

IT2020 – Software Engineering

Year 2, Semester I, 2024

Group Assignment

<<Online Biding System >>

Group Details

Campus: Malabe

SE/OOP Group Number: SE/OOP/2024/S1/MLB/WE/G14

	Student Registration Number	Student Name
1	IT22190598	Gamalath K.H
2	IT22117250	SILVA A.S.N
3	IT22278708	Alwis L.W.R.T
4	IT22285010	Bamunuge M.M

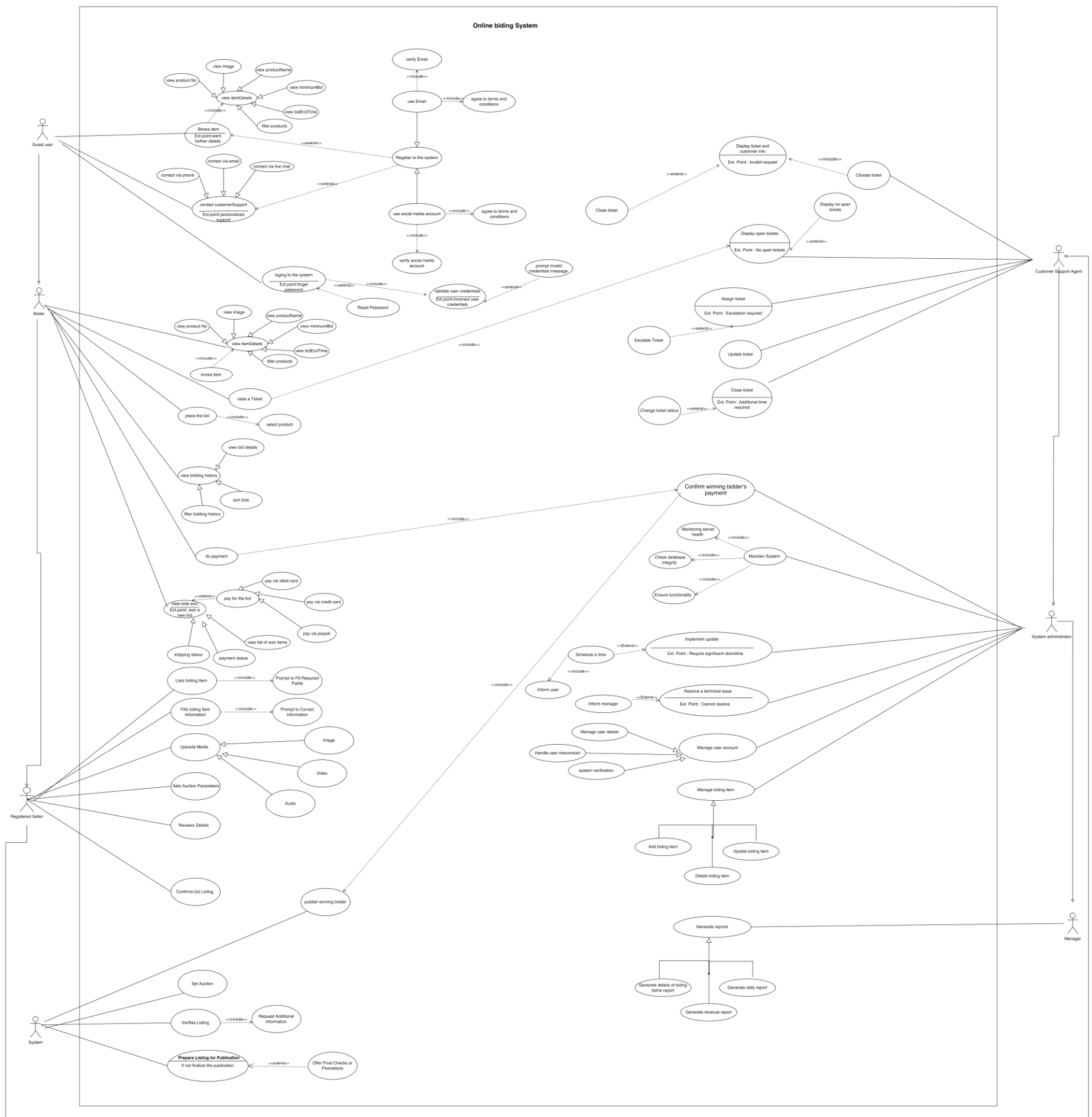
Title of the Project: Online Bidding System

Introduction

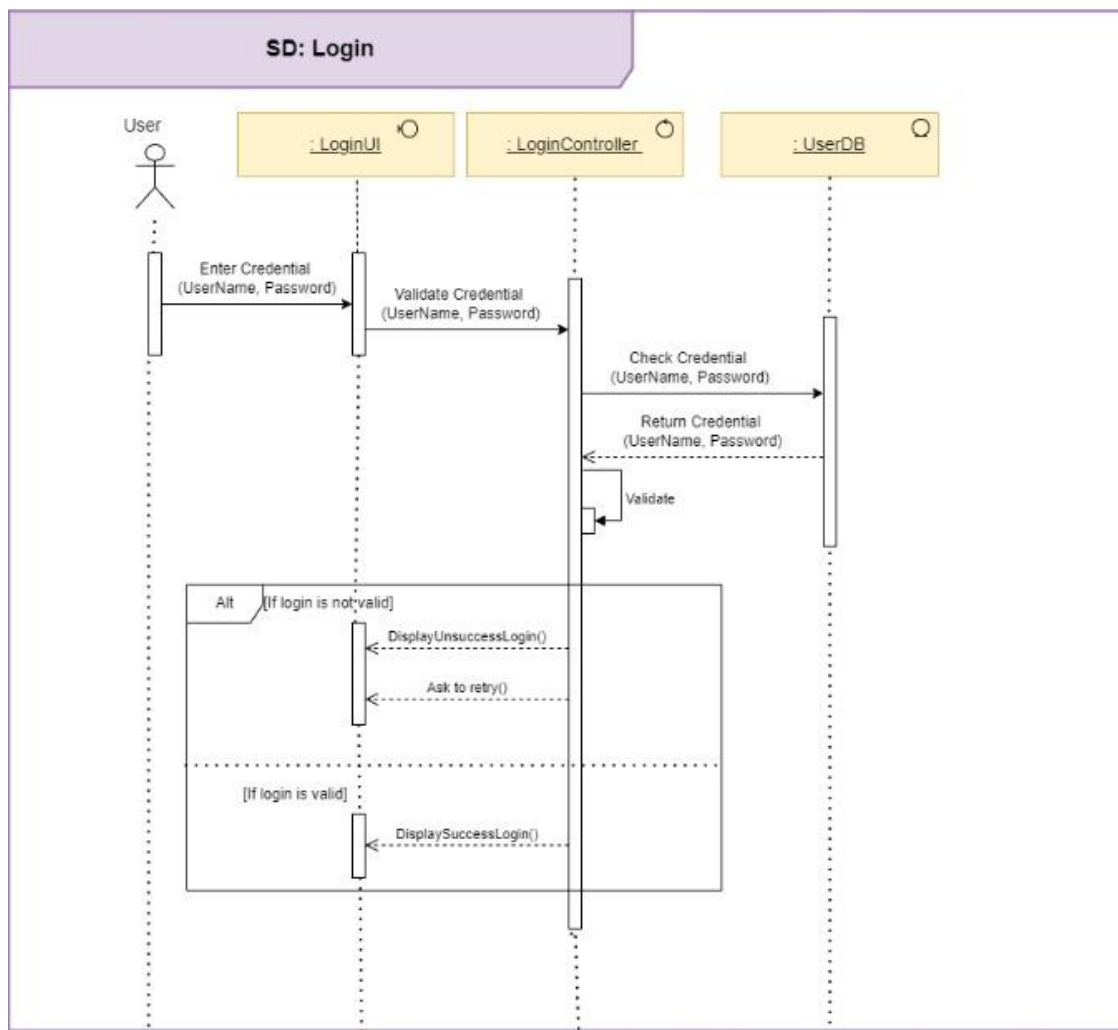
The Online Bidding System project is to provide a strong and intuitive online auction platform that will make it easier for people to purchase and sell a variety of goods through an online marketplace. Online bidding platforms have grown in popularity in the current digital era because they are easy to use, readily available, and can link buyers and sellers from different parts of the world.

The goal of this project is to provide a complete online bidding system that meets the needs of registered purchasers as well as guest users, ensuring a safe and easy bidding process. The Online Bidding System aims to completely transform the way online auctions are held by utilizing cutting-edge web technology and best practices in software development.

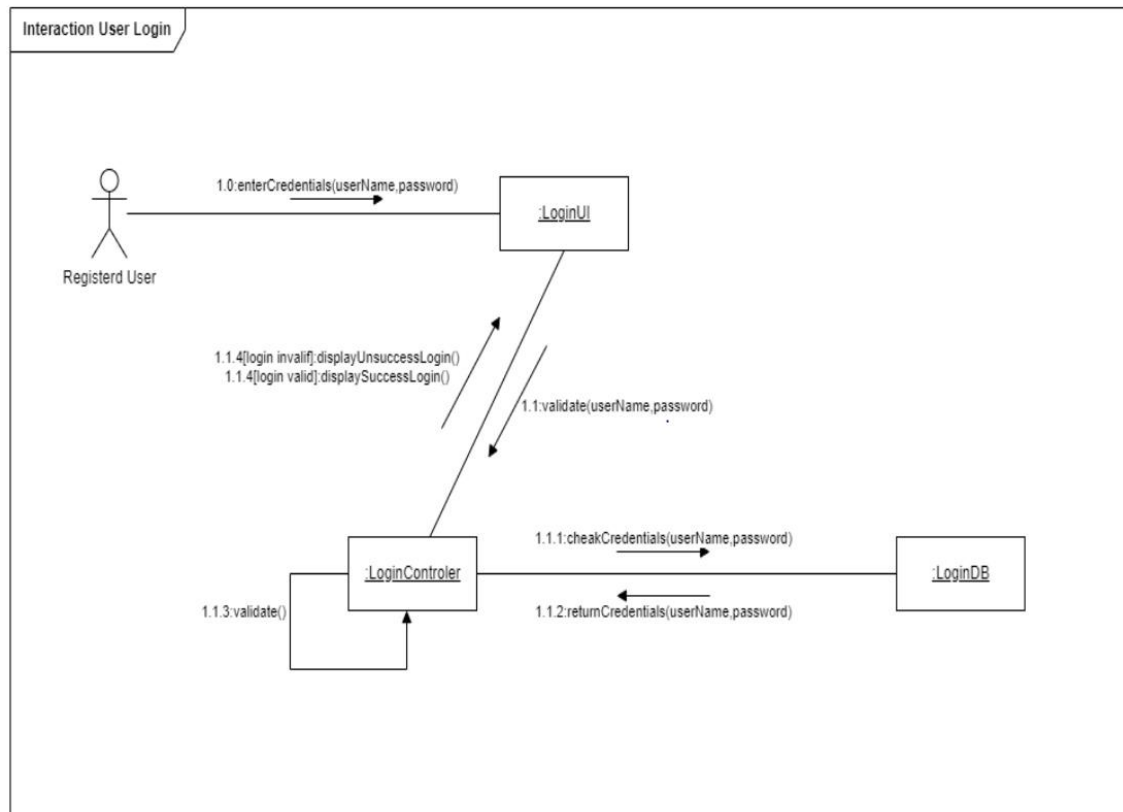
All parties involved in the Online Bidding System project, including individual sellers, companies, and auction fans, stand to gain from the project's successful completion. In addition to giving customers the chance to find unusual products and take part in thrilling bidding battles from the comfort of their homes, it will give sellers a platform to reach a larger audience and optimize the value of their items.



Sequence diagram for Login (for all users)



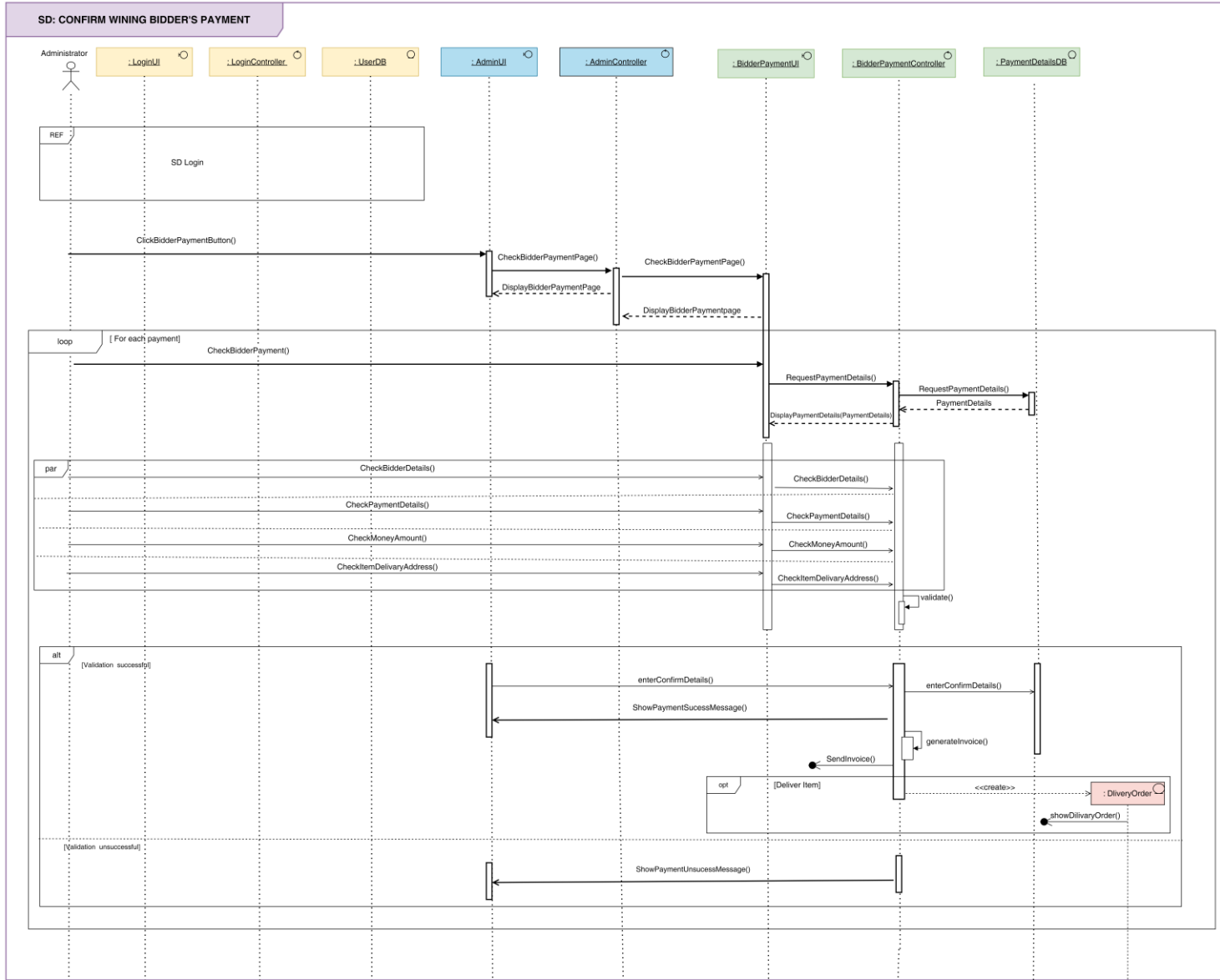
Communication diagram for login (For all users)

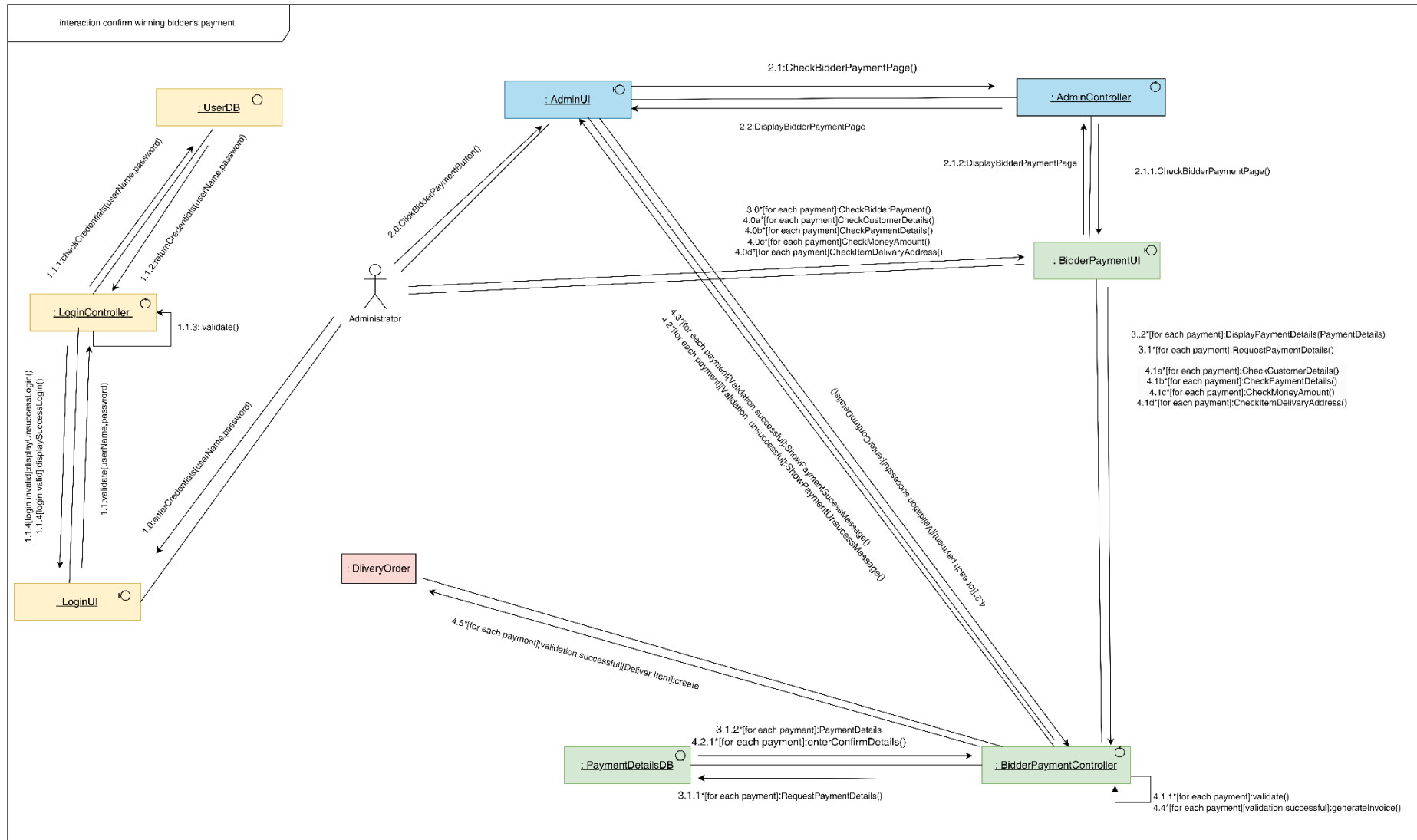


1. IT22190598 Gamalath K.H

Number	1	
Name	Confirm winning bidder's payment	
Summary	Administrator checks the winning bidder's Payment and validates the payment	
Priority	High	
Precondition	<ul style="list-style-type: none"> Administrator account exists in the system. Administrator has a valid username and password. The auction for the item has concluded, with a winning bidder identified. The winning bidder's payment information is submitted in the system. 	
Postcondition	<ul style="list-style-type: none"> Administrator successfully verifies and confirms the winning bidder's payment. An invoice is generated for the winning bidder and added to the system. A confirmation message is sent to the winning bidder, notifying them of successful payment processing and next steps (e.g., item delivery or collection). Administrator this process until the last payment. 	
Primary Actors	Administrator	
Triggers	Chosen the Bidder's payment details page	
Main Scenario	Step	Action
	1	Admin logs into the system with username and password.
	2	Admin navigates to the 'Bidder's Payment' section.
	3	Select a payment.
	4	Admin check the payment details (payment details, customer details, payment amount, Item delivery address)
	5	Validate the details.
	6	Add confirmed payment details to the database.
	7	System generates the invoice.
	8	System sends the invoice to the winning bidder.
Extension	1. a	Admin ID or password mismatch exits from the login page.
	5. a	If the bidder submits the invalid payment details, Send a message to the admin.
	5. b	If the bidder submits valid payment details, Send the message "Payment successful."

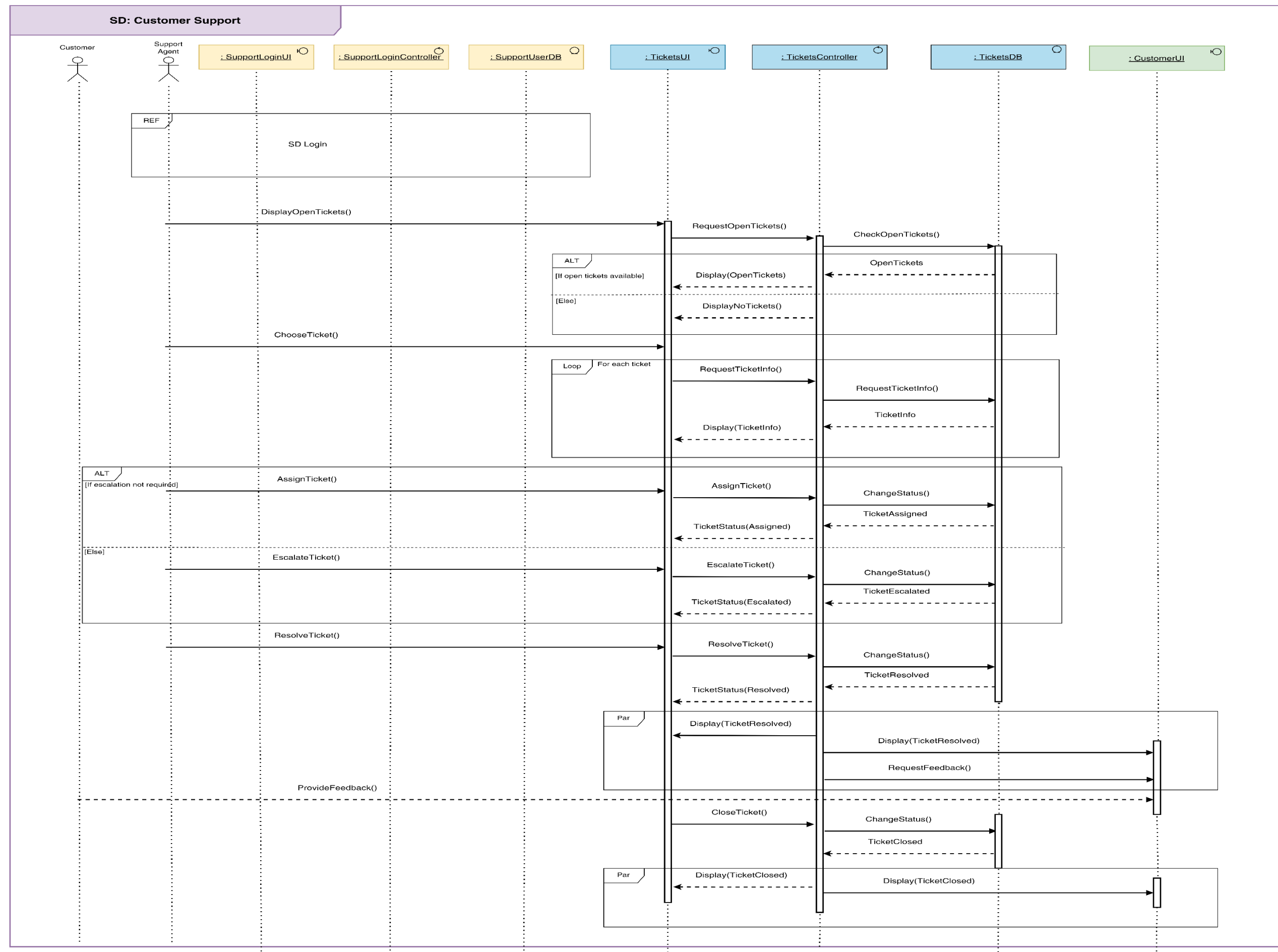
	8. a	If the winning bidder also wants to deliver the item make a delivery order
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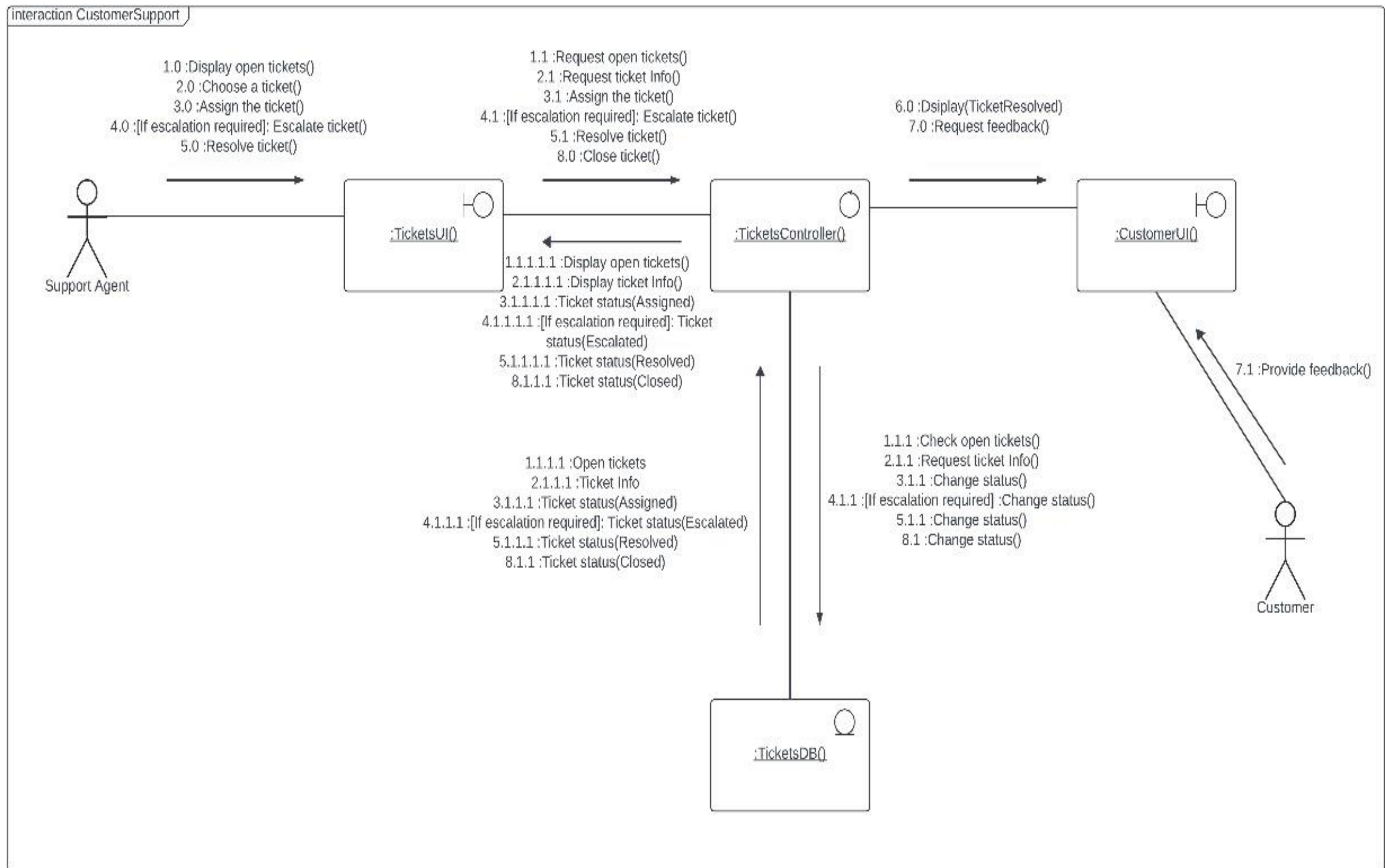




2. IT22117250 SILVA A.S.N

Number	2	
Name	Support Customer	
Summary	Customer support agent support the customer	
Priority	Medium	
Pre-conditions	Customer support agent has logged in to the system Customer has reached customer support	
Post-conditions	Customer has got a resolution The support case was escalated to the relevant party	
Primary Actors	Customer Support Agent	
Secondary Actors	Customer	
Trigger	Customer has chosen customer support	
Main Scenario	Step	Action
	1	System displays open tickets
	2	Customer support agent choose a ticket
	3	System displays ticket information
	4	System displays customer's details
	5	Customer support agent get the ticket assigned to him/herself
	6	Customer support agent resolves the issue
	7	Customer support agent updates the ticket
	8	Customer support agent closes the ticket
	9	System notifies the customer
	10	System requests customer's feedback
Extensions	Step	Branching Action
	1a	No open tickets, system displays message
	3a	Invalid request, agent close ticket
	5b	Escalation required, agent escalates ticket
	8a	Additional time required, ticket status changed to WIP
	10a	Customer is not happy with the resolution, ticket reopens

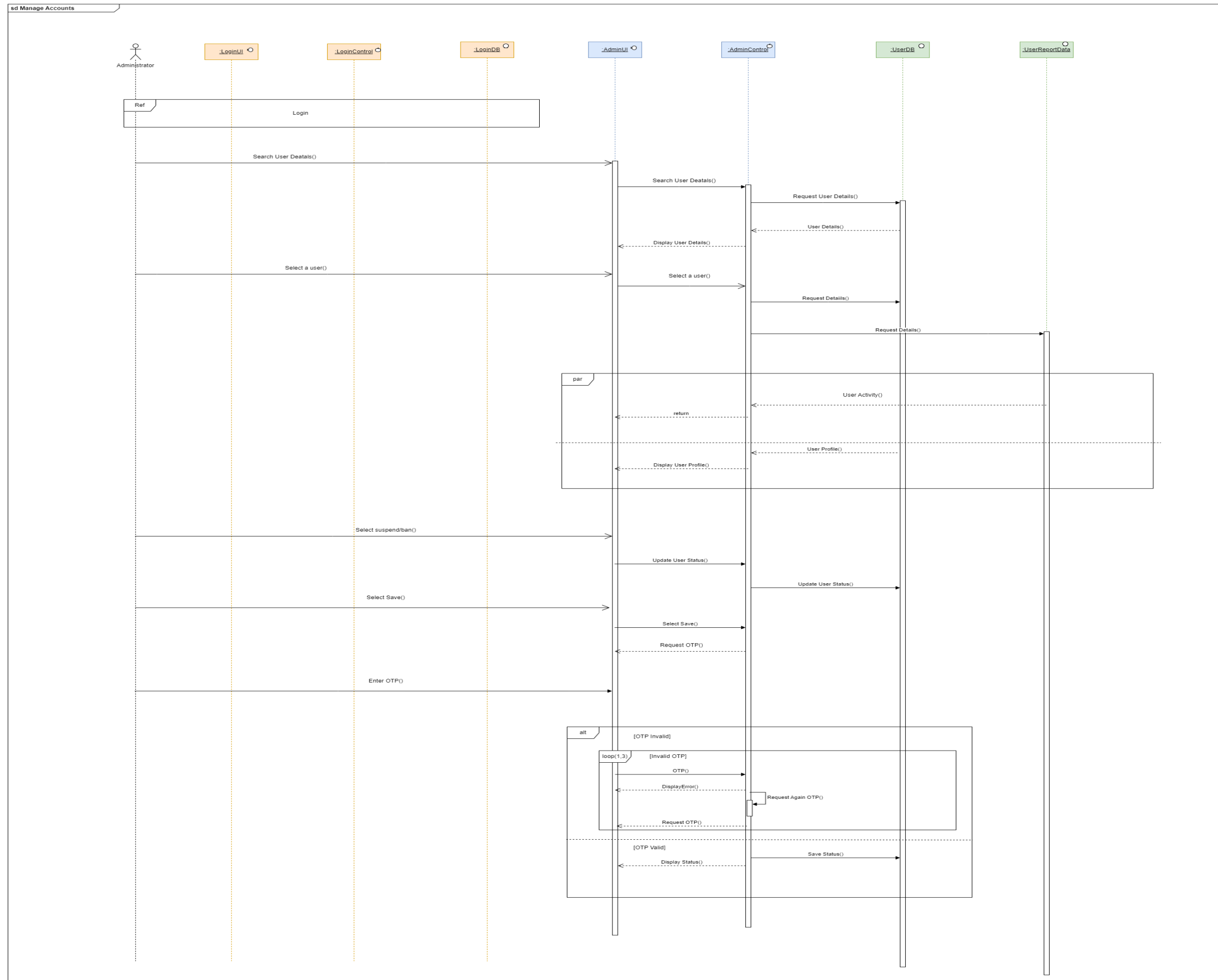




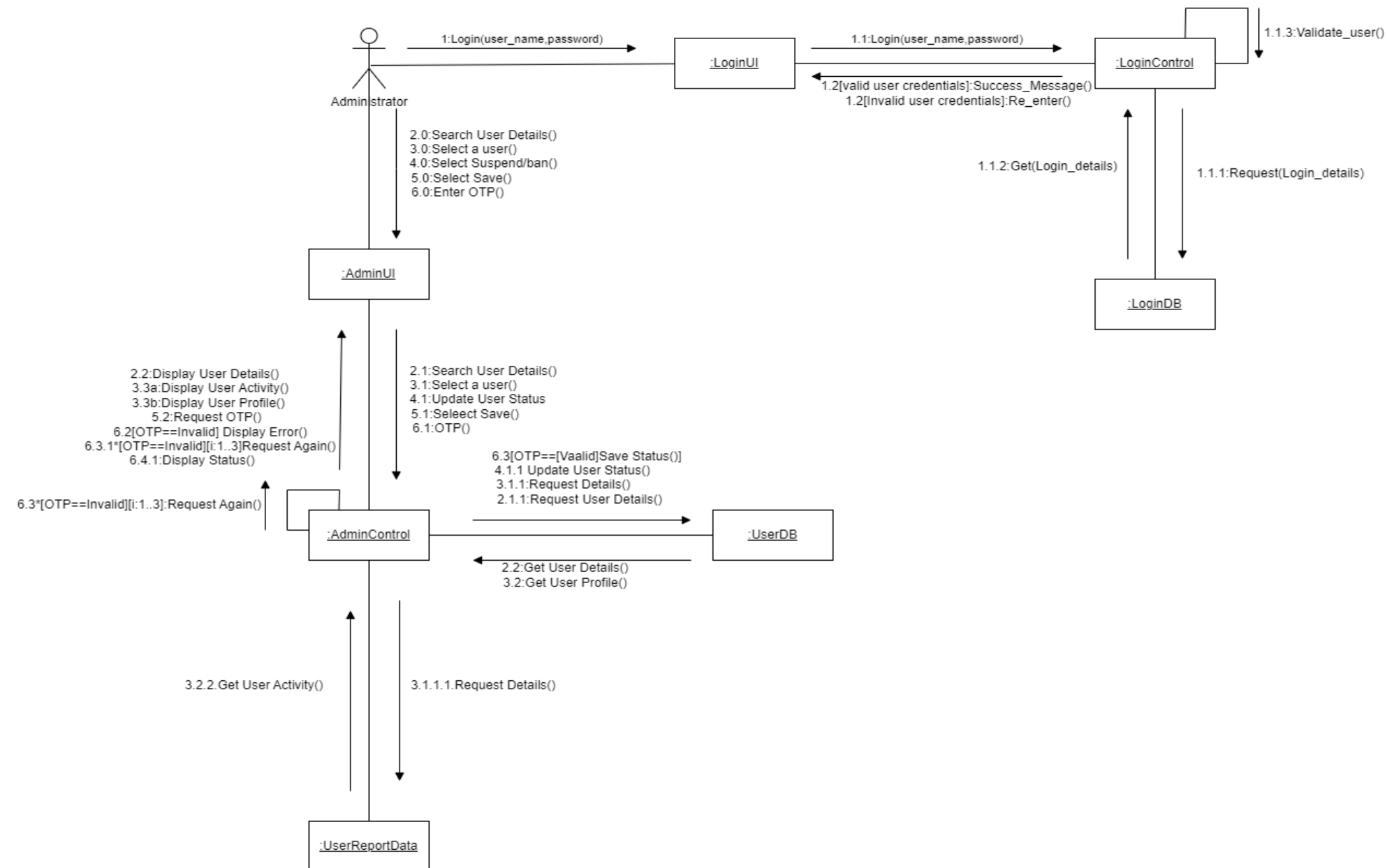
3. IT22278708 Alwis L.W.R.T

Number	3	
Name	Manage user accounts	
Summary	Administrator logs in to the system to manage and maintain user accounts	
Priority	Medium	
Pre-conditions	The administrator is logged into the system with appropriate privileges.	
Post-conditions	Providing a secure and inviting environment to all users.	
Primary Actors	Administrator	
Trigger	An administrator identifies a user account needing attention and takes action.	
Main Scenario	Step	Action
	1	The administrator logs in to the system.
	2	The administrator navigates to the administrator dashboard.
	3	The administrator presents a list of user accounts.
	4	The administrator opens a user account to see more details.
	5	The administrator identifies an account needing attention due to inappropriate behavior take actions.
	6	The system sends an email to the user regarding the action taken.
	7	The administrator saves all changes
	8	System sends OTP for verification before saving changes on system.
	9	The administrator enters the OTP.
	10	The administrator logs out of the system.
Extensions	Step	Branching Action
	1a	If the administrator enters an incorrect username or password, display an error message.
	1b	The system asks for credentials again.
	5a	The administrator sends a warning message to the user
	5b	The administrator suspended the account temporarily

	5c	The administrator permanently bans the user
	9a	The administrator enters an incorrect OTP
	9b	The system prompts for re-entry of the OTP



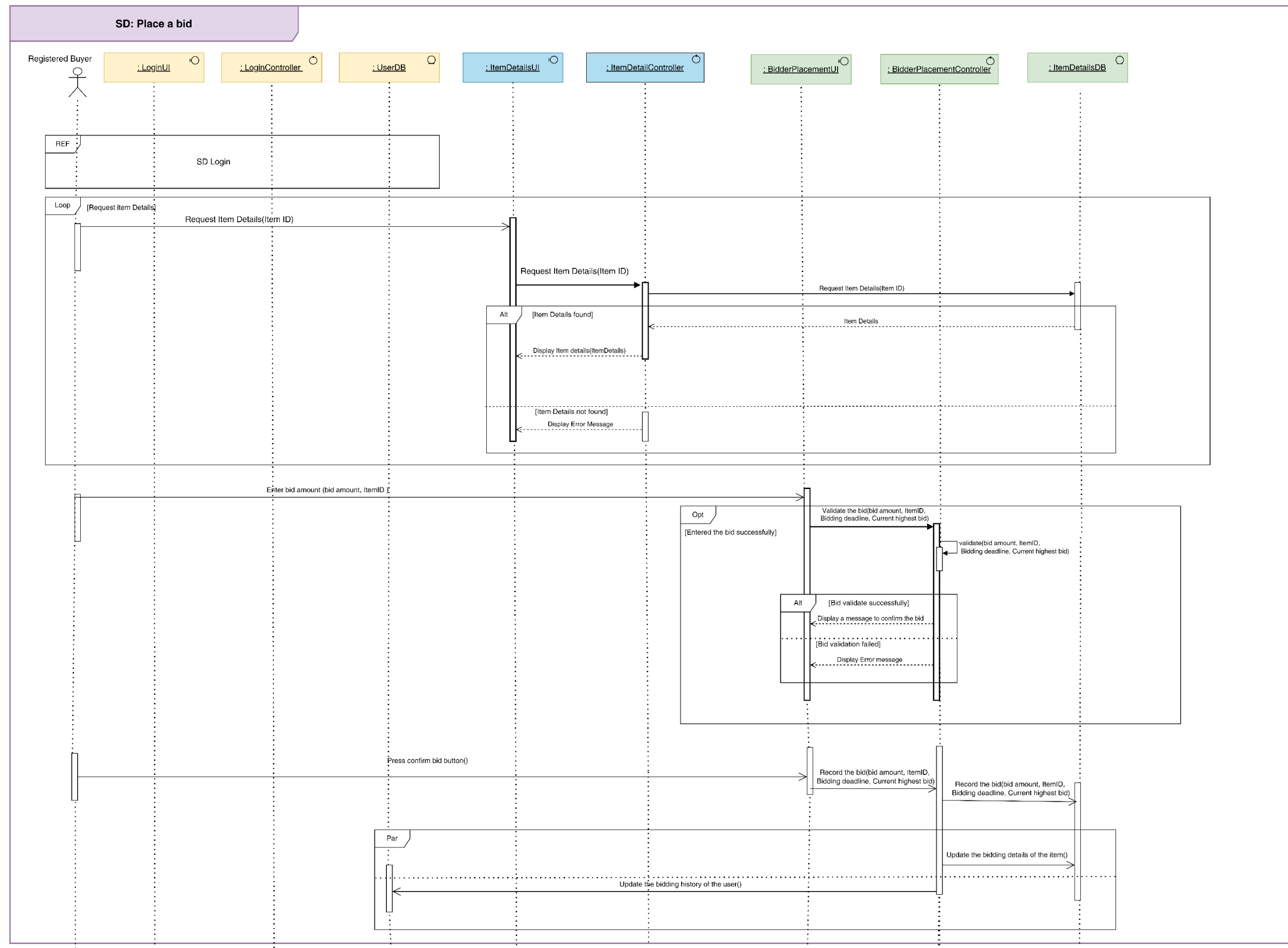
Interaction Manage Accounts

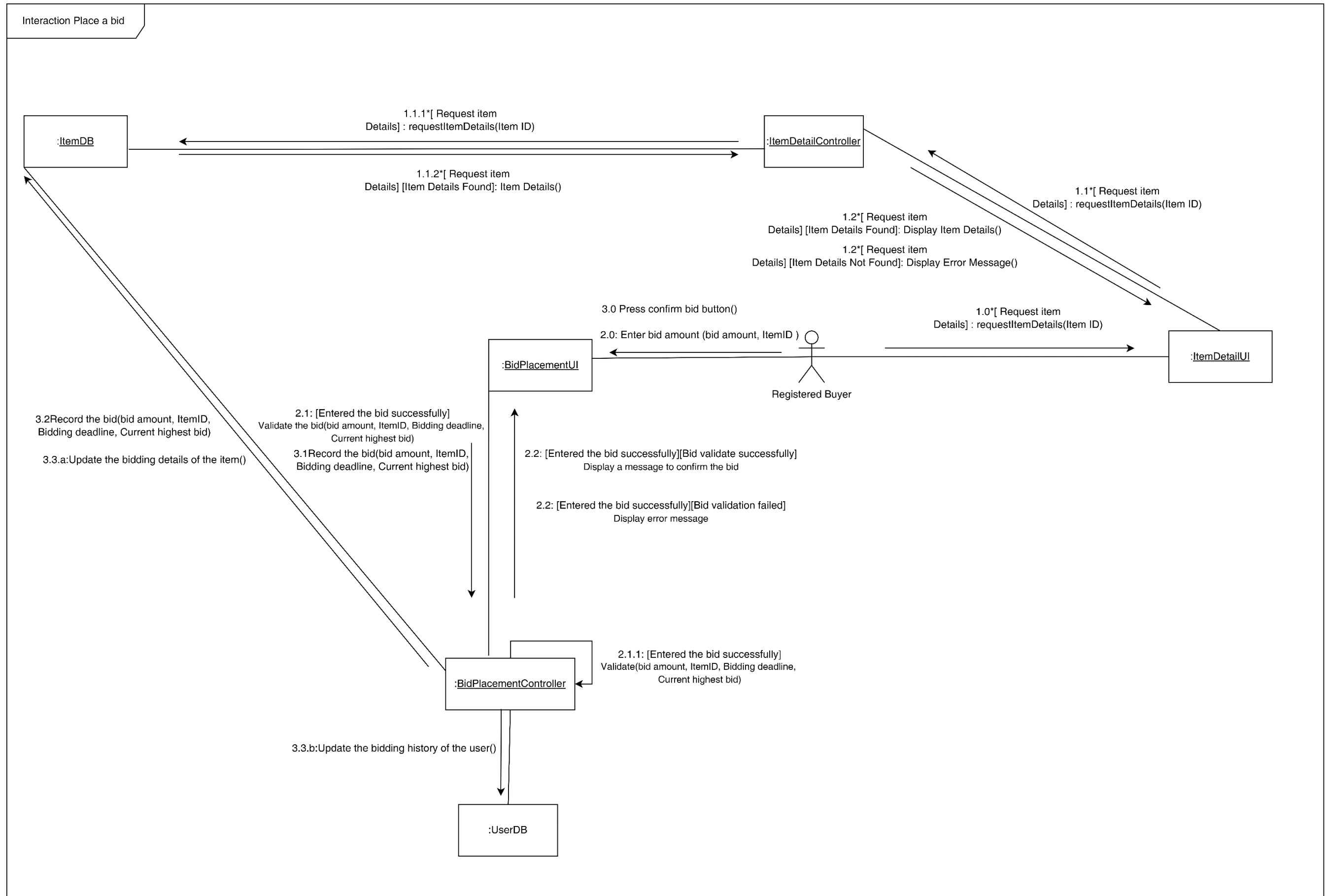


4. IT22285010 Bamunuge M.M

Number	4	
Name	Place bid	
Summary	Registered buyer places a bid on an item in the online bidding system.	
Priority	High	
Pre-conditions	<p>The registered buyer must be logged into their registered account.</p> <p>The registered buyer must have navigated to the page of the item they want to bid on.</p>	
Post-conditions	<p>The bid is recorded in the system's bid history for the item.</p> <p>The registered buyer receives confirmation of their bid placement.</p> <p>The current highest bid for the item is updated if the registered buyer's bid surpasses the previous highest bid.</p>	
Primary Actors	Registered Buyer	
Trigger	The registered buyer navigates to the page of the item they wish to bid on and initiates the bid placement process.	
Main Scenario	Step	Action
	1	The registered buyer navigates to the item they are interested in bidding on.
	2	The system displays the details of the item including the current highest bid and bidding deadline.
	3	The registered buyer enters their bid amount into the bid field.
	4	The system validates the bid amount
	5	If the bid amount is valid, the registered buyer confirms their bid
	6	The system updates the bid history for the item with the registered buyer's bid.
	7	The system displays a confirmation message indicating that the bid has been successfully placed
Extensions	Step	Branching Action
	3a	If fails to place the bid, reload the page.

	4a	If the bid amount is invalid (lower than the current highest bid, not in the allowed bidding increments, or bidding deadline has passed), the system displays an error message and prompts the user to enter a valid bid amount.
	5a	If the registered buyer decides not to confirm the bid after entering the bid amount, they can choose to cancel the bid
	7a	If a system error occurs during the bid placement process (e.g., database connection failure, server timeout), the system displays an error message indicating the issue.





Reg. No	Name	Function Name
IT22190598	Gamalath K.H	Confirm the winning bidder's payment
IT22117250	SILVA A.S.N	Support Customer
IT22278708	Alwis L.W.R.T	Manage user accounts
IT22285010	Bamunuge M.M	Place bid