IT2020 – Software Engineering
Year 2, Semester II, 2022
Group Assignment

Online Computer Spare Parts Management System

Group Details

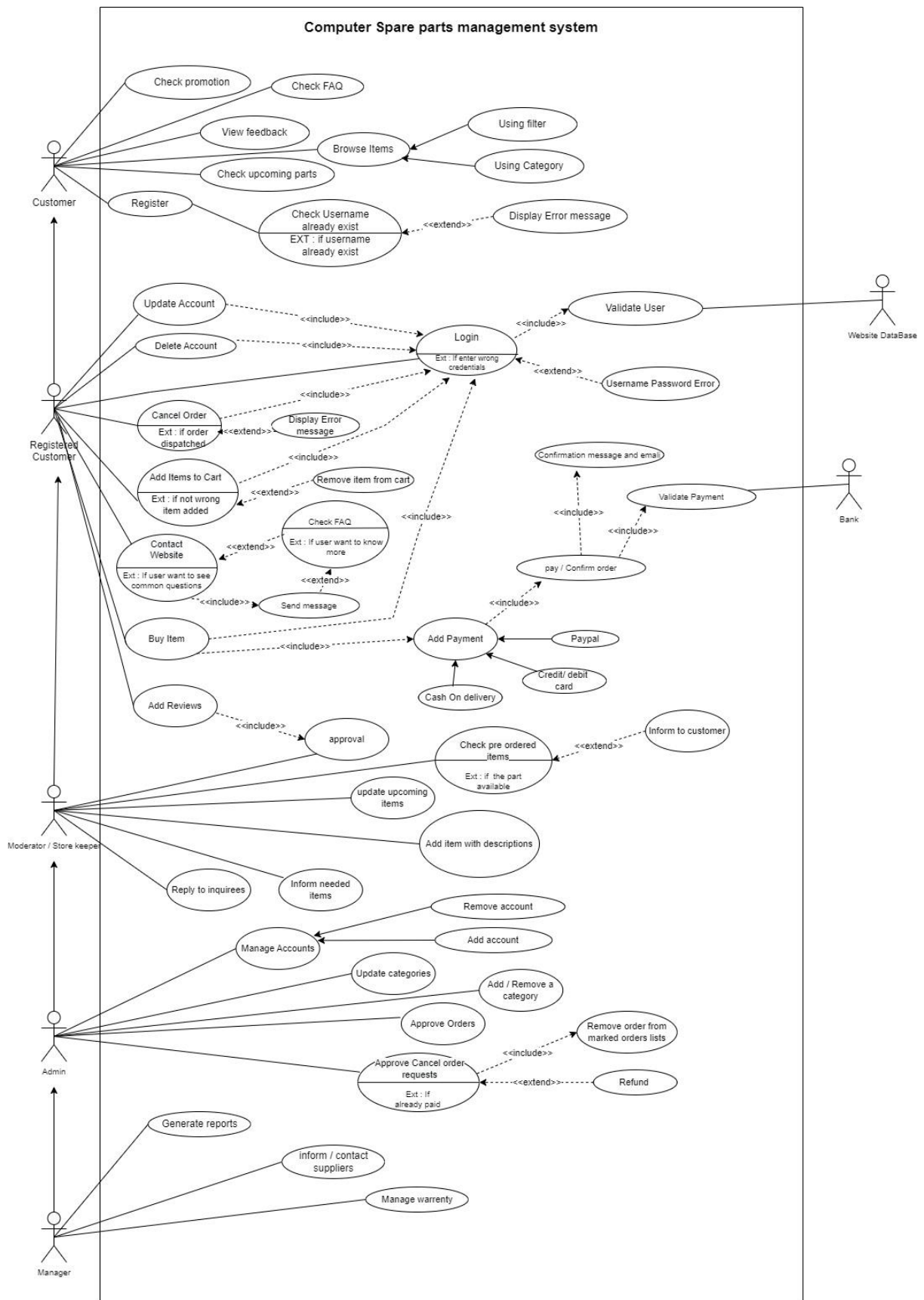**Batch:**

SE/OOP Group Number: SE/OOP_MLB_WD_2022_S2_129

	Student Registration Number	Student Name
1	IT21189944	Madusanka G.K.I
2	IT21176456	Gimmana M.R.M
3	IT21177996	Cooray N.T.L
4	IT21174780	D.M.M.I.T.Dissanayaka

Use Case Diagram

Computer Spare parts management system

IT21189944 – Madusanka G.K.I

- **Customer Registration**

1 . Use case scenario :

Number	01
Name	Register
Summary	Register as user
Priority	01
Pre - Condition	Guests must visit the website.
Post-Condition	The system sends an email of gratitude to the user with a note to confirm successful registration.
Primary Actor	Guest
Trigger	The guest chooses to register.

| Main Scenario	Step	Action
	1.	Visit the website.
	2.	Guest clicks on sign up button
	3.	The system displays the registration form and asks to enter the name.
	4.	The guest enters the username, full name, email, and password with the mentioned characters and retypes the password.
	5.	Guest clicks on the sign-up button to submit the registration form.
	6.	The system stores the guest details and sends an email with a PIN to confirm entered email.
	7.	Guest entrees PIN on the website
	8.	The system sends an email of gratitude to the user with a note to confirm successful registration.
Extensions	**Step**	**Branching Actions**
	5a	The system notifies the guest that the entered username already exists.
	5b	The system notifies the guest that the entered email is not valid.
	5d	The system notifies the guest that the re-entered password is not matched the previous password.
	5e	The system notifies guests that the information provided is incomplete.

2. Sequence Diagram :
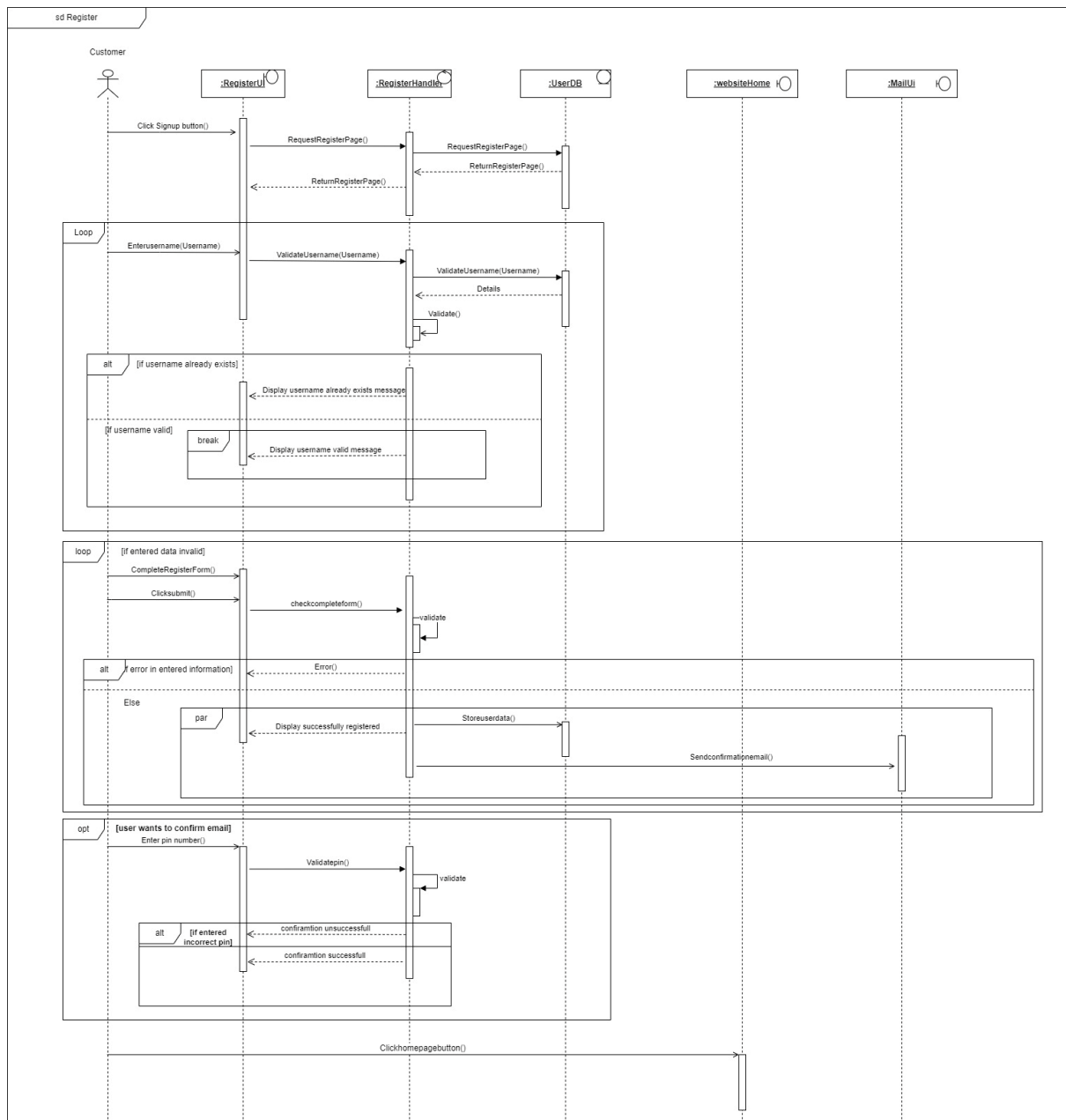
3. Communication Diagram :
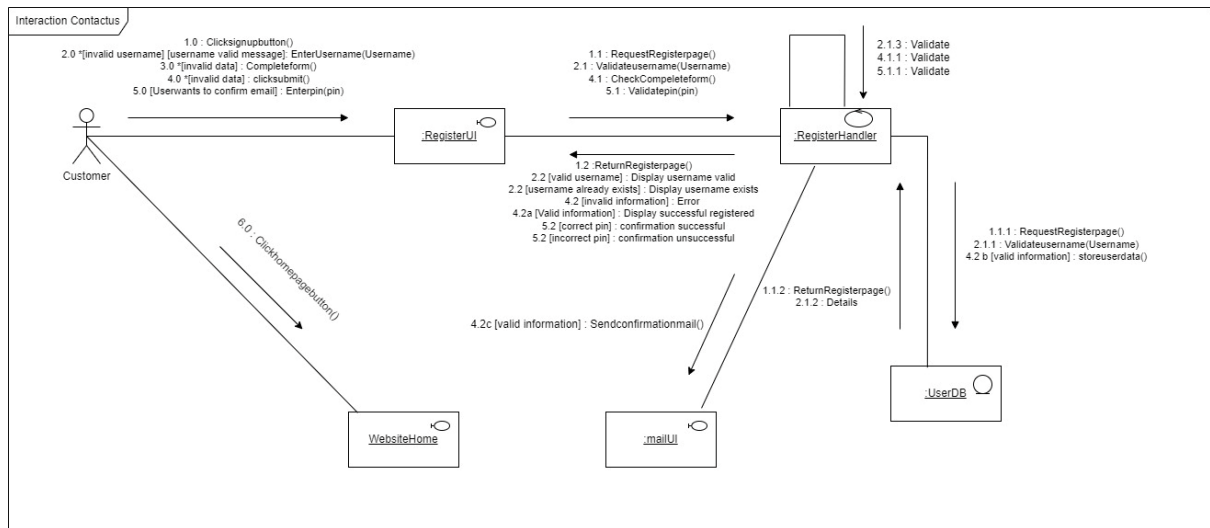
- **Registered Customer contact support services**

1. Use case Scenario :

Number	02	
Name	Contact us	
Summary	Customer Inquiry	
Priority	01	
Pre - Condition	Registered to the system	
Post-Condition	The customer submits the Inquiry.	
Primary Actor	Registered Customer	
Trigger	Registered Customer chooses to contact the website.	
Main Scenario	**Step**	**Action**
	1.	Visit the website.
	2.	The Customer logins by entering their username and password
	3.	Customer clicks on the contact us button
	4.	The system displays the contact us page.
	5.	Users fill out the contact us form with the necessary details.
	6.	The user clicks the submit button.
	7.	System store the inquiry details
Extensions	**Step**	**Branching Actions**
	2a	The system notifies the guest that the entered email or username is incorrect.
	2b	The system notifies the guest that the entered password is incorrect.
	6a	The system notifies guests that the information provided is incomplete.

2. Sequence Diagram :
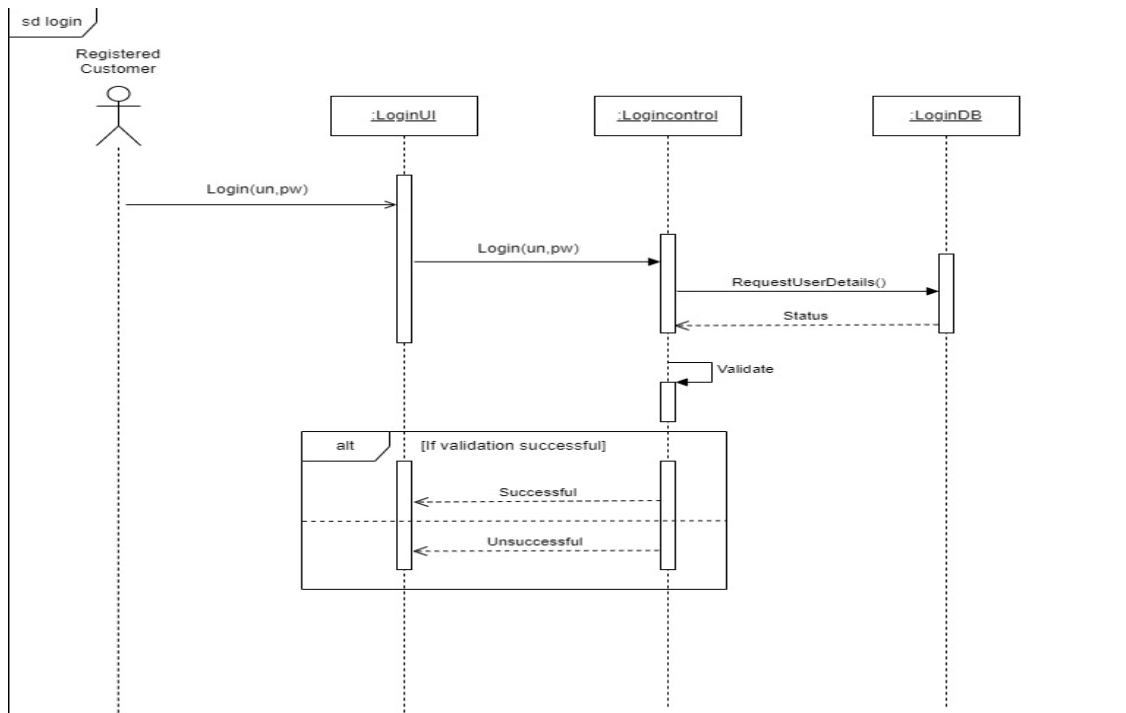
Login –
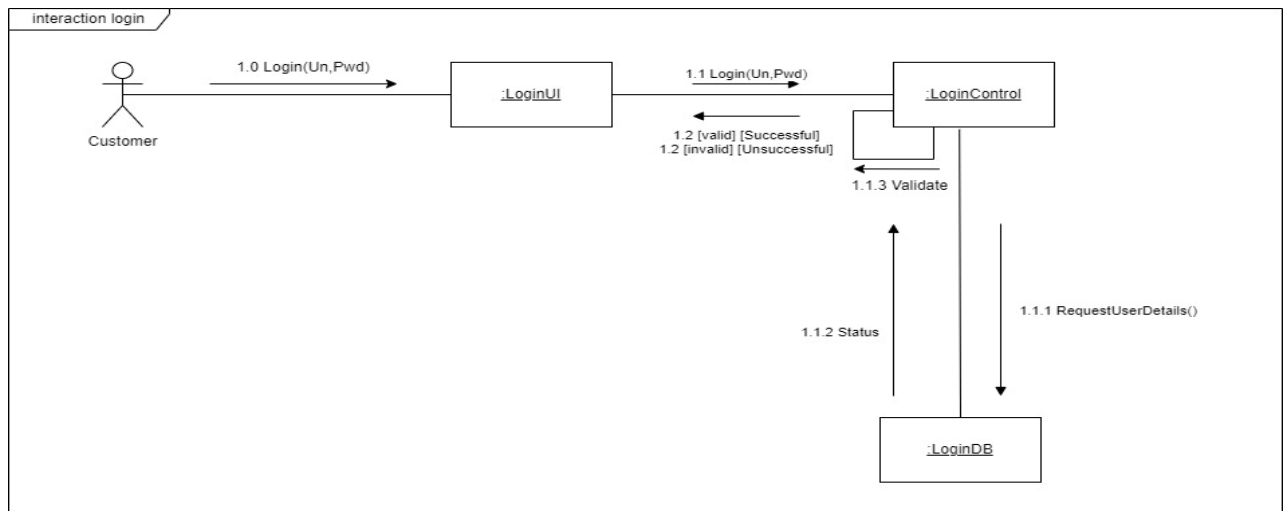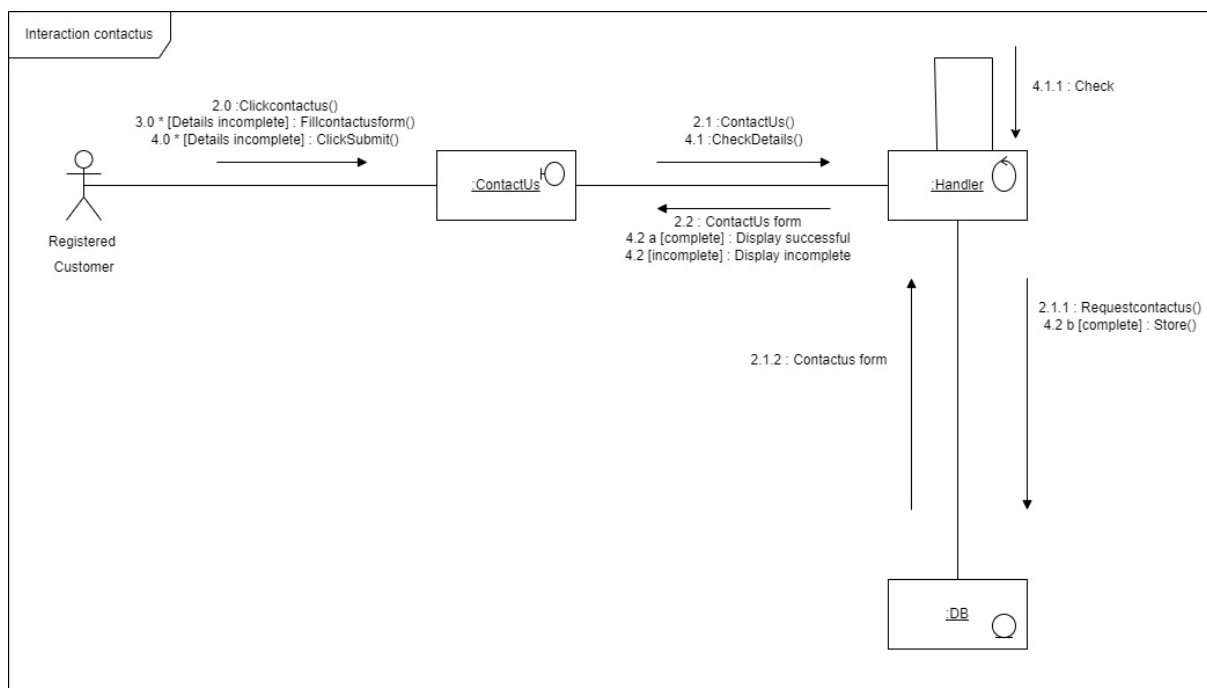

Contact Support–
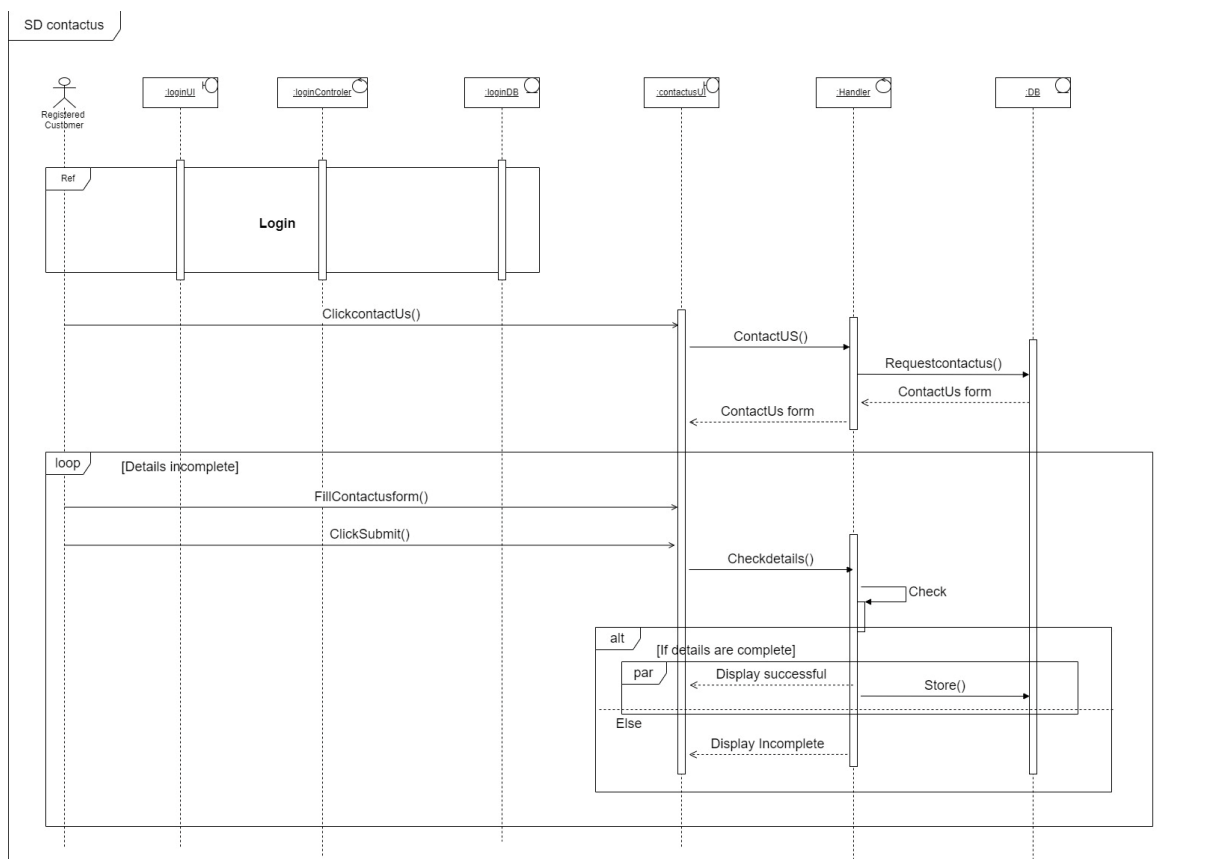
3. Communication Diagram :

Login –

Contactus –

- I assume that the checking procedure is a part of the checkdetails().
- I assume that the fill contact form part and click submit part must repeatedly do until the user fills in the form details correctly.

IT21176456 – Gimmana M.R.M
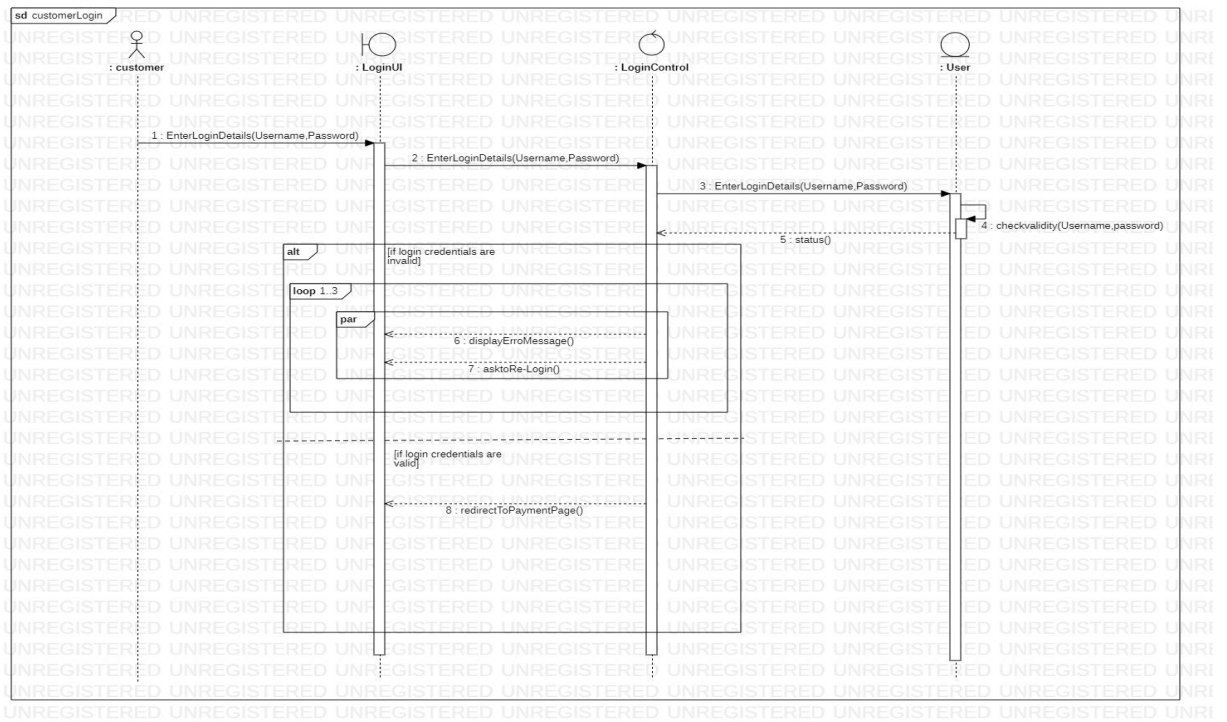
- **Customer Buy Items online**

1. Usecase Scenario :

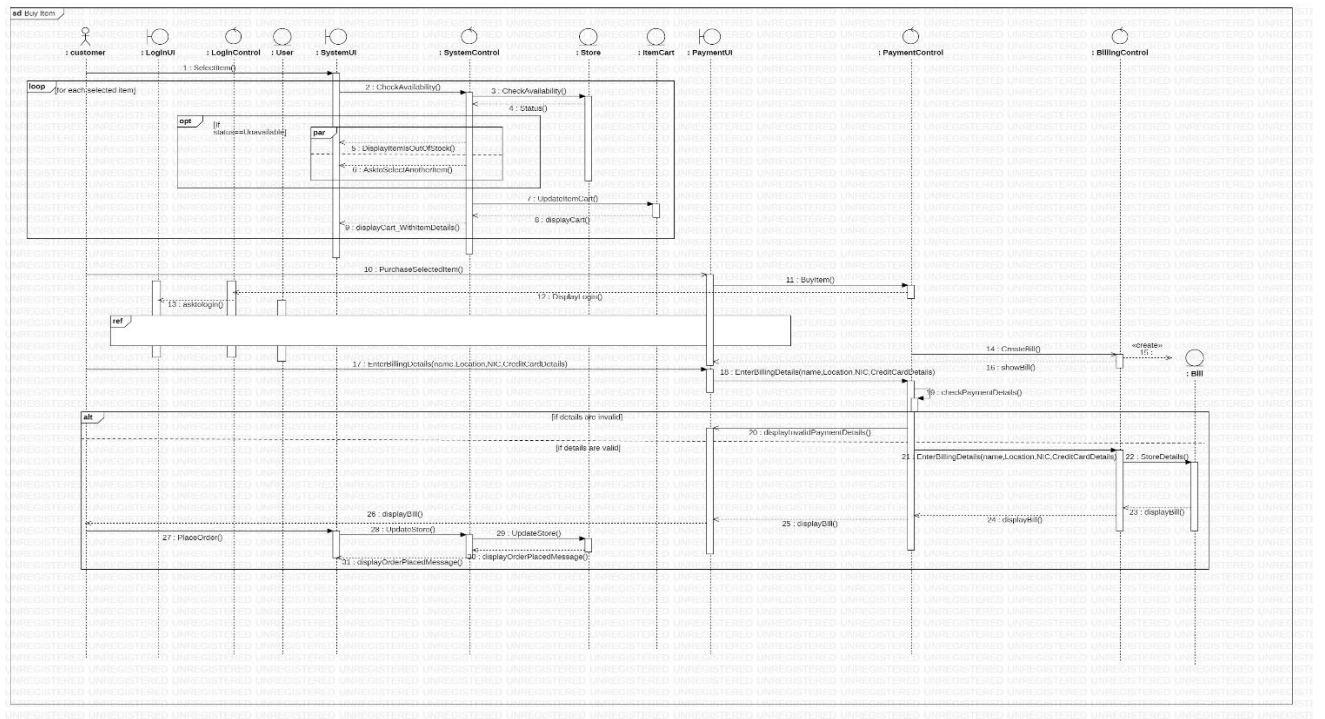| Number	B002	
Name	Buy item(s)	
Summary	Customers buy items online	
Priority		
Pre - Condition	Customer view cart and select an item	
Post-Condition	Send purchased items to pack	
Primary Actor	customer	
Main Scenario	**Step**	**Action**
	1.	Customers select Item(s)
	2.	System checks availability of the selected item(s)
	3.	System Update the item cart
	4.	Display the cart to the customer
	5.	customer click purchase button to buy the item
	6.	system asks to give login credentials
	7.	Customer gives his login credentials
	8.	System checks the customer credentials
	9.	System displays payment page
	10.	Customer gives payment details
	11.	System checks payment details
	12.	System generates a bill
	13.	System displays the bill to customer
	14.	Customer place order
	15.	System updates store
	16.	System displays order success message
Extensions	**Step**	**Branching Actions**
	2a	If the items are not available system displays items is not in the stock
	2b	System asks customer to select item again
	6a	If login credentials are invalid, system asks to re-enter the login credentials
	8a	If login credentials are invalid, system ask to re-login
	11a	If payment details are invalid system ask to re-enter the details

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2. Sequence Diagram :

Customer login :

Buy Item Online :

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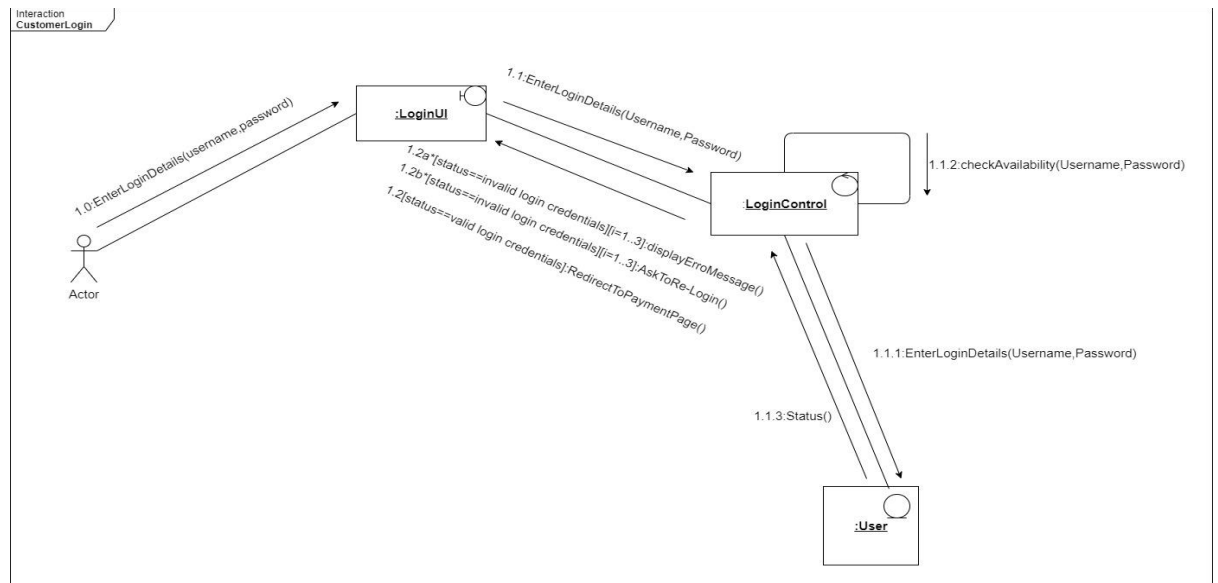
3. Communication Diagram

Login :

Buy Items :
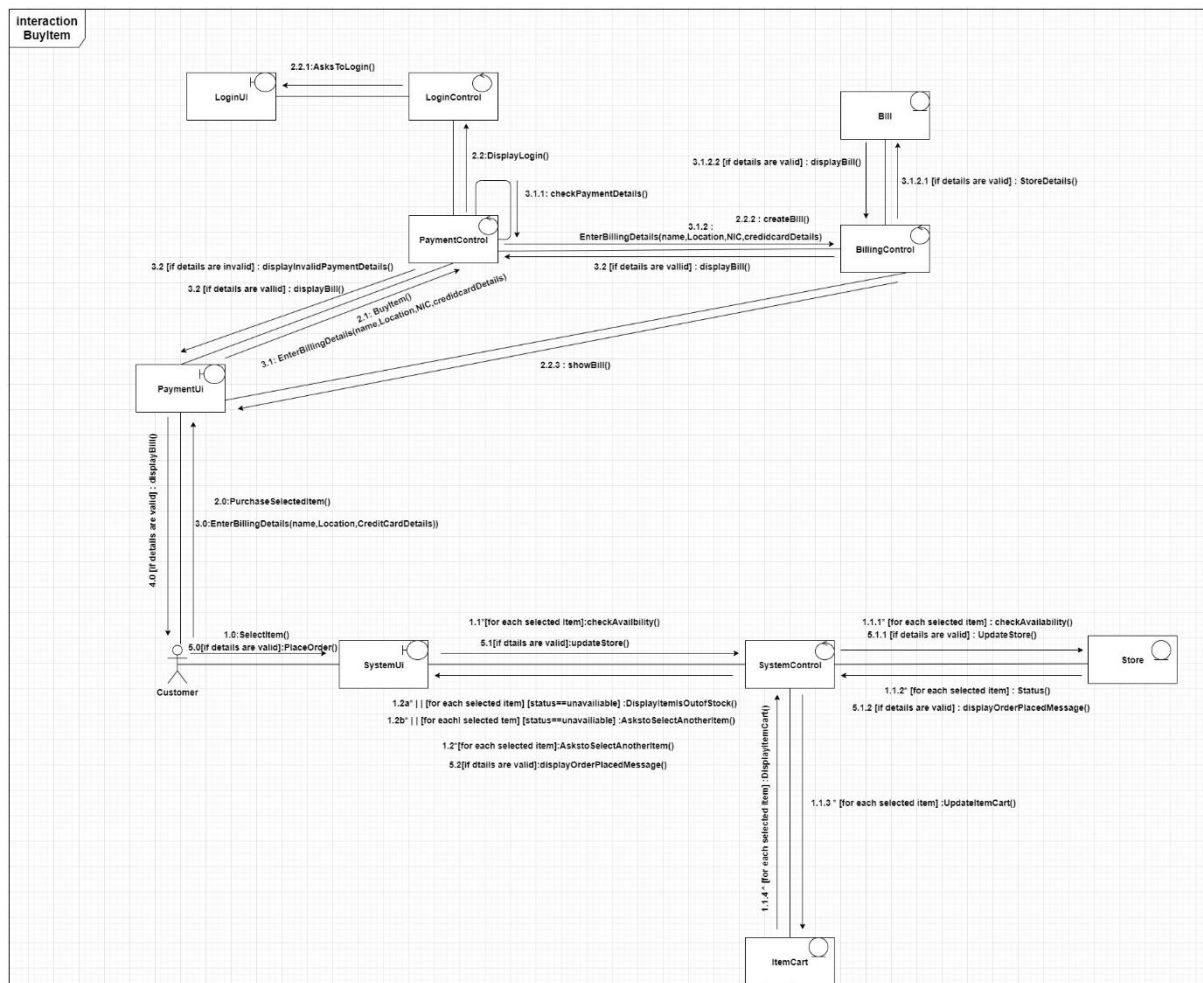
IT21177996 – Cooray N.T.L

1. Use Case Scenario
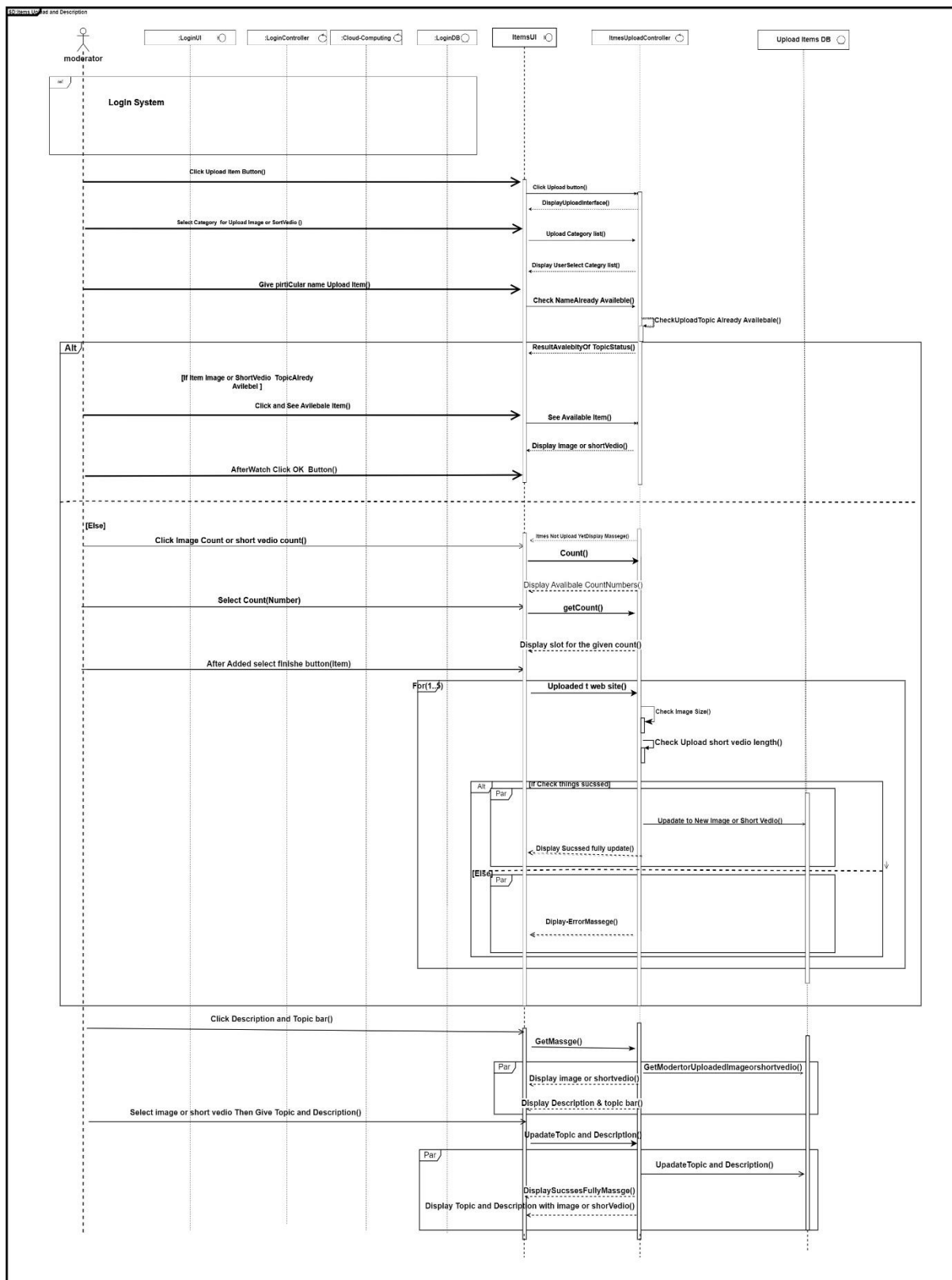
Number	008	
Name	Upload items and Description	
Summary	The moderator visits the System and has added items and Descriptions to the Website.	
Priority	2	
Pre - Condition	Moderator has a successfully registered account in this system and Moderator has already logged in to the website.	
Post-Condition	Moderator added an item with a description	
Primary Actor	Moderator	
Main Scenario	**Step**	**Action**
	1.	Moderator Logins to the Dashboard Using Username and Password or Google Authentication(Using Admin Approved Email)
	2.	The moderator goes through the website with he has features
	3.	Moderator clicks upload items button
	4.	Moderator access the upload items and Description panel
	5.	Select Items category moderator want
	6.	Give the particular name to upload video(s) or image(s)
	7.	Select the count moderator wants for the upload items
	8.	Upload items and update the database
	9.	Display 'successfully uploaded items' and display items they have added topic and description for the items
	10.	select an image or short video and then give the topic and Description of moderator uploaded things
Extensions	**Step**	**Branching Actions**
	1a	Provide the opportunity to log in again
	1b	If verification fails three times and display error an exist, the process
	6a	If items are already available in the system show images or short videos
	6.a.1	then click the ok button
	6b	If a related item is not in their display "Not available message"

2. Sequence Diagram
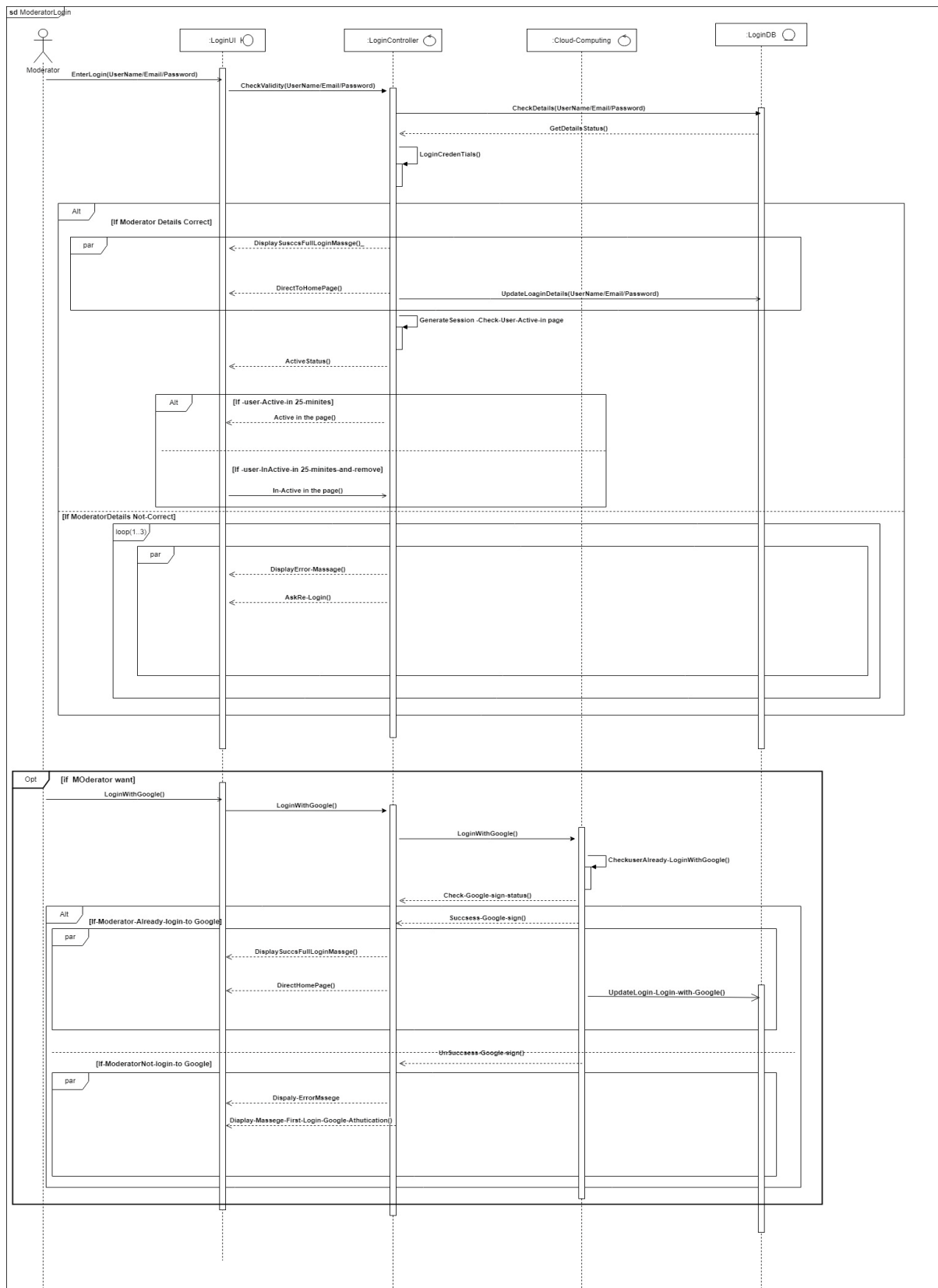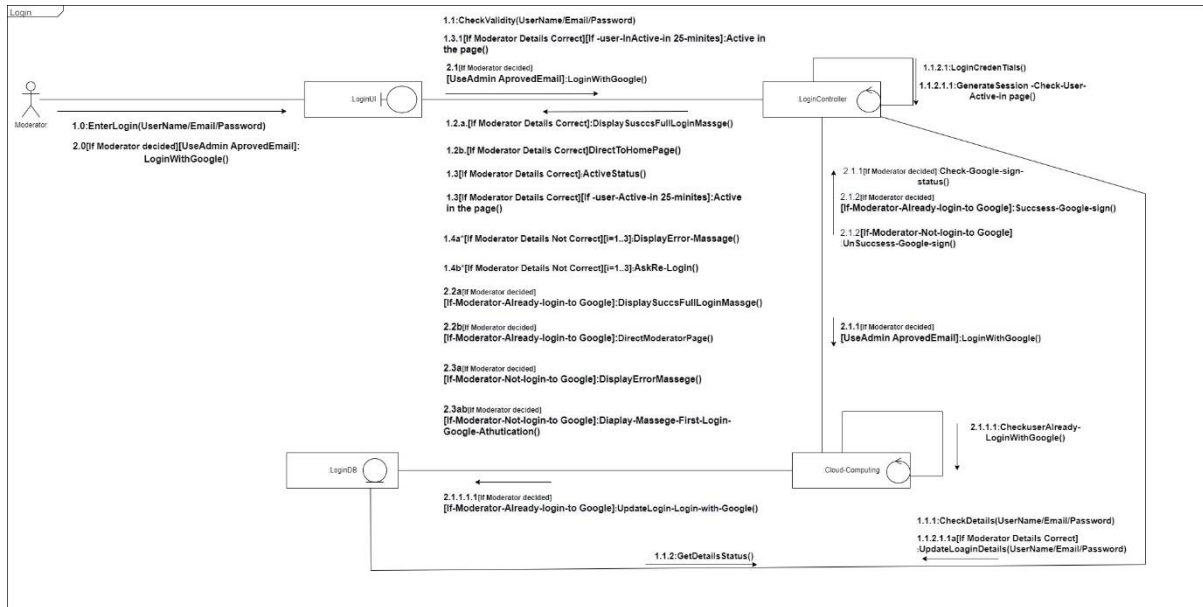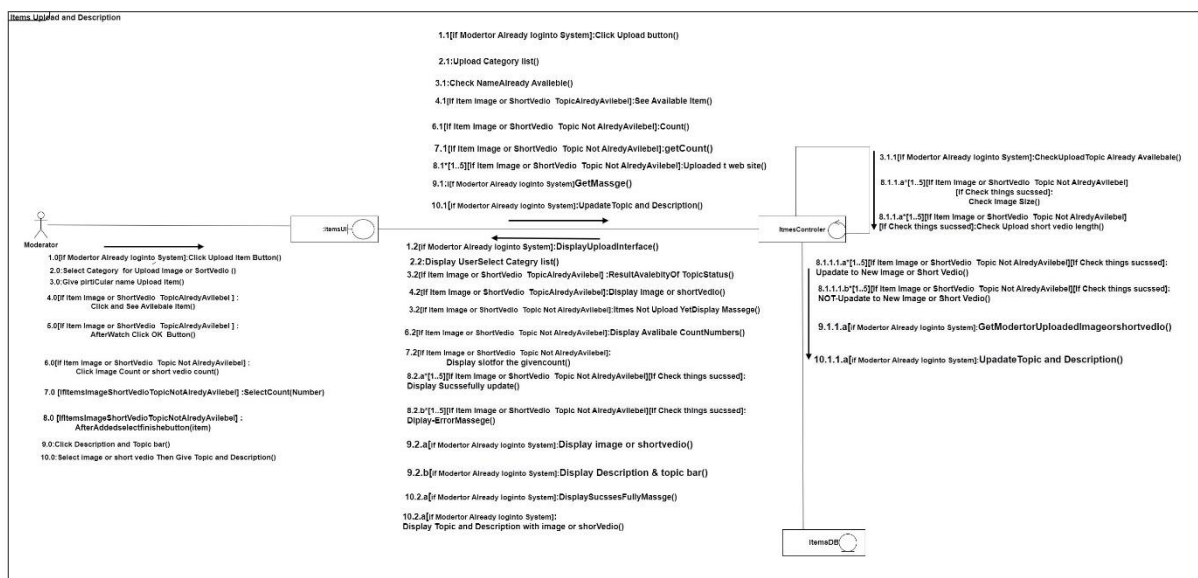
Login :

Item Upload and description :

3. Communication Diagram

Login :
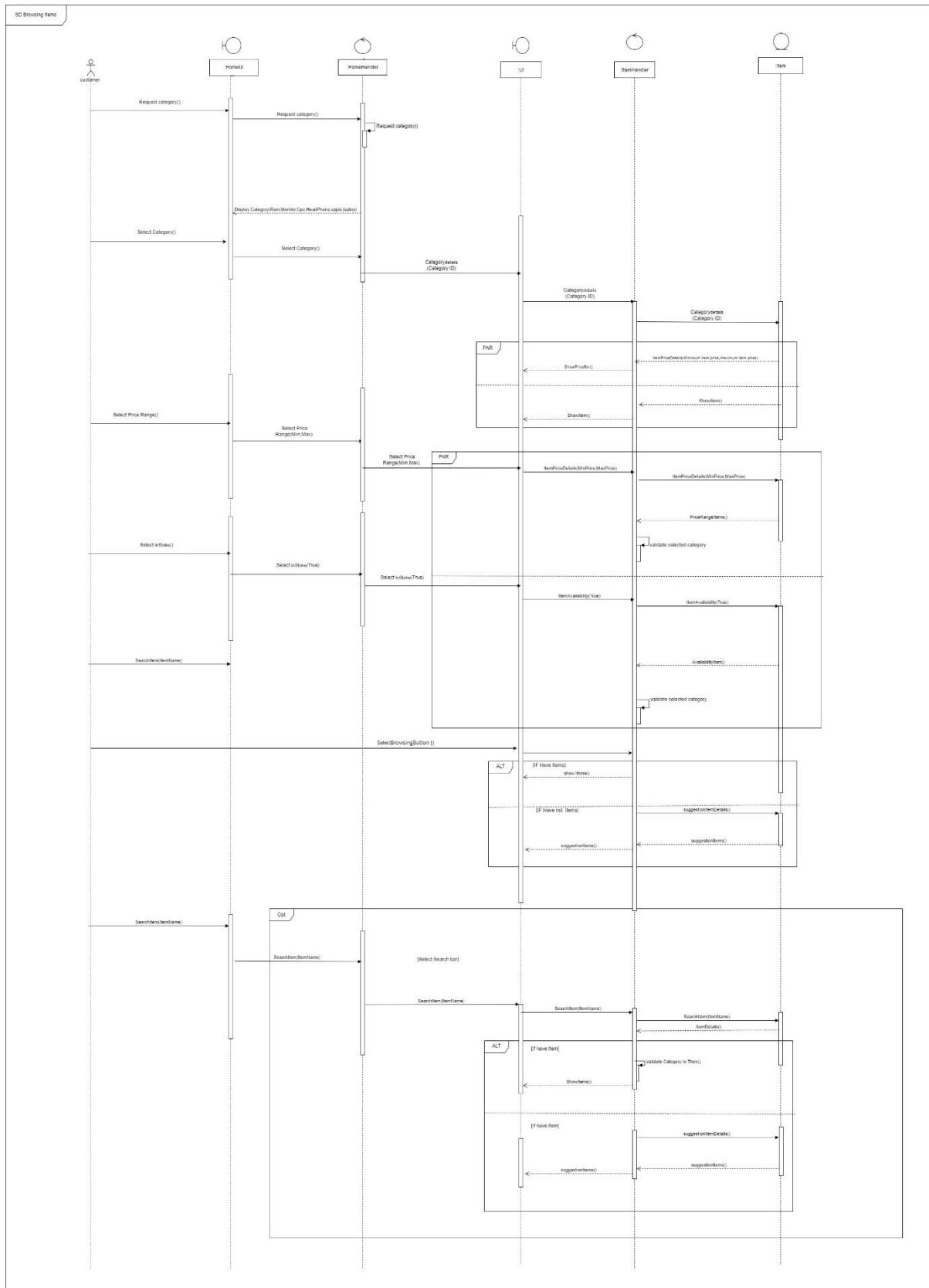

Item Upload and description :

IT21174780 - D.M.M.I.T.Dissanayaka

1 . Use case scenario :

Number	008
Name	Customers browse an Item
Summary	Customers browse and find item
Priority	
Pre - Condition	Customer must visit the website
Post-Condition	Customers find the item
Primary Actor	Customer

Main Scenario	Step	Action
	1.	Customers need to reach home page.
	2.	System checks all main category in the database and show all categories.
	3.	Customer needs to select what he wants to find from the category.
	4.	Display the price bar by including minimum and maximum price range by checking the database.
	5.	Customer select the price range from the price bar needed to be brows.
	6.	Show availability check bar.
	7.	Customer check in stoke Item.
	8.	Customer clicks Browsing Button
	9.	Preview item list using the conditions in database.
	10.	Customer can enter the item what he wants.
Extensions	Step	Branching Actions
	3a	Search Item using Search bar.
	5b	If does not select any price range, display all the price ranges item in the database.
	7a	If does not assign the availability, display all the item in the database.
	9a	If it is not in there in the item list, it shows suggestion items.

2. Sequence Diagram

3. Communication Diagram :

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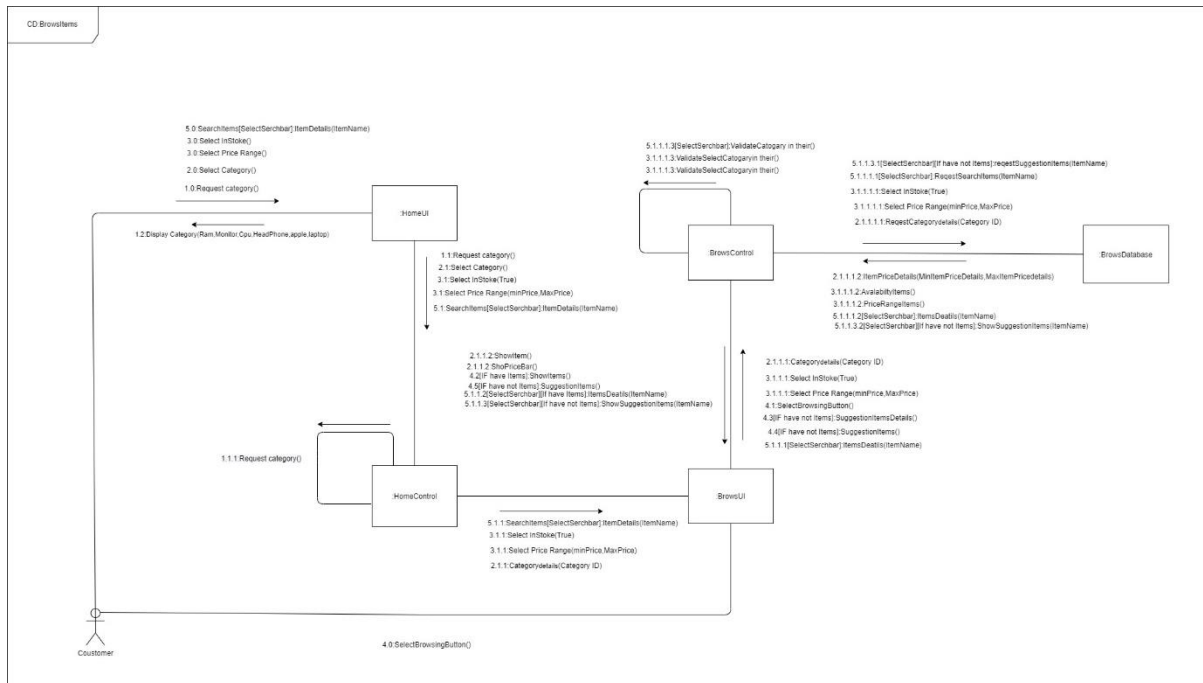
Individual Contribution

Reg No	Name	Function Name
IT21189944	Madusanka G.K.I	**1. Customer Registration** ✓ **Usecase scenario** ✓ **Sequence diagram** 　- Loop 　- Break 　- Alt 　- Opt 　- par ✓ **Communication diagram** **2. Contact website** ✓ **Usecase scenario** 　- Loop 　- Alt 　- Ref 　- par ✓ **Sequence diagram** ✓ **Communication diagram**
IT21176456	Gimmana M.R.M	**1. Buy Item** ✓ **Usecase scenario** ✓ **Sequence diagram** 　- Loop 　- Opt 　- Alt 　- Ref 　- Par 　- create ✓ **Communication diagram**
IT21177996	Cooray N.T.L	**1. Add item with description** ✓ **Usecase scenario** ✓ **Sequence diagram** 　- Loop 　- Alt

		- Par - Ref ✓ **Communication diagram**
IT21174780	D.M.M.I.T.D issanayaka	**1. Browse an Item** ✓ **Usecase scenario** ✓ **Sequence diagram** - Alt - Opt - par ✓ **Communication diagram**