

IT2020 – Software Engineering

Year 2, Semester II, 2022

Group Assignment

<<Online Biding System>>

Group Details

Batch: Year2_Semester1 (2022)

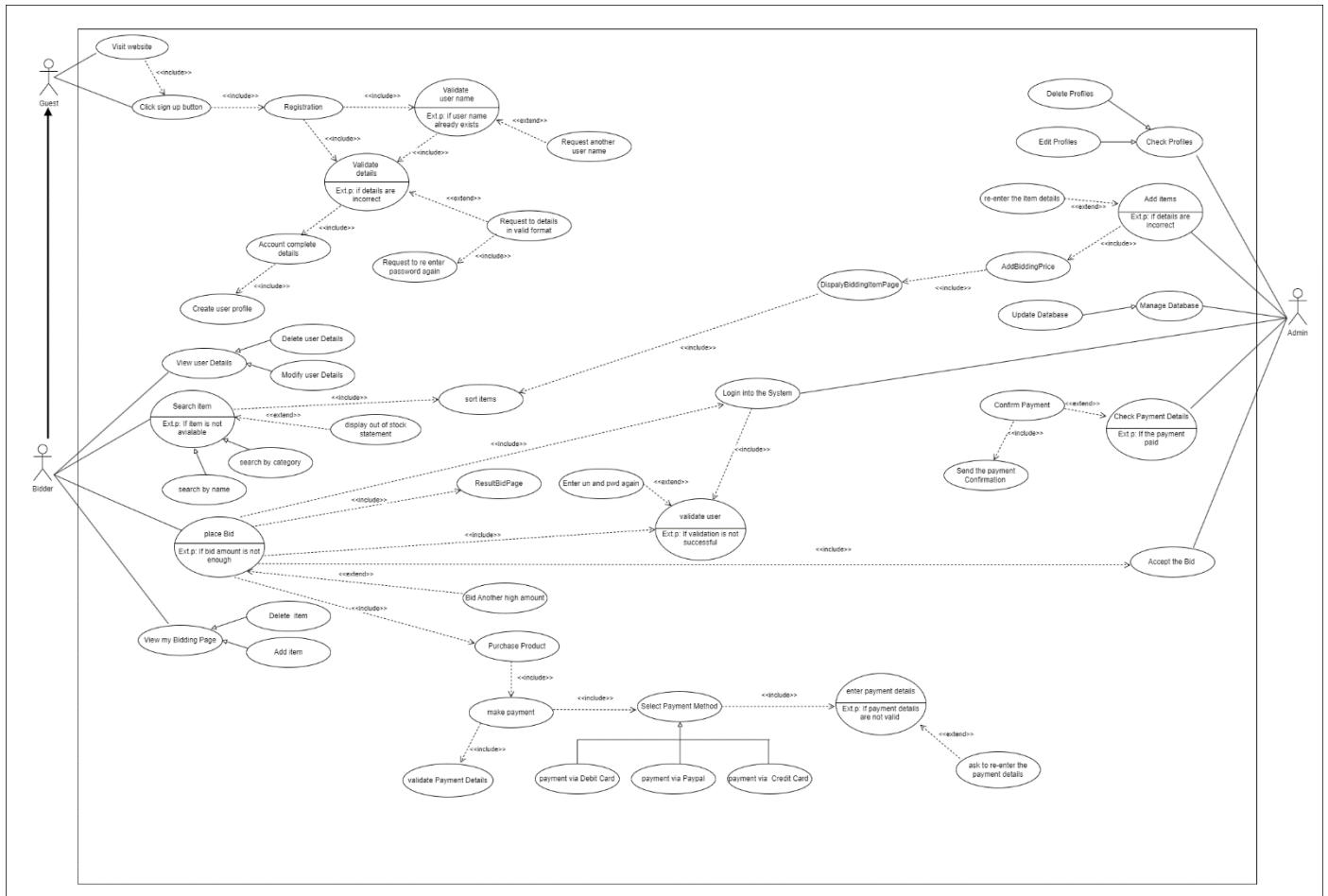
SE/OOP Group Number: SE/OOP_MLB_WD_2022_S2_128

	Student Registration Number	Student Name
1	IT21189708	Bandara D.H.M.A.K.P.
2	IT21355196	Kalpajith K.L.S.
3	IT21189876	H.B.T.N Karunarathna
4	IT21354656	S.M.L.E Bandara

Reg No	Name	Function
IT21189708	Bandara D.H.M.A.K.P.	Registration
IT21355196	Kalpajith K.L.S.	Place bid
IT21189876	H.B.T.N Karunarathna	Make Payment
IT21354656	S.M.L.E Bandara	Add a Product

Online Biding System

Use Case Diagram



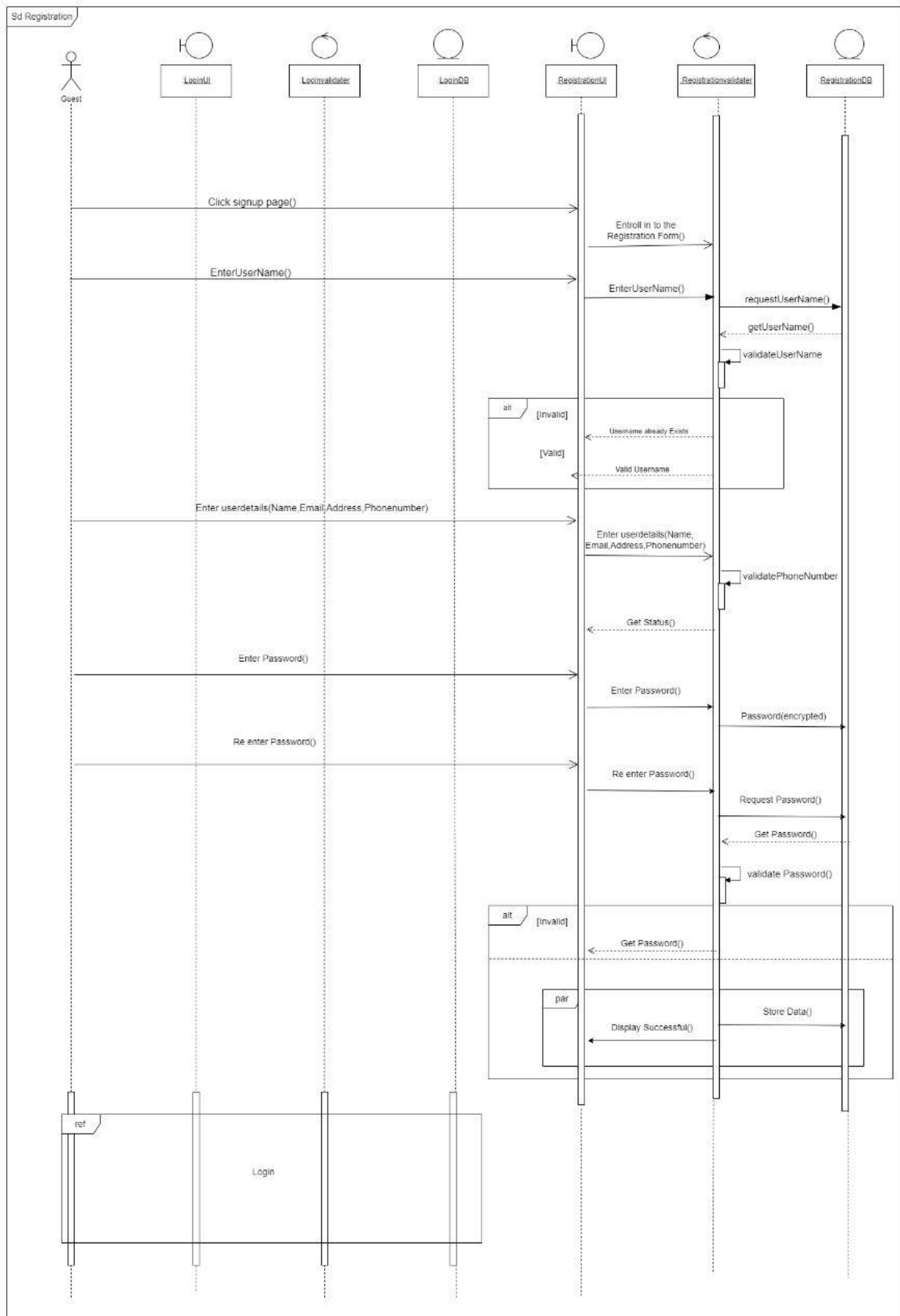
IT21189708

Bandara D.H.M.A.K.P.

Number	001	
Name	User registration	
Summary	Registering a guest to the system	
Priority	01	
Precondition	Visit the website using the URL	
Post condition	Sign in as a registered user	
Primary actor	Guest	
Trigger	For the guest to login to the system	
Main scenario	Steps	action
	01	Click the Sign-up button
	02	Click "Register here " button
	03	Enter Username
	04	System validate username
	05	Enter the guest's name, address, email
	06	Enter the contact number
	07	Create password
	08	Re-enter password
	09	System validates the password
	10	Displaying a notification "Successfully Registered"
Extensions	steps	action
	4.a	If the Username already exists
	4.b	Display an error message "Re-enter another username"
	6.a	If Contact number Does not match with format
	6.b	Re-enter the contact number again according to the format
	8.a	If password does not match
	8.b	Display an error message
	9.a	If the password is incomplete display error message

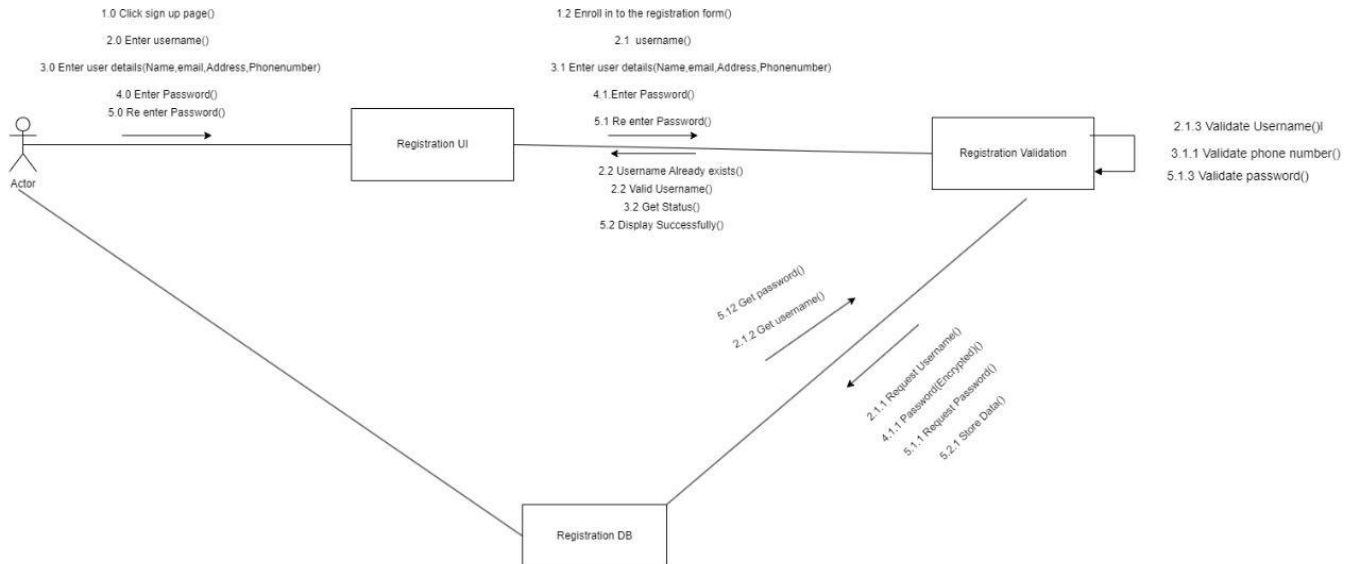
IT21189708

Bandara D.H.M.A.K.P.



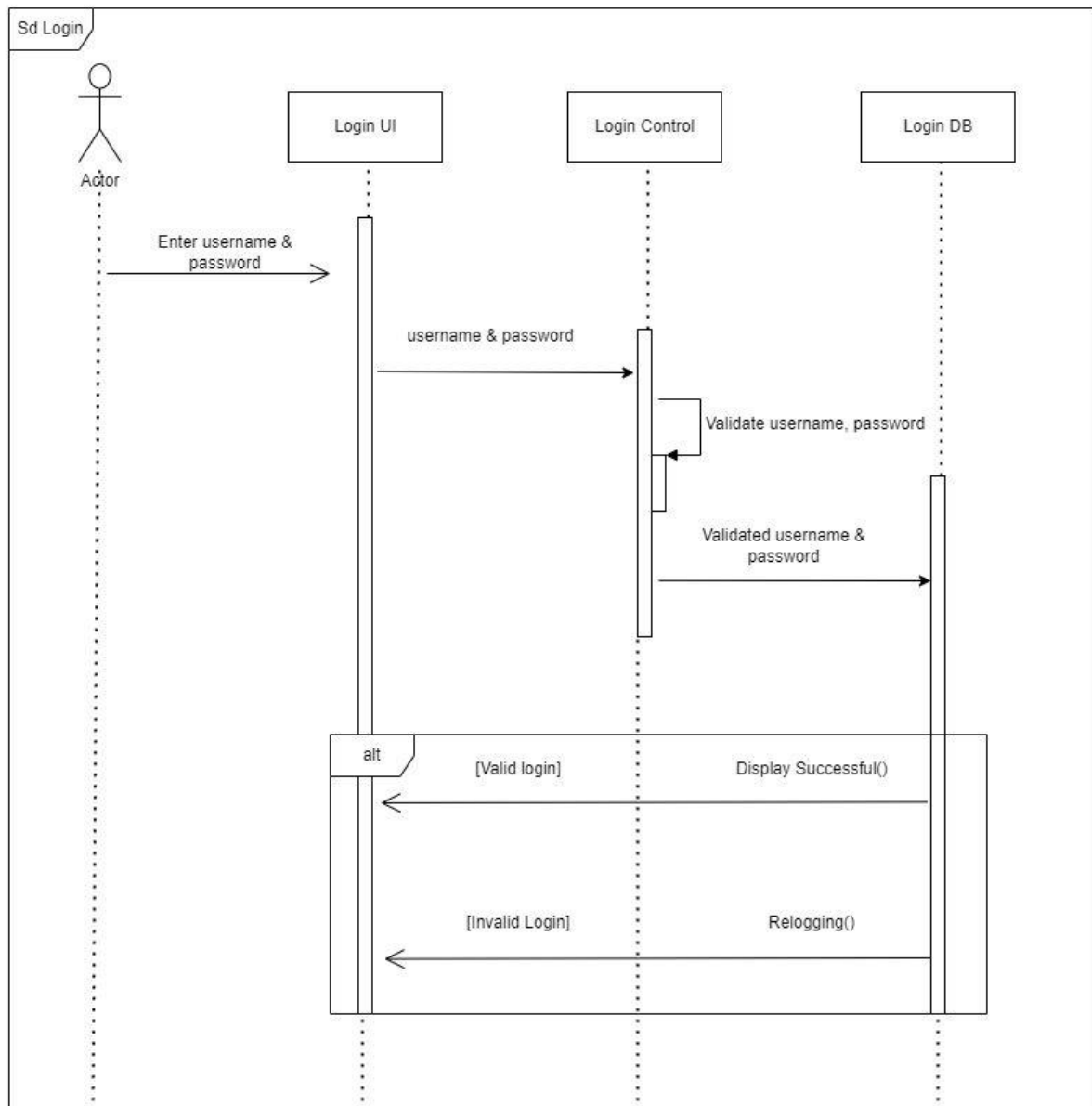
IT21189708

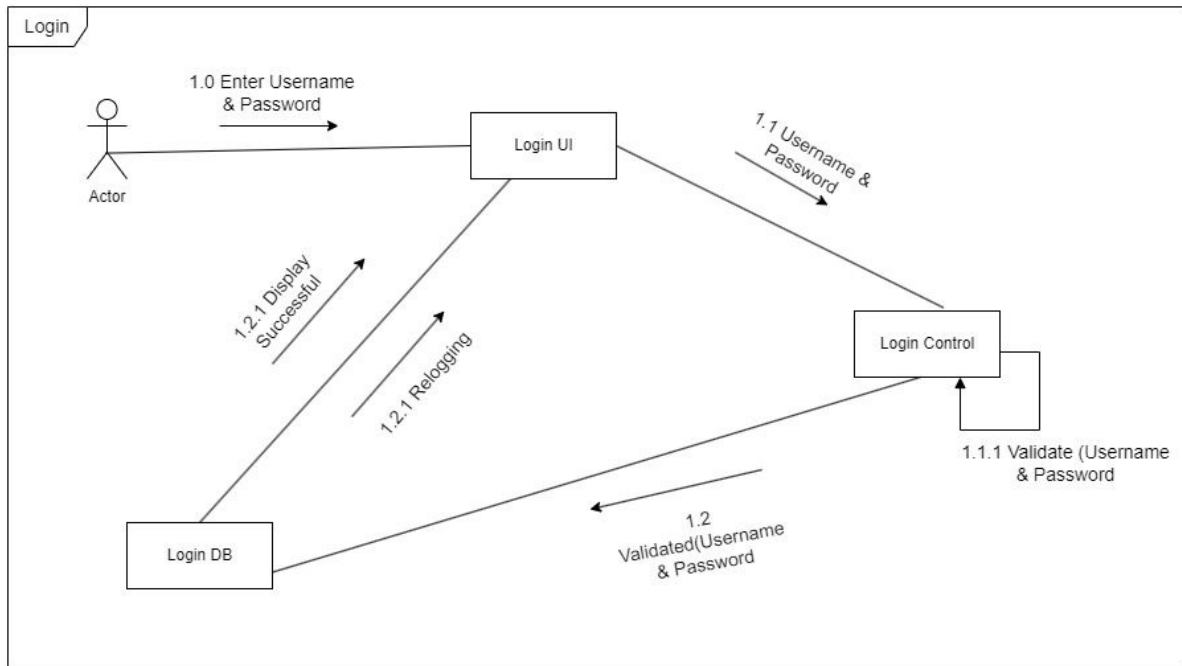
Bandara D.H.M.A.K.P.



IT21189708

Bandara D.H.M.A.K.P.





IT21355196

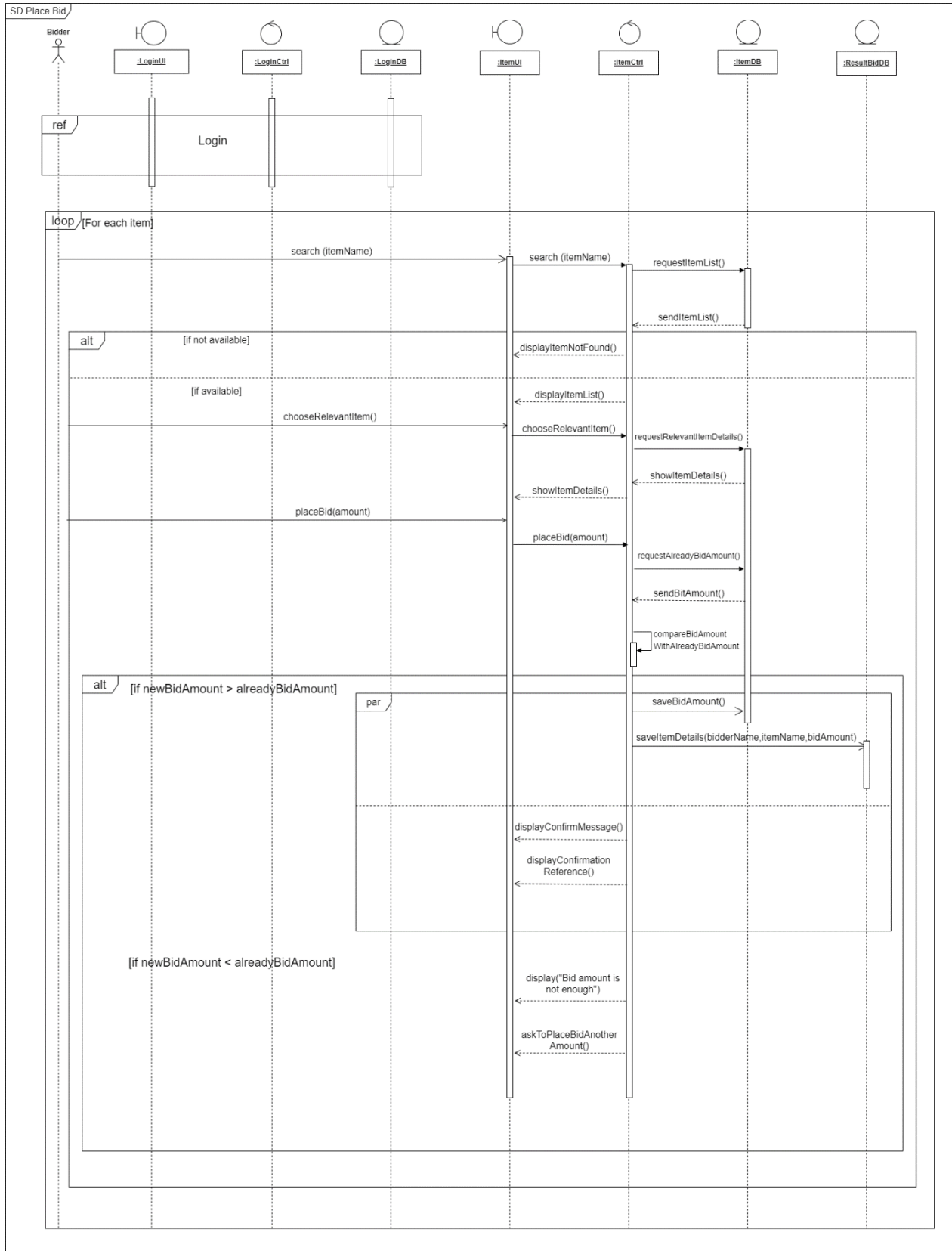
Kalpajith K.L.S.

Number	002	
Name	Bidder Place Bid	
Summary	The bidder places a bid on a specific item.	
Priority	03	
Precondition	Bidder has access to the System.	
Postcondition	The bidder is notified that the bid has been successfully placed.	
Primary Actors	Bidder	
Triggers	The bidder has chosen to place a bid for a specific item.	
Main Scenario	Step	Action
	1	Bidder navigates to the website.
	2	Bidder login into the system.
	3	The system validates user credentials.
	4	The bidder searches for the item.
	5	The system displays the relevant item.
	6	The bidder chooses the item that the bidder wants.
	7	The system displays the item details.
	8	The bidder places the bid.
	9	The system validates the bid amount.
	10	The system notifies the bidder that the bid has been successfully placed.
Extensions	Step	Branching Action
	3. a	The system prompts “Enter valid Credentials” upon submission of invalid login credentials.
	4. a	If the search item is not found, the system displays “Item not Found”
	9. a	If Bidder enters an amount below or equal to the current bided amount, the System displays “Bid amount is not enough”
	9. b	The system asks the user to place another bid amount.

IT21355196

Kalpajith K.L.S.

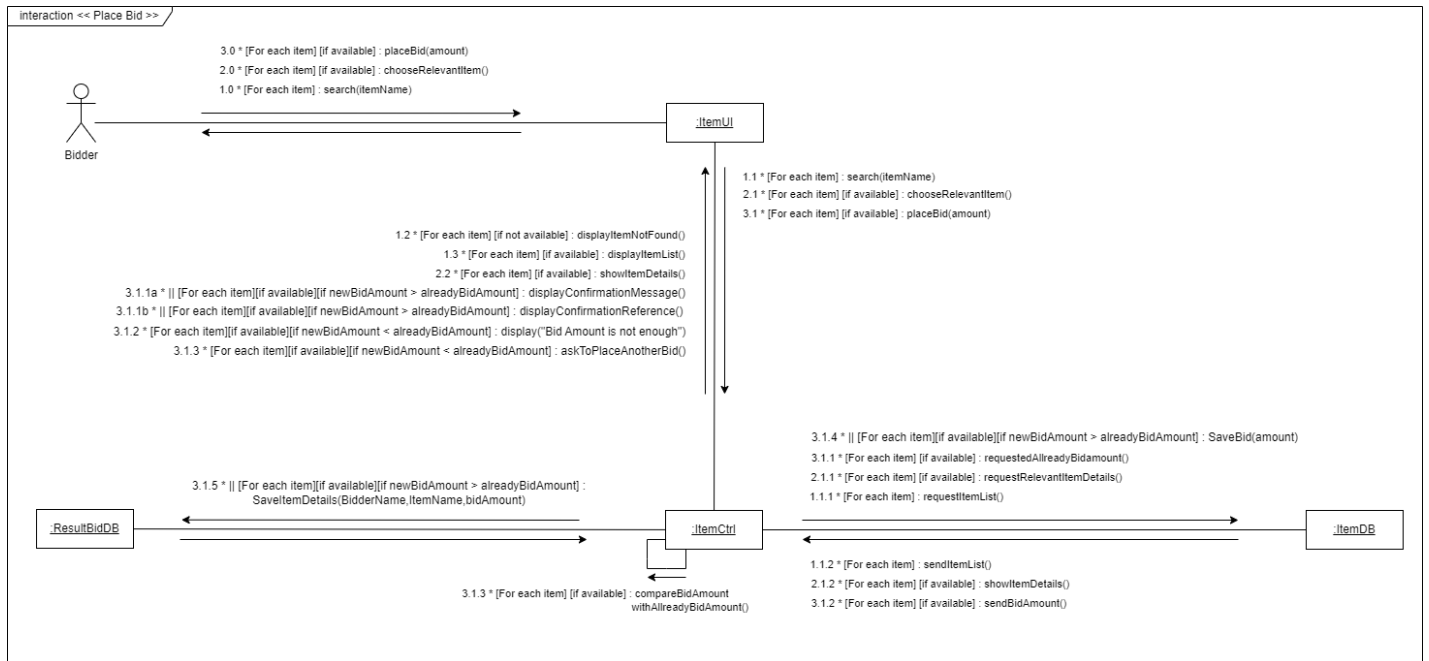
Sequence Diagram – Place Bid



IT21355196

Kalpajith K.L.S.

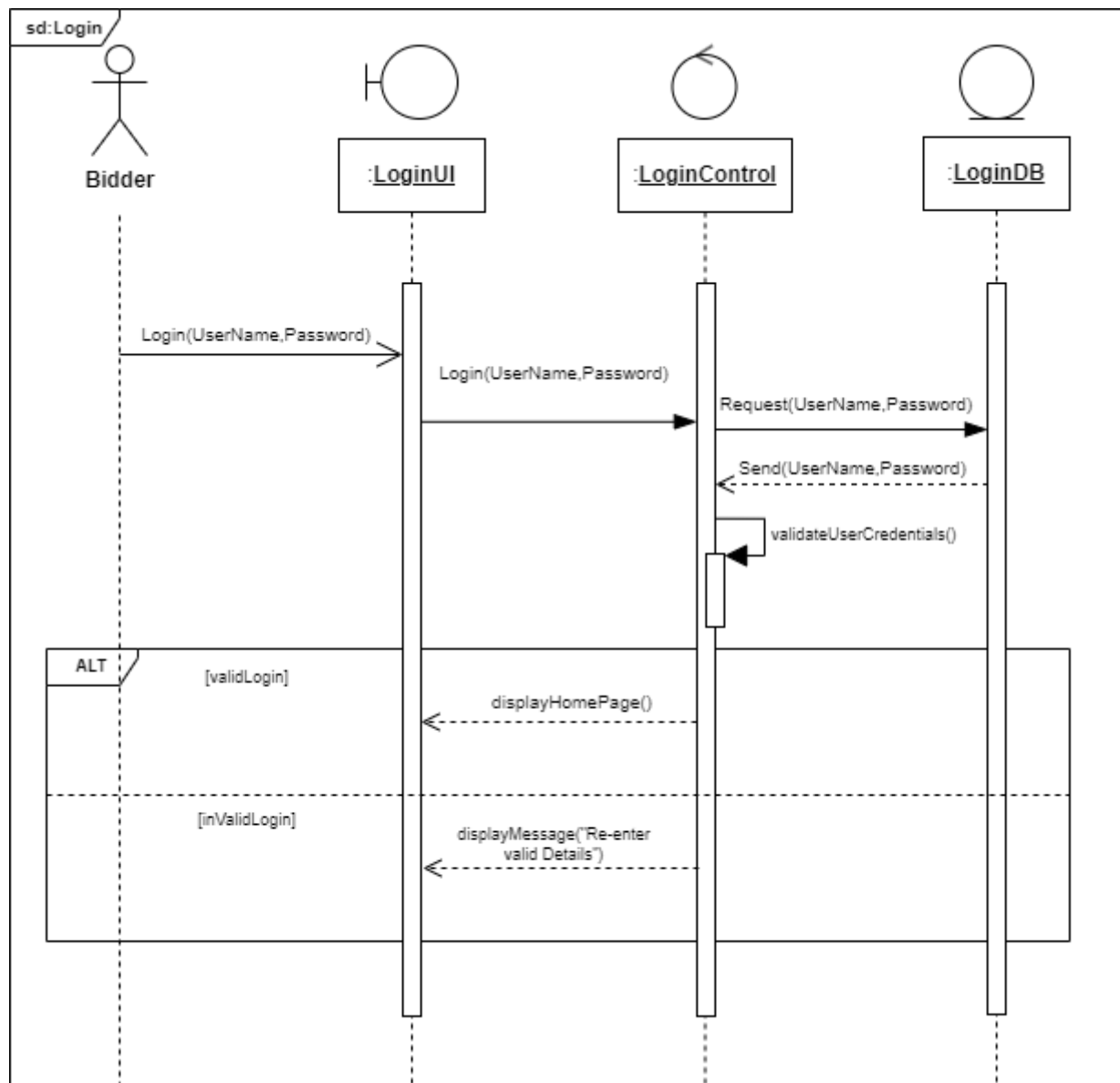
Communication Diagram – Place Bid



IT21355196

Kalpajith K.L.S.

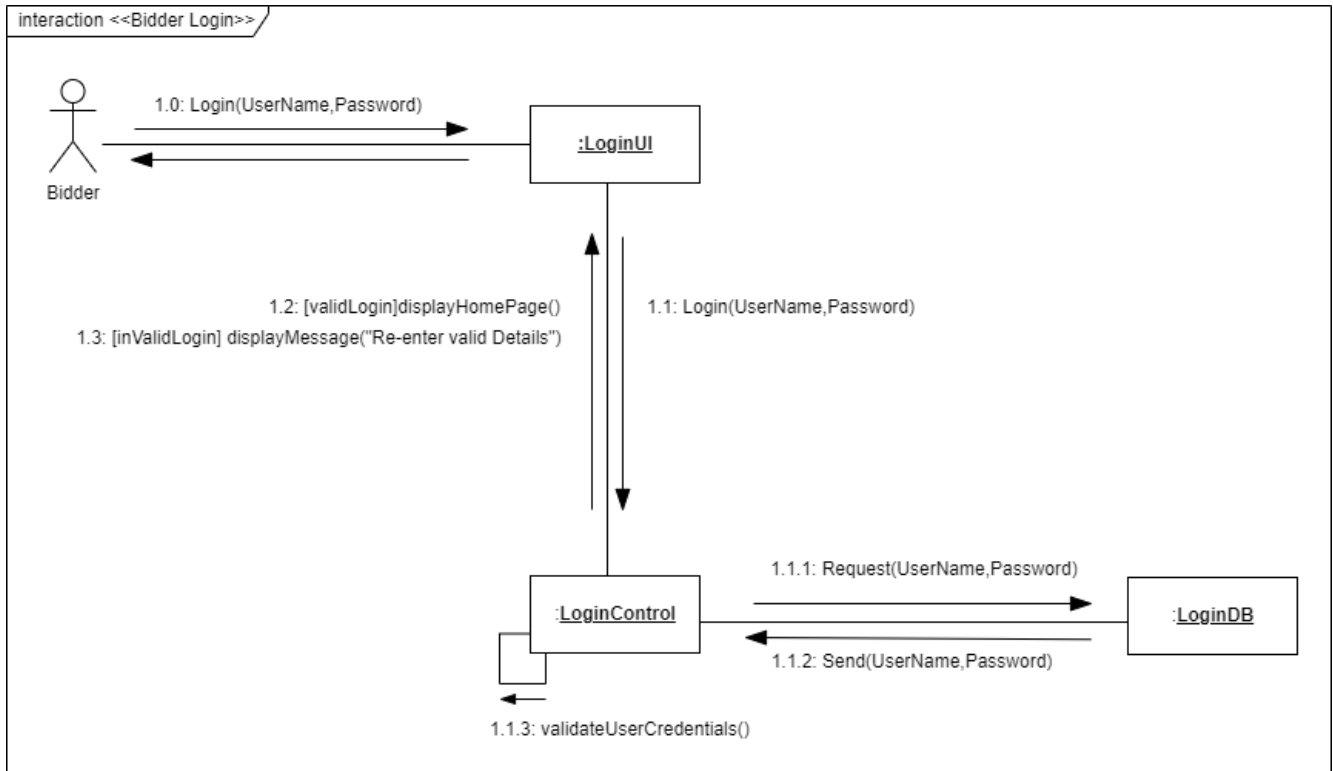
Sequence Diagram – Bidder Login



IT21355196

Kalpajith K.L.S.

Communication Diagram – Bidder Login



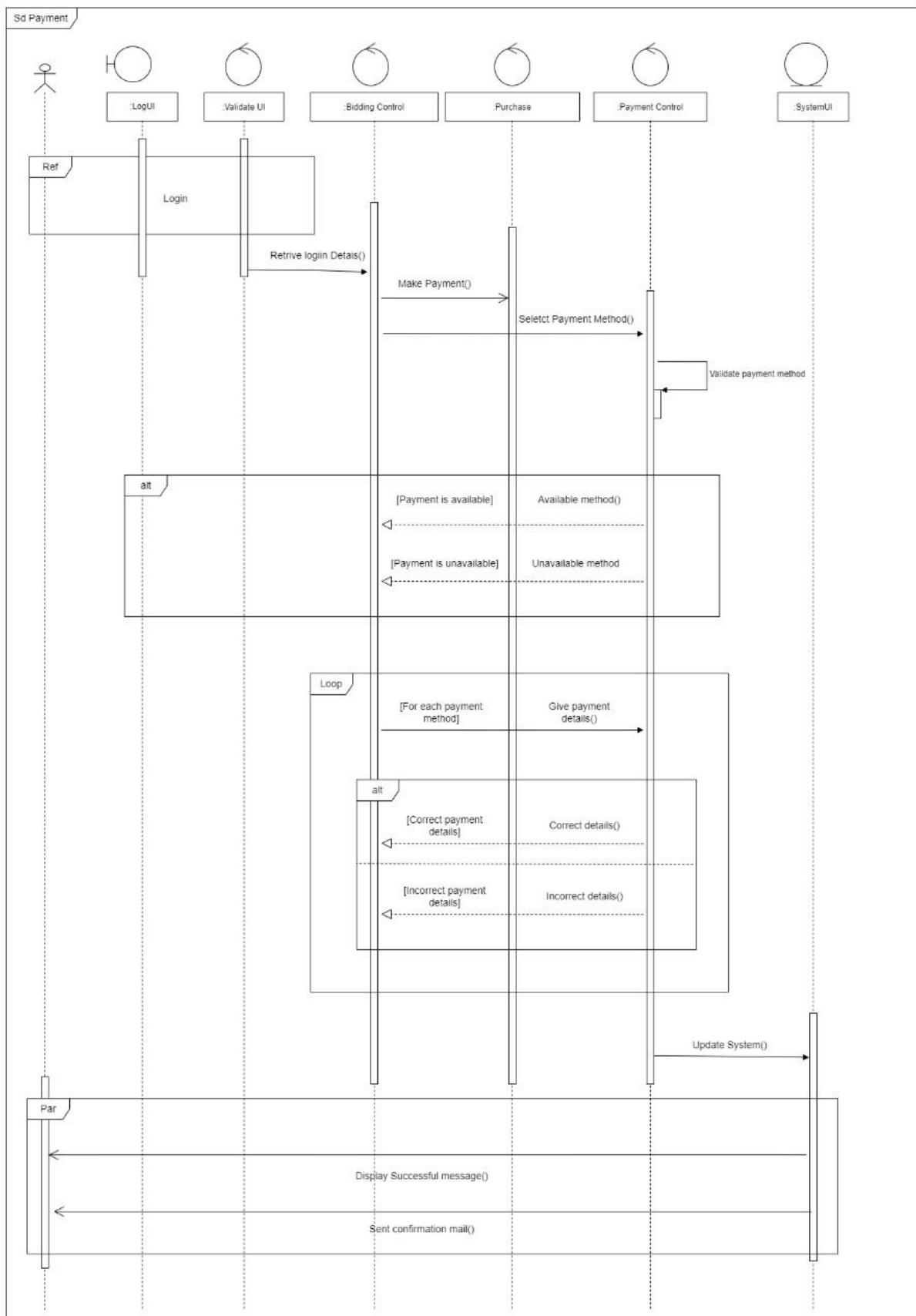
IT21189876

Karunarathna H.B.T.N.

Number	03	
Name	Make Payment	
Preconditions	Customer must Login to the system	
Postconditions	Successfully done the payment for item	
Primary actor(s)	Registered Customer	
Trigger	Customer choose make payment after the bidding process successfully.	
Main scenario	Step	Action
	1	Enter login details
	2	System check and validate login details
	3	Customer choose make payment
	4	Customers select payment method
	5	Customers enter payment details
	6	Display payment successfully
Extension	Step	Branching Action
	2a	If customer login invalid, a) display an error message. b) Allow customer login again
	4a	If it is not valid payment method a) Customer get an error msg b) Allow customer to select again
	5a	If it is not valid payment details a) Customer get an error msg b) Allow customer to re enter again

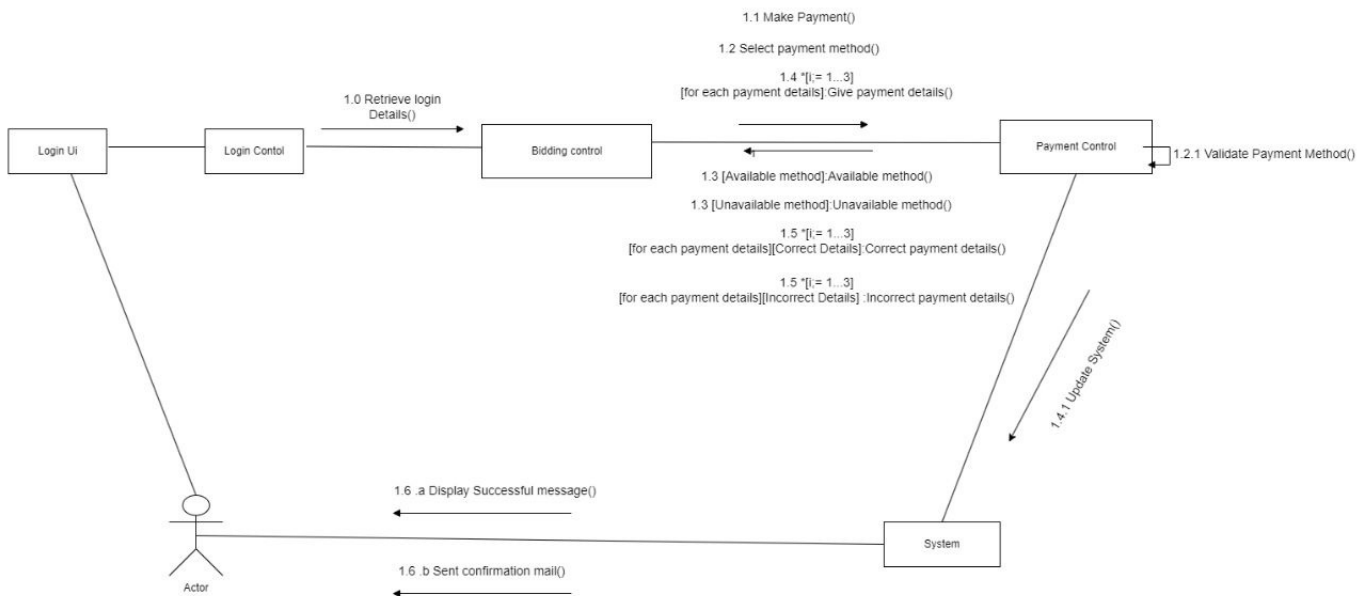
IT21189876

Karunarathna H.B.T.N.



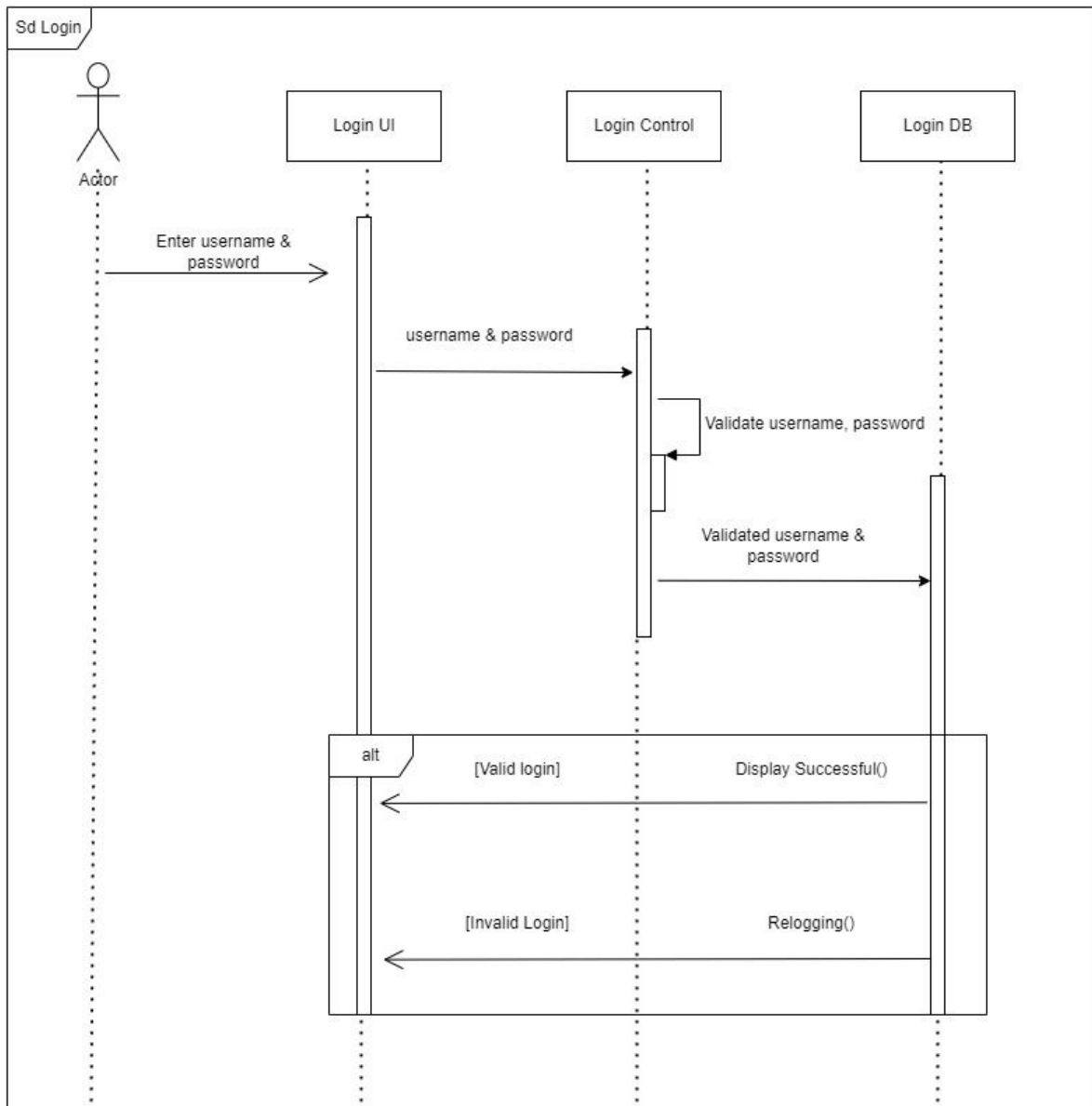
IT21189876

Karunarathna H.B.T.N.



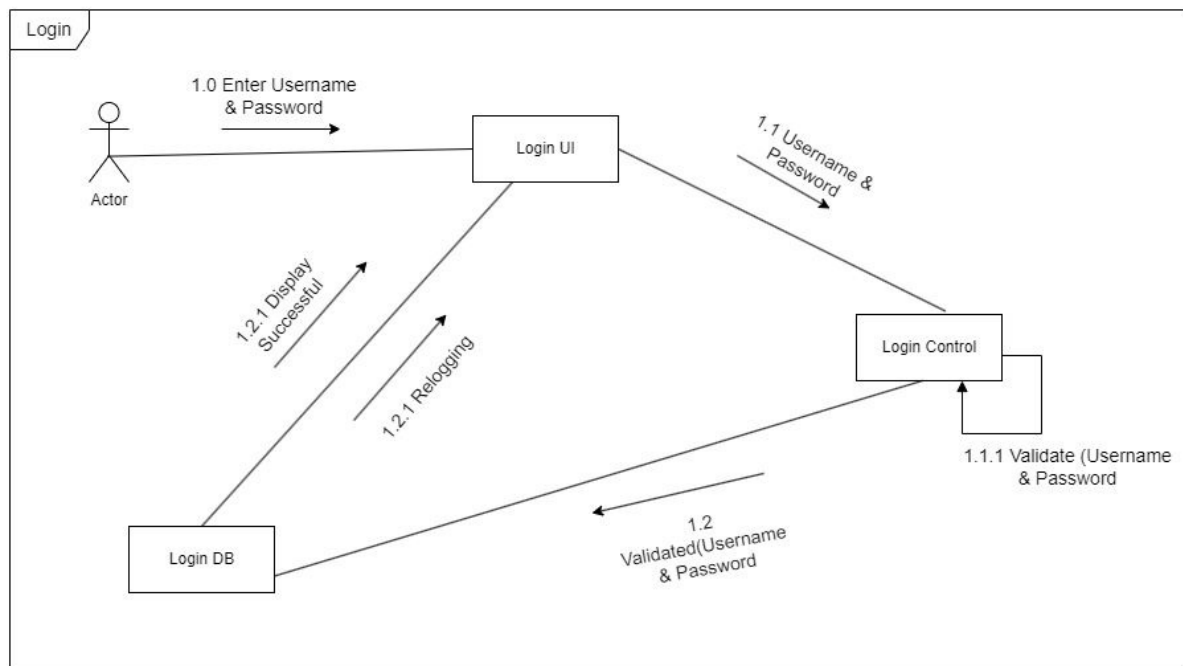
IT21189876

Karunarathna H.B.T.N.



IT21189876

Karunarathna H.B.T.N.



IT21354656

Bandara S.M.L.E

User case ID	004	
User case name	Adding a product	
Summary	Admin add a specific item to the system	
Priority	02	
Preconditions	User has logged in as an Admin	
Postconditions	Item get displayed in the product page	
Primary Actor	Admin	
Trigger	Admin has chosen to add an item	
Main scenario	Step	Actions
	1	Admin clicks the add item button.
	2	System loads the add item page.
	3	Admin enters product details.
	4	Admin submit the product
	5	System validates the product information.
	6	Item is added to the system.
Extensions	Step	Branching Action
	3. a	Admin selects cancel button and system redirect to product page.
	5. a	Upon incorrect details entered, system redirect to add item page.
	5. b	Upon incorrect details system display error message

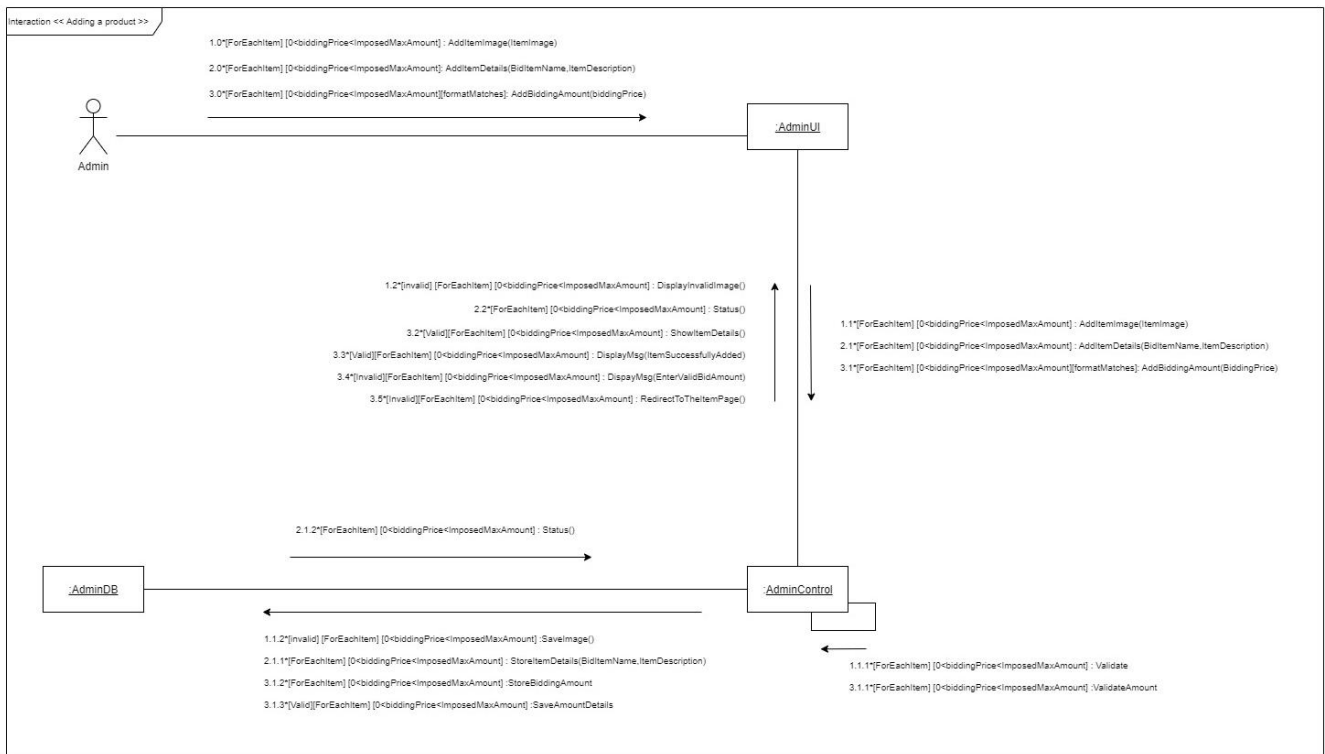
Sequence Diagram – Add a product



IT21354656

Bandara S.M.L.E

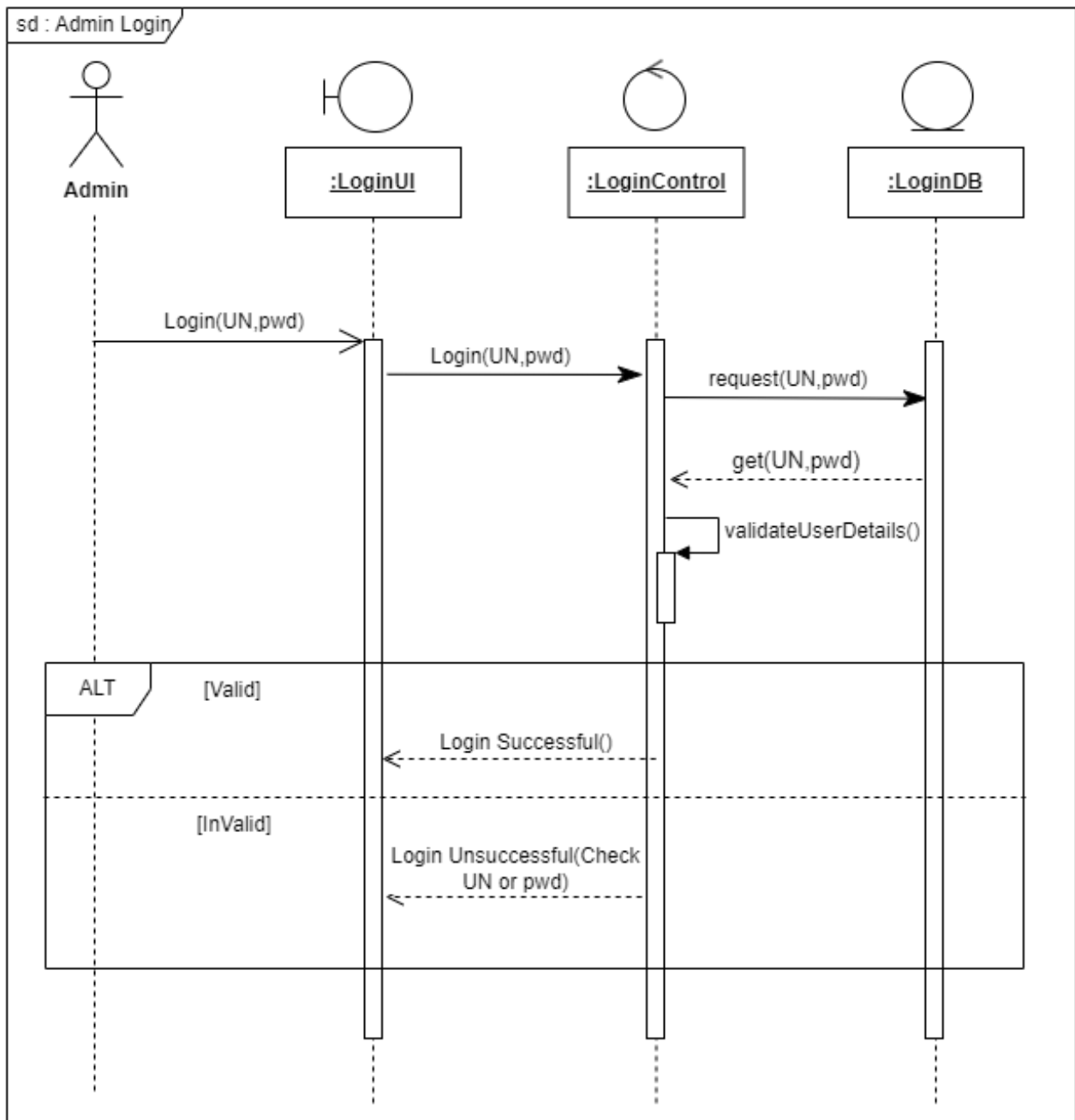
Communication Diagram – Add a product



IT21354656

Bandara S.M.L.E

Sequence Diagram – Admin Login



IT21354656

Bandara S.M.L.E

Communication Diagram – Admin Login

