Academic Year – 2022-23

Class: F.Y.MCA   Semester: I   Subject: **Software Engineering Lab**

Subject In charge: Nikhita Mangaonkar   Course Code**:** MC503

EXPERIMENT NO: 04

EXPERIMENT TITLE: Draw the behavioral view diagram : Activity diagram and sequence

Objective:

1. To design an Activity Diagram.
2. To identify and implement activity diagram notations from a given case study.
3. To implement activity diagram specification.

4. To design a Sequence Diagram.

5. To identify and implement sequence Diagram notations from a given case study.

6. To implement Sequence Diagram specification

DATE TURN 1:   **DATE TURN 2:**

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PRACTICAL EVALUATION:

PI1: On Time	PI2:Performance	PI3: Documentation	PI5 : Lab Ethics	Marks Per Experiment
0.5	3	1	0.5	5

ACTIVITY DIAGRAM & SPECIFICATION

Step	User	Server	Business Rules
1	Login		BR_1
2		Validate Details	BR_2
3	Search		BR_3
4	Display data		BR_4
5	Display profile		BR_5
6		Fetch and display data from the database for search and display.	BR_6
7	Display error message		BR_7
8	Delete data		BR_8
9	Update data		BR_9
10	Add data		BR_10
11	Register for notifications		BR_11
12		Update system	BR_12

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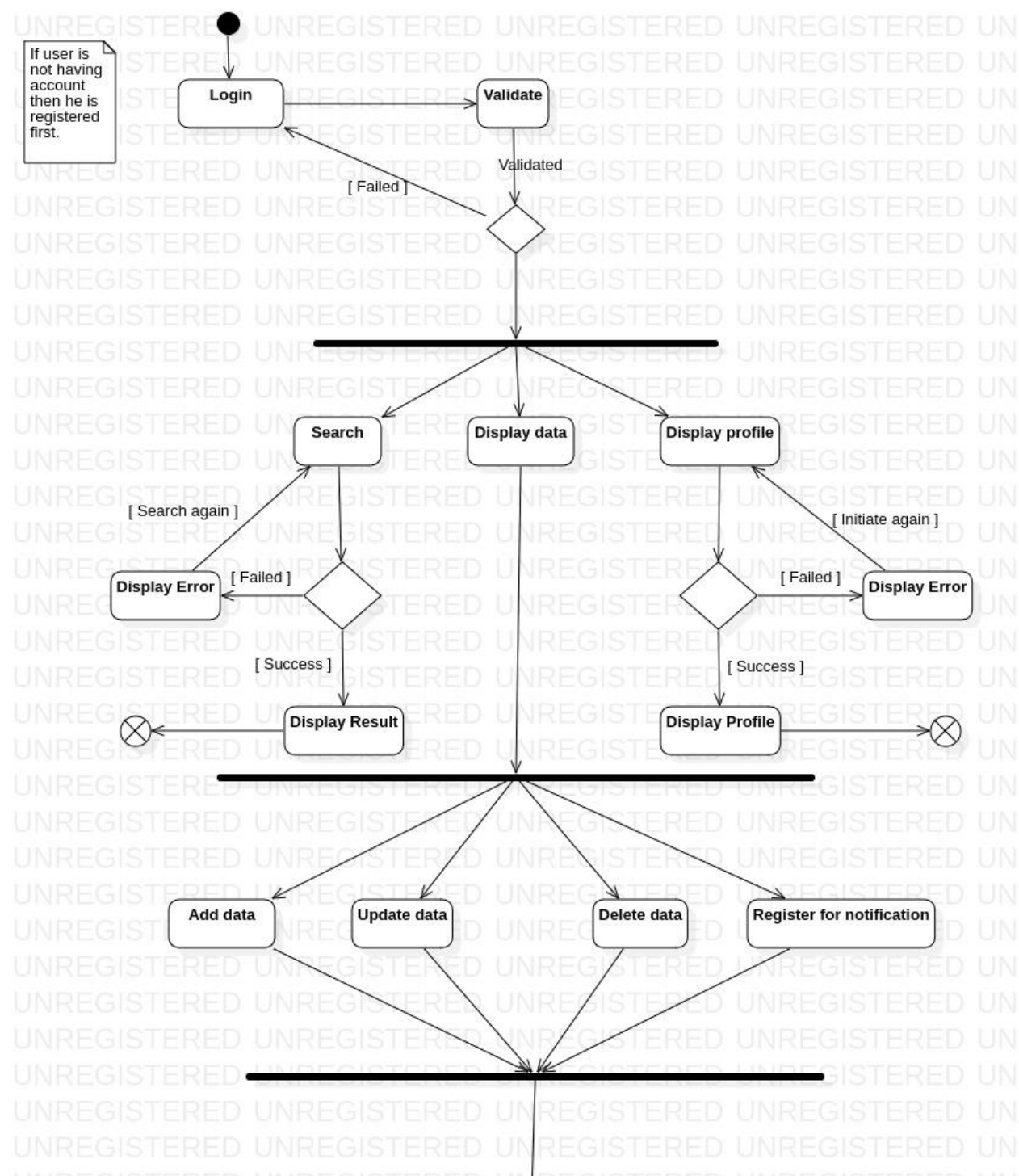| BR_id	Business Rules	Business Rule description
BR1	Login, Register	Mandatory username or email password
BR_2	Validate User	Validate details stored in the database or if registering then check if username and password are following conventions.
BR_3	Search	Search data in database
BR_4	Display profile	Fetch data from database
BR_5	Display data	Fetch and display data from the database.
BR_6	Fetch data from database	Fetch and display data from the database
BR_7	Display error message	Show an error message if something goes wrong while fetching data from the database.
BR_8	Delete data	Delete data from database

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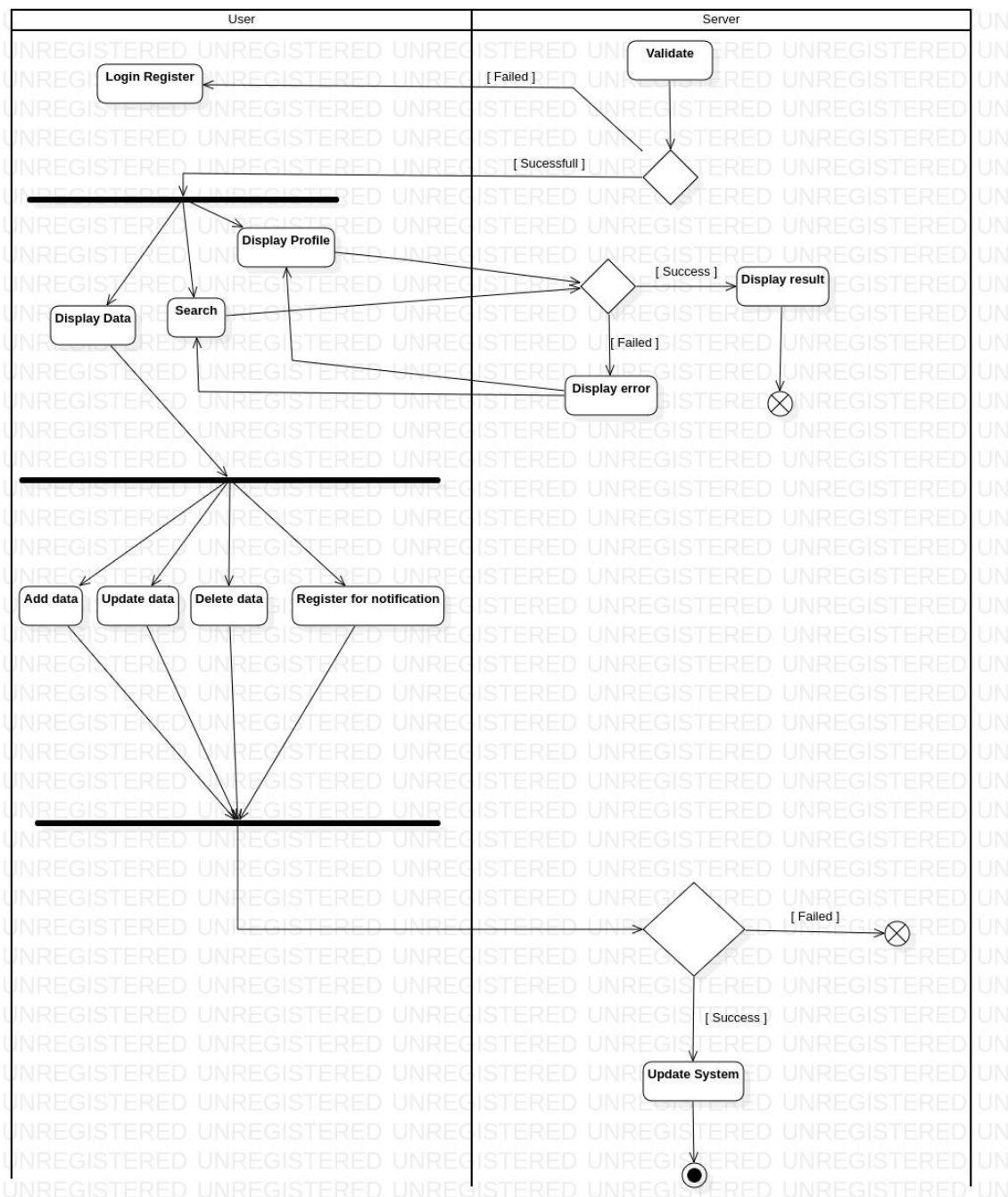| BR_9	Update data	Update values of particular data in the database.
BR_10	Add data	Add new data to the database.
BR_11	Register for notifications	Client is registered and browser client key is sent to server and sent for respective user.
BR_12	Update System	Update the system while adding, deleting and updating data.

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Academic Year – 2022-23

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ADD SEQUENCE DIG & SPECIFICATION
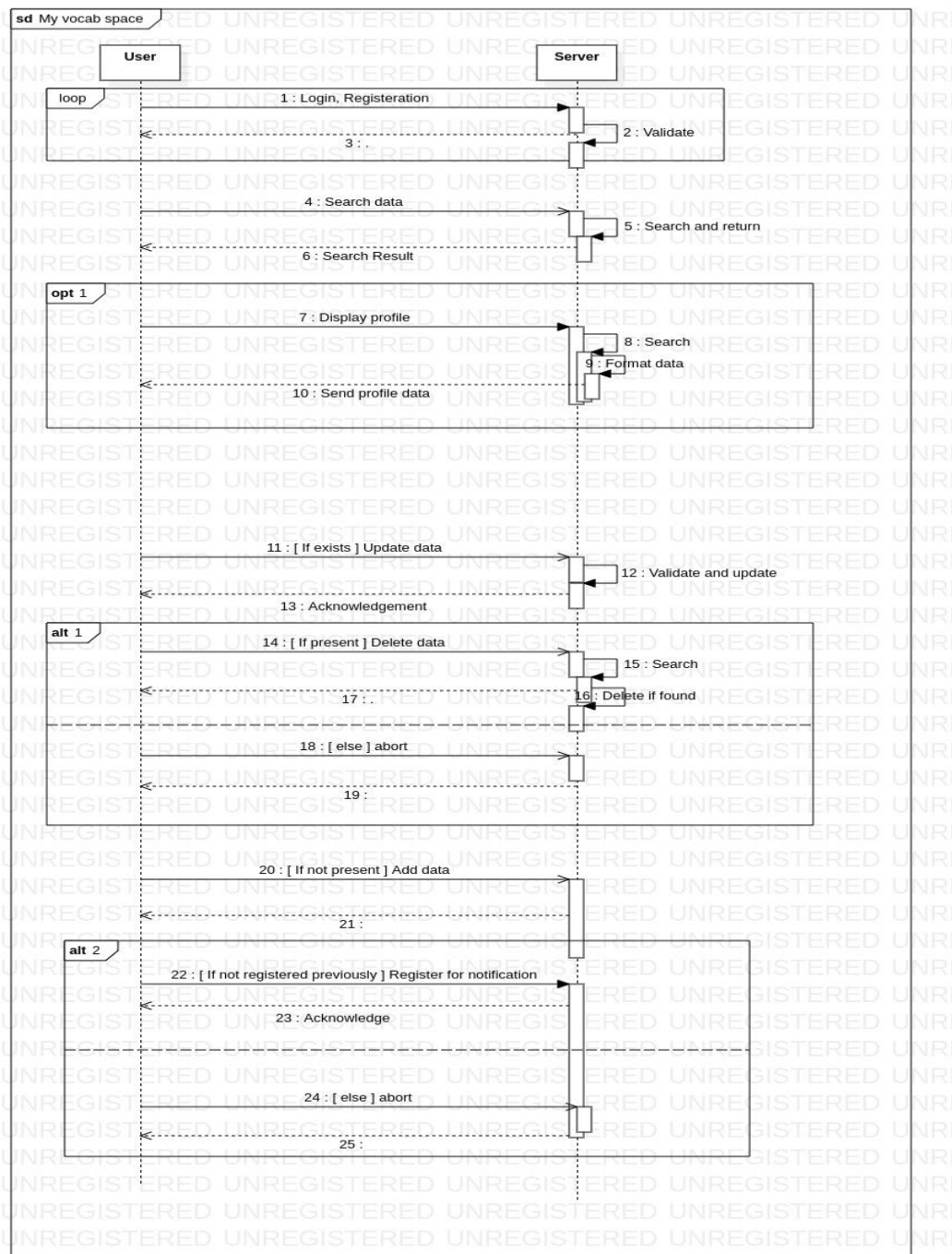
Academic Year – 2022-23

Class: F.Y.MCA   Semester: I   Subject: **Software Engineering Lab**

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Academic Year – 2022-23

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Specification for Sequence Diagram

Sr.No.	Articrafts	Description
1	Objects	User, Server
2	Synchronous messages	Login ,Registration and register for notification.
3	Asynchronous messages	Search data, display profile, update data, Delete data, Add data.
4	Guard	1. If exists then update data 2. if exists then delete data 3. if data does not exist then add new data. 4. if not registered previously then register for notification.
5	Types of frames	loop, alt, opt
6	Actors	User, Server
7	Self loop	1. Validate credentials. 2. Search and return data 3. Search 4. format data

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		5. validate and update 6. search and delete 7.