

A dark blue vertical bar is positioned on the left side of the page. A blue arrow-shaped banner points to the right, containing the date '4/8/2020'. Below the banner, several thin, curved lines in shades of blue and grey sweep upwards from the bottom left corner.

4/8/2020

IT2020 Software Engineering

ASSIGNMENT

2nd Year 1st Semester

SE/OOP/MWE/G7
SLIIT

Online School Information Management System.

<i>Reg. No</i>	<i>Name</i>
IT19043456	Kulatilake T. T
IT19040318	DeSilva U. S. C
IT19011226	Kosala D. K. K
IT19043524	Deemud G. H. K

SE/OOP/MWE/G7

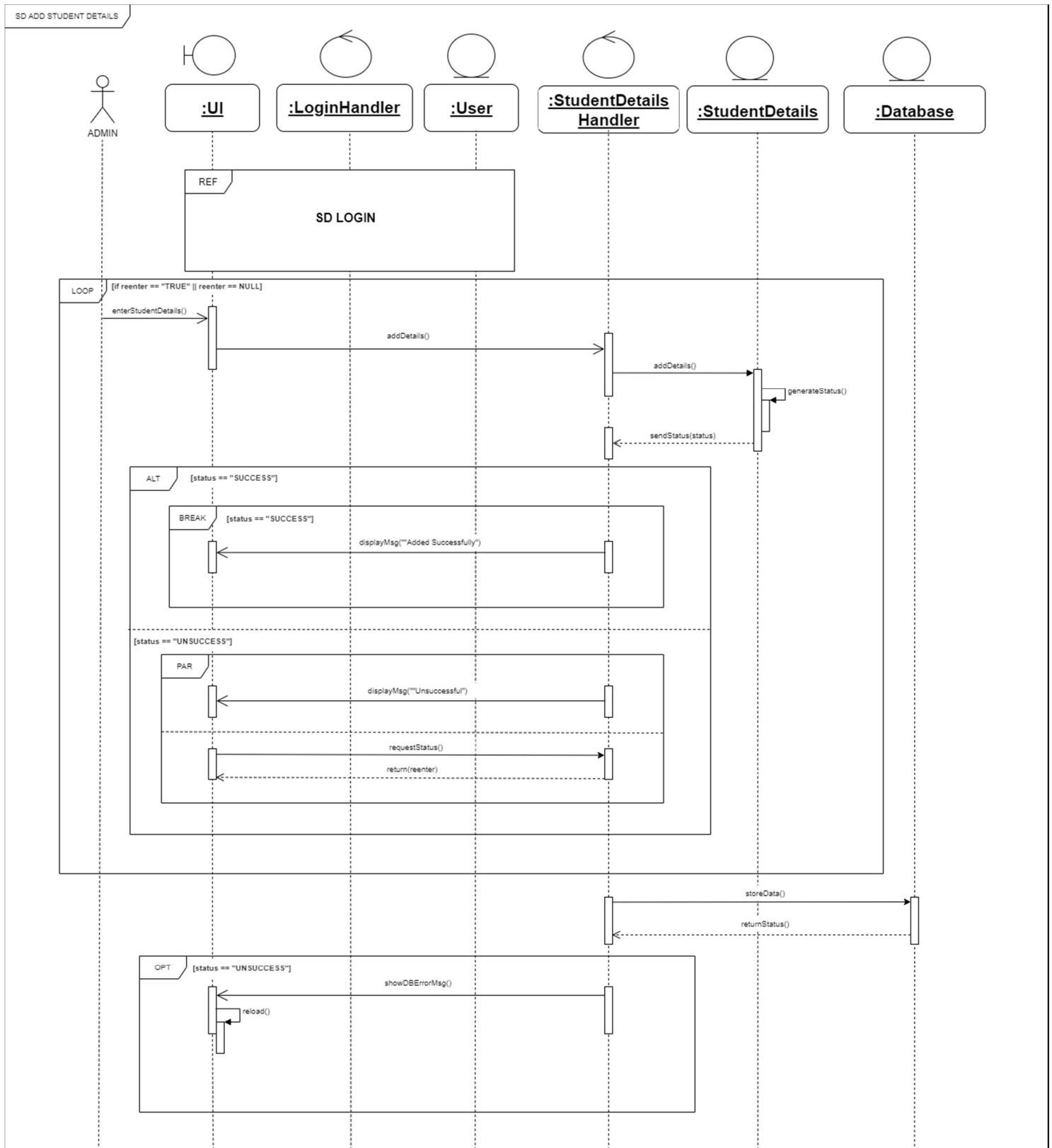
IT19043456 - Kulatilake T. T

IT19043456 – Use case Scenario (ADD STUDENT DETAILS)

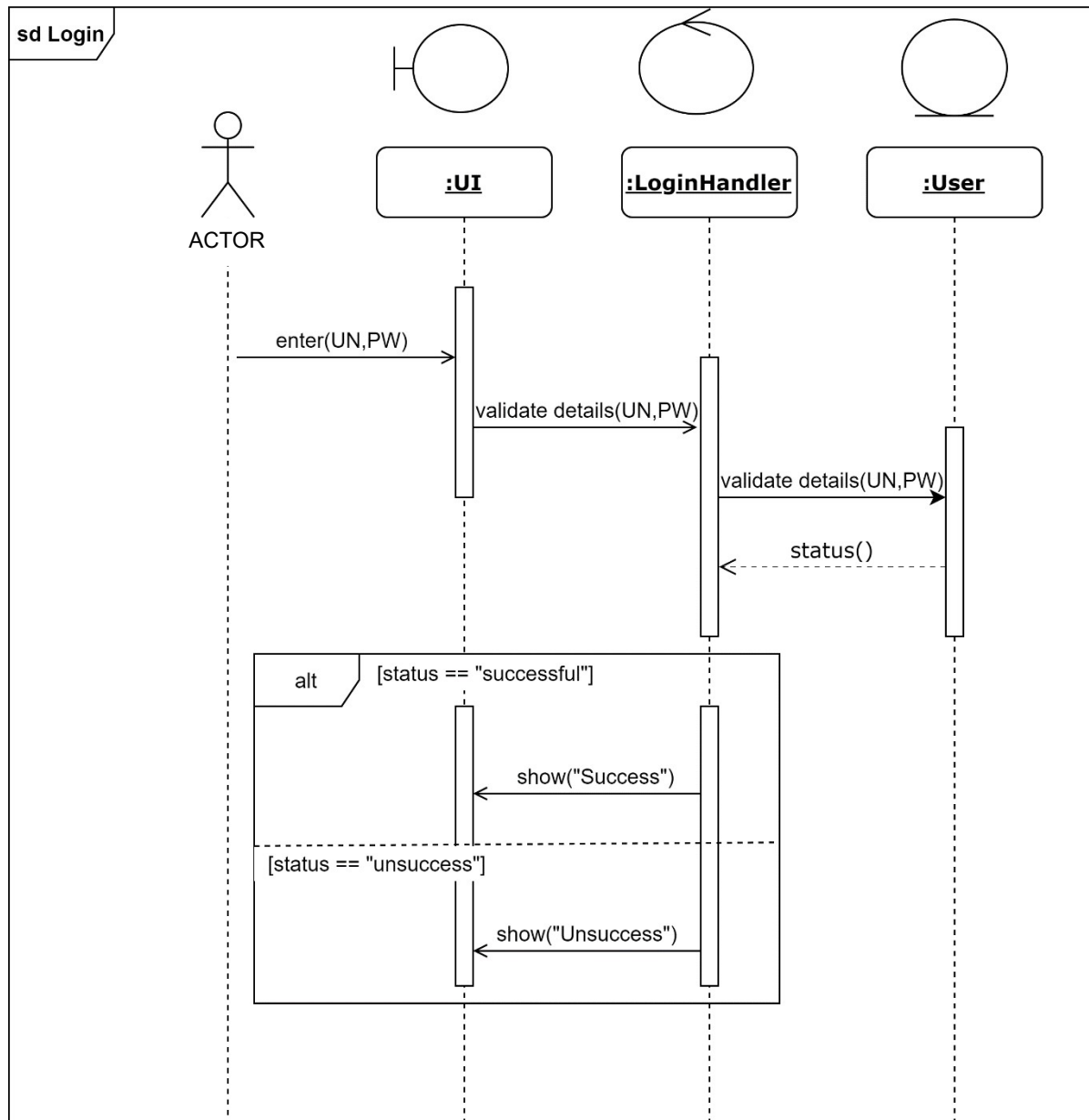
ID	01 (IT19043456)		
Name	Add Student Details		
Summary	Admin should enter details of the student in order to register the student in the system.		
Priority	5		
Pre-condition	Admin must login with his/her credentials		
Post-condition	Successful process displays success message to admin and vice versa.		
Primary Actor	Admin		
Trigger	Admin should select “Add New Student” button.		
Main success scenario	Step	Action	
	1	Admin logs into his account with his credentials.	
	2	Admin clicks “Add New Student” button.	
	3.	Enters the student information.	
	4	Clicks the “ADD” button.	

	5	Receive a success message saying “Added Successfully”	
Extensions	<p>1. If the password is incorrect, give option to re-enter the password.</p> <p>4A. If all the mandatory details are not filled, display the message saying “Fill all mandatory fields.”</p> <p>4B. If the adding process fails due to server error, prompt a message saying “Please re-enter details.”</p> <p>5. If storing data into database gives an error, then an error message will pop up saying “DATABASE ERROR ” and reloads the webpage.</p>		

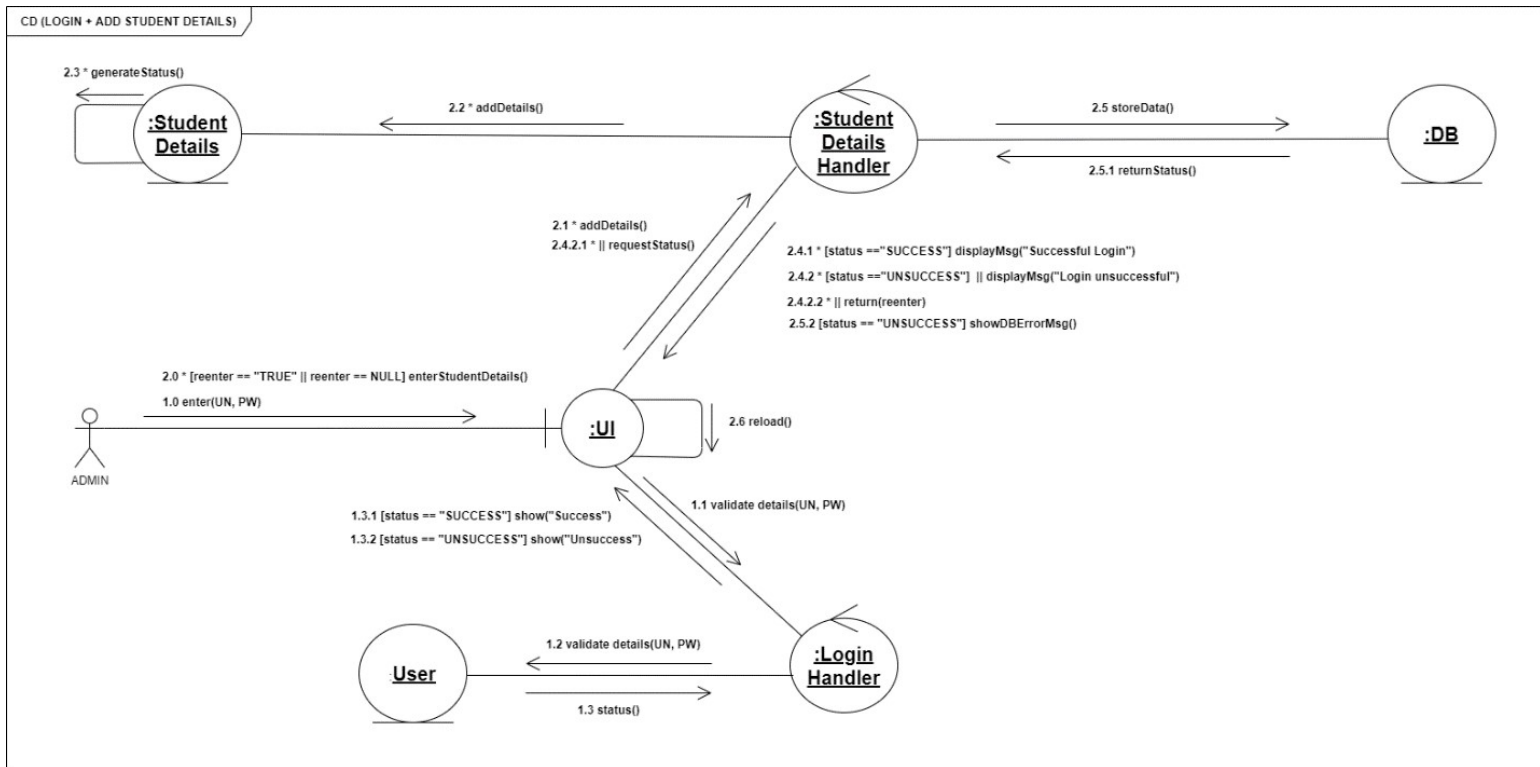
IT19043456 - Sequence Diagram (ADD STUDENT DETAILS)



Sequence Diagram - LOGIN [Used as Ref tag]

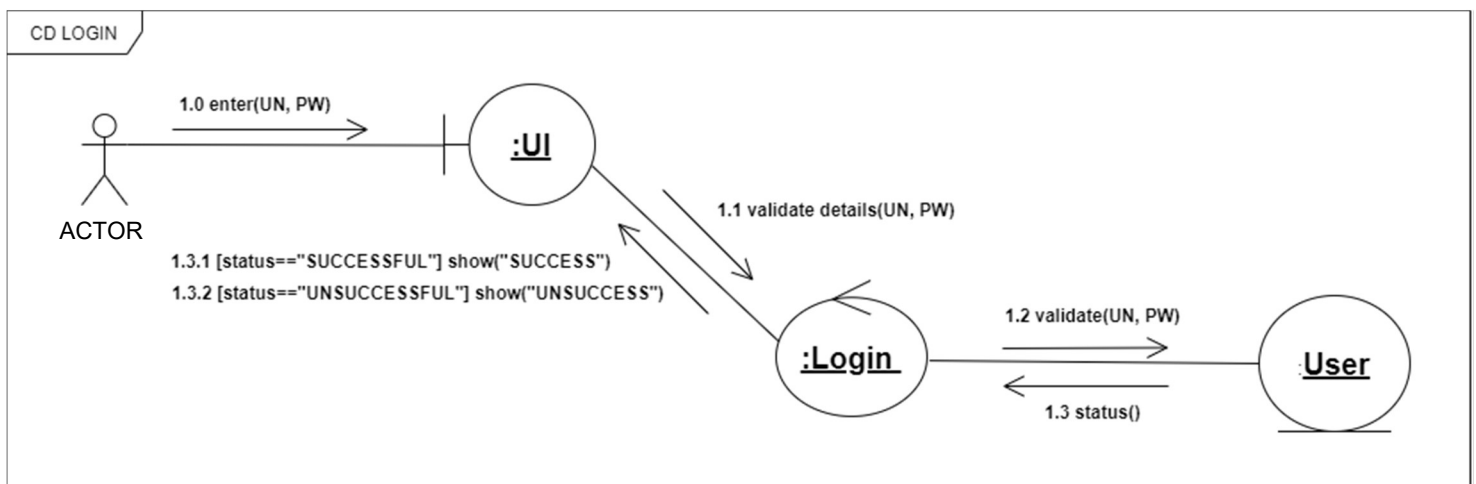


IT19043456 – Communication Diagram (LOGIN + ADD STUDENT DETAILS)



NOTE: Below CD-LOGIN is already merged in the above CD diagram.

COMMUNICATION DIAGRAM – LOGIN



IT19040318 - DeSilva U. S. C

IT19040318 – Use case Scenario (ADD ACADEMIC-STAFF DETAILS)

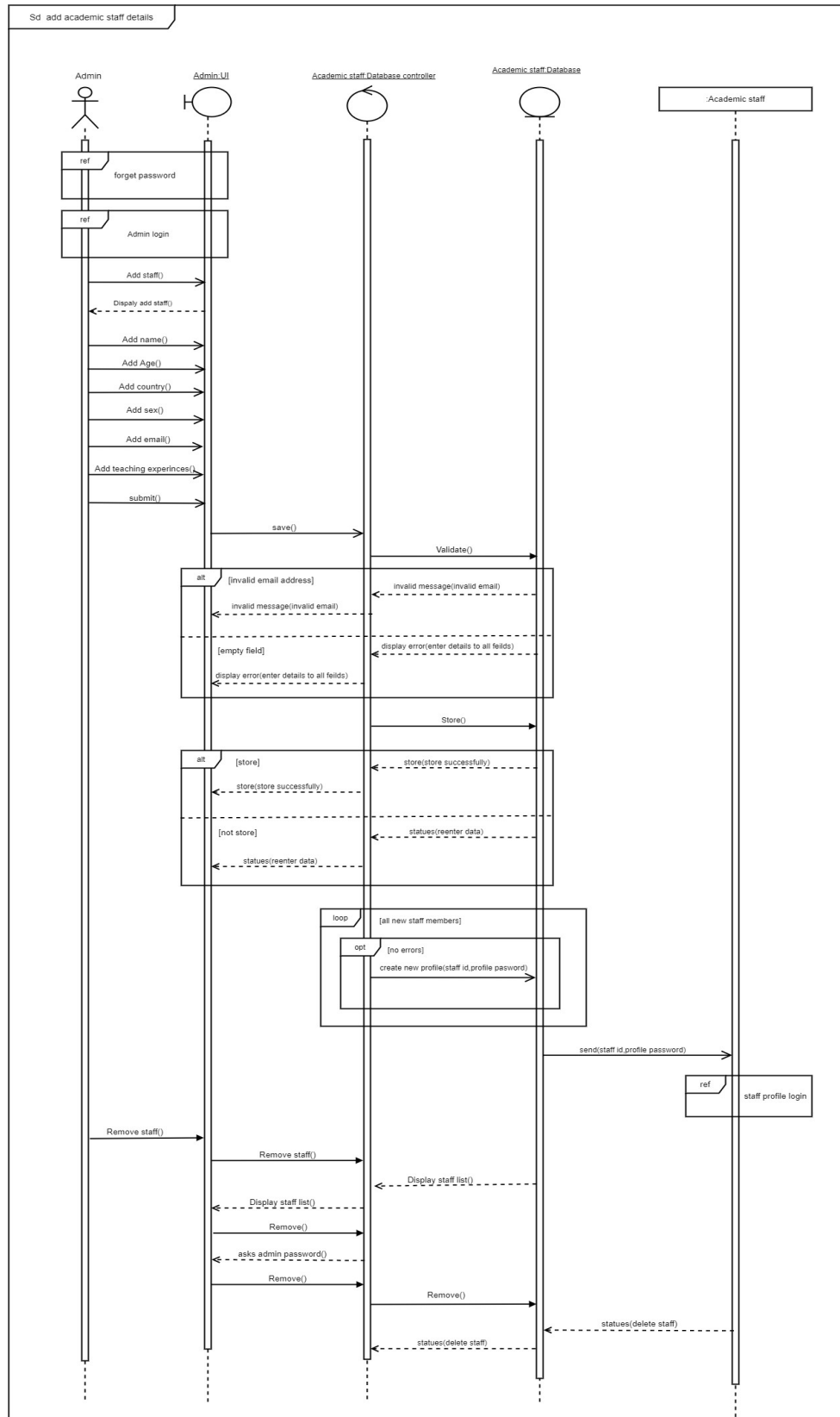
ID	02 (IT19040318)		
Name	Add Academic Staff Details		
Summary	Admin should manage details about Academic Staff and their profile details.		
Priority	5		
Pre-condition	Admin should enter valid details about the academic staff.		
Post-condition	After adding details, system create a profile for each academic staff member to do their work.		
Primary Actor	Admin		
Secondary Actor	Academic Staff		
Trigger	Admin should select “Add Academic Staff Member” button.		
Main success scenario	Step	Action	
	1	Admin logs into the system with admin ID and admin password	
	2	If admin forget password system display enter admin email as another option.	

	3.	That email will be validated by the database and send a new password to the email.	
	4	Admin ID and Password will be validated by the database.	
	5	Admin clicks “Add New Academic Staff Member” button.	
	6	Enters academic staff details. (full name, age, country, gender, email, teaching experience, etc..)	
	7	Saves the entered data to Academic Staff Database.	
	8	System creates a new Staff Profile with staff ID and profile password.	
	9	Academic Staff Member can login to their profile using staff ID and password.	
	10	Staff ID and password will be validated by the system.	

	11	Staff Member can conduct online lectures, add student marks, add exam time tables, add exam papers, etc...	
	12	Admin can remove the Academic Staff Member on Academic Staff Database by selecting “Remove Member” button.	
	13	At the same time, database shows the registered staff list.	
	14	When selecting, system asks admin password to give permission to remove a particular staff member from Academic Staff Database.	
	15	After deleting all information about a particular staff member, “information deleted” message will display.	

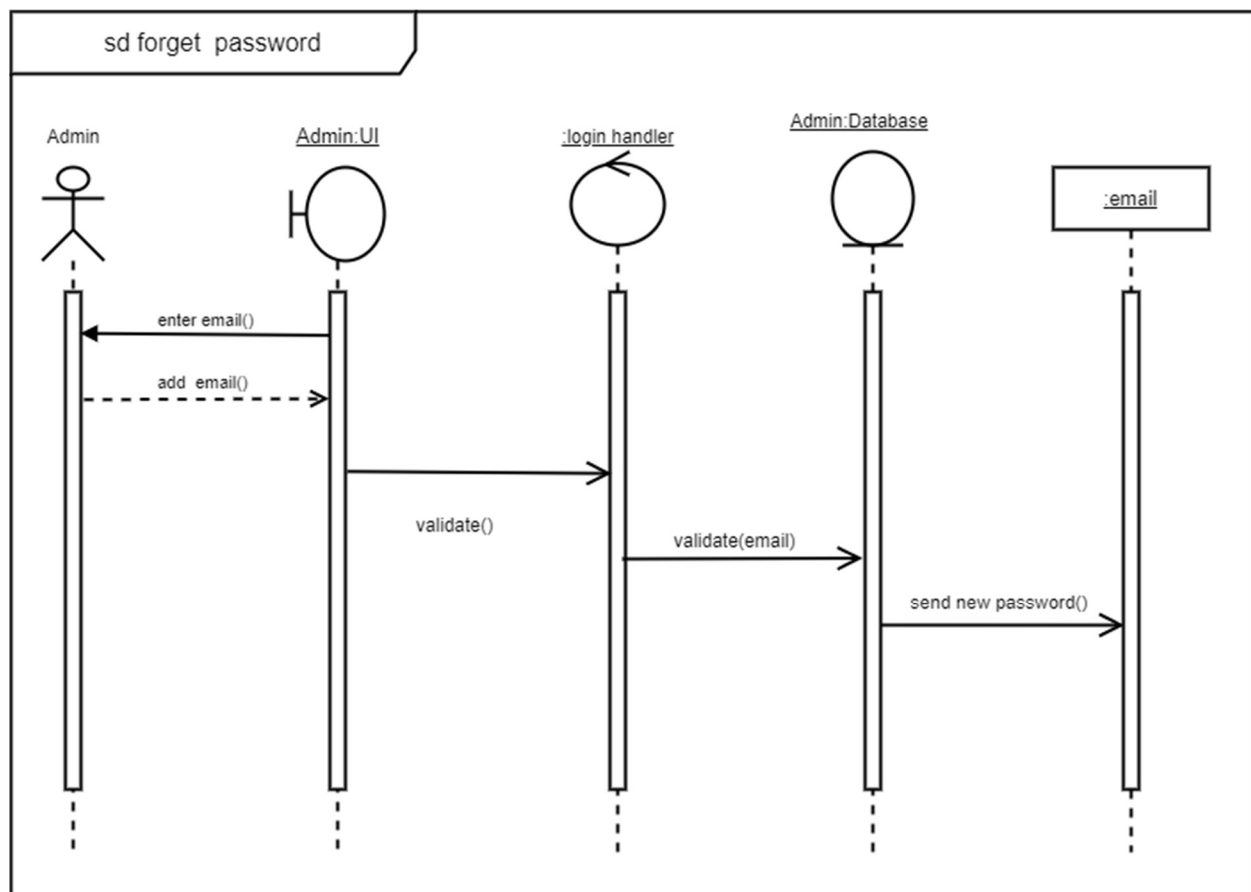
<p>Extensions</p>	<p>1A. When admin ID or password is incorrect, displays a message “Invalid ID and Password”.</p> <p>1B. When successful login, displays a message saying “Successful Login”.</p> <p>6A. If academic staff member is in invalid format, then system generates message “Invalid Email”.</p> <p>6B. If there are any empty fields, Display “Enter details to all fields” message.</p> <p>7. If academic staff details are not stored in the academic staff database, DB controller displays a message “Re-enter data”.</p> <p>10. If staff ID and password is invalid, display a message “Login Unsuccessful”.</p>
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IT19040318 - Sequence Diagram (ADD ACADEMIC-STAFF DETAILS)

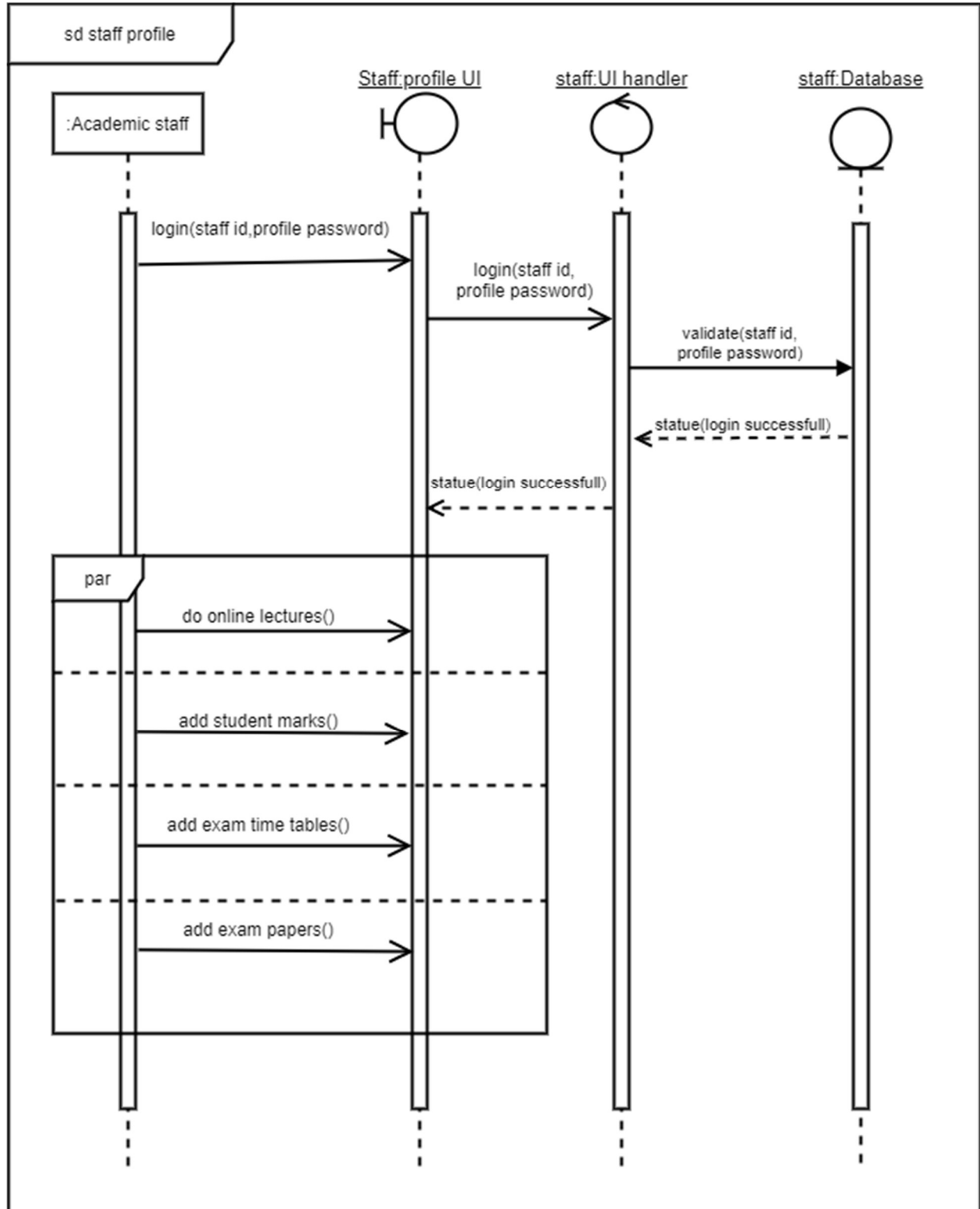


NOTE: LOGIN Sequence Diagram (stated at the beginning)
is used as the **ADMIN LOGIN REF tag**.

Sequence Diagram “Forget Password” REF tag

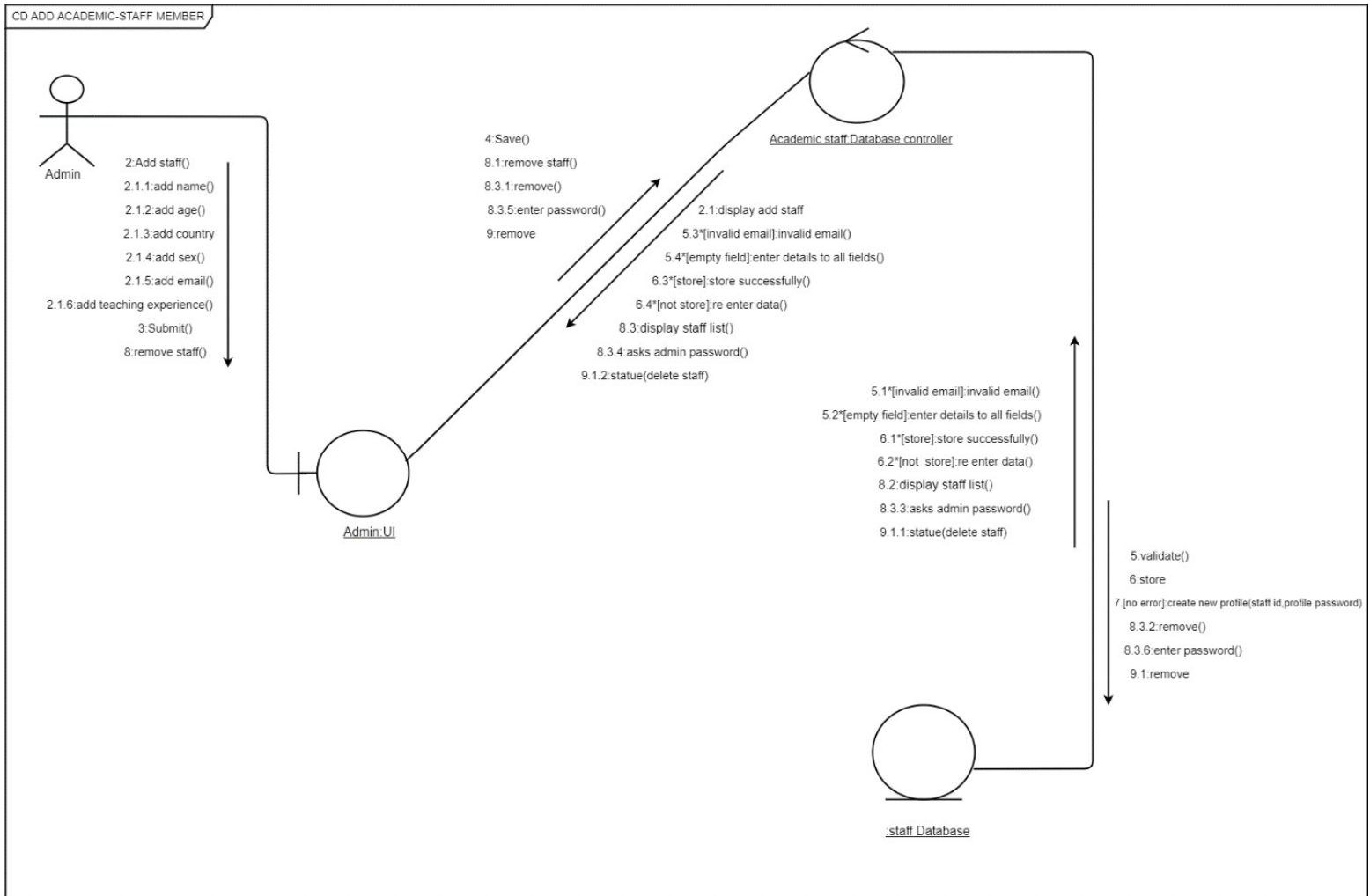


Sequence Diagram “Staff Profile” REF tag

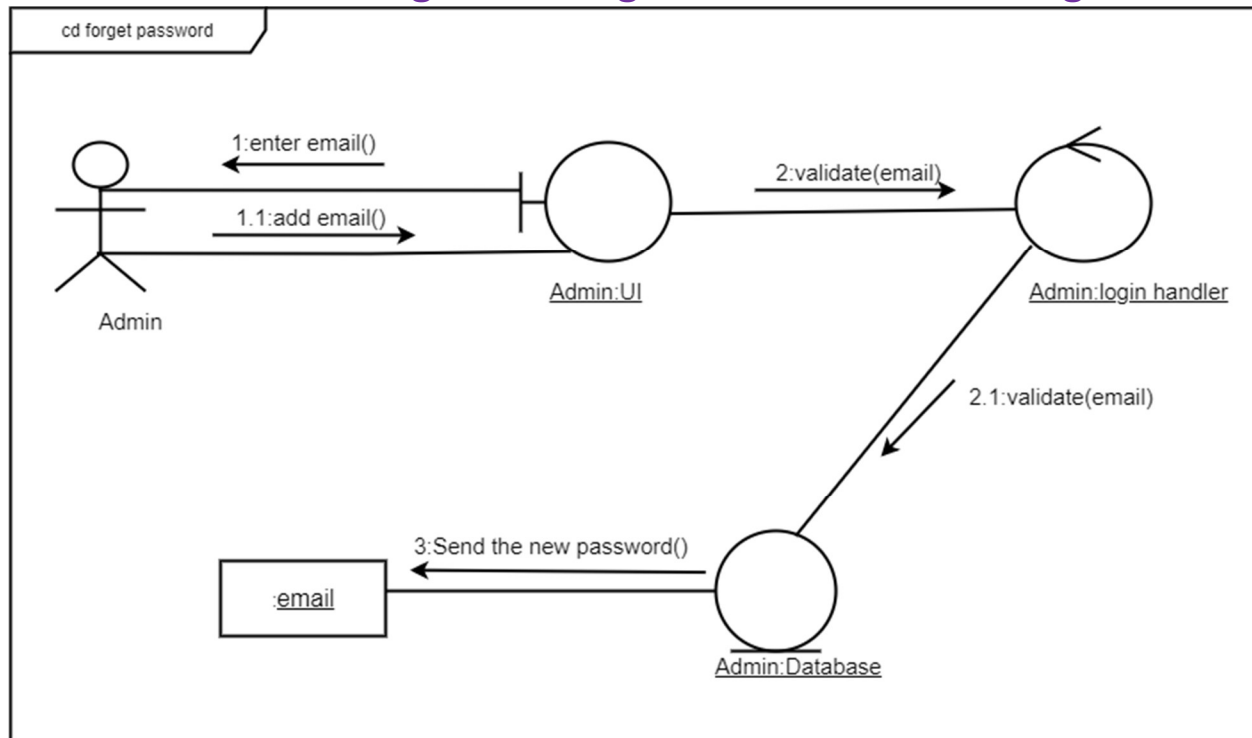


IT19040318– Communication Diagram (ADD ACADEMIC-STAFF DETAILS)

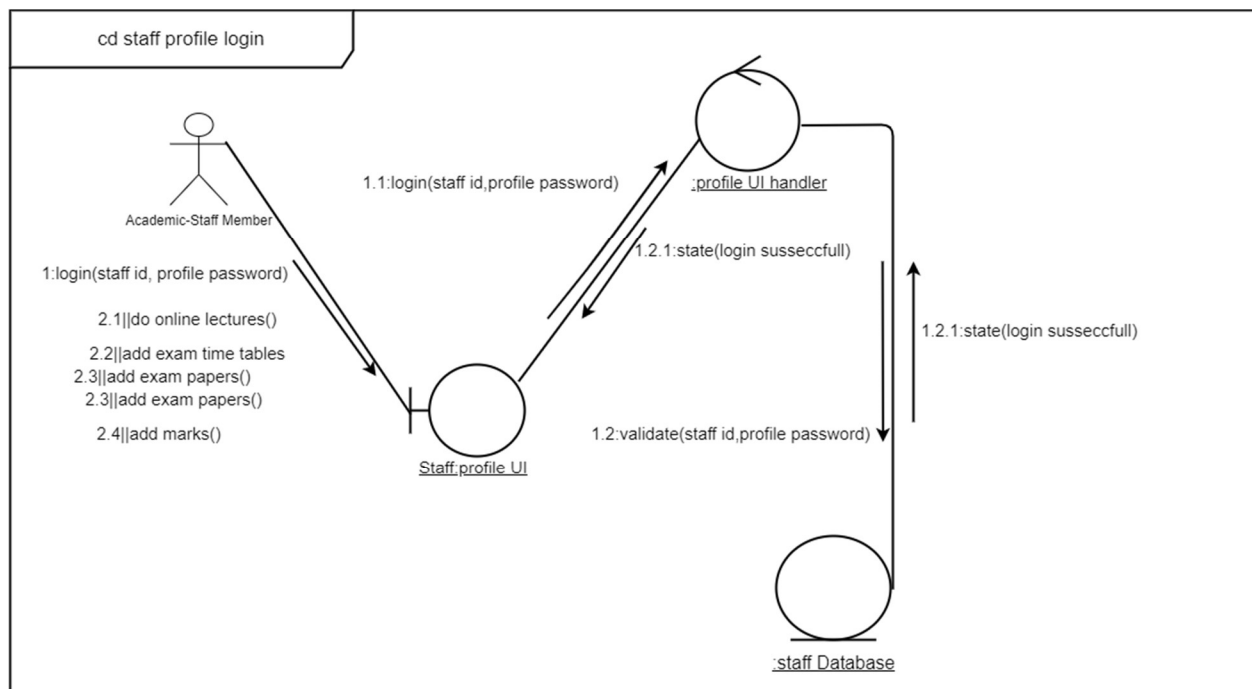
NOTE: LOGIN Communication Diagram (stated at the beginning) is used as the beginning. So message numbering starts with 2.0



Communication Diagram “Forget Password” REF tag



Communication Diagram “Staff Profile” REF tag



IT19011226 - Kosala D. K. K

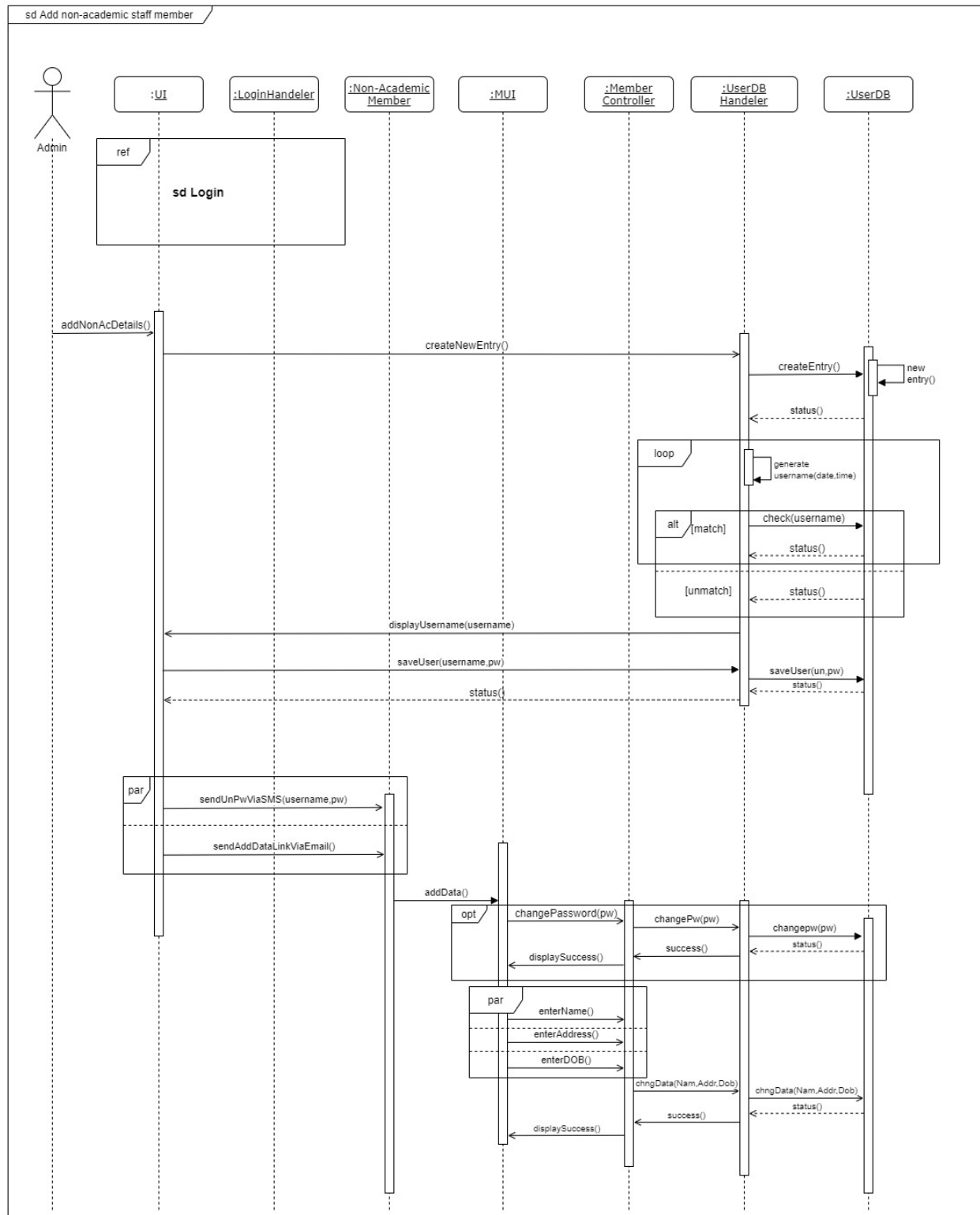
IT19011226 – Use case Scenario (ADD NON-ACADEMIC-STAFF DETAILS)

Use Case Number	003 (IT19011226)	
Use Case Name	Add Non-Academic Staff Details	
Primary Actor	Admin	
Secondary Actor	Non-Academic Member(NA Member)	
Preconditions	Admin should log-in to the system	
Main Success Scenario	Step	Action
	Step 1	Use case starts when the Admin wants to add Non-Academic Staff Details.
	Step 2	Admin select “Add Non-Academic Staff Details”
	Step 3	System create new entry in User Database.
	Step 4	System generate username using current time and
	Step 5	System check username availability.
	Step 6	System show generated Username to Admin.
	Step 7	Admin provide a user password and permission to save new user.
	Step 8	System save new username and password.
	Step 9	Admin sends username and password via SMS and Admin sends Add Data Link via Email to NA_Member at the same time.
	Step 10	NA_Member use link.
	Step 11	System show option to change password
	Step 12	System prompt enter name, enter address and enter telephone number methods at same time
	Step 13	NA_Member provide data, change password or do
	Step 14	System show successful message to NA_Member.
Extensions	Step	Branching Action
	Step	Match Found
		a) System will prompt an error message to the

		b) System keep generating new Usernames.
		c) System keep checking generated Usernames.
	Step	No Match Found.
		a) System will prompt a success message to the

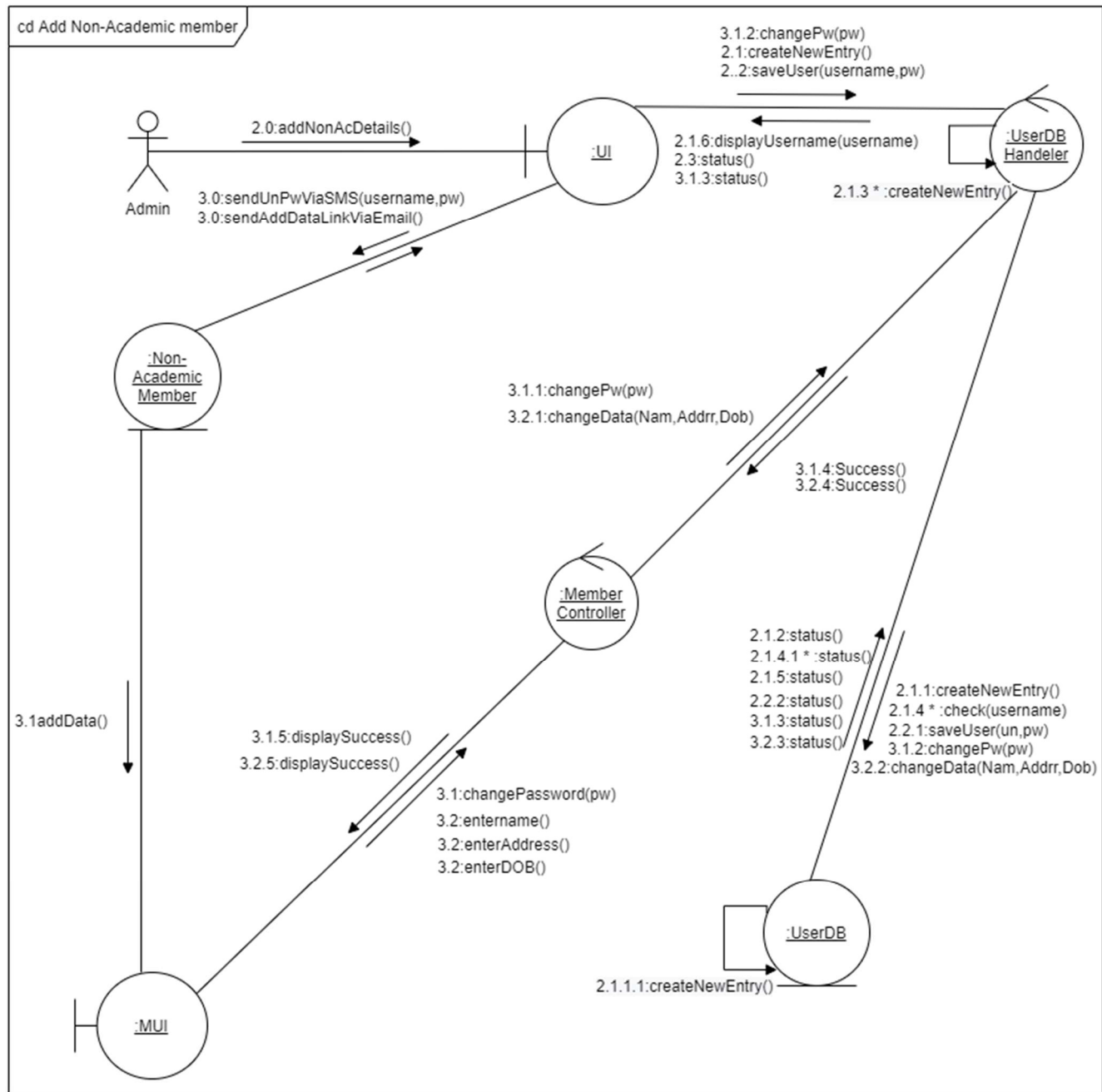
NOTE: LOGIN Sequence Diagram (stated at the beginning)
is used as the **Login REF tag** in the below diagram.
(see next page..)

IT19011226 - Sequence Diagram (ADD NON-ACADEMIC-STAFF DETAILS)



IT19011226– Communication Diagram (ADD NON-ACADEMIC-STAFF DETAILS)

NOTE: LOGIN Communication Diagram (stated at the beginning) is used as the beginning. So message numbering starts with 2.0

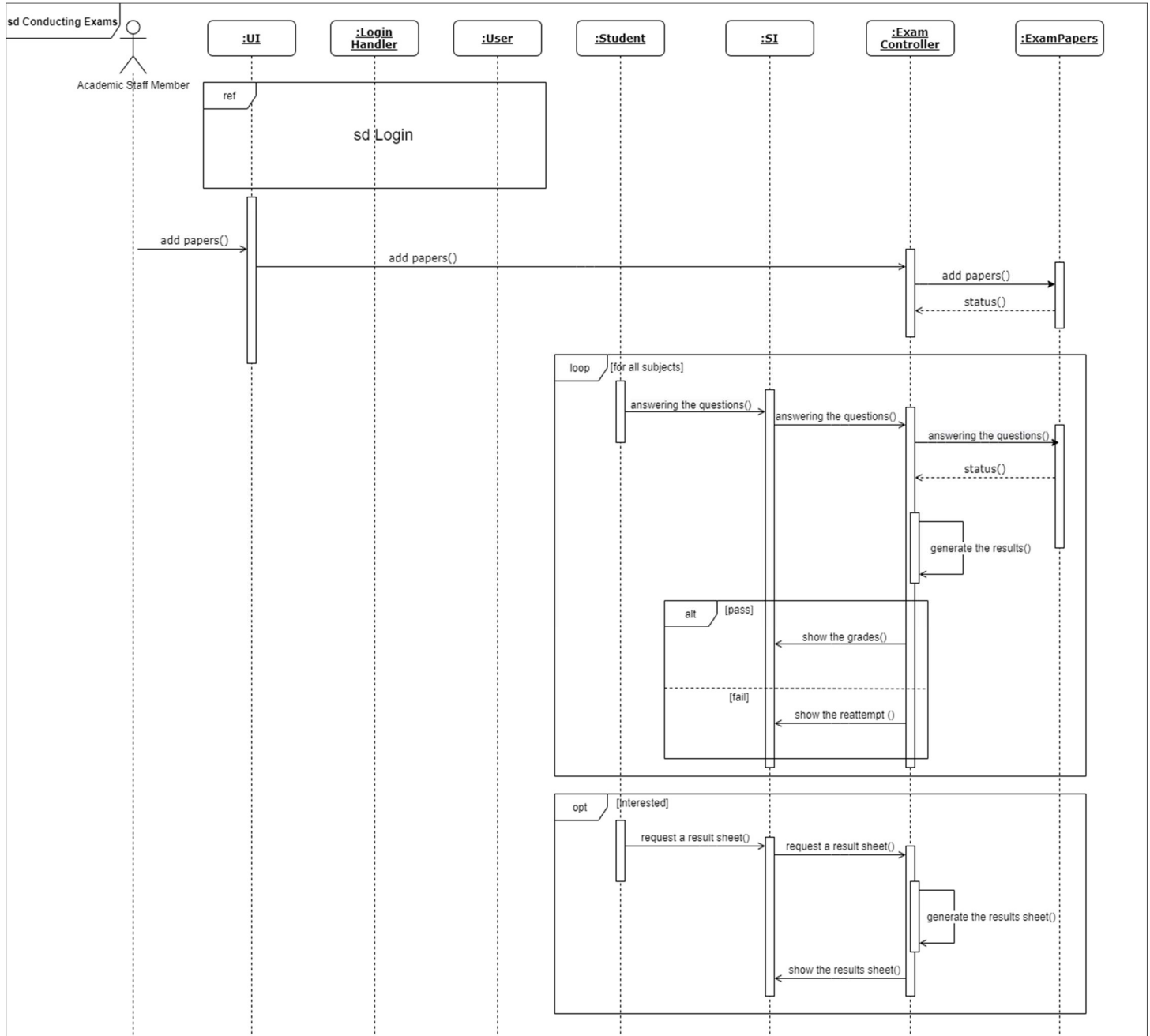


IT19043524 – Deemud G. H. K

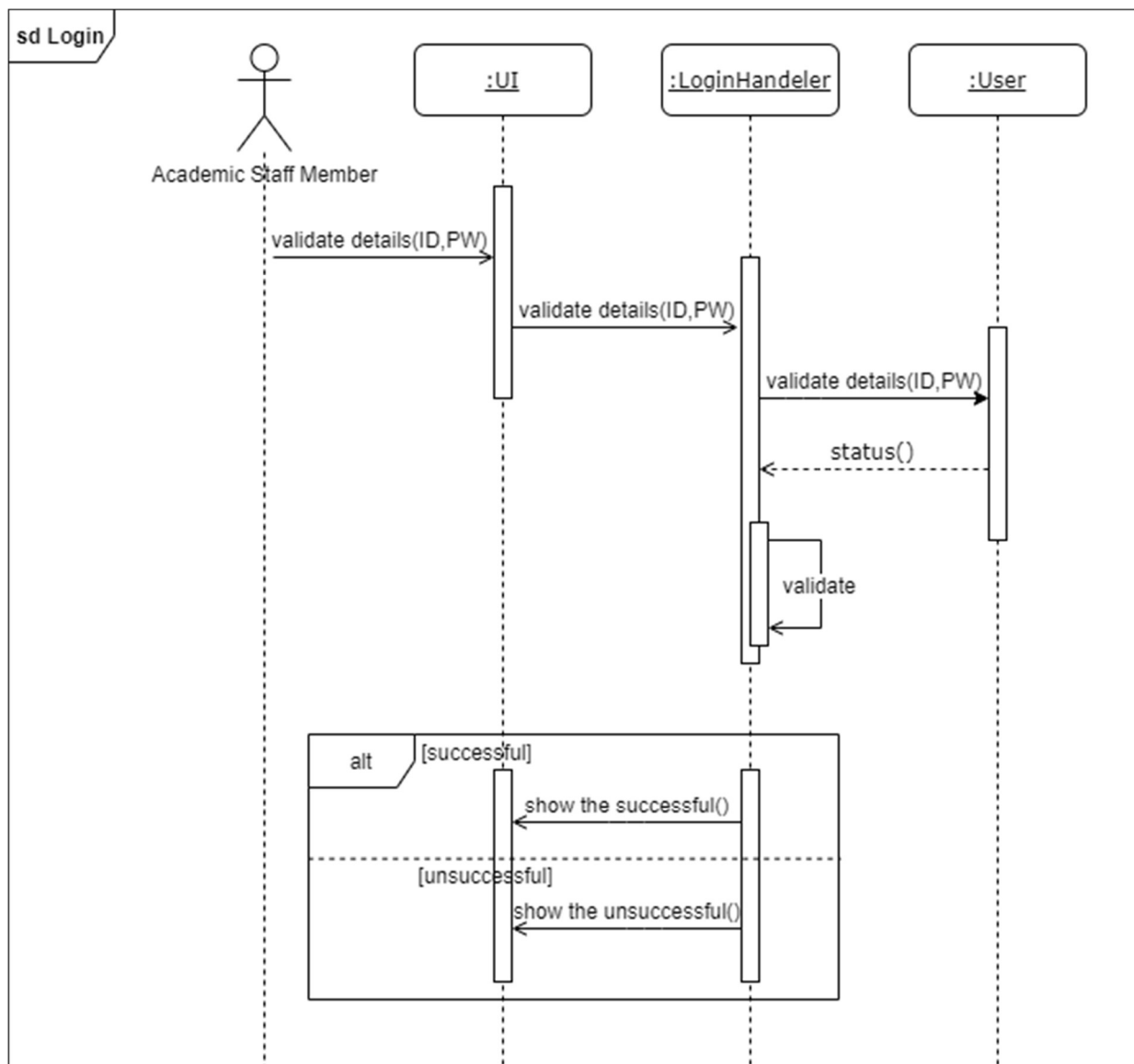
IT19043524 – Use case Scenario (CONDUCTING EXAMS)

Number	4 (IT19043524)	
Name	Conducting Exams	
Summary	Academic Staff Member add exams and generate the results.	
preconditions	Academic Staff Member has to login to the system.	
Post conditions	Generate the result of the student.	
Primary Actor(s)	Academic Staff Member	
Main Scenario	Step	Action
	1	Academic Staff Member enters the system.
	2	Enters his credentials and logs into the system.
	3	Academic Staff Member add exam papers to the system.
	4	For each student enters the system and need to answering all the subject questions.
	5	Then system will generate the result.
	6	Show the results to the student.
	7	If student request a result sheet, then the system will generate a result sheet and show to the student.
Extensions	Step	Branching Action
	6.	
	(a)	If student pass the subject show the grades.
	(b)	If student fail the subject show the reattempt message.

IT19043524 - Sequence Diagram (CONDUCTING EXAMS)

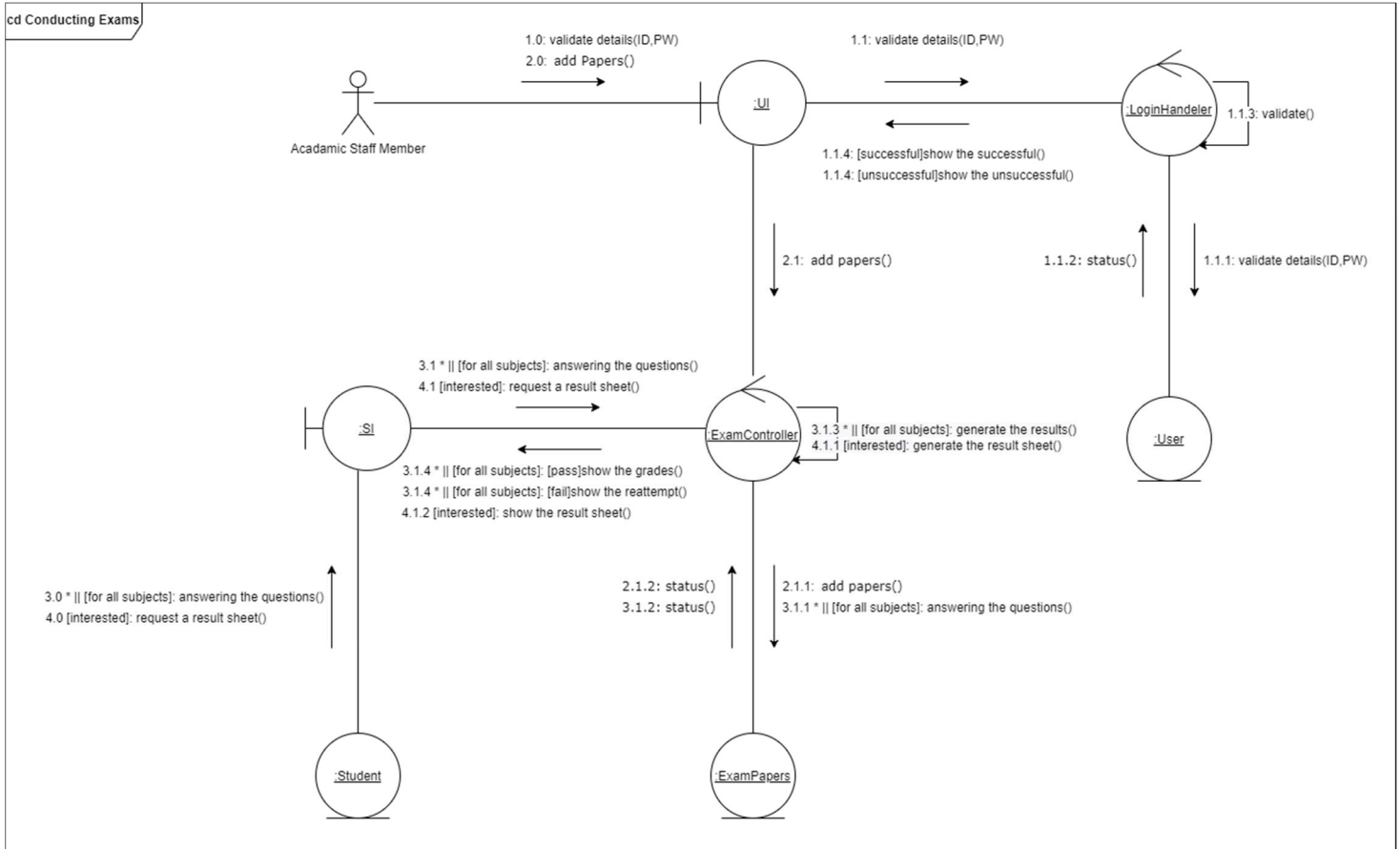


Sequence Diagram “LOGIN” for “Conducting Exams” SD’s REF tag



IT19043524 - Communication Diagram (LOGIN + CONDUCTING EXAMS)

NOTE: LOGIN Communication Diagram is already merged into the diagram.



CONTRIBUTION

Reg. No	Name	Contribution
IT19043456	Kulatilake T. T (LEADER)	<p>“Add Student Details”</p> <ul style="list-style-type: none"> Sequence Diagram <ul style="list-style-type: none"> LOOP x 1 REF x 1 ALT x 1 BREAK x 1 PAR x 1 OPT x 1 Communication Diagram <ul style="list-style-type: none"> Total 18 messages (Including sub messages and login) <p>Work completed (within) :- 2 days Contribution Percentage :- 100%</p>
IT19040318	DeSilva U. S. C	<p>“Add Academic Staff Details”</p> <ul style="list-style-type: none"> Sequence Diagram <ul style="list-style-type: none"> REF x 3 ALT x 2 LOOP x 1 OPT x 1 Communication Diagram <ul style="list-style-type: none"> Total 57 messages (Including sub messages, login and 2 separate Communication Diagrams for REF tags) <p>Work completed (within) :- 2 days Contribution Percentage :- 100%</p>

IT19011226	Kosala D. K. K	<p>“Add Non-Academic Staff Details”</p> <ul style="list-style-type: none"> • <i>Sequence Diagram</i> <ul style="list-style-type: none"> - REF x 1 - LOOP x 1 - ALT x 1 - PAR x 2 - OPT x 1 • <i>Communication Diagram</i> <ul style="list-style-type: none"> - Total 38 messages. - (Including sub messages and login) <p>Work completed (within) :- 2 days Contribution Percentage :- 100%</p>
IT19043524	Deemud G. H. K	<p>“Conducting Exams”</p> <ul style="list-style-type: none"> • <i>Sequence Diagram</i> <ul style="list-style-type: none"> - LOOP x 1 - REF x 1 - ALT x 1 - OPT x 1 • <i>Communication Diagram</i> <ul style="list-style-type: none"> - Total 22 messages - (including sub messages and login) <p>Work completed (within) :- 2 days Contribution Percentage :- 100%</p>