

IT2020 – Software Engineering

Year 2, Semester I, 2021

<< Online Vehicle service and fuel station management System >>

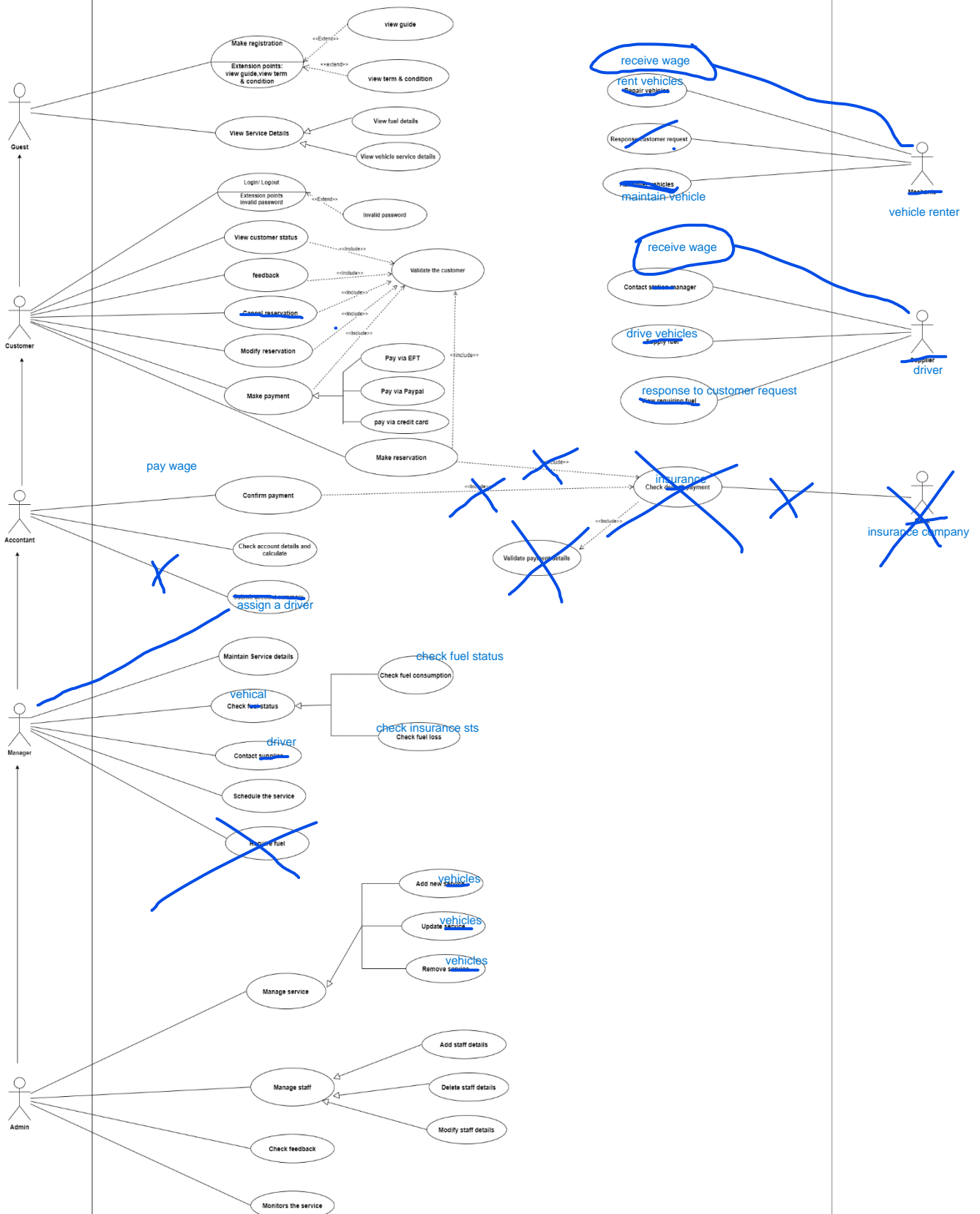
Group Details

SE/OOP Group Number: MLB_SE/OOP_G195

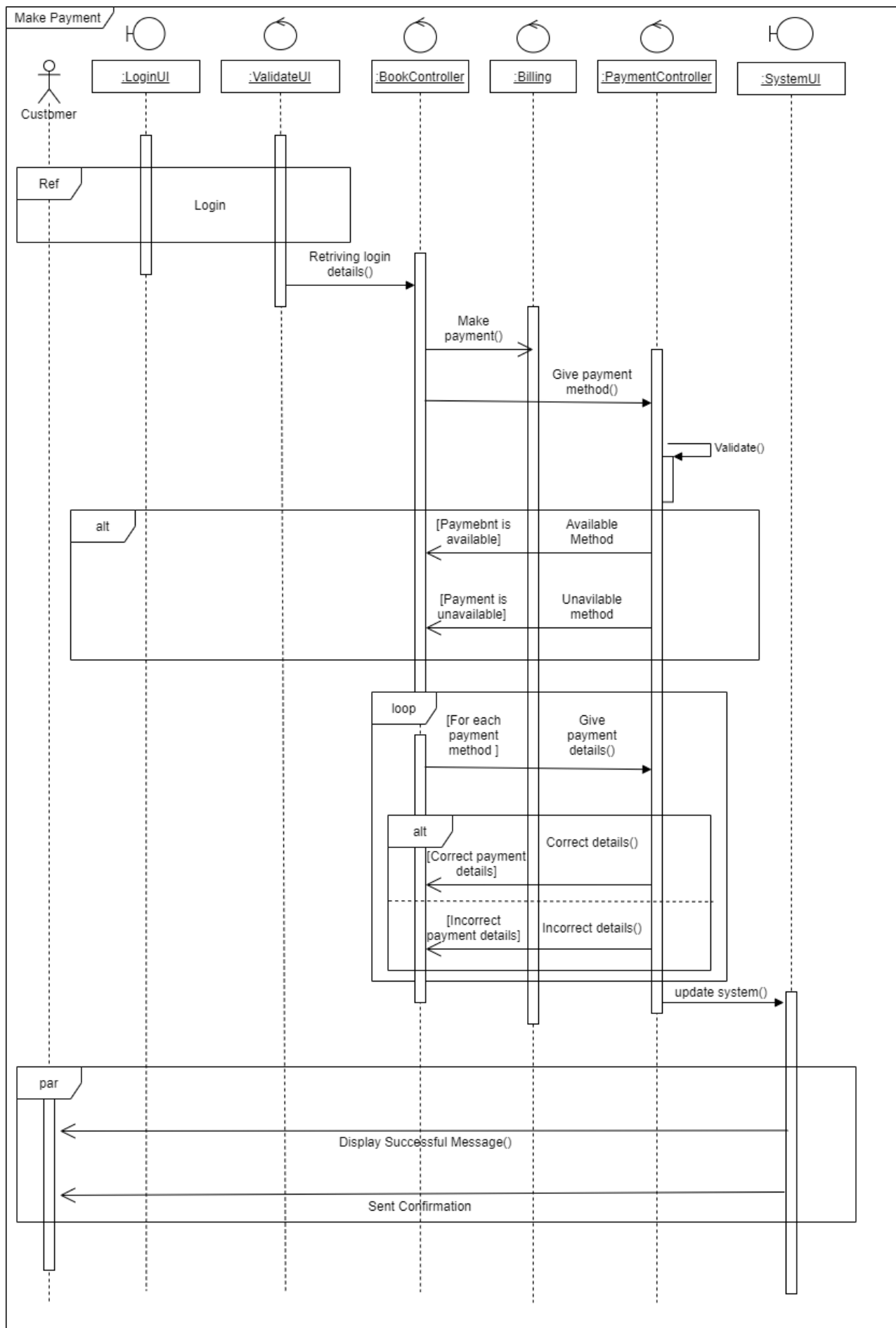
	Student Registration Number	Student Name
1	IT20109080	S.Sivarujan
2	IT20220624	S.Andrew Asher
3	IT20203412	N.Dinoja
4	IT20229634	S.Vithusha

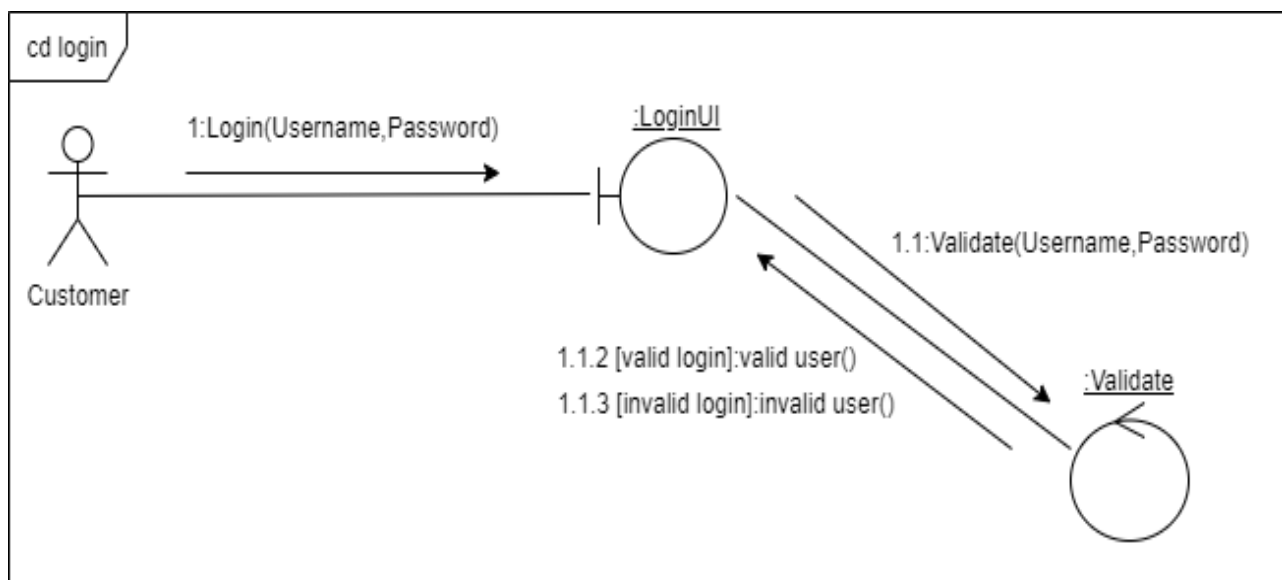
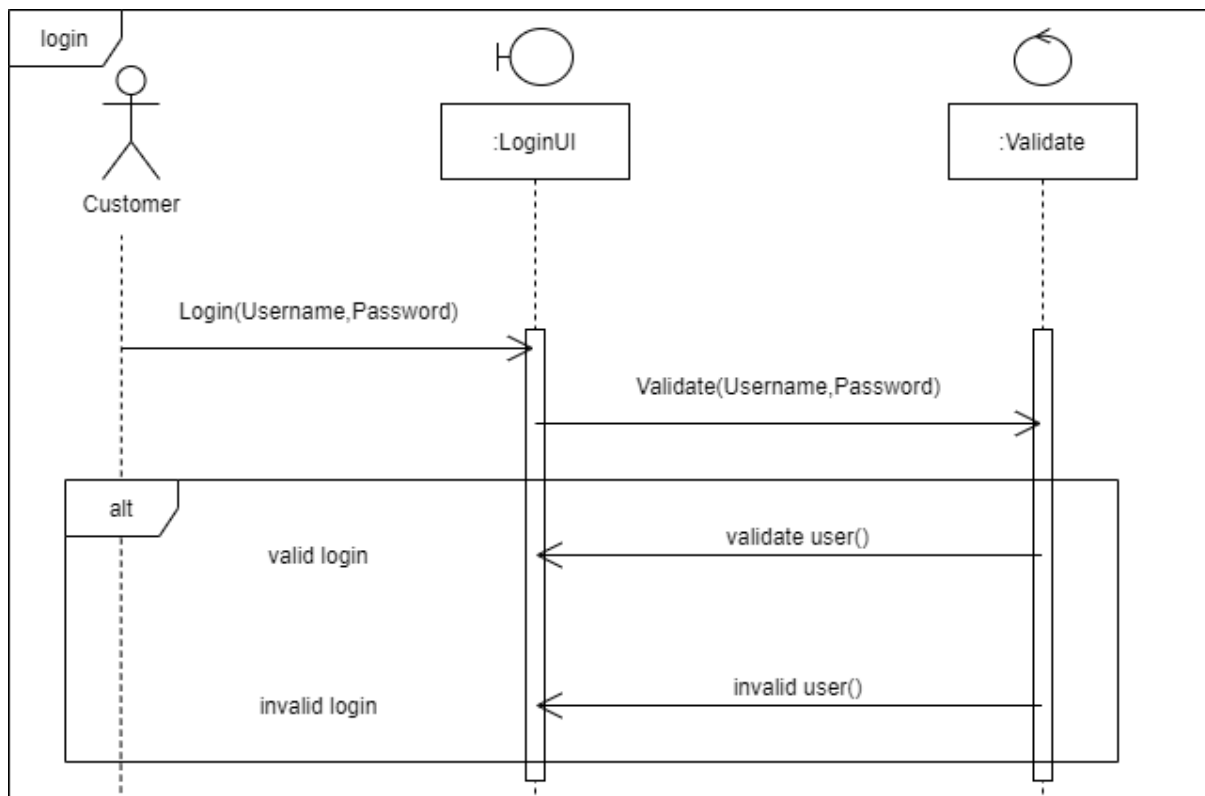
Reg.No	Name	Function Name
IT20109080	S.Sivarujan	Make payment
IT20220624	S.Andrew Asher	Contact supplier
IT20203412	N.Dinoja	Manage staff
IT20229634	S.Vithusha	Check fuel status

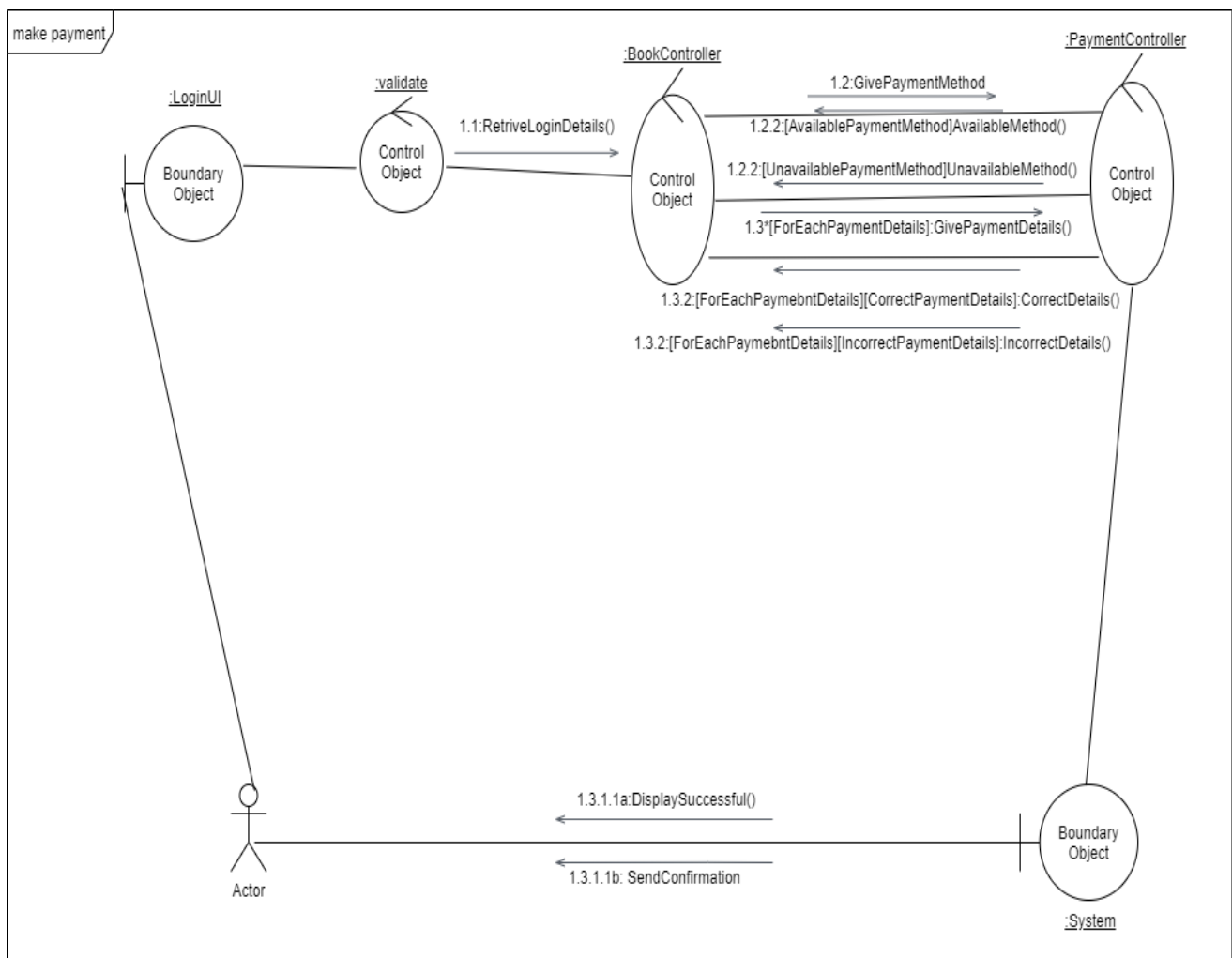
Online Vehicle service and fuel station management System

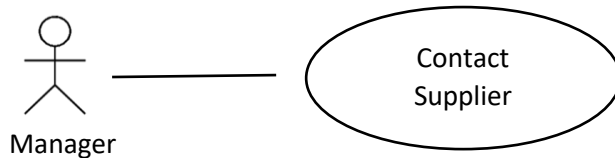


Use case ID	001	
Use case Name	Make an online reservation	
Pre-Conditions	Customer must logged in to the page	
Post conditions	System completes the log details for the session.	
Primary Actor	Customer	
Trigger	Customer choose make payment after the reservation	
Main Scenario	Steps	Action
	01	Use case begins when customer successfully logs in to the system.
	02	System checks the login details
	03	Customer choose make payment
	04	System display payment methods
	05	Customer chooses suitable one and enter details
	07	System validates the payment details
	08	If it is valid customer get successful message
Extension	steps	action
	2a	If customer login invalid, a) display an error message. b) Allow customer login again
	08a	If it is not valid a) Customer get an error msg b) Allow customer to re enter again

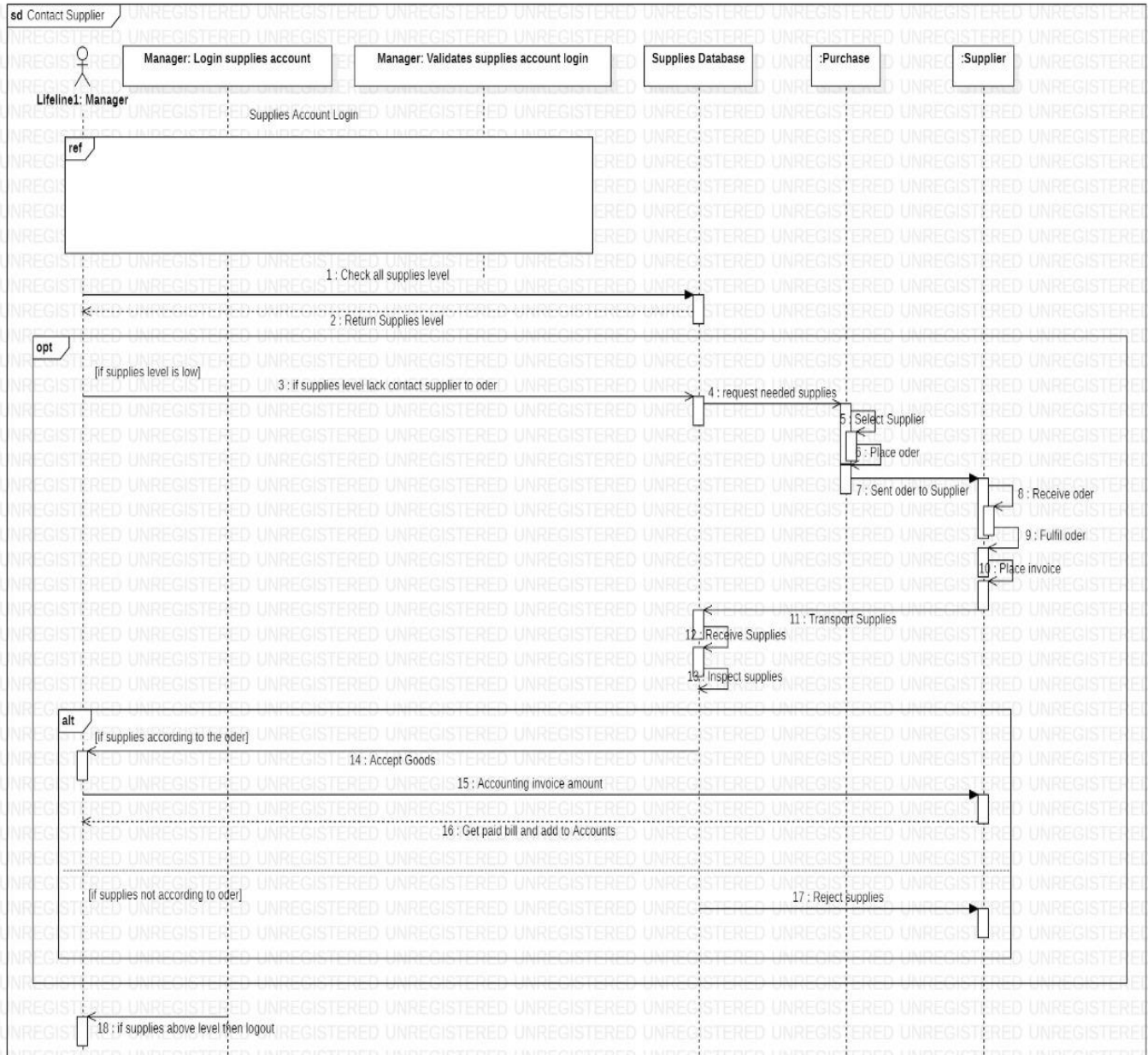


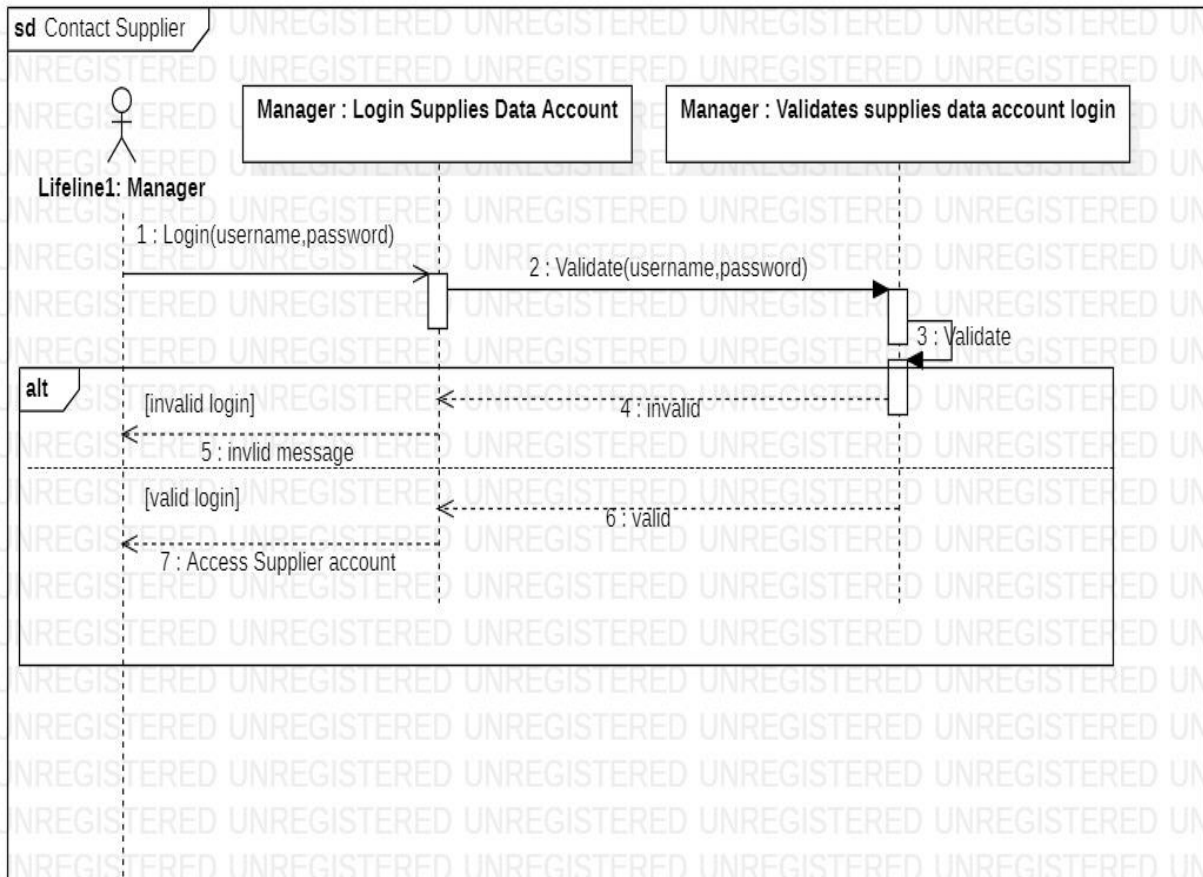


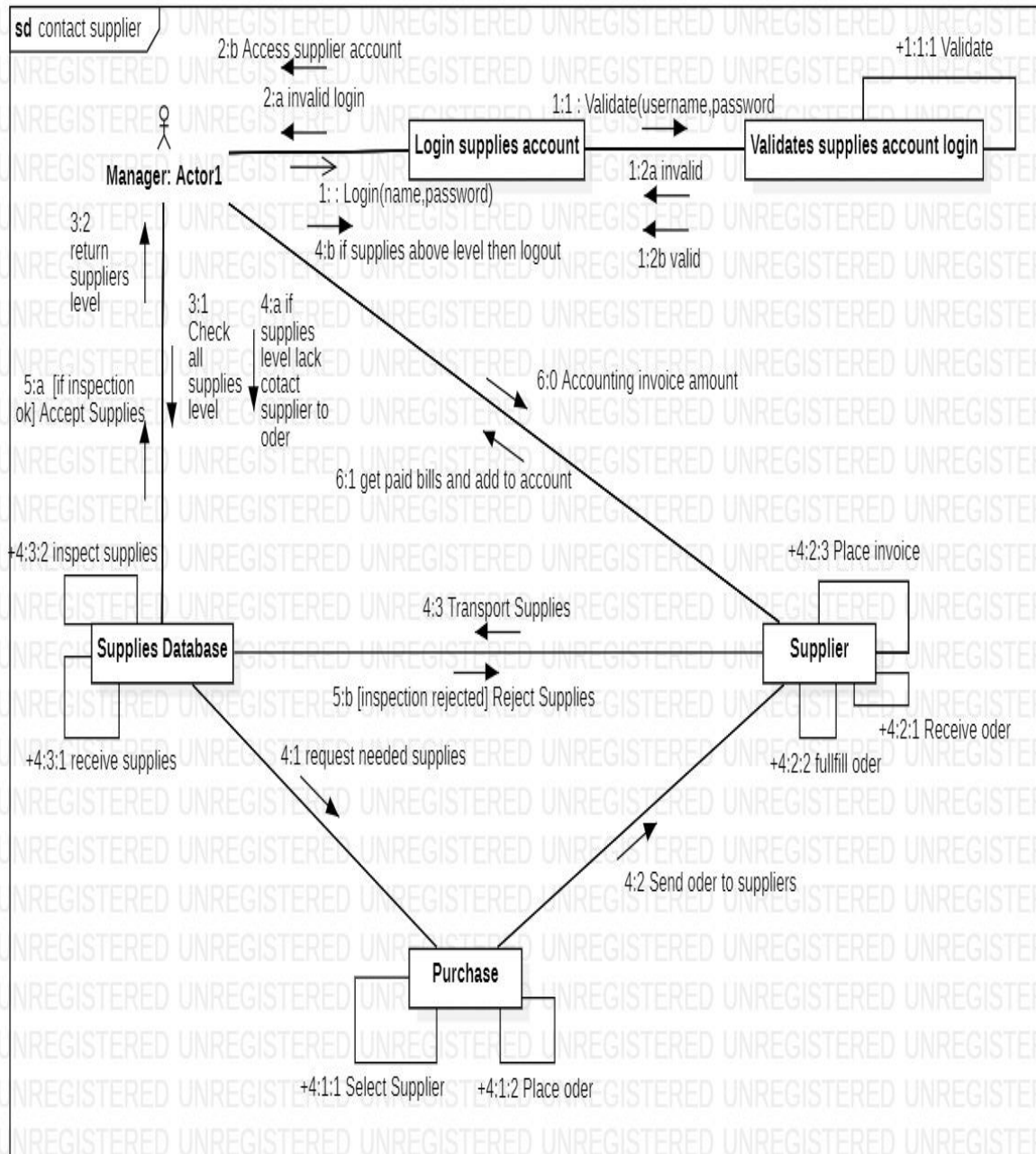




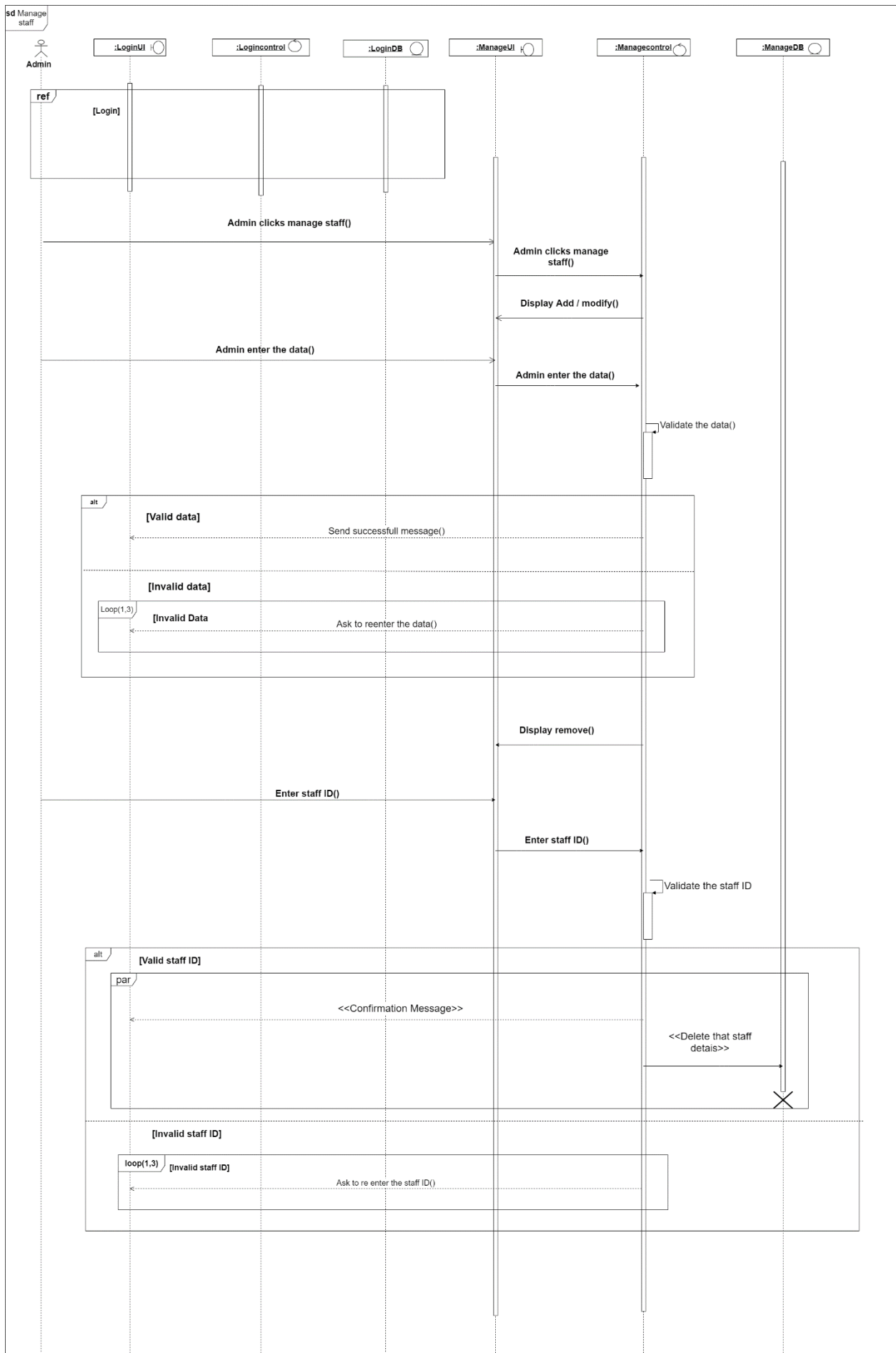
Number	002	
Name	Contact Supplier	
Summery	Manager checks Supplies Data and Contact Supplier when need purchases	
Pre-Condition	By checking availability of supplies needed manager contact suppliers for purchase in needed times	
Post-Condition	<ul style="list-style-type: none"> • Manager access needed purchases by input data • Add that to account and update purchase history after the supplies came 	
Primary Actor(s)	Manager	
Secondary Actor(s)	Accountant	
Trigger	Manager need to purchase for supplies and add that invoice to the admin system	
Main Scenario	Step	Action
	1	System will check Manager, registered or not for access Suppllies account. If a Manager is registered system will open Supplies database account
	2	System will display all the details of the supplies and their level
	3	Manager will checks the supplies level
	4	If any supplies level is less of the border amount, manager will contact suppliers
	6	Manager will prepare purchase list of needed supplies
	7	Manager sends purchase list to supplier
	8	Supplier get the order and transports to manager
	9	Supplier sends the invoice to the manager
	10	Manager checks all the supplies arrived or not and if any supplies didn't come rejects the order
Extensions	Step	Branching Actions
	1a	If manager doesn't enter a username & password correctly, system will not accept to login
	3a	Manager wants to check manually the level of supplies
	8a	Supplier will receive cash only after transporting it to manager
	10a	Manager checks the supplies correct or not and pay for the supplies

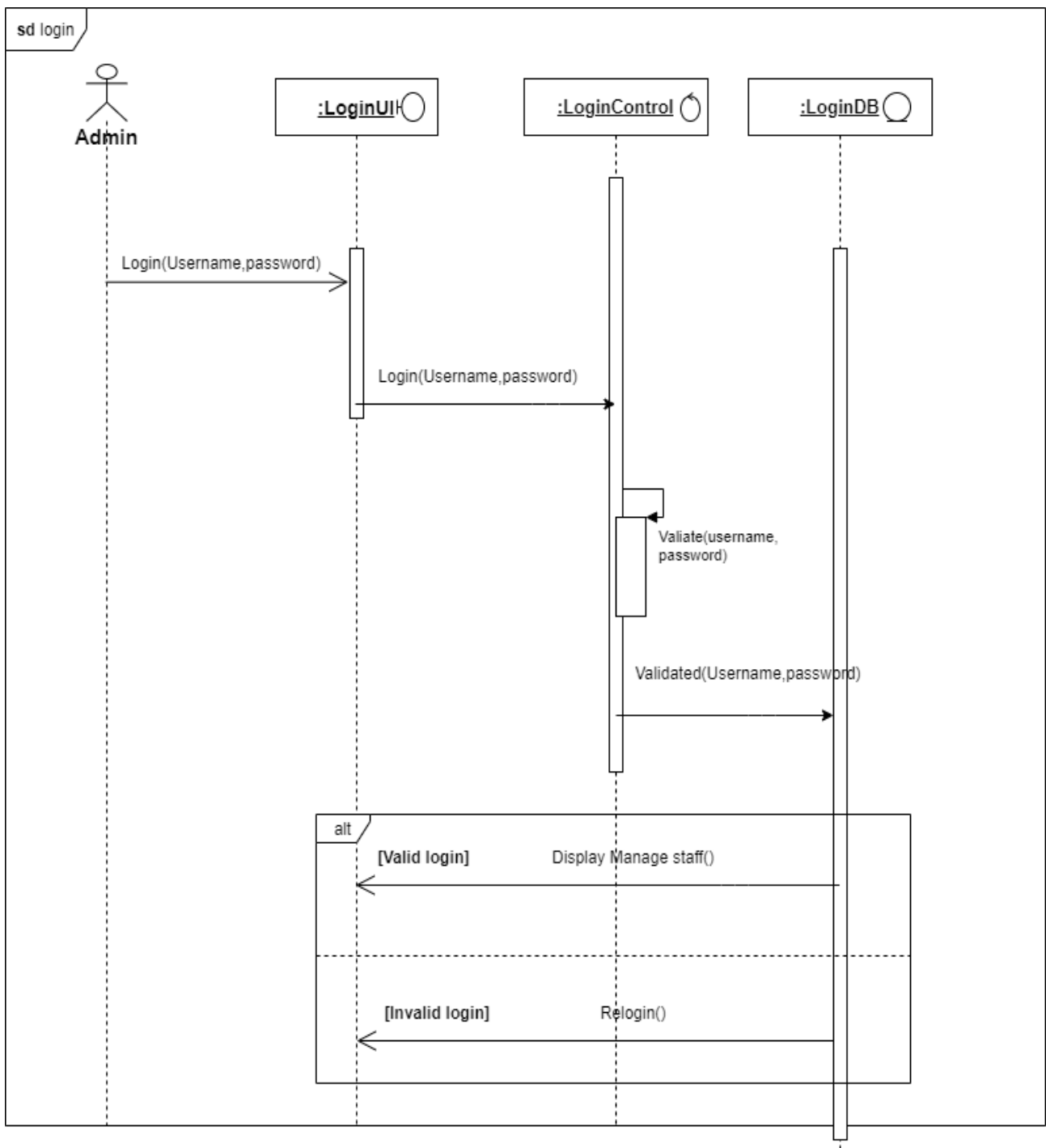


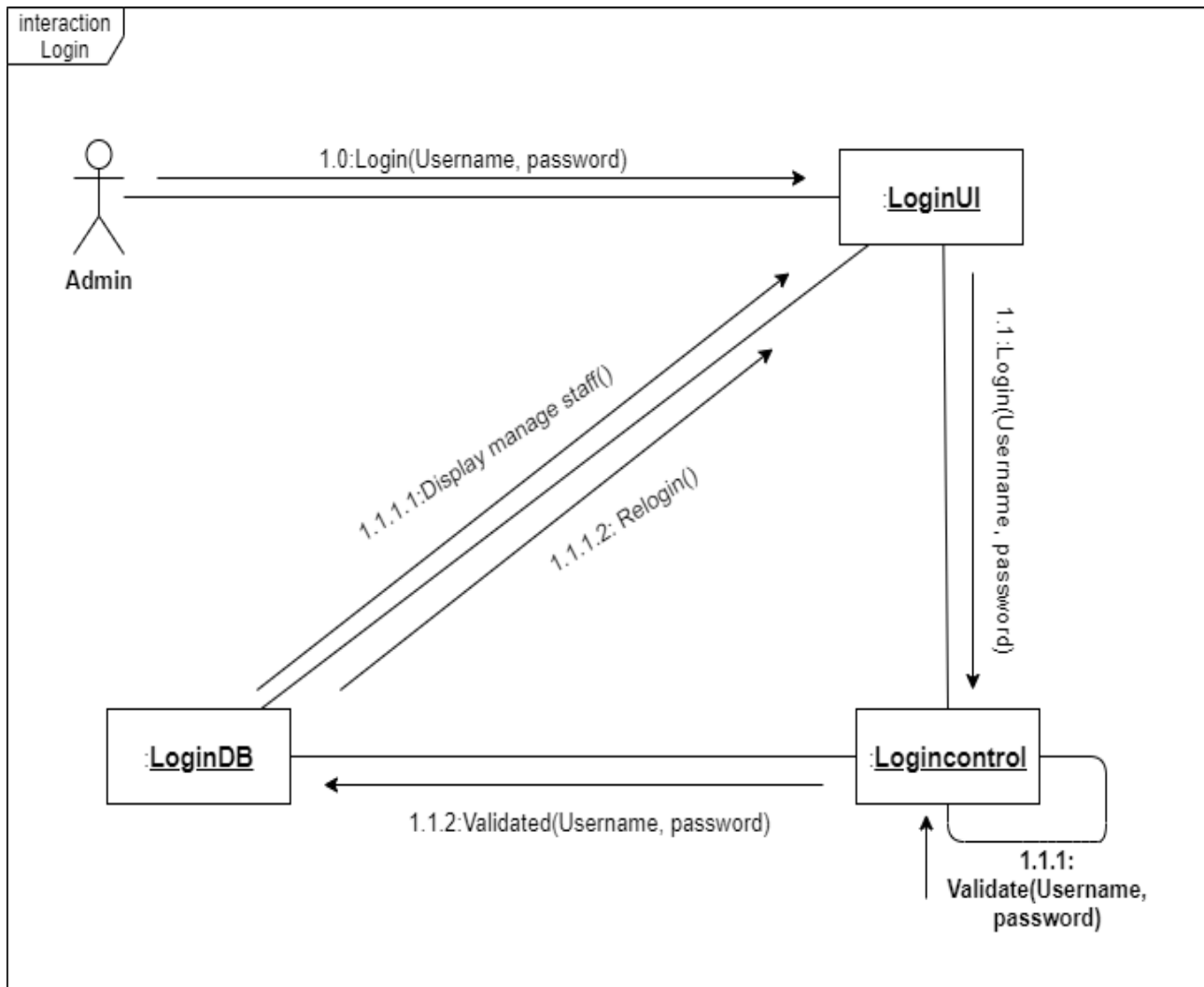


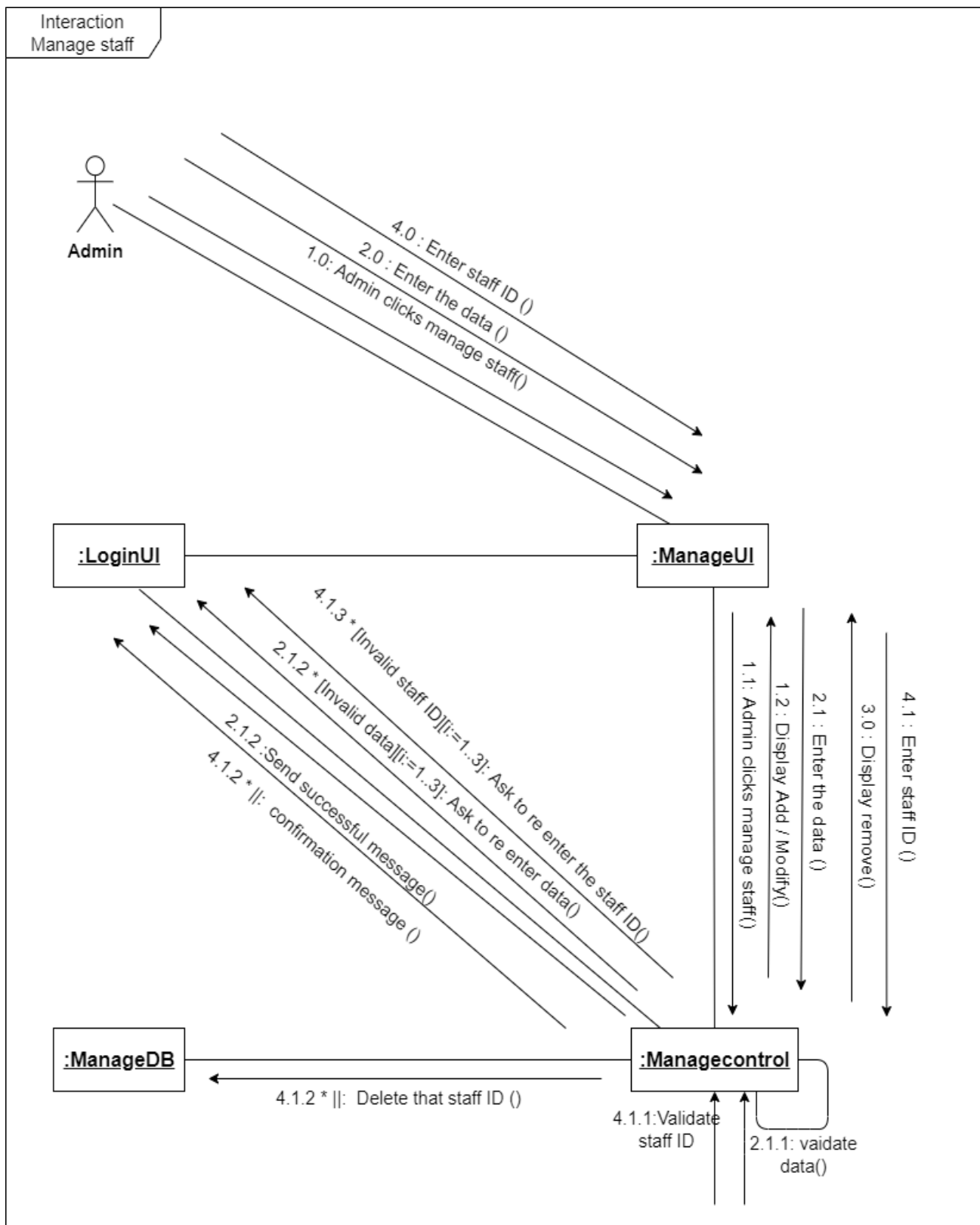


Number	003
Name	Manage staff
Summary	Admin add, remove, update staff details to the system
Precondition	i. System works properly. ii. Admin must login to the system
Post condition	Create a message.
Primary actor(s)	Admin
Main Scenario	
Step	Action
01	System shows login page to admin
02	Admin enter username, password
03	System validate login
04	If the login is valid system display manage staff
05	Admin clicks manage staff
06	System display Add or modify details
07	Admin select suitable and enter the data
08	System validates the entered data
09	If the data is valid, system send the successful message to admin
10	System display Remove staff details
11	Admin enter the staff ID
12	System validates the staff ID
13	If the staff ID is valid, at the same time system will remove that staff details and send a confirmation message to admin
Extension	
Step	Branching Action
04.a	Re log into the system
09.a	If the data is invalid system allow admin to reenter the data (Admin can enter the data 3 times only)
13.a	If the staff ID is not valid, system allow admin to reenter the staff ID (Admin can enter the data 3 times only)



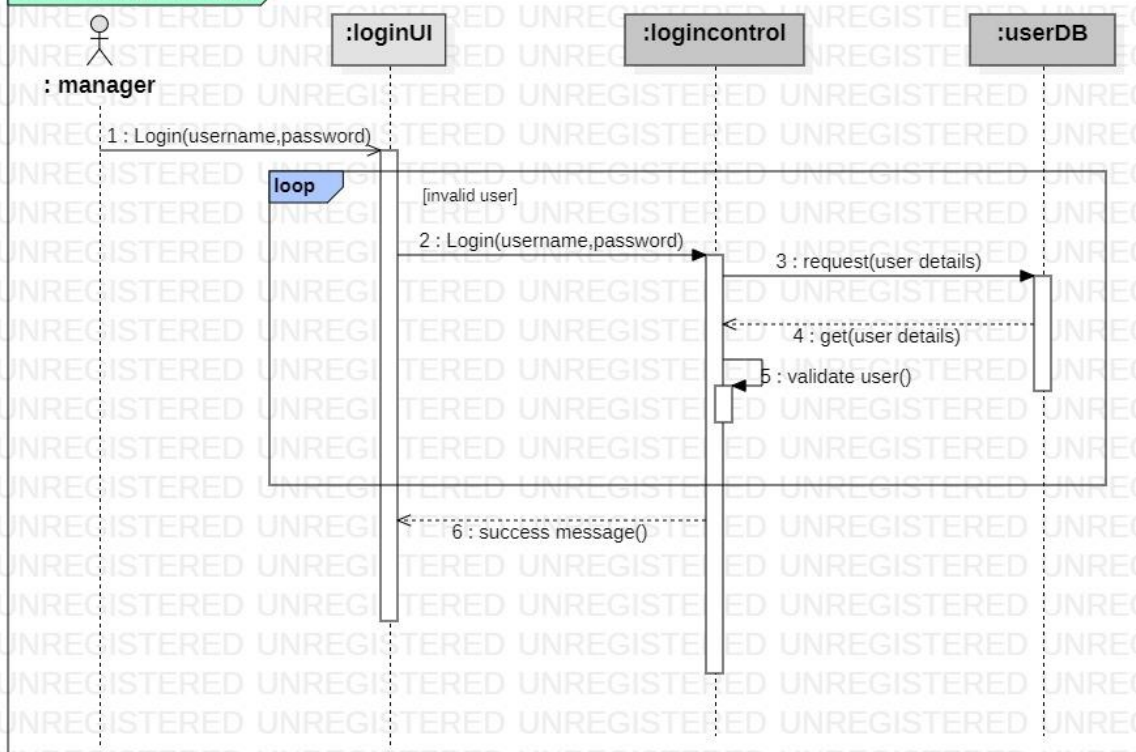




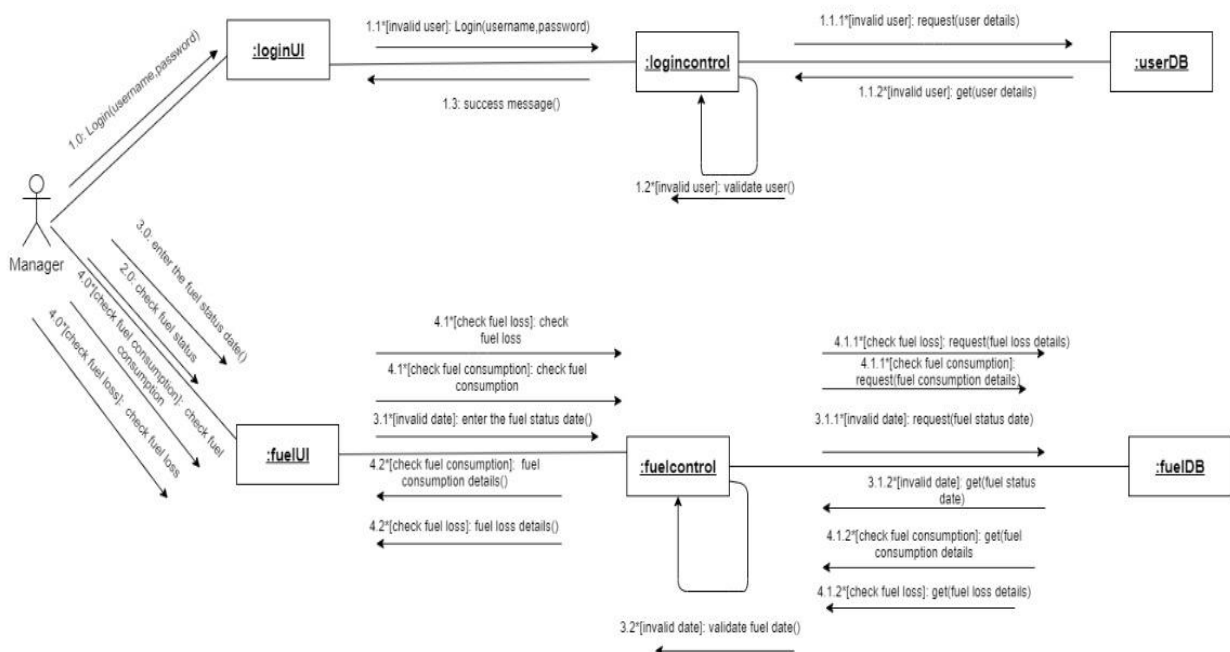


Number	004	
Name	Check fuel status	
Summary	User check the fuel status	
Preconditions	User has logged into system	
Postconditions	User has check fuel status	
Primary actor	Manager	
Main Scenario	Step	Action
	1	System display login option
	2	User entering his/her login information
	3	System checks the login details
	4	System send successful message
	5	User select the check fuel status
	6	User enter the fuel status date
	7	System check fuel status date
	8	System display check fuel consumption and check fuel loss option
	9	User select the check fuel consumption or check fuel loss
	10	System check fuel consumption or check fuel loss
	11	System display the fuel details
Extensions	Step	Branching action
	3A	If user login invalid. a)Allow user login again
	7A	If fuel status date invalid a)Allow user enter date again

sd Manager login



interaction check fuel status



Reg.No	Name	Function Name	Contribution
IT20109080	S.Sivaranjan	Make payment	25%
IT20220624	S.Andrew Asher	Contact supplier	25%
IT20203412	N.Dinoja	Manage staff	25%
IT20229634	S.Vithusha	Check fuel status	25%