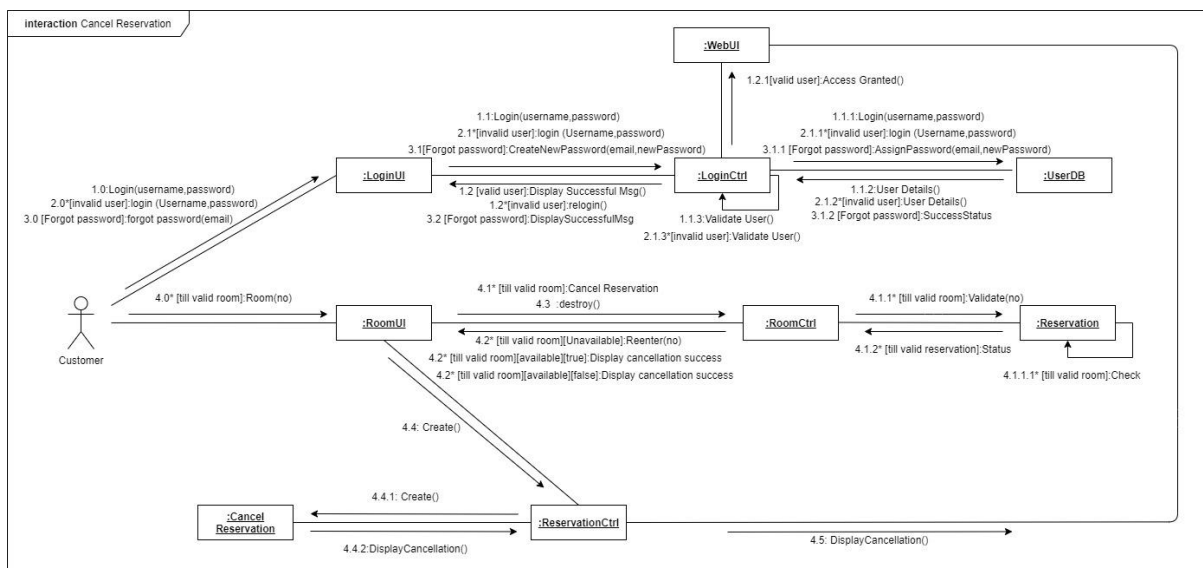
Sequence diagram for Login

IT20639976

Sequence Diagram



Communication diagram for Event Management



Contribution

Reg. No	Name	Contribution
IT20664862	M.L.L. Weerasinghe	Sequence diagram and communication diagram for use case scenario "Booking hotel online" and "Login"
IT20661410	M.L.D. Perera	Sequence diagram and communication diagram for use case scenario "Room customization"
IT20172046	K.T.C.R. Kumari	Sequence diagram and communication diagram for use case scenario "Event management"
IT20639976	A.G.D.R. Hansika	Sequence diagram and communication diagram for use case scenario "cancel reservation"