Report document deliverable #3
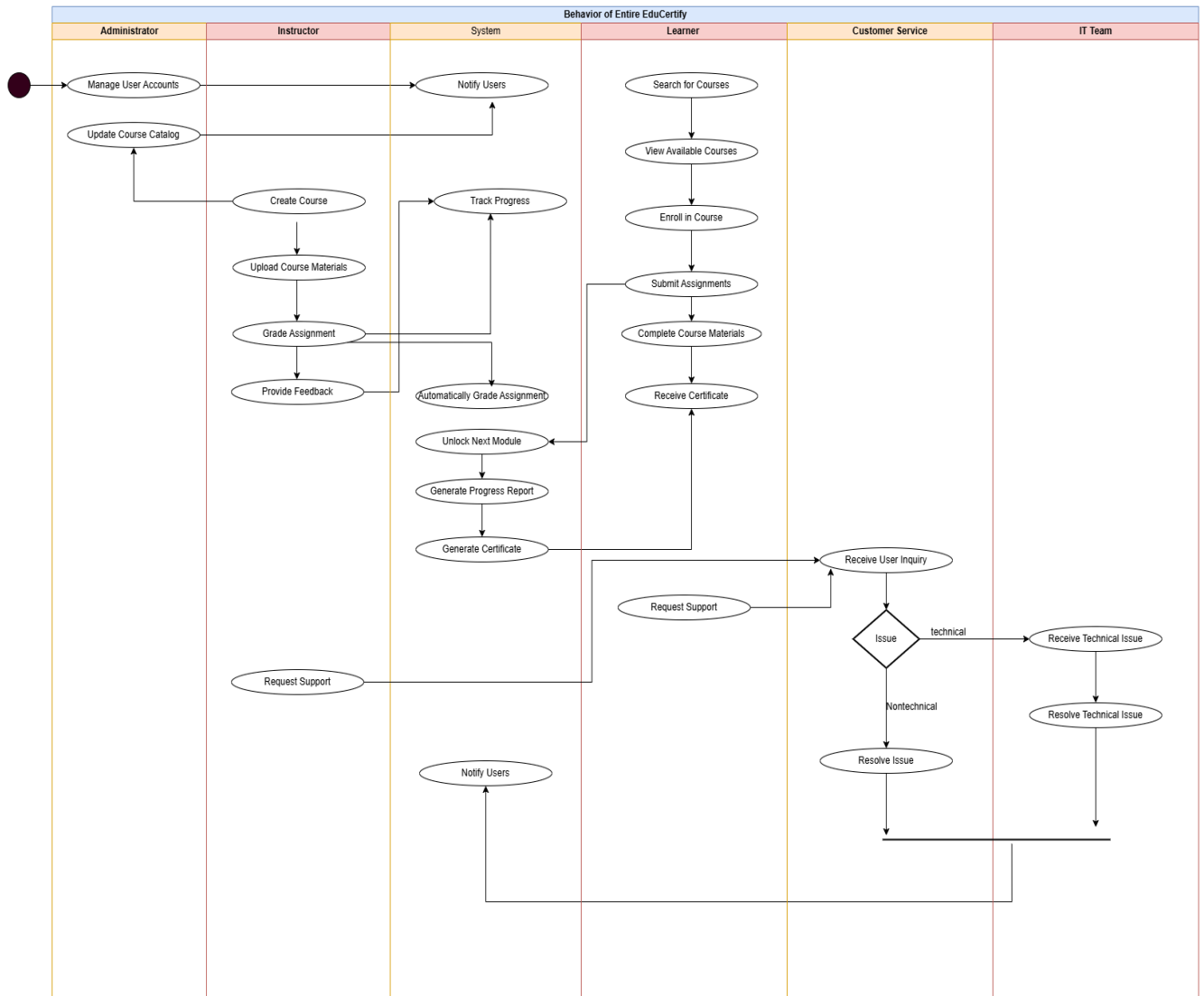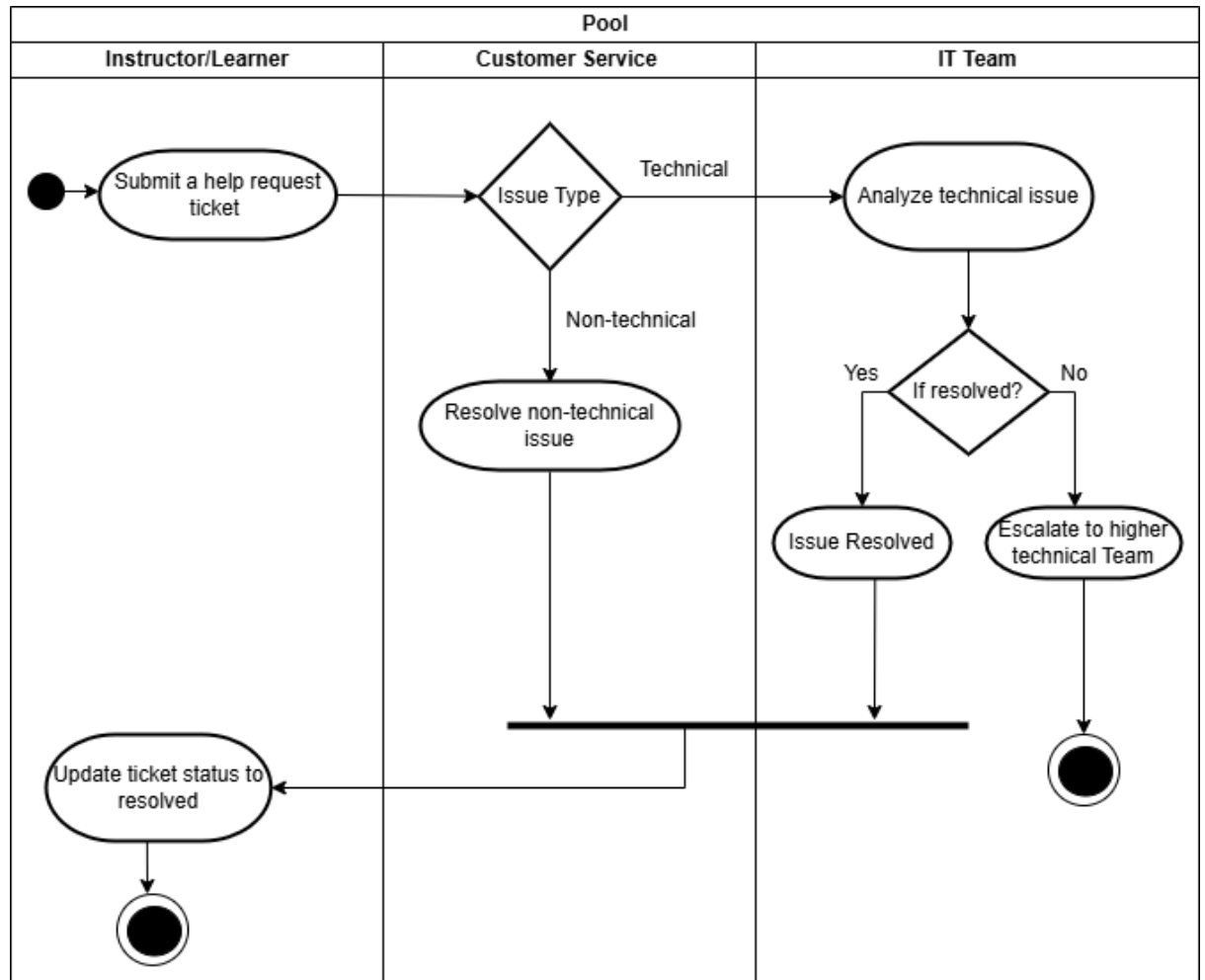
1. <u>Workflow Behavior of the Entire System</u>
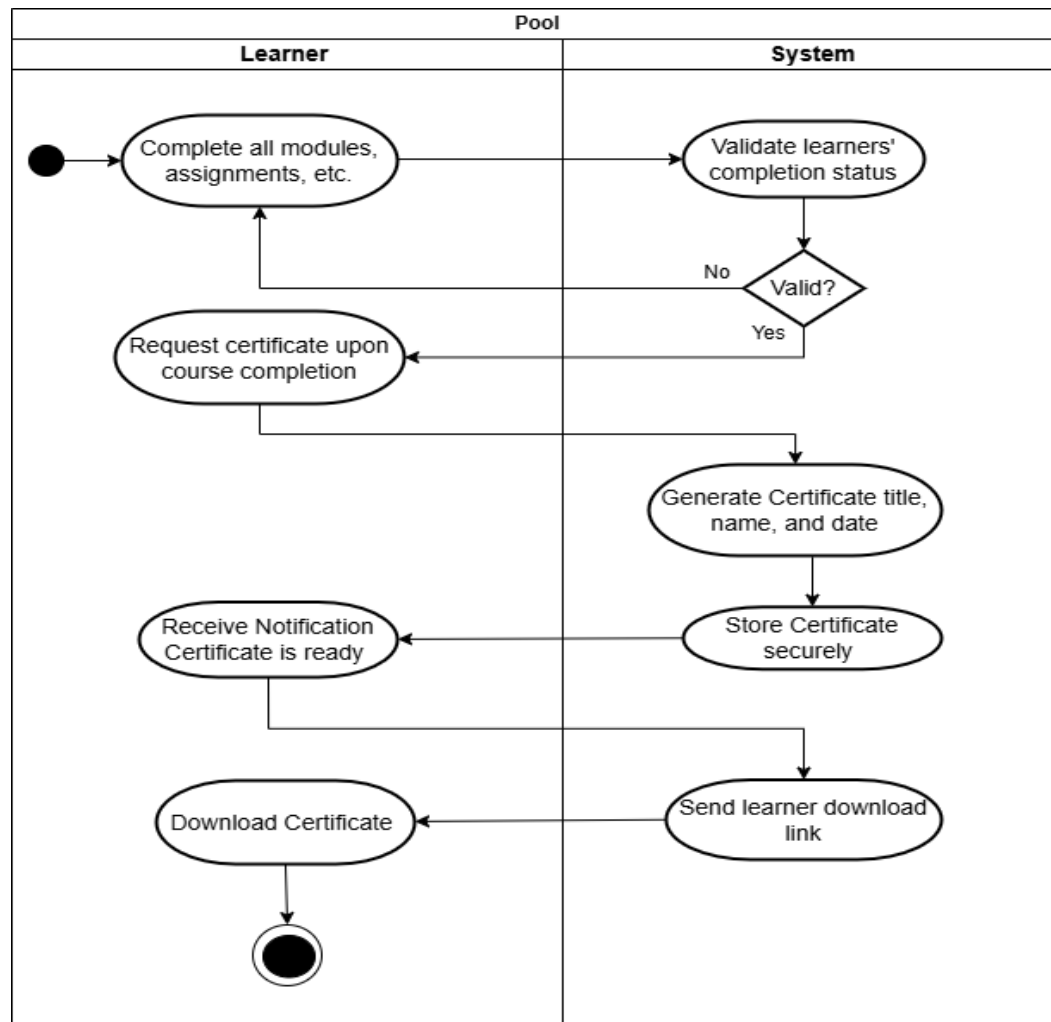
2. Activity Diagram of 3 Complex Use Cases

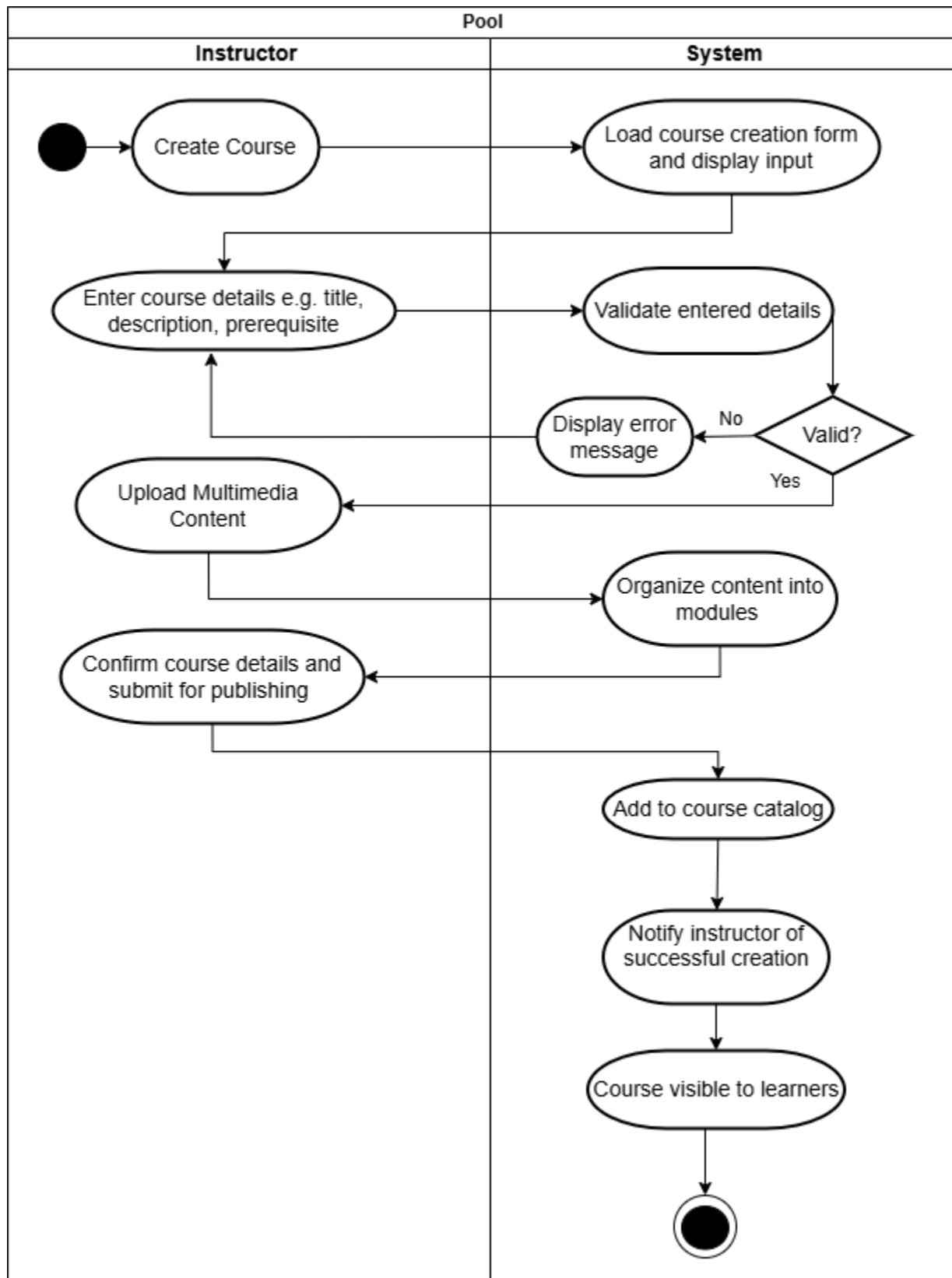a. Request Technical Support/ Respond to User Inquiries

b. Issue Certificate
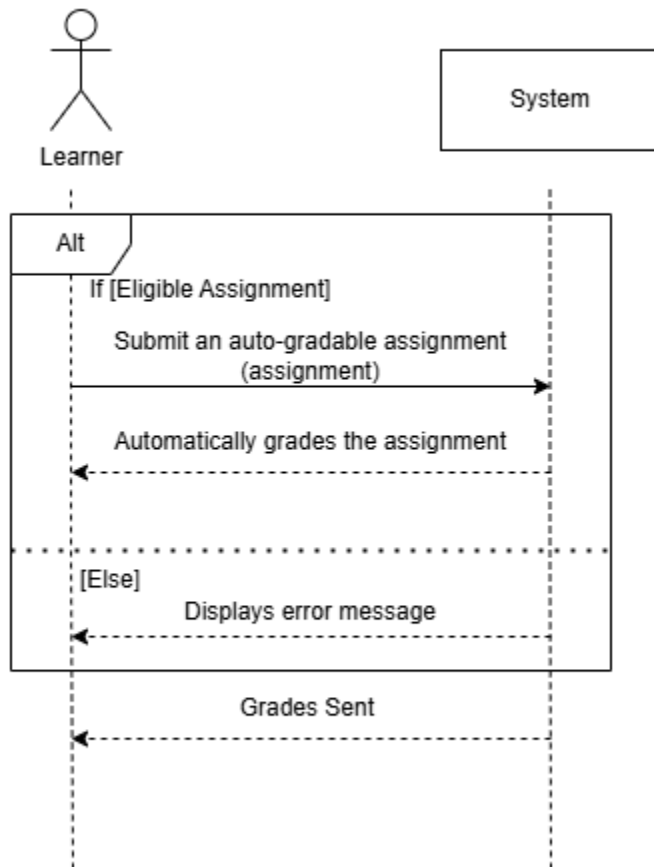
C. Create Course

Pool	
Instructor	**System**

Instructor column:
- (start) → Create Course
- Enter course details e.g. title, description, prerequisite
- Upload Multimedia Content
- Confirm course details and submit for publishing

System column:
- Load course creation form and display input
- Validate entered details
- Display error message — No
- Valid? — Yes
- Organize content into modules
- Add to course catalog
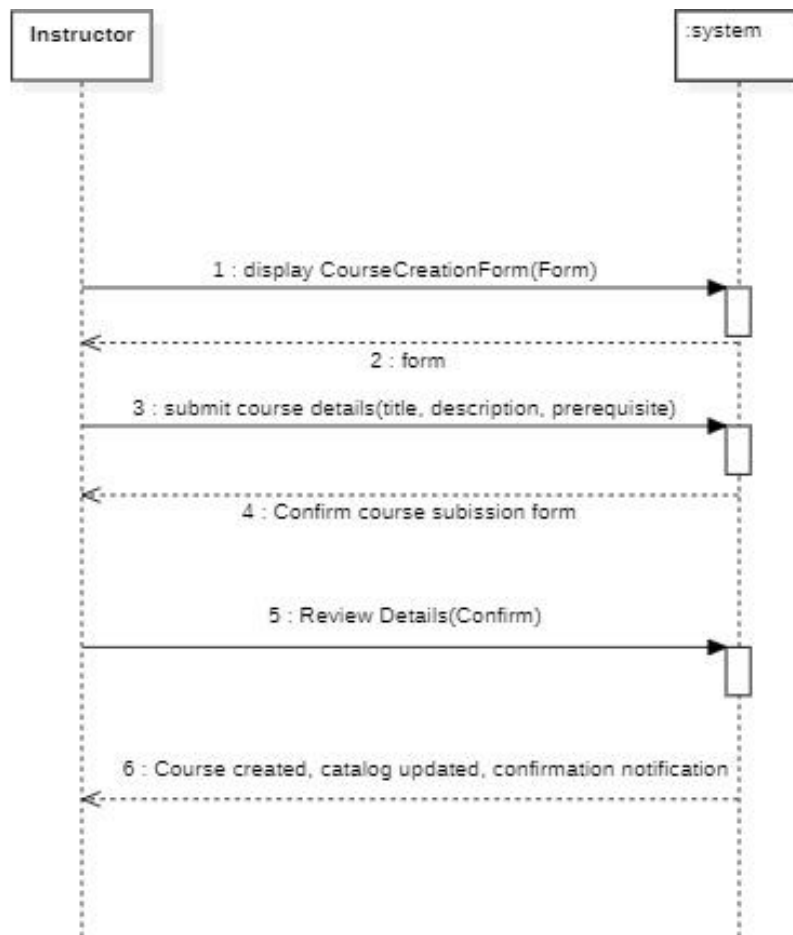- Notify instructor of successful creation
- Course visible to learners
- (end)

3. System Sequence Diagram for all Use Cases

1- Automatically Grade Assessments

2- Create Course


```
Instructor                                              :system

        1 : display CourseCreationForm(Form)
        ────────────────────────────────────────────────▶│
                                                          │
        ◀─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─
                        2 : form
        3 : submit course details(title, description, prerequisite)
        ────────────────────────────────────────────────▶│
                                                          │
        ◀─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─
              4 : Confirm course subission form


              5 : Review Details(Confirm)
        ────────────────────────────────────────────────▶│
                                                          │

        6 : Course created, catalog updated, confirmation notification
        ◀─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─
```

3- **Enroll in Course**

Enroll in Course

Learner → :System

Alt
- Search for Course(Course)
- Courselist := Available Courses Displayed

else
- no courses found

Select Course to enroll (Course)

Verification of enrollment eligibility
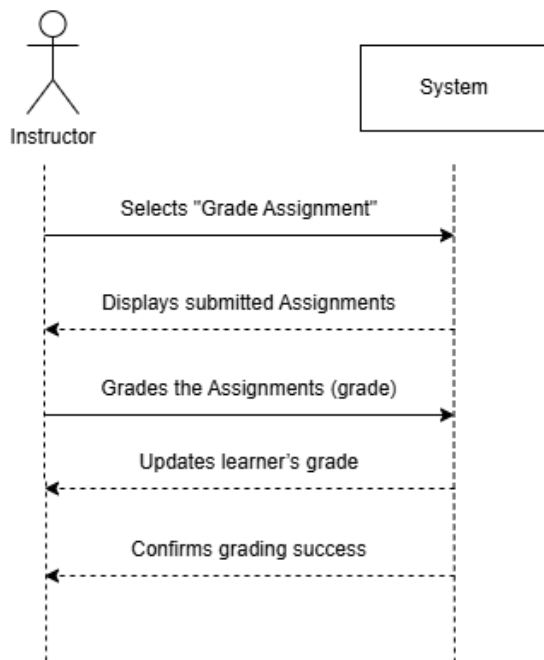
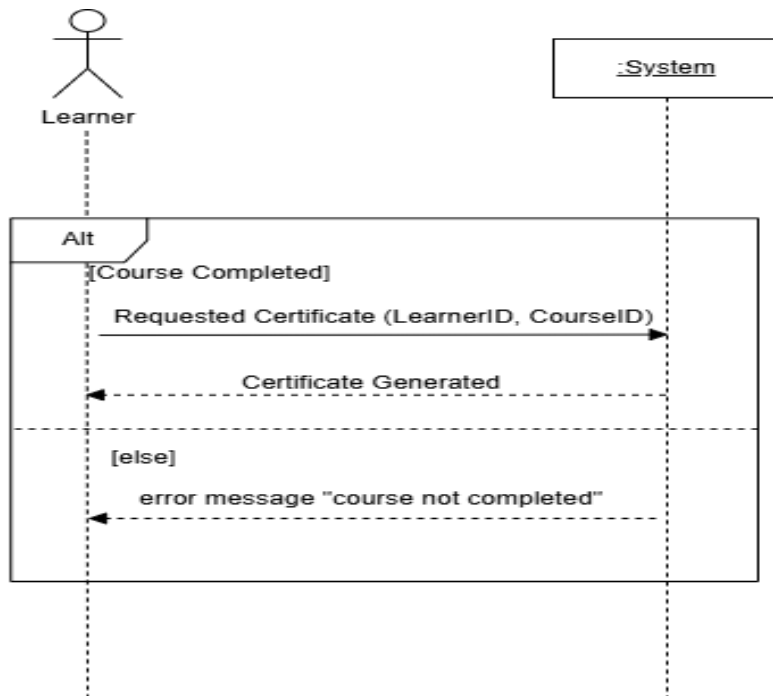Enrollment Confirmation and learner access
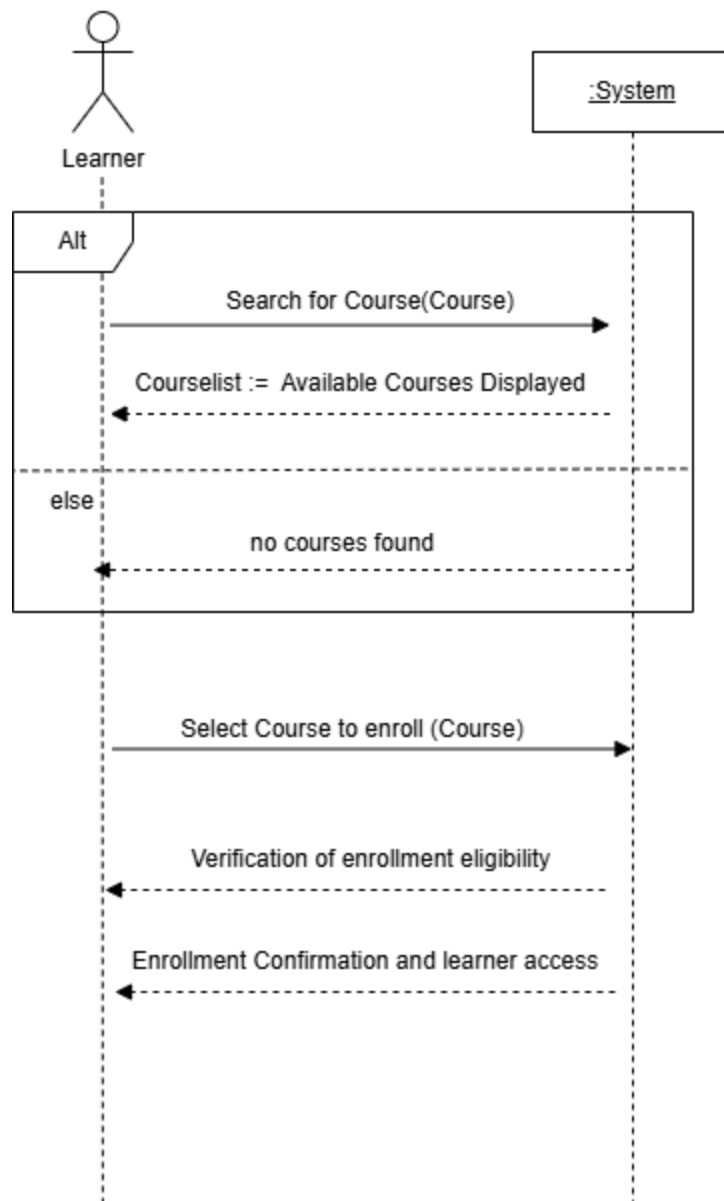
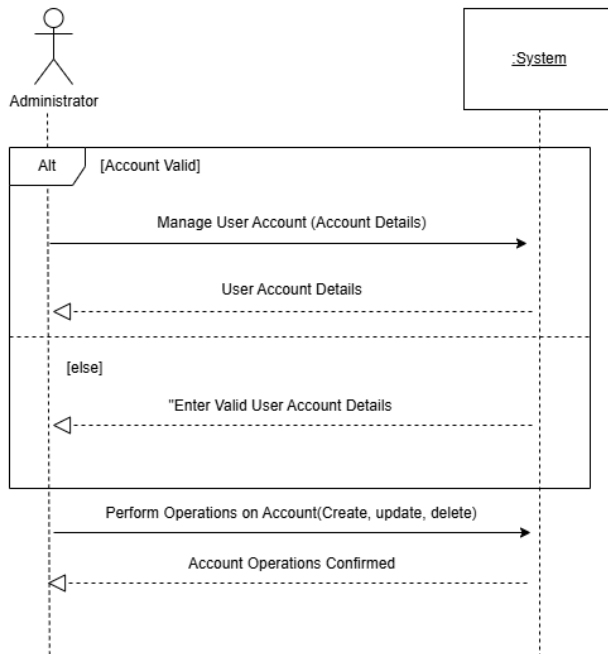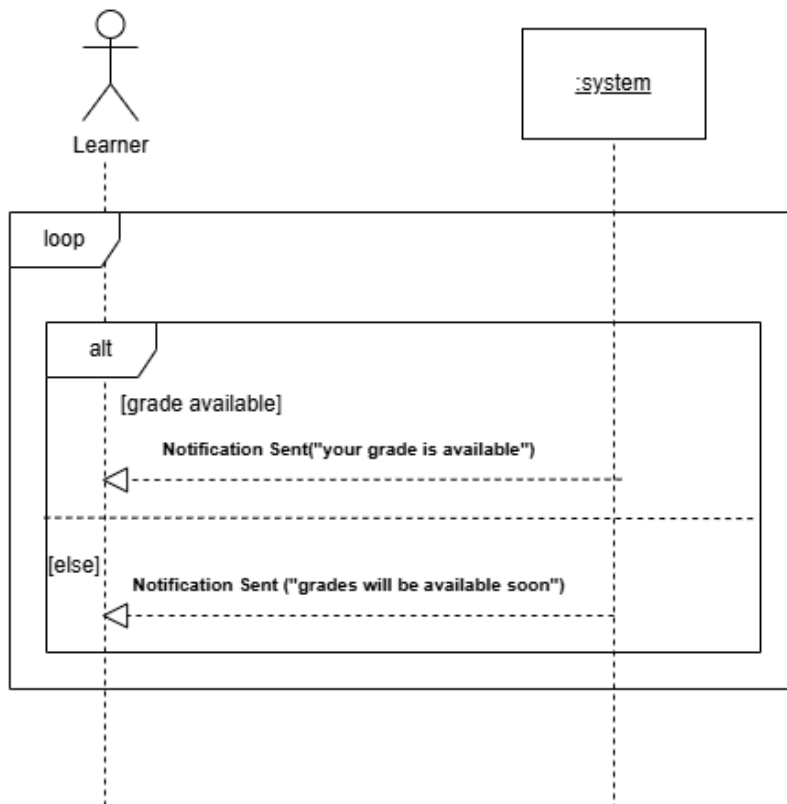## 4- Generate Progress Report
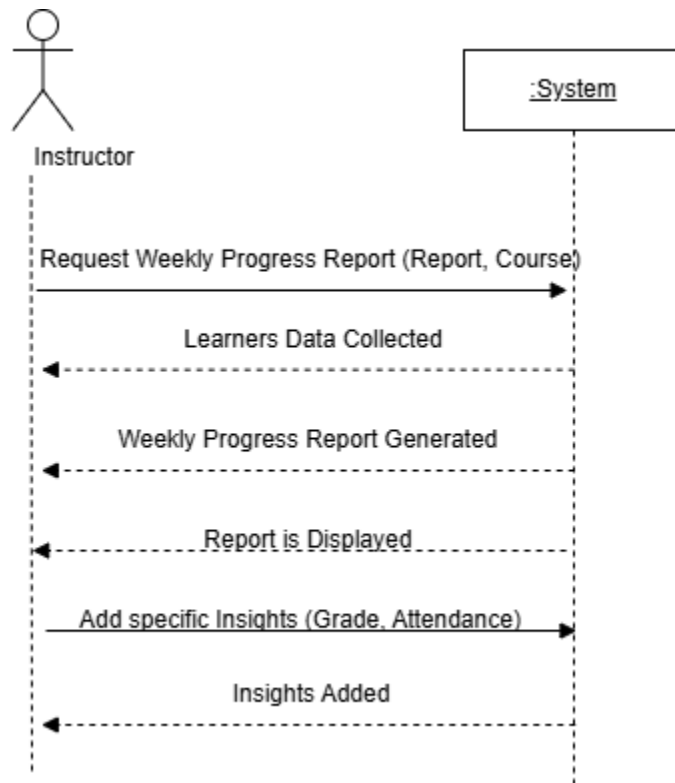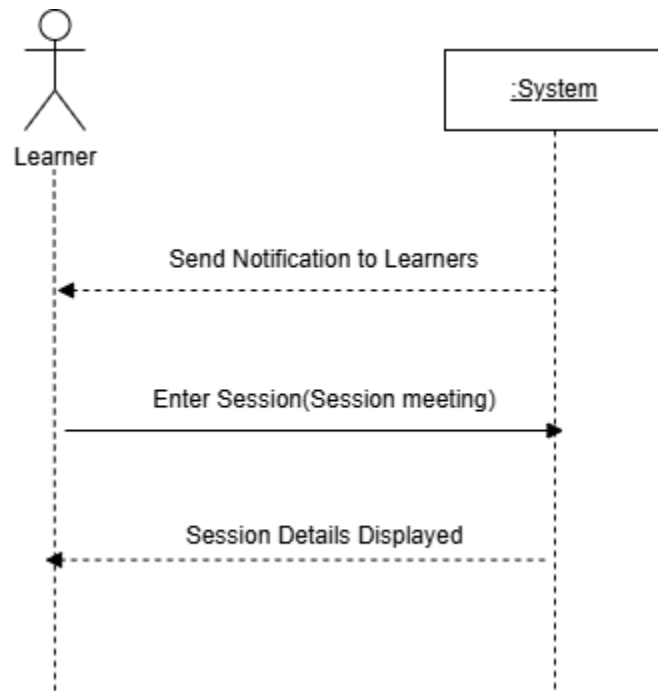
5- Grade Assessment
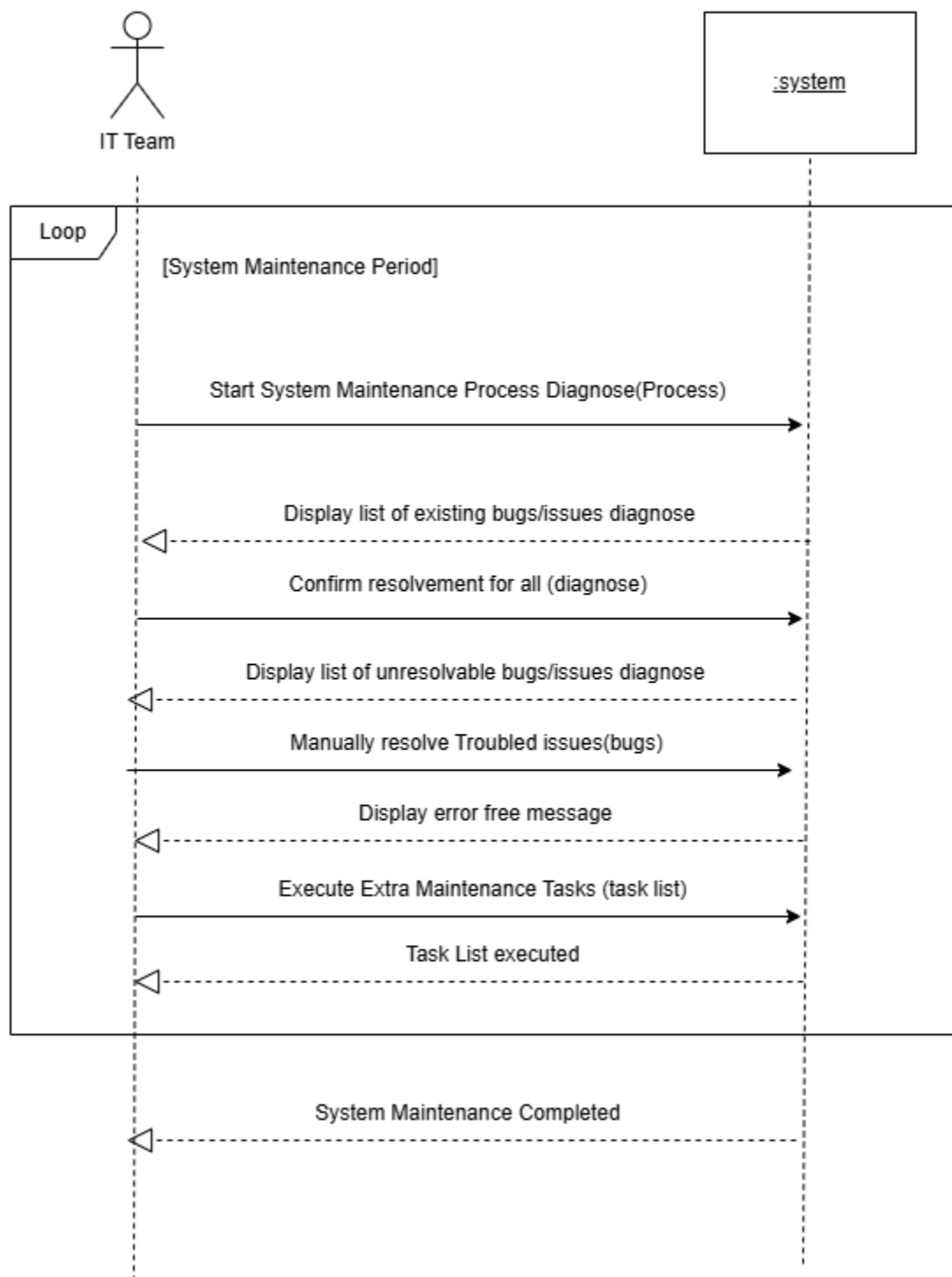

6- Issue Certificate

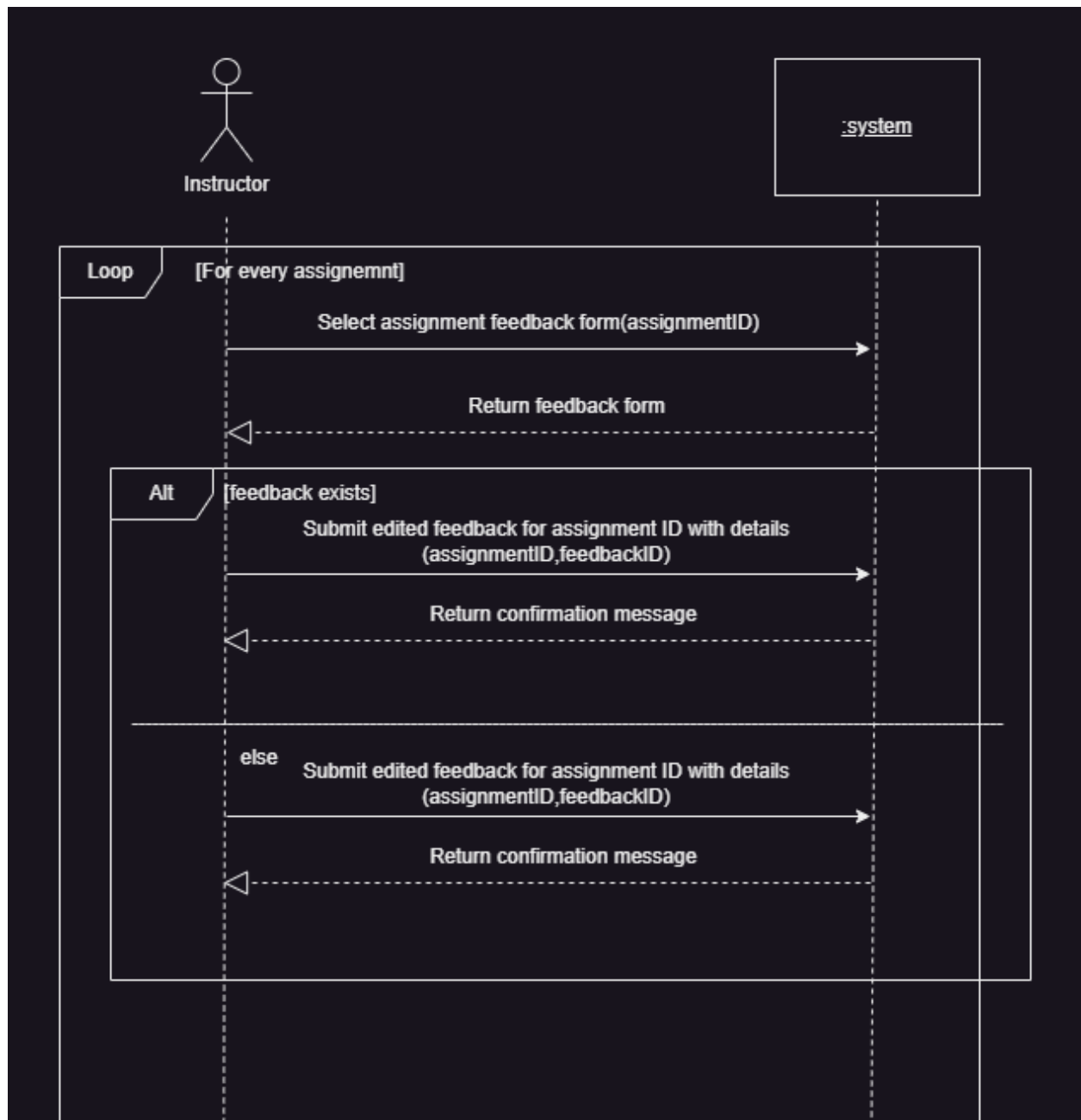## 7- Manage User Accounts

8- Notify Learners of Grades

9- **Notify Learners of Scheduled Session**

10- **Perform System Maintenance**

IT Team

:system

Loop

[System Maintenance Period]

Start System Maintenance Process Diagnose(Process)

Display list of existing bugs/issues diagnose

Confirm resolvement for all (diagnose)

Display list of unresolvable bugs/issues diagnose

Manually resolve Troubled issues(bugs)

Display error free message

Execute Extra Maintenance Tasks (task list)

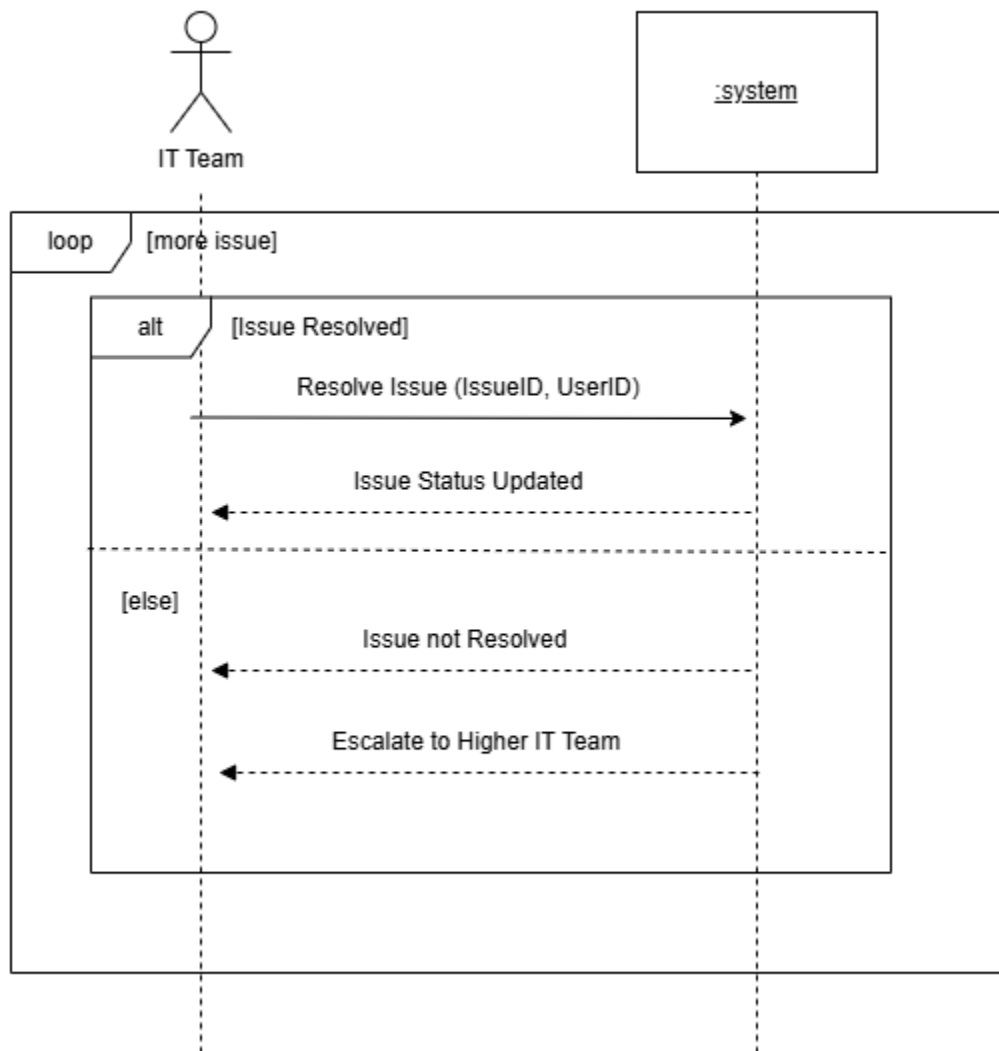Task List executed

System Maintenance Completed

11- **Provide Feedback**

12- **Request Technical Support**
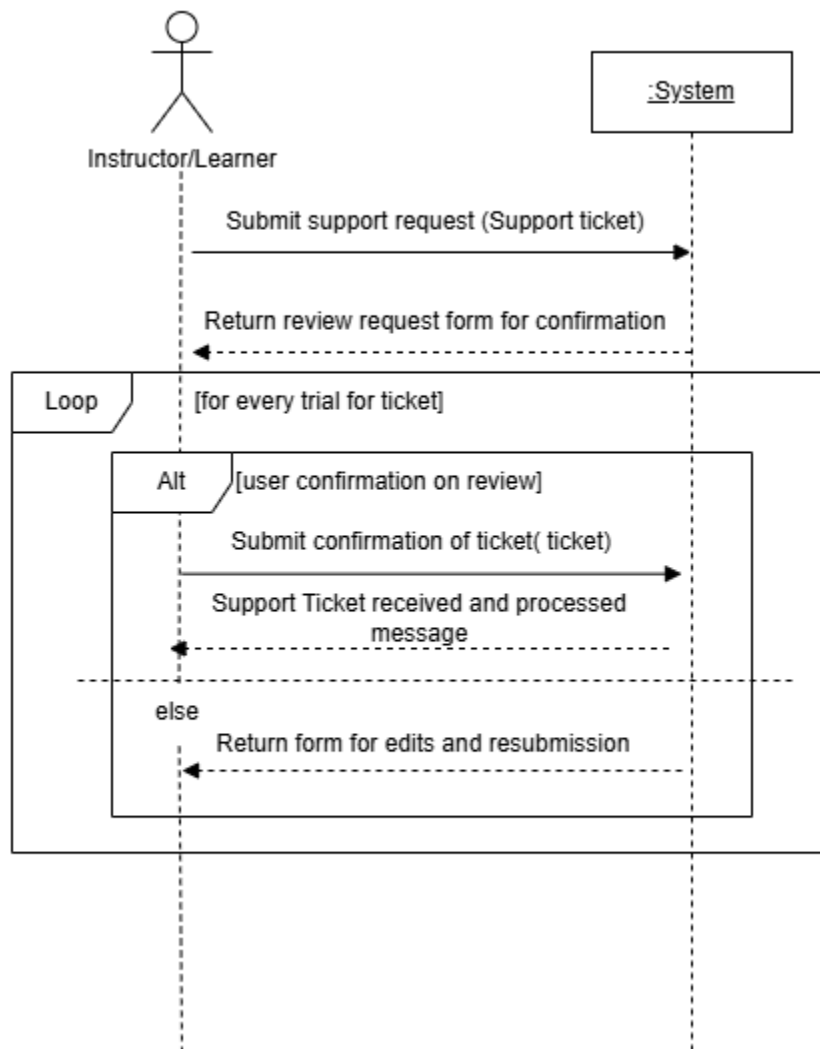
13- **Resolve Technical Issues**

14- Respond to User Inquiries

Customer Service
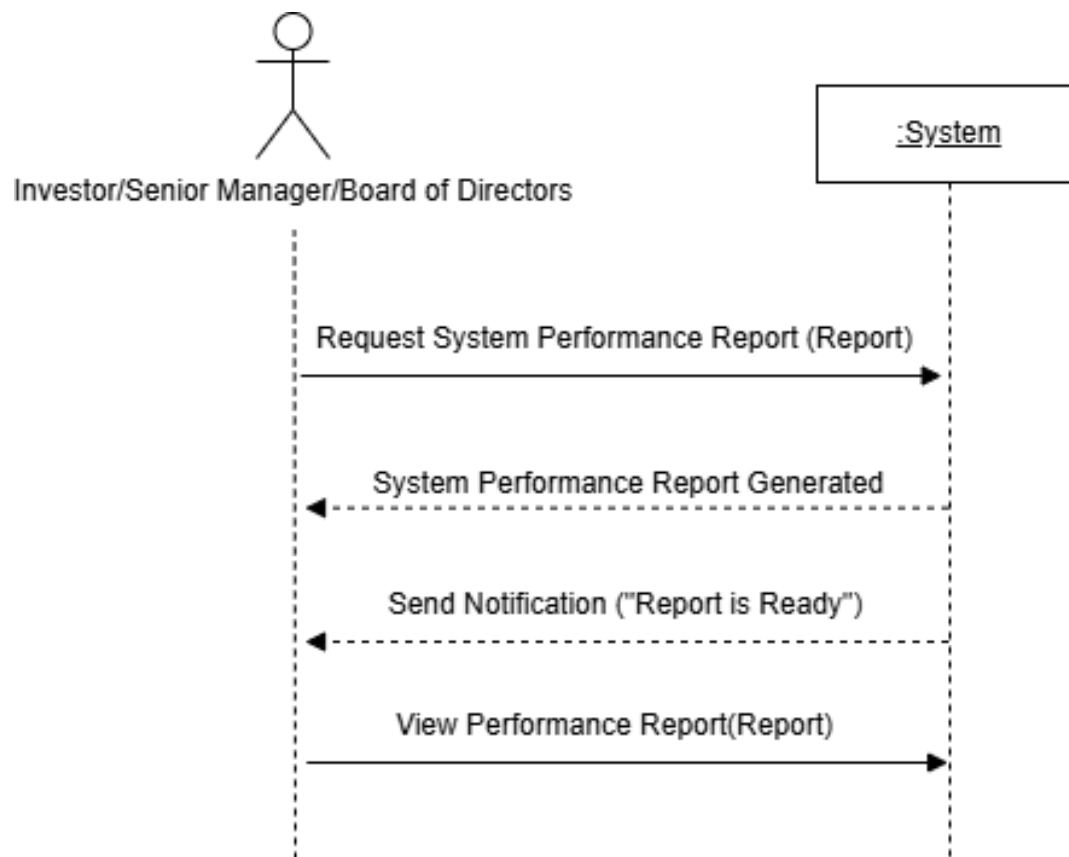
:System

Loop [for every inquiry]

Get User Inquiry (Inquiry)

Inquiry Details, UserID, InquiryID, etc

Respond and Solve Inquiry(response)

Inquiry Status Updated
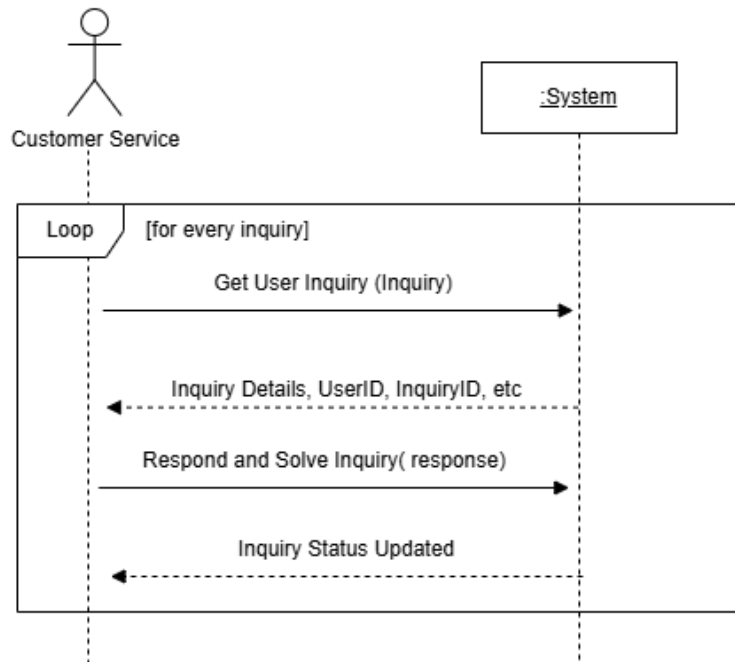
15- Review Financial Performance

Investor/Senior Manager/Board of Directors

:System

Request Financial Report (Report)

Financial Report Generated

Send Notification ("Financial Report is Ready")

View Financial Report(Report)
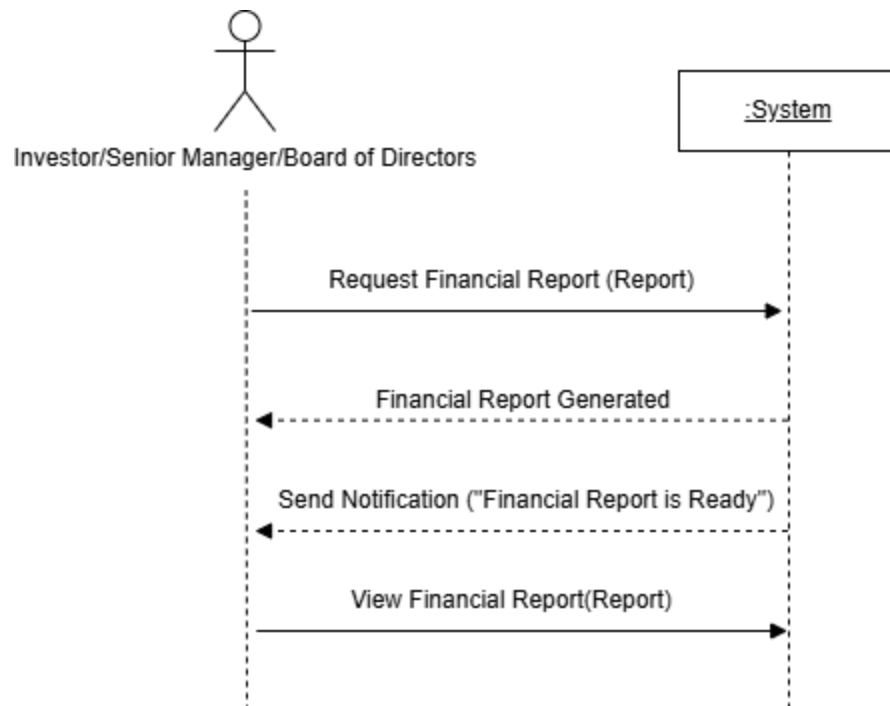
16- **Review System Performance**

Investor/Senior Manager/Board of Directors

:System

Request System Performance Report (Report)

System Performance Report Generated

Send Notification ("Report is Ready")

View Performance Report(Report)

17- **Submit Assignment**

Learner — System

Selects "Submit Assignment"

Displays submission interface

Alt

If [Submission deadline]

Uploads Assignments (Assignment)

Validates and saves the submission

[Else]

Displays late submission warning

Confirms submission success

18- Submit Final Assignment

19- **Unlock Next Module**

Learner

:System

alt   [Previous Module Completed]

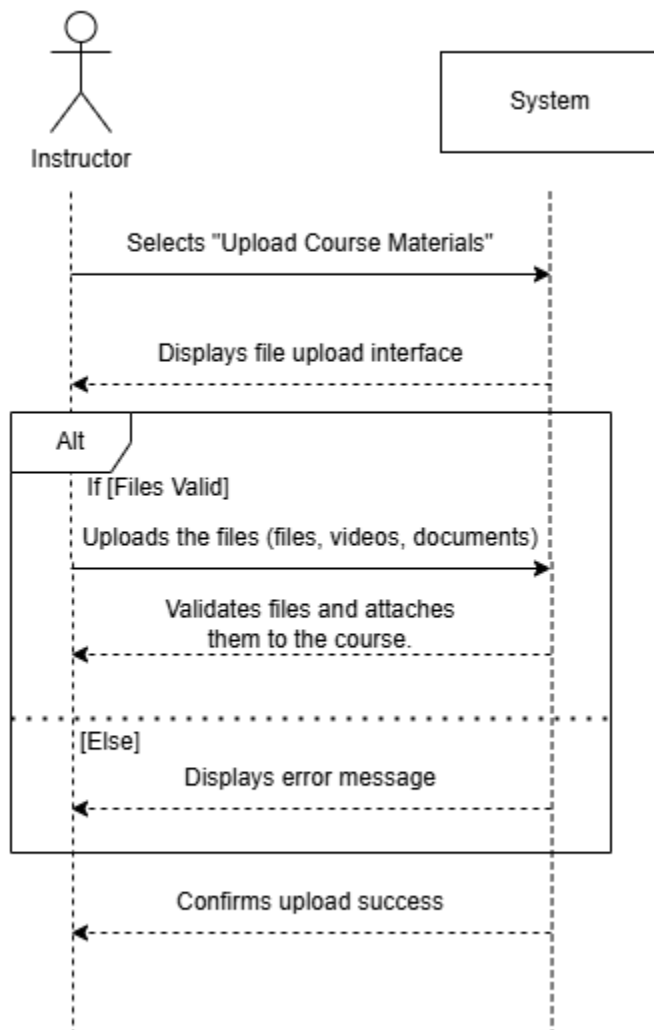Unlock Next Module (ModuleIID)

Next Module Unlocked

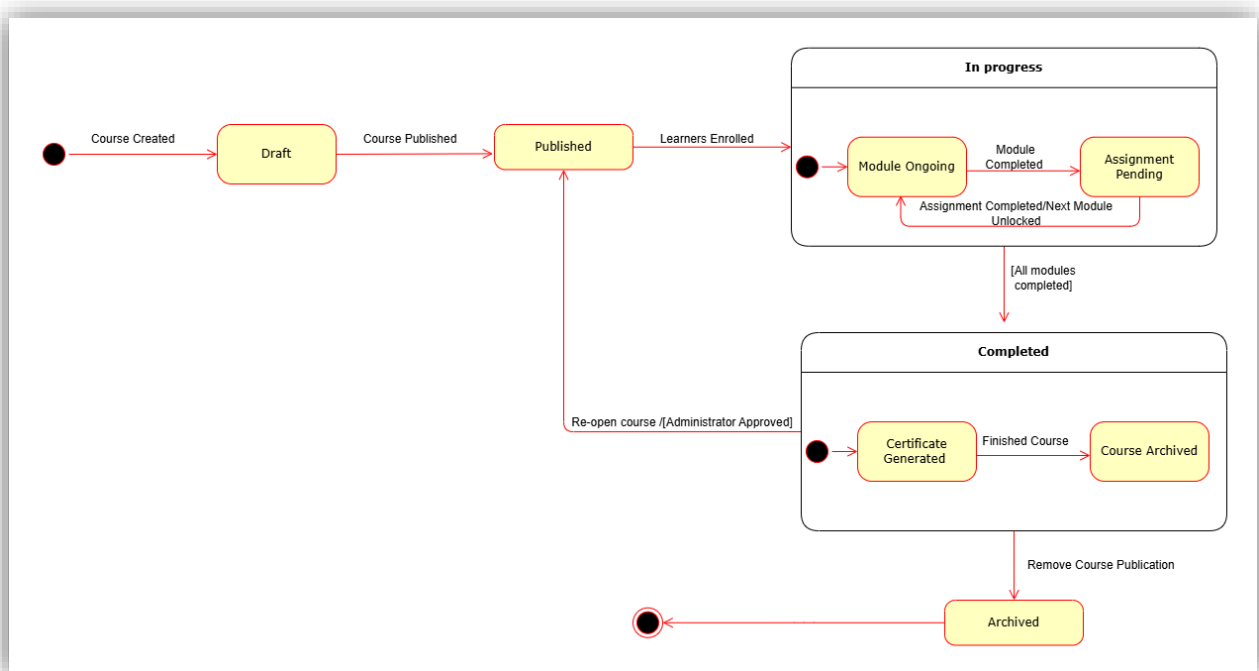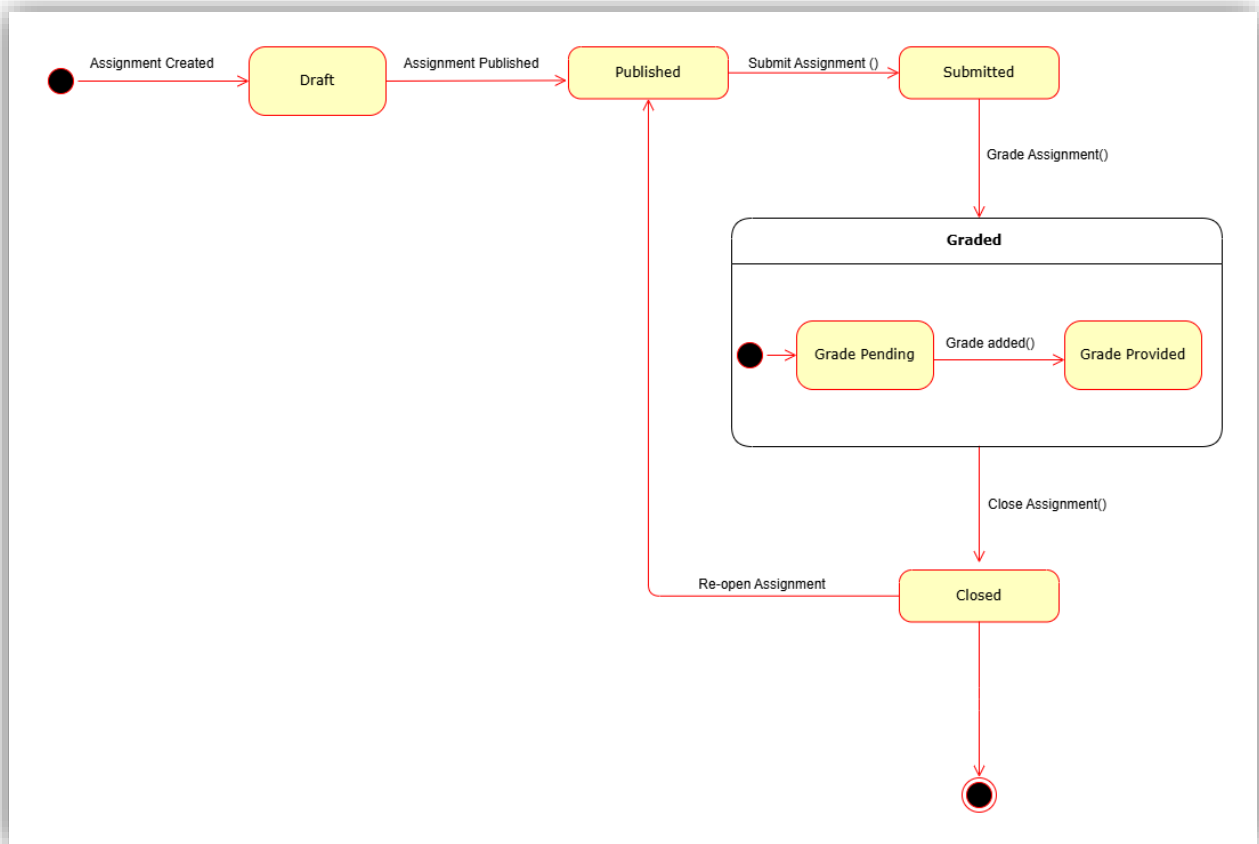[else]
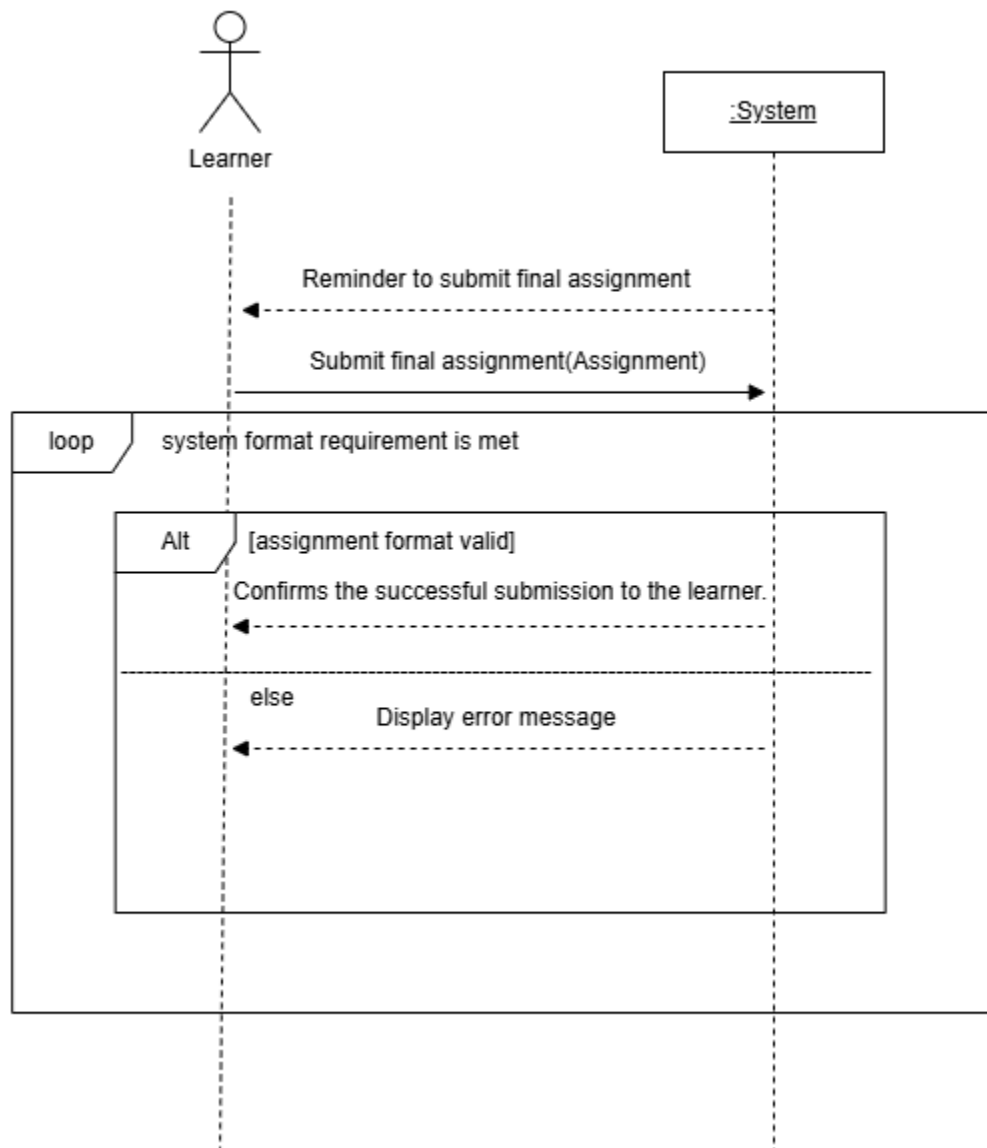
Complete Previous Module
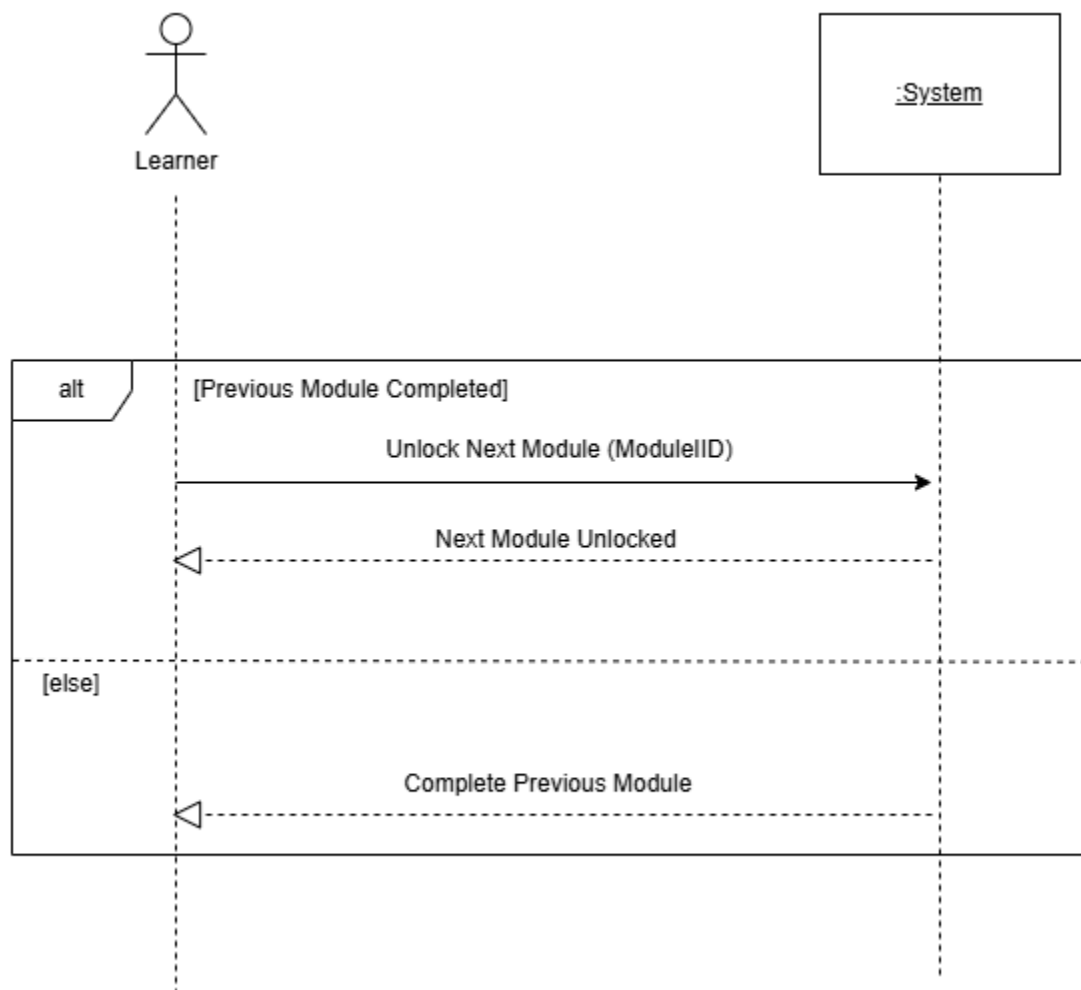
20- Update Course Catalog
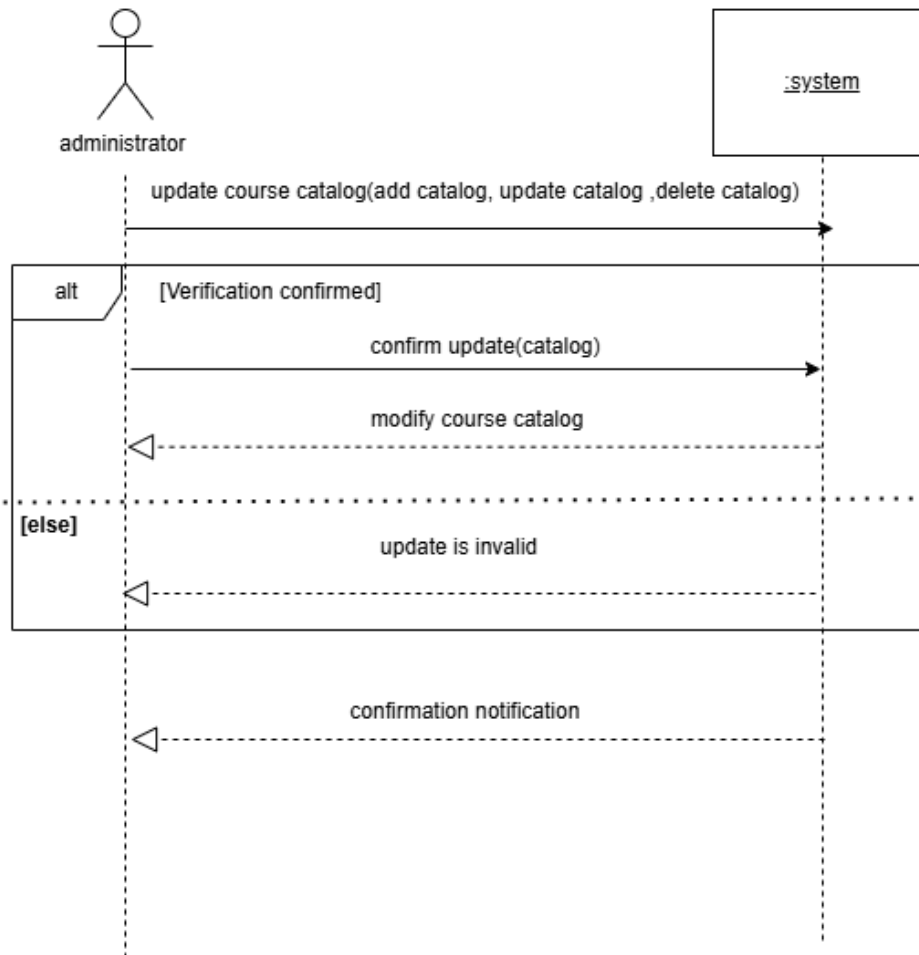
21- **Upload Course Materials**

4. State Machines for 2 Domain Classes

Done By:

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