Class: F.Y.MCA   **Semester: I AY2425**   **Subject: Software Engineering Lab**

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

ROLL NO.: 2024510001   **BATCH: A**
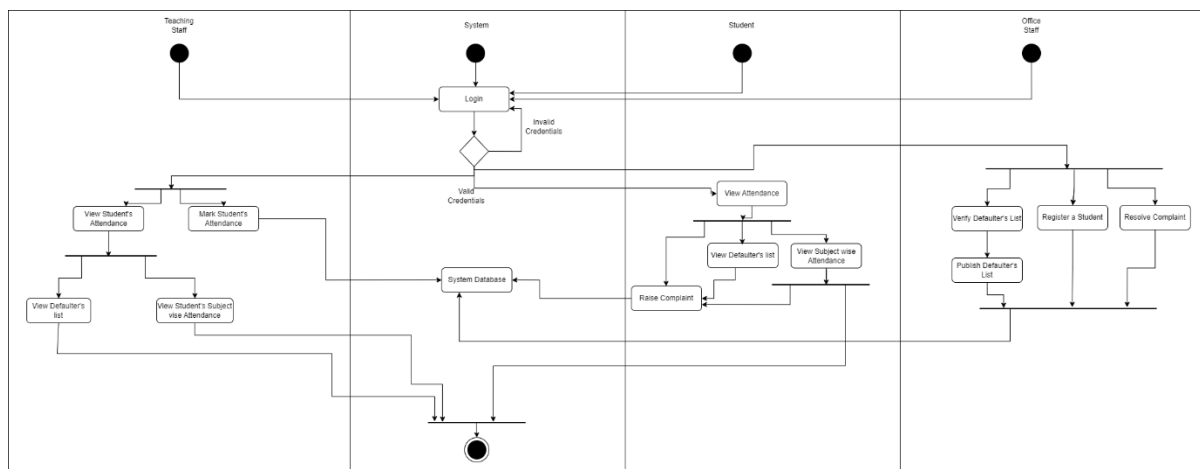
NAME: Atharva Vasant Angre

EXPERIMENT NO: 04

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

Objective:

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

4. To design Sequence Diagram.

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

6. To implement Sequence Diagram specification

ACTIVITY DIAGRAM SPECIFICATION

For Student

Step	Student	System	Business Rules
1	Login		BR_1
2		Validate Student Details	BR_2
3	View Attendance		
4	View Subject wise Attendance		
5	View Defaulter's List		
6	Raise a complaint		BR_3
7		Store complaint it in the	BR_4

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		Database	

ID	Business Rules	Business Rule description
BR_1	Login	Enter Email and Password.
BR_2	Validate Student Details	Check if the entered email and password is valid. If not go to BR_1.
BR_3	Raise a complaint	If take the complaint input.
BR_4	Store it in the Database	Store complaint it in DB.

For Teaching Staff

Step	Teaching Staff	System	Business Rules
1	Login		BR_1
2		Validate Teaching Staff Details	BR_2
3	View Student Attendance		
4	Mark Student's Attendance		BR_3
5	View Student subject wise Attendance		
6	View Defaulter's List		

ID	Business Rules	Business Rule description
BR_1	Login	Enter Email and Password.
BR_2	Validate Teaching Staff Details	Check if the entered email and password are valid. If not, go to BR_1.
BR_3	Mark Student's Attendance	Allow input for marking attendance and update the database.

For Office Staff

Step	Office Staff	System	Business Rules
1	Login		BR_1
2		Validate Office Staff Details	BR_2
3	Verify Defaulter's List		
4	Publish Defaulter's List		
5		Store it in Database	BR_3
6	Register a student		BR_4
7	Resolve Complaint		BR_5

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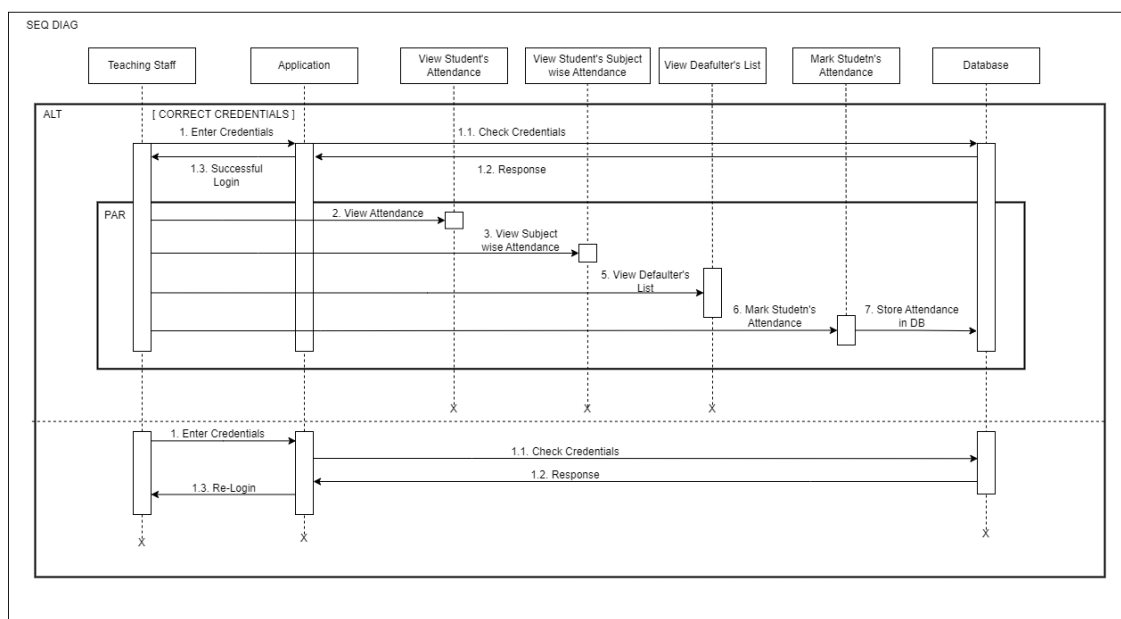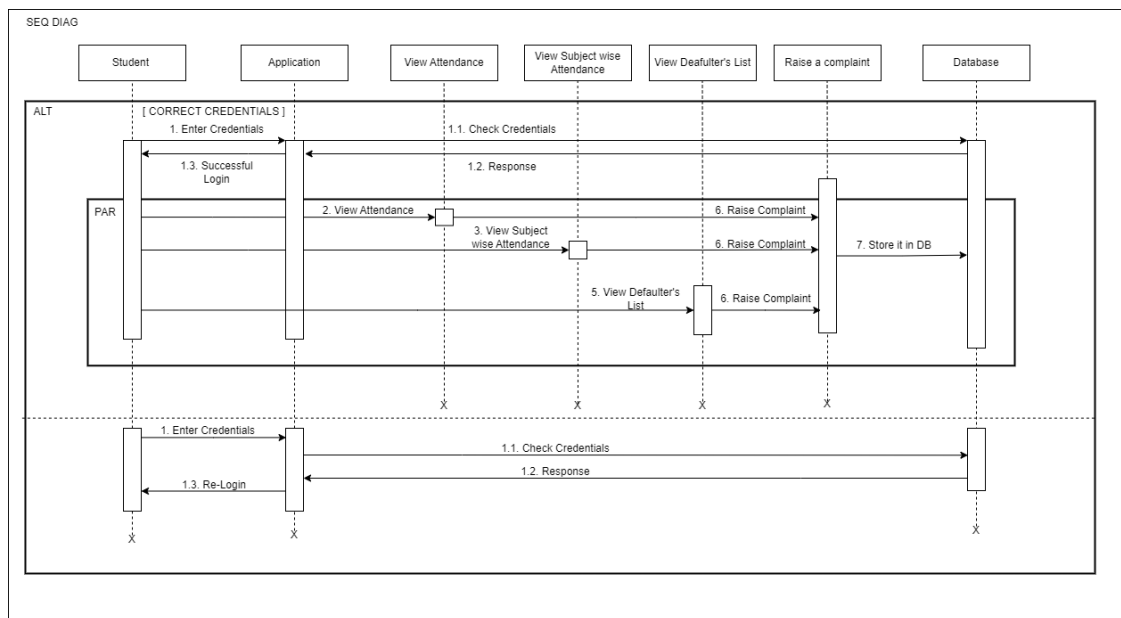**Class: F.Y.MCA**   **Semester: I AY2425**   **Subject: Software Engineering Lab**

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ID	Business Rules	Business Rule description
BR_1	Login	Enter Email and Password.
BR_2	Validate Teaching Staff Details	Check if the entered email and password are valid. If not, go to BR_1.
BR_3	Store it in the Database	Save the published defaulter's list in the database.
BR_4	Register a student	Allow input for new student registration and update the database.
BR_5	Resolve Complaint	Process the complaint and update its status in the database.

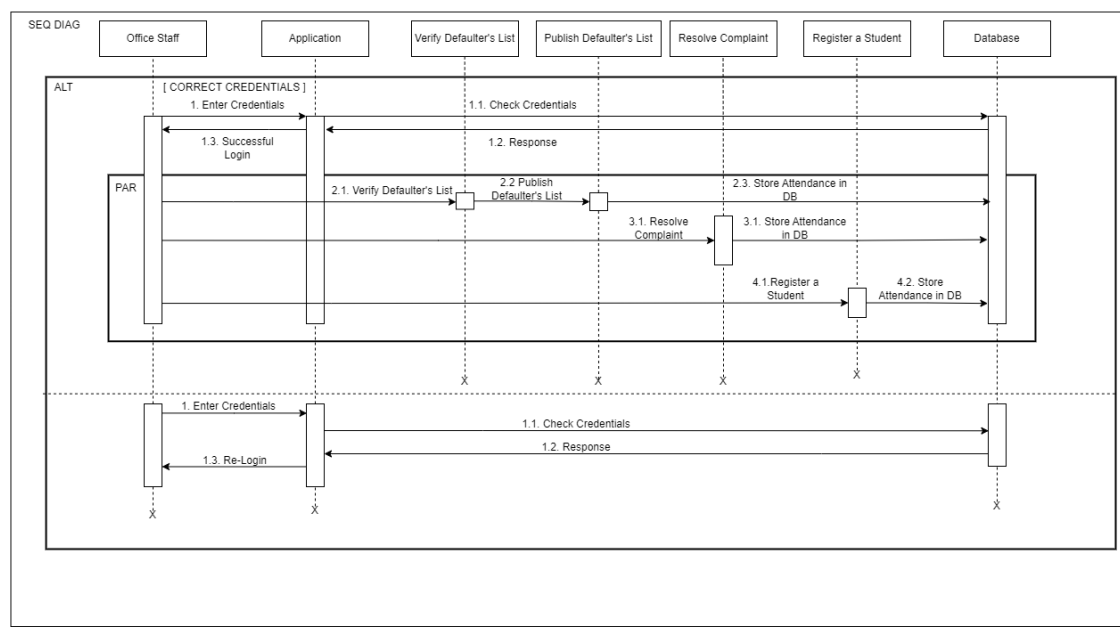## ADD SEQUENCE DIG & SPECIFICATION

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Specification for Sequence Diagram

For Student

Sr.No.	Articrafts	Description
1	Objects	Student, Application, View Attendance, View Subject-wise Attendance, View Defaulter's List, Raise a Complaint, Database
2	Synchronous messages	Enter Credentials → Check Credentials, Check Credentials → Response, View Attendance → Response, Raise Complaint → Store in DB
3	Asynchronous messages	
4	Guard	[CORRECT CREDENTIALS], [INCORRECT CREDENTIALS]
5	Types of frames	ALT (Alternative) and PAR (Parallel)
6	Actors	Student, Application
7	Self loop	

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For Teaching Staff

Sr.No.	Articrafts	Description
1	Objects	Teaching Staff, Application, View Student's Attendance, View Student's Subject-wise Attendance, View Defaulter's List, Mark Student's Attendance, Database
2	Synchronous messages	Enter Credentials → Check Credentials, Check Credentials → Response, View Attendance → Response, Mark Student's Attendance → Store Attendance in DB
3	Asynchronous messages	
4	Guard	[CORRECT CREDENTIALS], [INCORRECT CREDENTIALS]
5	Types of frames	ALT (Alternative) and PAR (Parallel)
6	Actors	Teaching Staff, Application
7	Self loop	

For Office Staff

Sr.No.	Articrafts	Description
1	Objects	Office Staff, Application, Verify Defaulter's List, Publish Defaulter's List, Resolve Complaint, Register a Student, Database
2	Synchronous messages	Enter Credentials → Check Credentials, Check Credentials → Response, Verify Defaulter's List → Publish Defaulter's List, Register a Student → Store Attendance in DB
3	Asynchronous messages	
4	Guard	[CORRECT CREDENTIALS], [INCORRECT CREDENTIALS]
5	Types of frames	ALT (Alternative) and PAR (Parallel)
6	Actors	Office Staff, Application
7	Self loop	

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