

# **IT2020 – Software Engineering**

## **Year 2, Semester II, 2022**

### **Group Assignment**

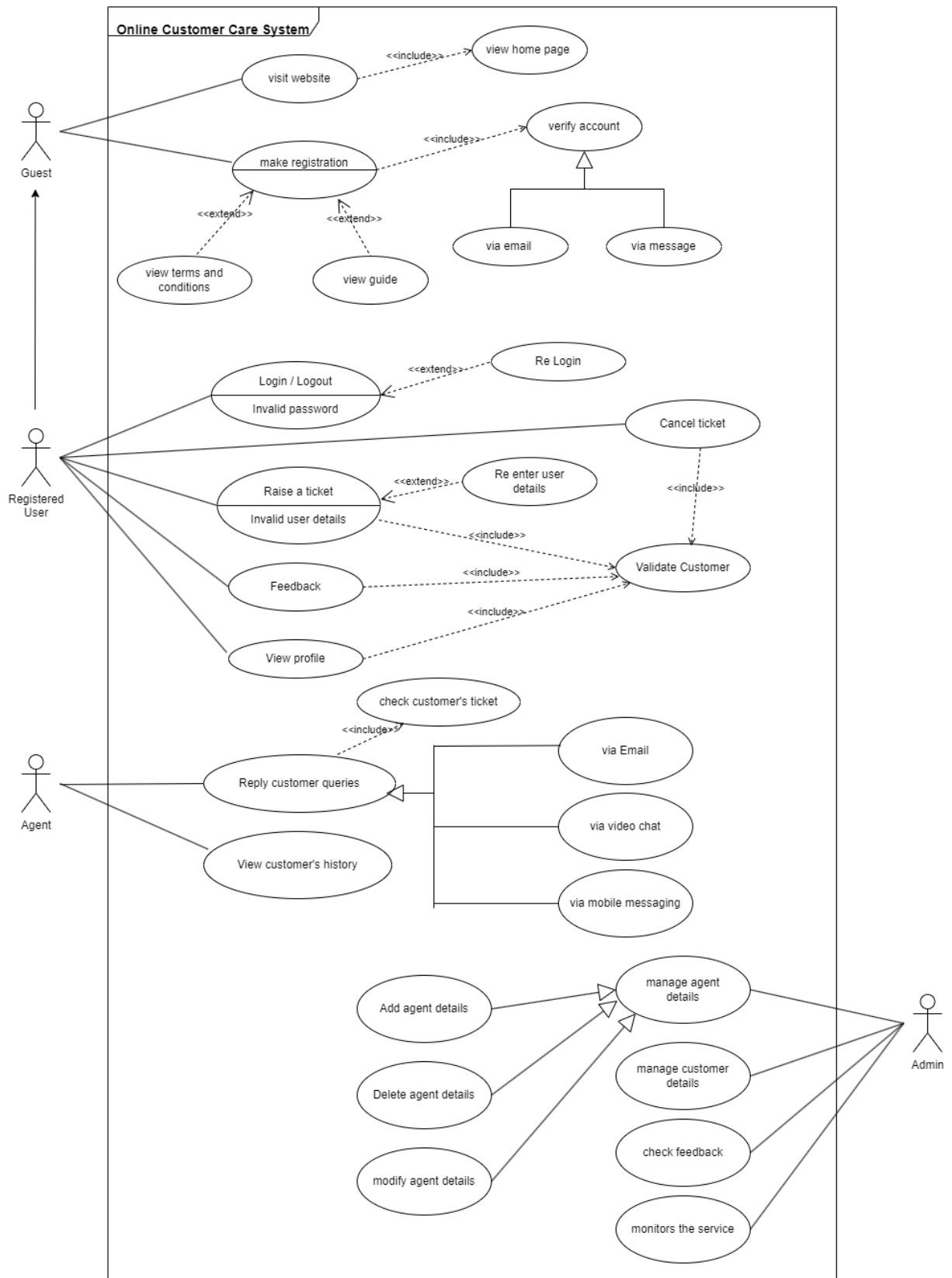
#### **Online customer care system**

#### **Group Details**

**Batch: Y1.S1**

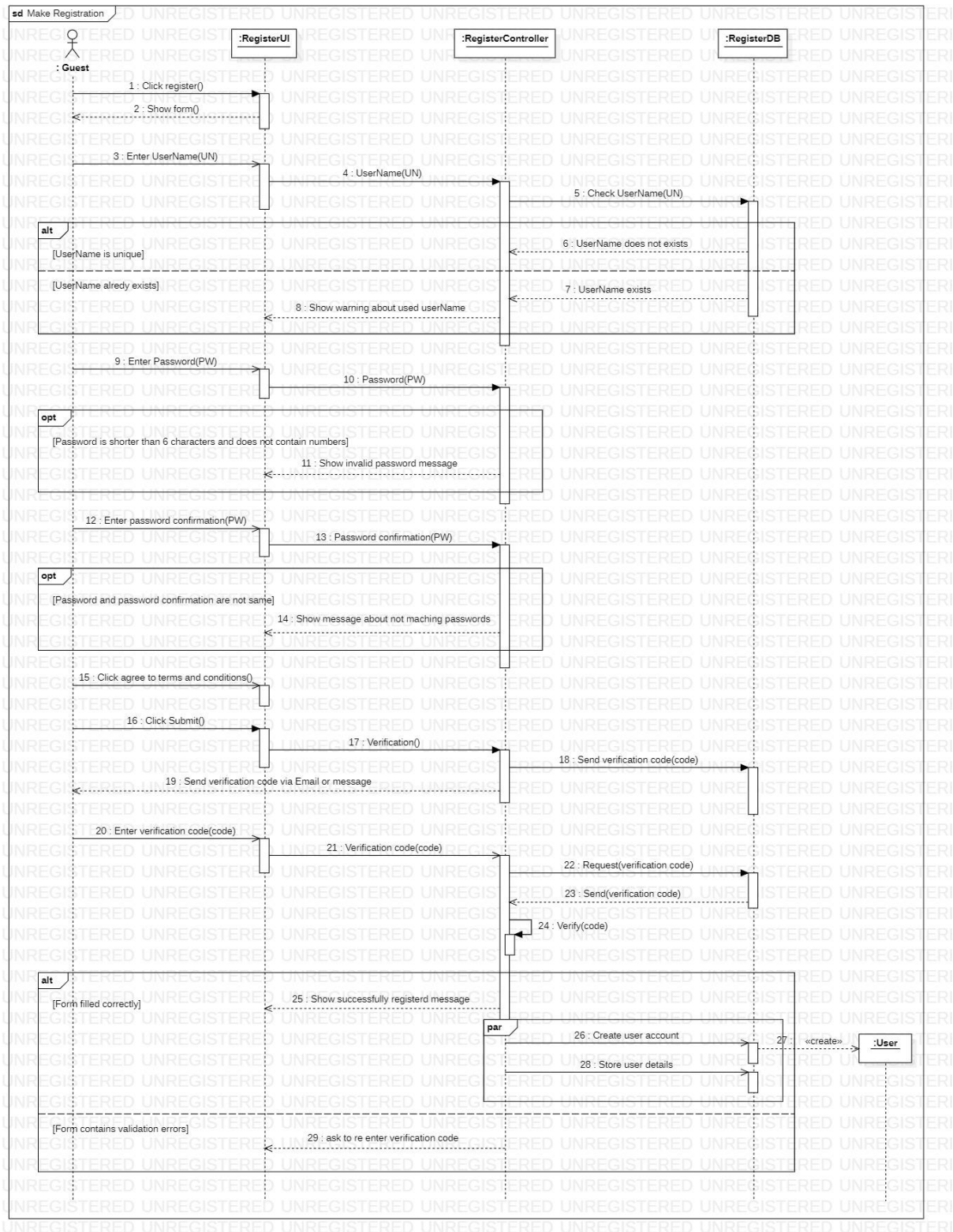
**SE/OOP Group Number: MLB\_WD\_2022\_S2\_134**

	<b>Student Registration Number</b>	<b>Student Name</b>
<b>1</b>	IT21254420	Dewpura D.D.W.C
<b>2</b>	IT21340628	Abeywickrama A.A.D
<b>3</b>	IT21212772	Koggala D.B.K.D
<b>4</b>	IT21240324	Kulasuriyalage H.K.K

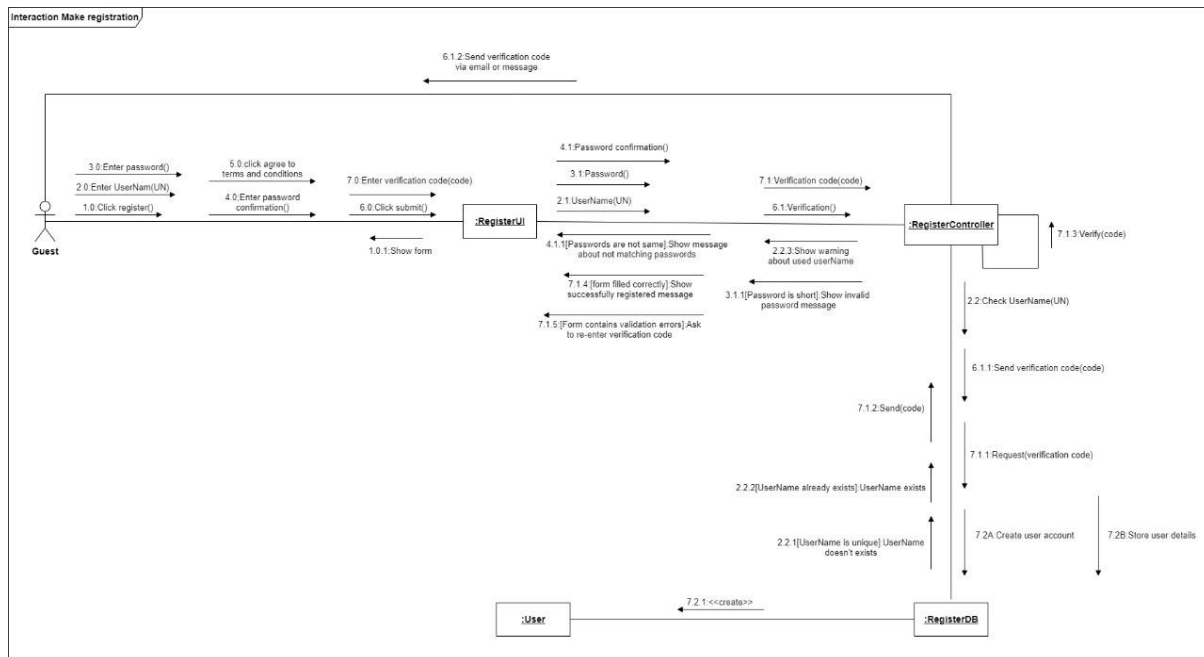


<b>Number</b>	01	
<b>Name</b>	Make registration	
<b>Summary</b>	Guest user register to the system.	
<b>Priority</b>	5	
<b>Preconditions</b>	Entered to the signup page.	
<b>Postconditions</b>	Registered to the system and make a user account.	
<b>Primary Actor(s)</b>	Guest user	
<b>Trigger</b>	User has chosen to register to the system.	
<b>Main Scenario</b>	<b>Step</b>	<b>Action</b>
	1	User visits the website and view homepage.
	2	User clicks the registration page.
	3	System displays registration form.
	4	User enters username and user details.
	5	System verifies user details and username.
	6	User enters a password.
	7	System validates the password.
	8	User enters password confirmation.
	9	System verifies the password confirmation.
	10	User agrees to terms and conditions and submits the form.
	11	System sends a verification code to user via email or via message.
	12	User enters the verification code.
	13	System verifies the code.
	14	System creates a user account and store user details.
	15	System shows successfully registered message.
<b>Extensions</b>	<b>Step</b>	<b>Branching Action</b>
	5a	System notifies username is already exists, asks to re-enter.
	7a	System notifies password is invalid, asks to re-enter.
	9a	System notifies that the two passwords does not match, asks to re-enter.
	10a	If user doesn't accept terms and conditions, system displays "Please accept the terms and conditions to continue registration" message.
	13a	System notifies verification code is not valid, asks to re-enter.

## Sequence diagram - Make registration



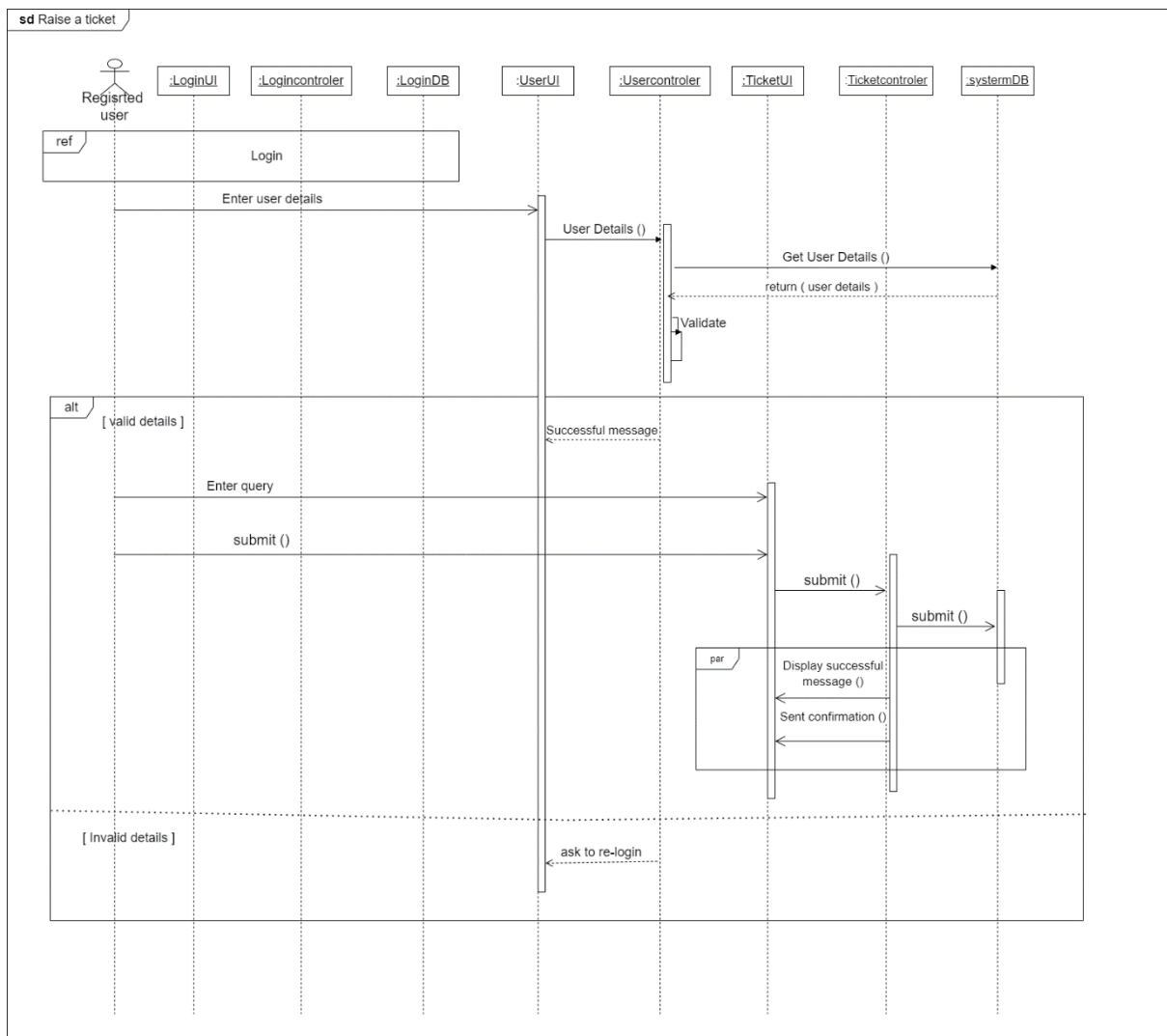
## Communication diagram - Make registration



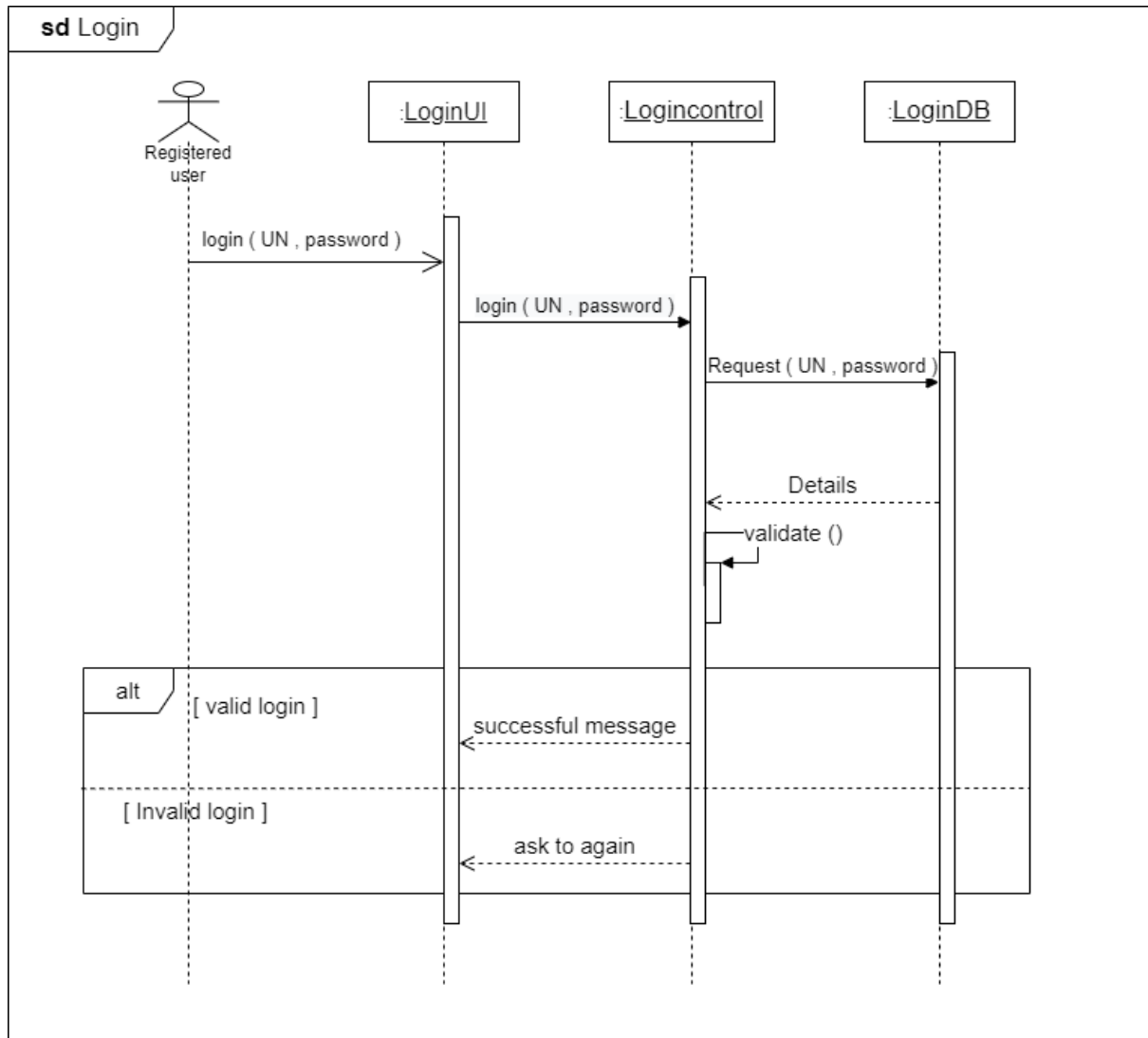
## Use case scenario – Raise a ticket

<b>Number</b>	02	
<b>Name</b>	Raise a ticket	
<b>Summary</b>	Registered user raises a ticket using system	
<b>Priority</b>	5	
<b>Preconditions</b>	Entered to the login page.	
<b>Postconditions</b>	Raise a ticket using system.	
<b>Primary Actor(s)</b>	Registered user	
<b>Trigger</b>	User has chosen to raise a ticket using system.	
<b>Main Scenario</b>	<b>Step</b>	<b>Action</b>
	1	System display login page.
	2	User enters username, password.
	3	System validate login.
	4	User Enter user details.
	5	System validate user details.
	6	User enter query.
	7	User submit query.
	8	System display successful message and sent confirmation.
<b>Extensions</b>	<b>Step</b>	<b>Branching Action</b>
	3a	If user login details invalid, system asks to re-login to the system
	5a	If user details Invalid, system ask to re-enter details.

## Sequence diagram – Raise a ticket

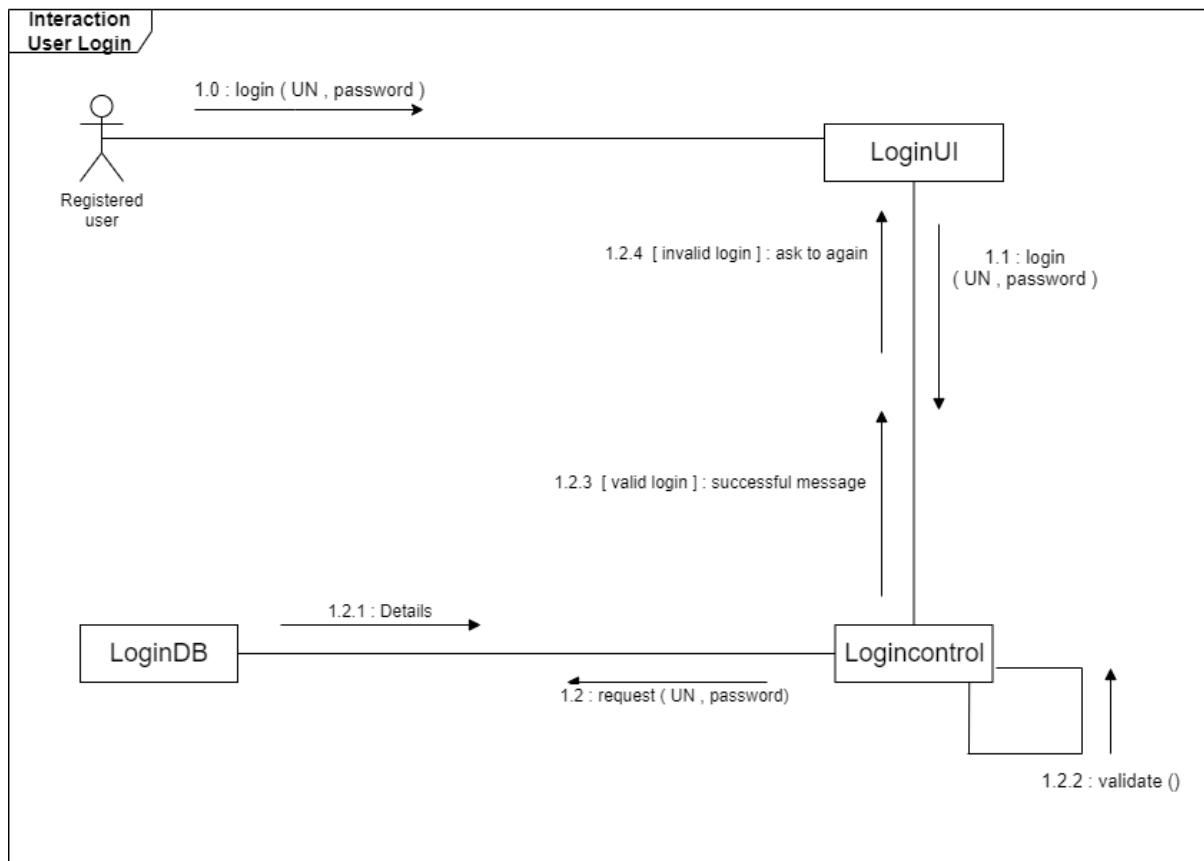


## Sequence diagram – User login

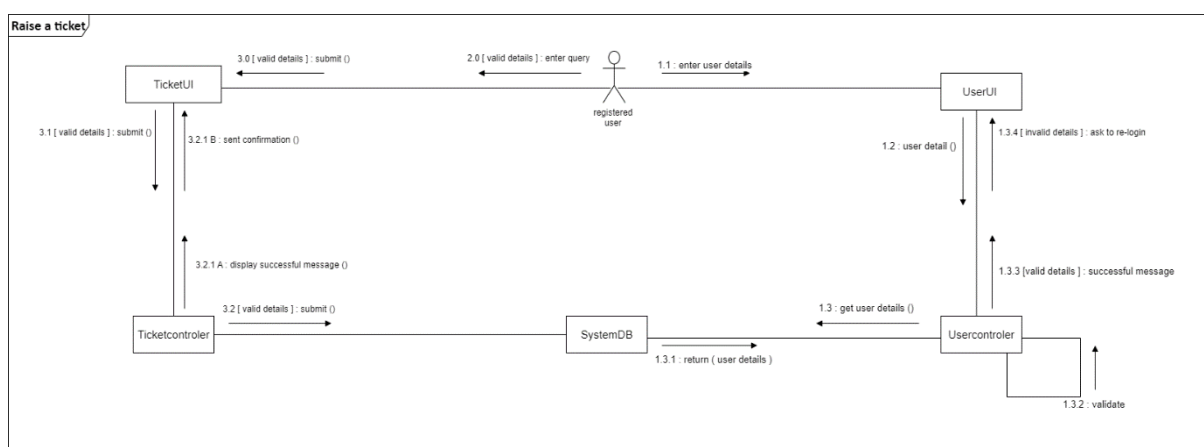




## Communication diagram – User login



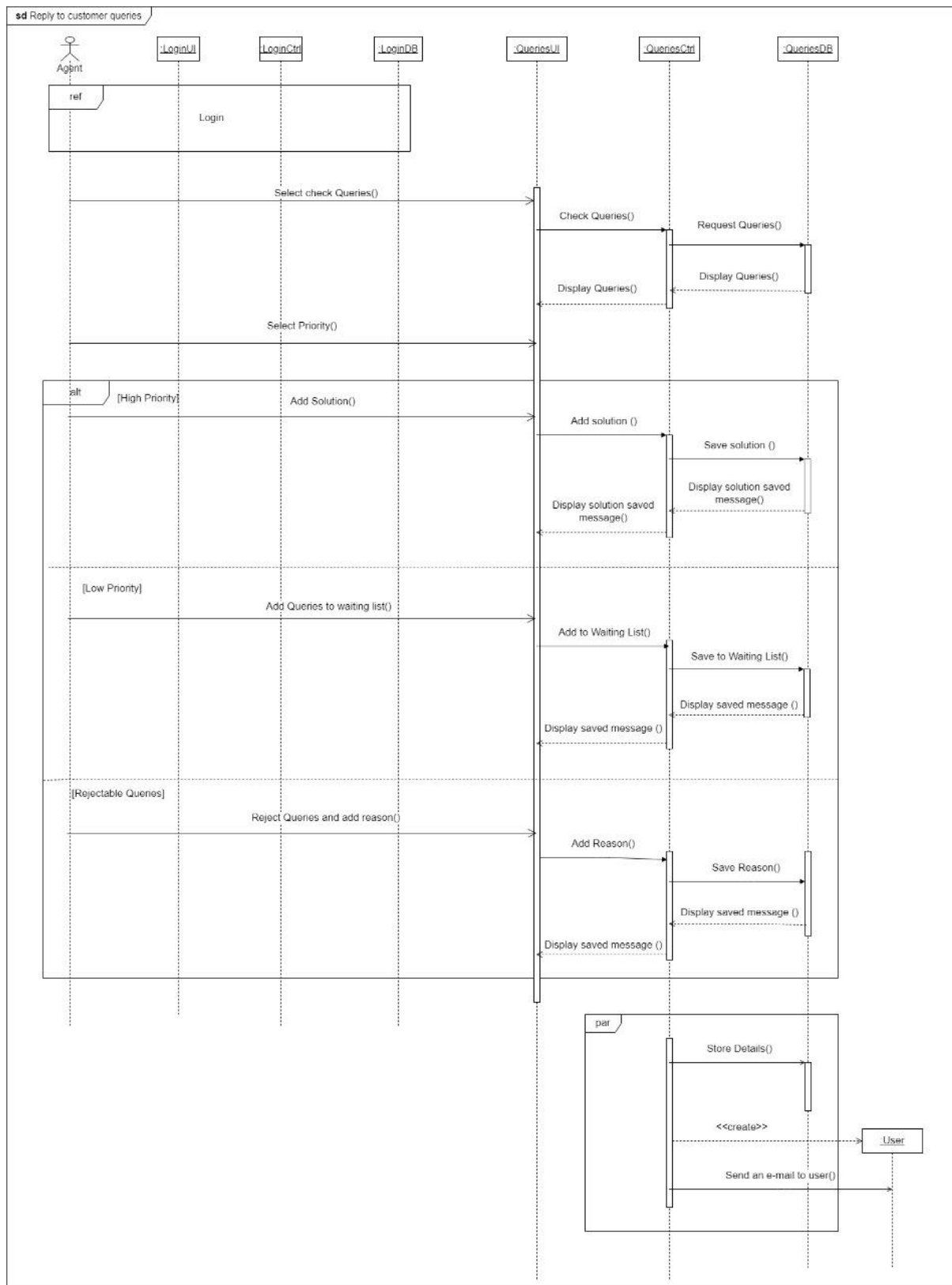
## Communication diagram – Raise a ticket



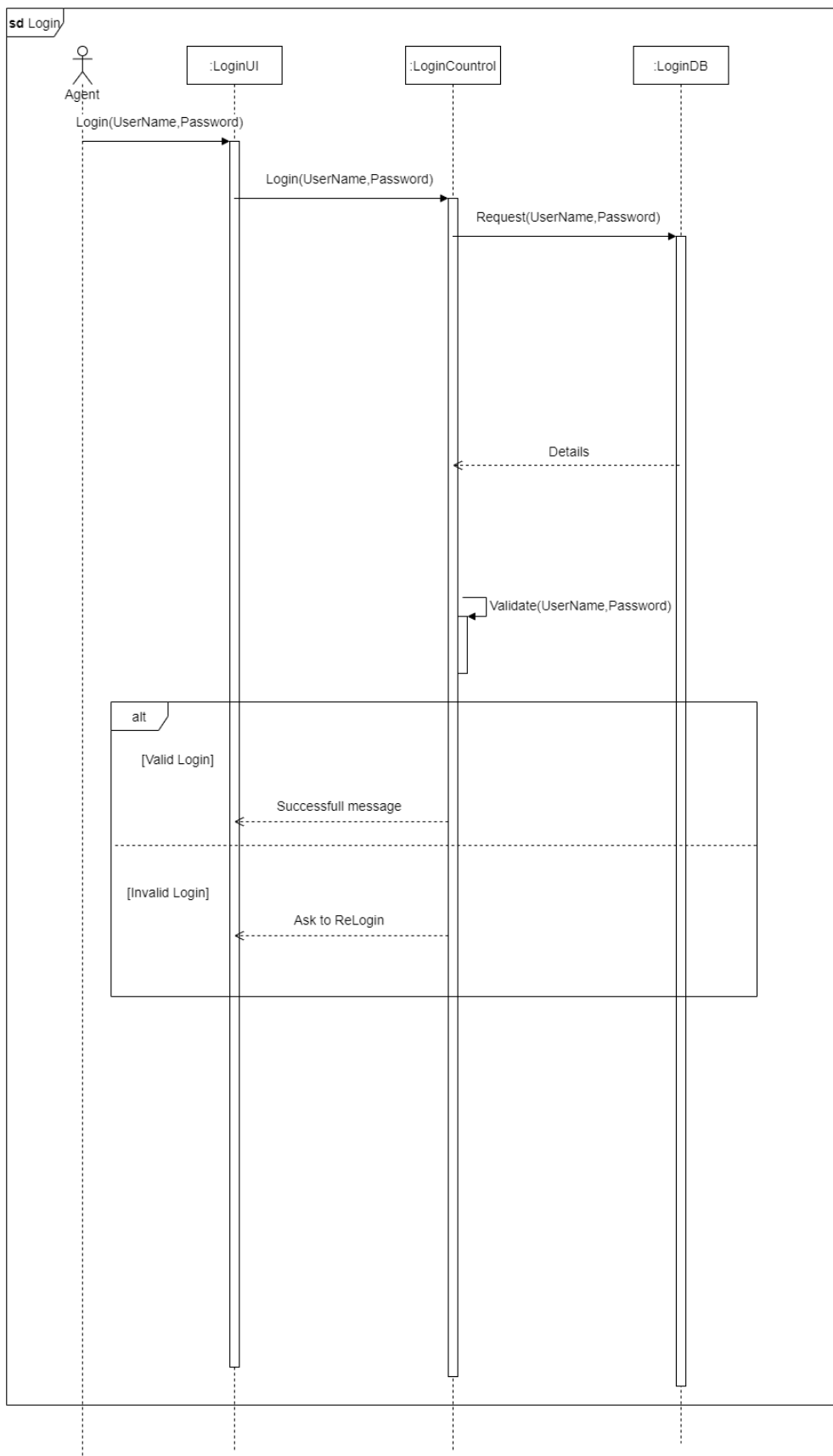
## Use case scenario – Reply to customer queries

<b>Number</b>	03	
<b>Name</b>	Reply to customer queries	
<b>Summary</b>	Agent replies to customers' queries.	
<b>Priority</b>	5	
<b>Preconditions</b>	Entered to the query page.	
<b>Postconditions</b>	Check customer queries and reply to queries.	
<b>Primary Actor(s)</b>	Agent	
<b>Trigger</b>	Agent has chosen to reply to customer queries.	
<b>Main Scenario</b>	<b>Step</b>	<b>Action</b>
	1	System display login page.
	2	Agent enters username, password.
	3	System validates login
	4	Agent clicks the check queries.
	5	System displays queries page.
	6	System asks to select priority of the queries.
	7	Agent selects priority.
	8	System displays queries according to the selected priority.
	9	Agent checks queries and add solutions.
	10	System displays solution saved message.
	11	System store details and send an e-mail to user.
<b>Extensions</b>	<b>Step</b>	<b>Branching Action</b>
	3a	If user login details invalid, system asks to re-login to the system.
	11a	System notifies user details are invalid, asks to re-enter user details.

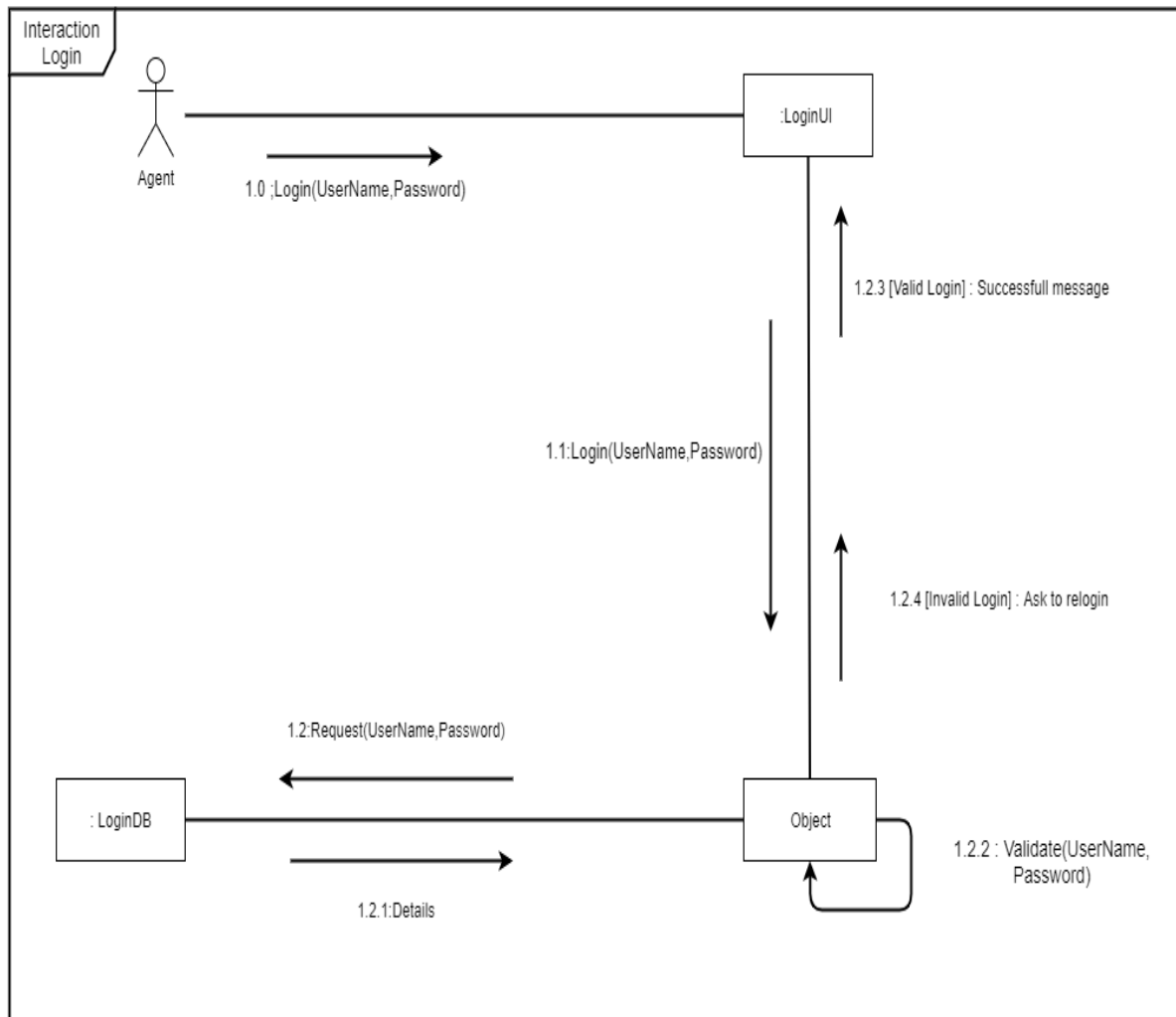
## Sequence diagram - Reply to customer queries



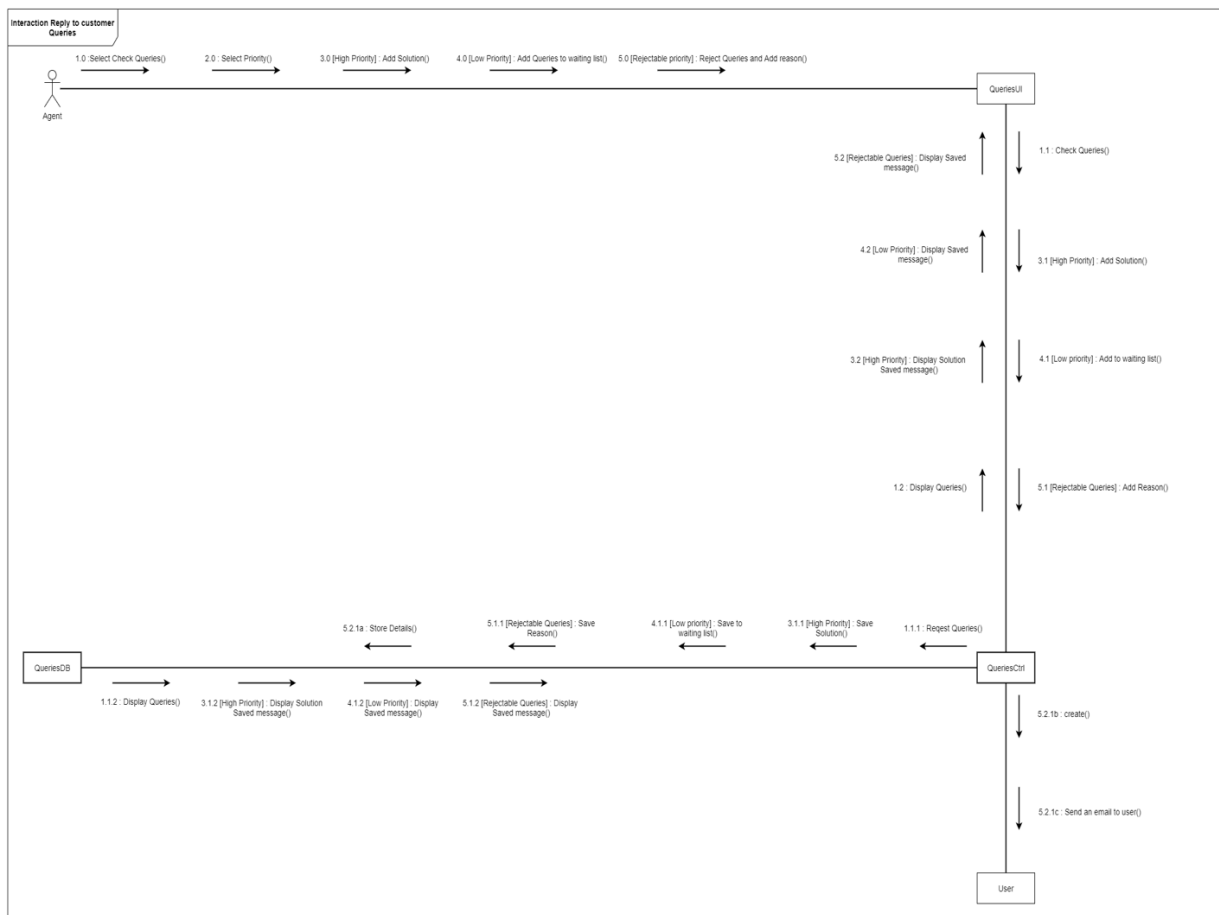
## Sequence diagram – Agent login



## Communication diagram – Agent login



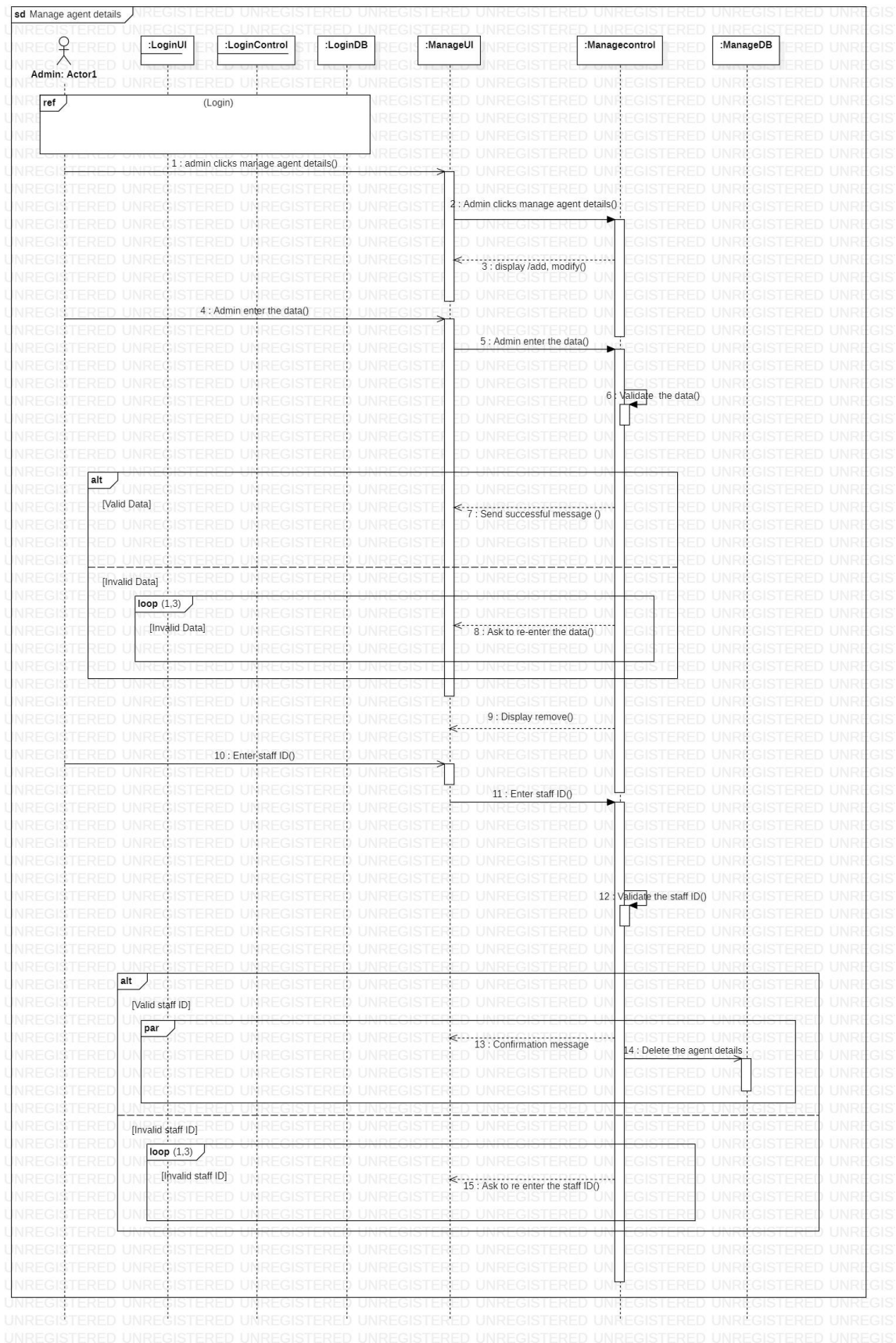
## Communication diagram – Reply to customer queries



### Use case scenario – Manage agent details

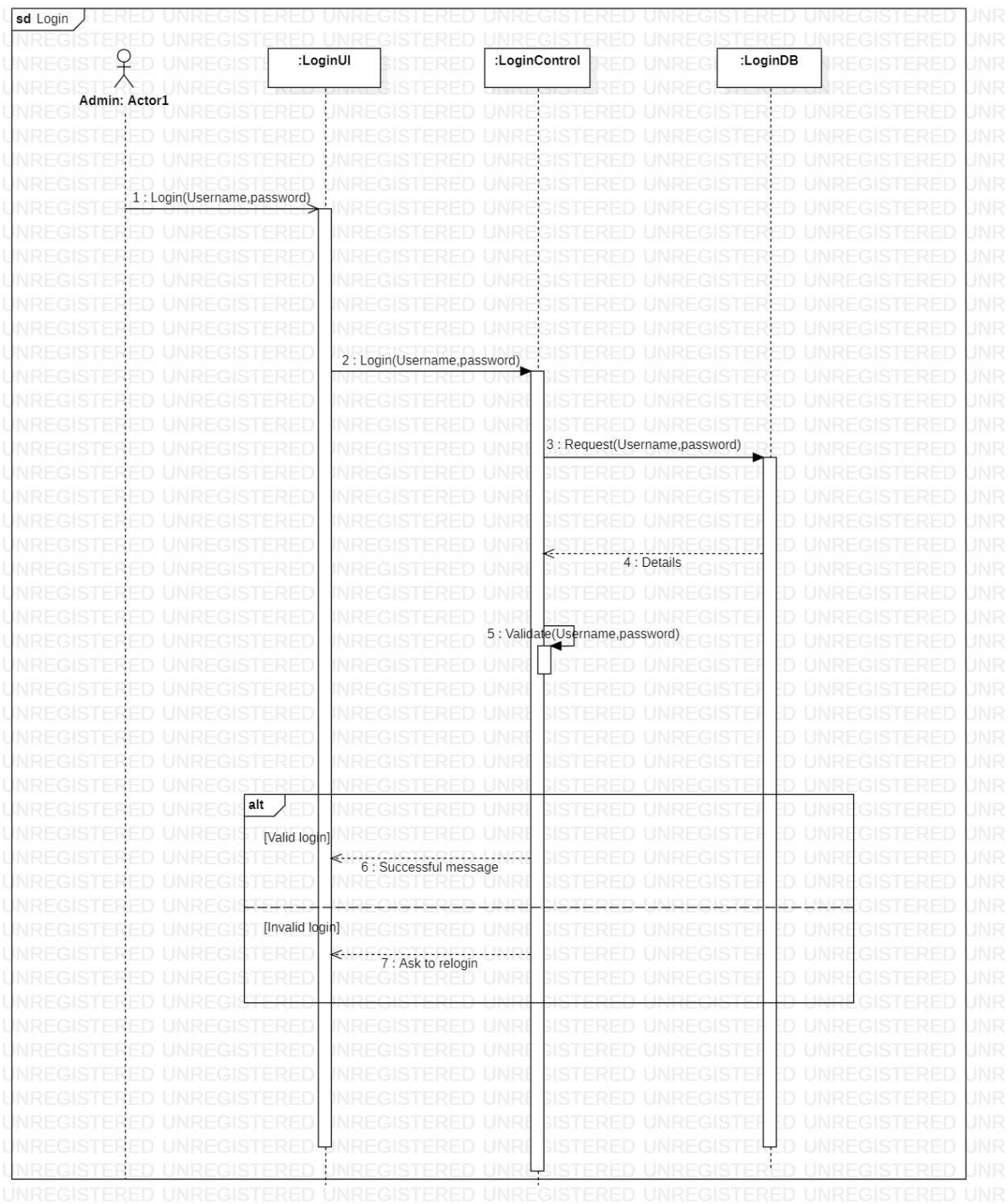
<b>Number</b>	04	
<b>Name</b>	Manage agent details	
<b>Summary</b>	Admin add, remove, modify agent details to the system	
<b>Priority</b>	3	
<b>Preconditions</b>	Admin has login to the system	
<b>Postconditions</b>	User has added, delete, modify admin details, and send a confirmation message	
<b>Primary Actor(S)</b>	Admin	
<b>Trigger</b>	User has chosen to add , delete , modify admin details.	
<b>Main Scenario</b>	<b>Step</b>	<b>Action</b>
	1	System shows login page to admin
	2	Admin enter username, password
	3	System validate login
	4	If the login is valid system display manage agent details
	5	Admin clicks manage agent details
	6	System display Add or modify details
	7	Admin select suitable and enter the data
	8	System validates the entered data
	9	If the data is valid, system send the successful message to admin
	10	System display Remove staff details
	11	Admin enter the agent ID
	12	System validates the agent ID
	13	If the agent ID is valid, at the same time system will remove that staff details and send a confirmation message to admin
<b>Extensions</b>	<b>Step</b>	<b>Branching Action</b>
	4a	Re log into the system
	9a	If the data is invalid system allow admin to reenter the data (Admin can enter the data 3 times only)
	13a	If the agent ID is not valid, system allow admin to reenter the staff ID (Admin can enter the data 3 times only)

## Sequence diagram - Manage agent details

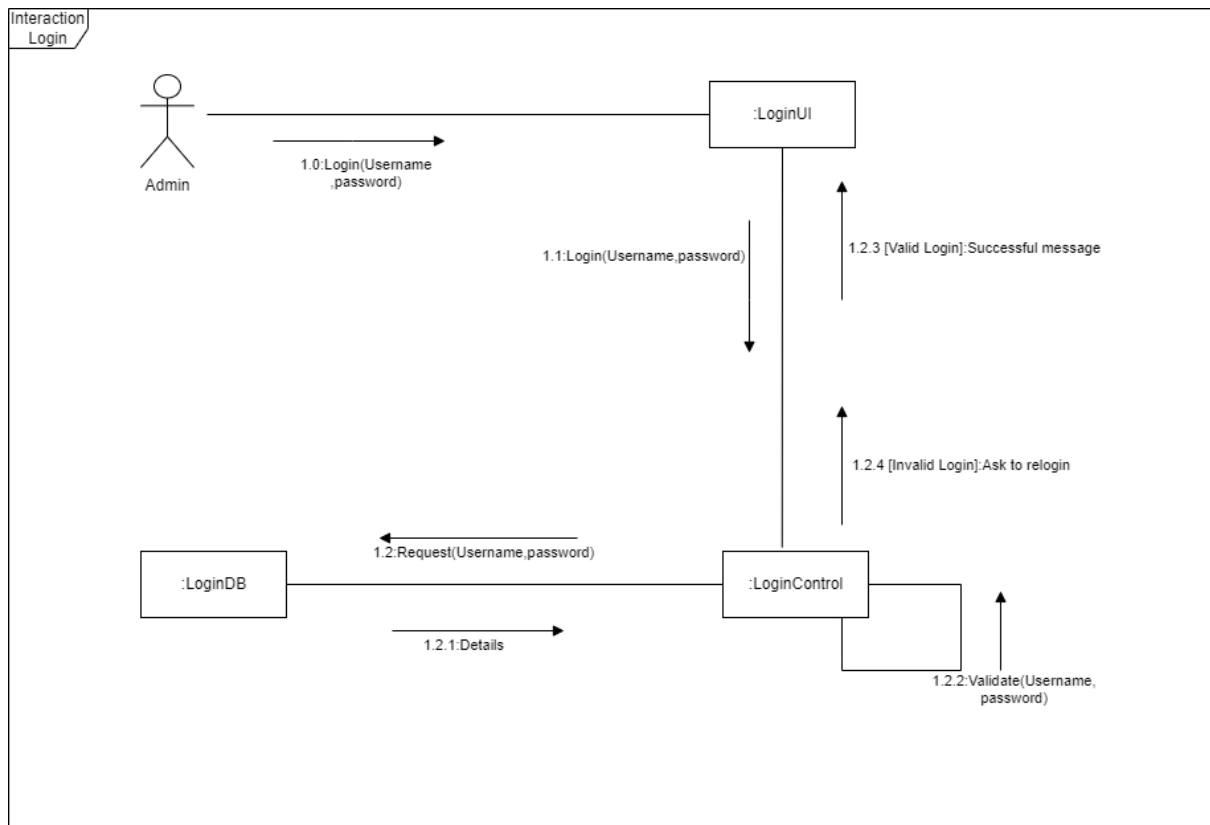




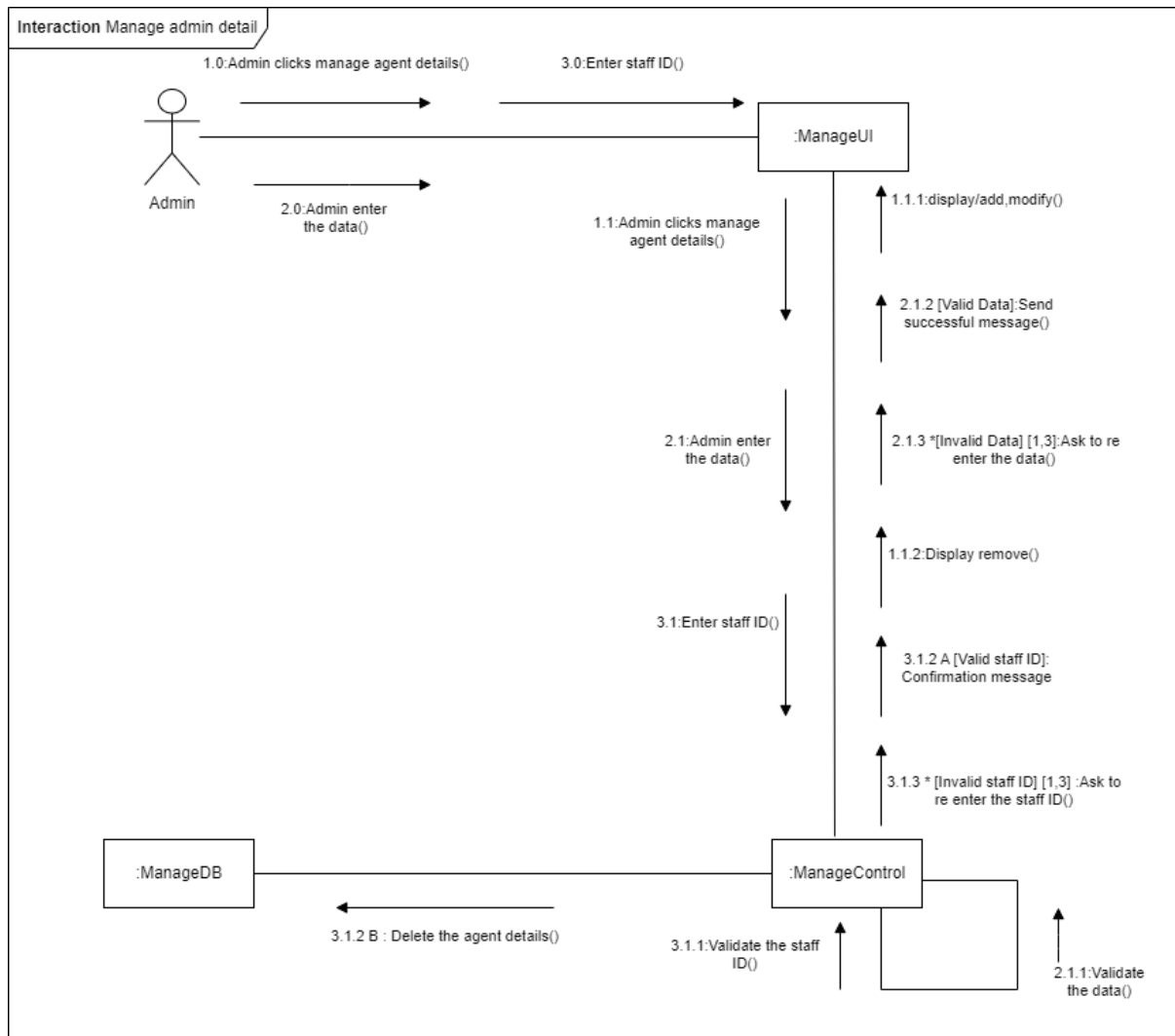
## Sequence diagram – Admin login



## Communication diagram – Admin login



## Communication diagram – Manage agent details



<b>Reg.No</b>	<b>Name</b>	<b>Function Name</b>
IT21254420	Dewpura D.D.W.C	Make registration
IT21340628	Abeywickrama A.A.D	Raise a ticket
IT21212772	Koggala D.B.K.D	Reply to customer queries
IT21240324	Kulasuriyalage H.K.K	Manage agent details