

Final Report

Online Learning Platform

Group Number: 12

Group Members:

Student ID	Student Name
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System request for Online Learning Platform

Project Sponsor	Jihan Alam
Business Need	<ul style="list-style-type: none"> -To solve online based learning system - Spread knowledge -Making remote examination secure and easier. -Making submissions Easier -Tracking Grade
Business Requirements	<ul style="list-style-type: none"> - User can Login/Registration using email and password - User can view course and topic - User can Enroll into a course - User can watch videos to the respective course - User can participate in the Quiz - User can submit Assignment - User can monitor progress - Faculty can upload videos to respective course - Faculty can offer Quiz - Faculty can offer Assignments - Admin can add course to user - Admin can assign faculty to a course - Admin can make grade sheet from progress
Business Values	<ul style="list-style-type: none"> - Advertisement - 100000 - Income respective learning org - 500000
Special Constraints	User's privacy protection (User can be fully anonymous while using the site)

Requirement Analysis

Functional Requirement:

1. Registration:

If a user wants to get access full functionality of the platform, he needs to register first

- Valid email
- Unique username
- String password

2. Login:

Users can login by entering valid user id and password.

- Valid username and password

3. Maintain Dashboard:

User can maintain dashboard.

- Edit Profile
- Change password
- Search and Enroll into course
- View course details
- Watch weekly videos for respective course

4. Taking quiz test:

Users can take course tests weekly and the test will measure their progress based on the topic they covered

- View questions provided by the faculty
- Input answer of the questions
- Measurement based on users input
- Record progress

5. Submit Assignment:

Users can submit assignment by the site

- Faculty will post Assignment question
- Submission link will be provided followed by a deadline
- User have to submit assignment within the deadline
- Faculty will evaluate the assignment and provide result
- Progress for assignment will be recorded

5. Progress:

User can monitor Progress

- User can monitor progress daily
- User can see the result for quiz
- User can see the result for assignments

6. Tracking

Faculty and administration can

- Faculty can track a student progress
- Admin can create grade sheet from student progress
- Academy can keep track of every student's grade record

Non - Functional Requirement:

1. Operational:

- There will be a web admin interface to add new course and student and update teacher student database.
- Currently the client app is only in web, in future it will be available in mobile platforms like android and ios.

2. Performance:

- When giving quiz system should record progress precisely.
- While submitting one quiz the data should not manipulate other quiz. Also quiz of other students.
- Progress should update as soon as the quiz is done submission.

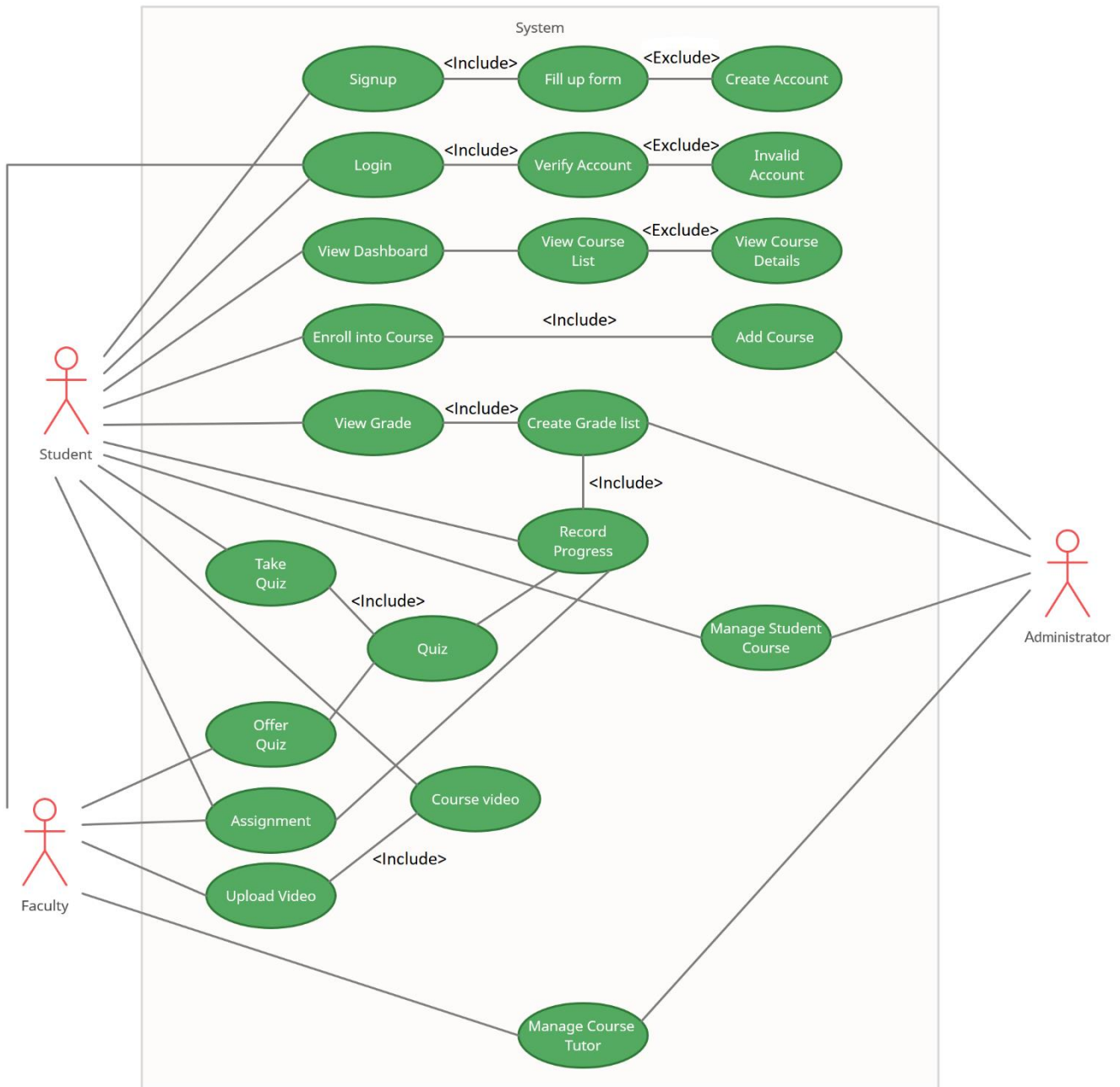
3. Security:

- User should only track the dashboard. They should not interact with the database directly.
- As the product contains sensitive information, We need to ensure users' data security.

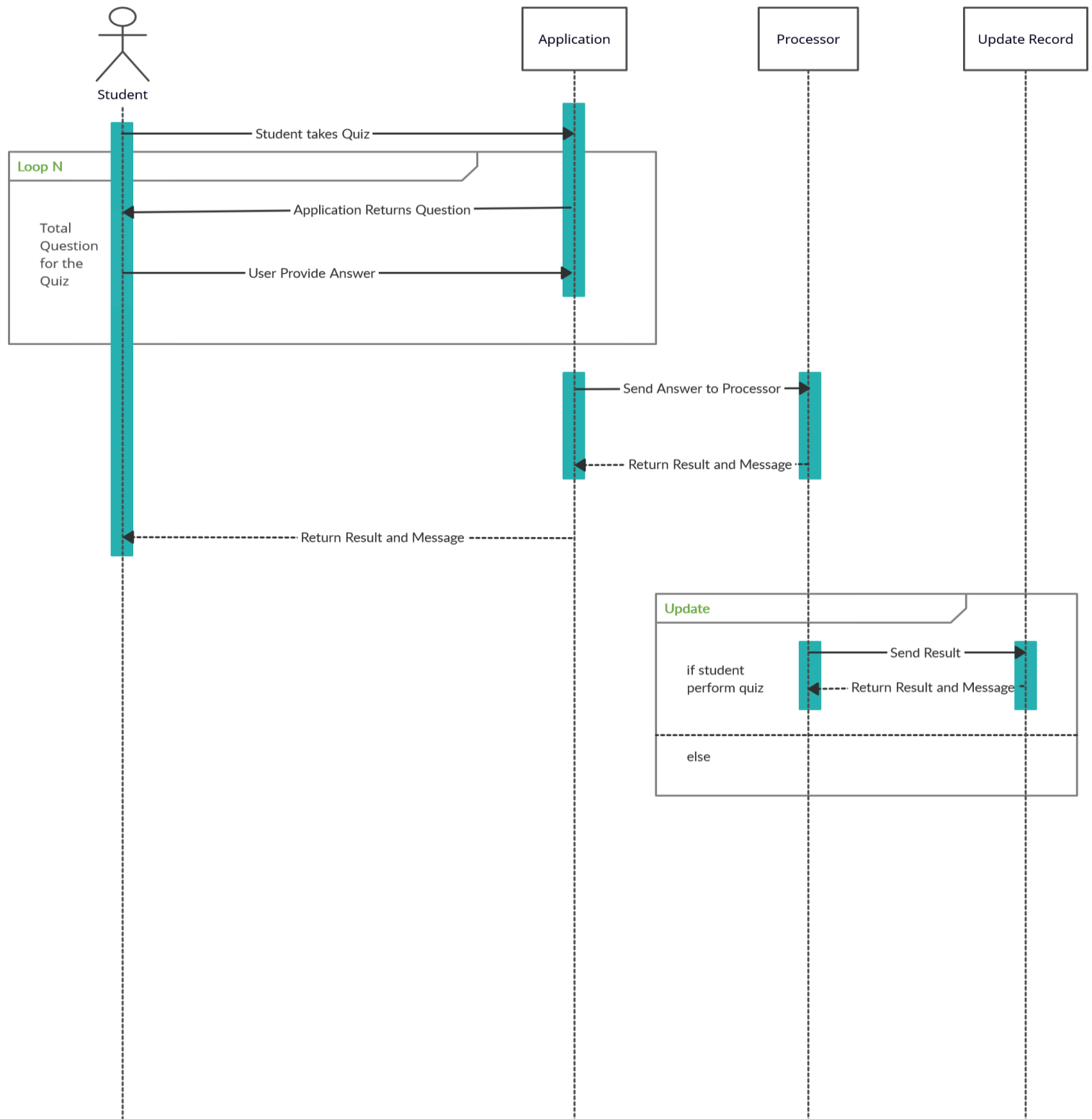
4. Cultural and Political:

- Personal information is protected by the country's data protection law.
- Any kind of content a user should be bound by the country's digital act law.

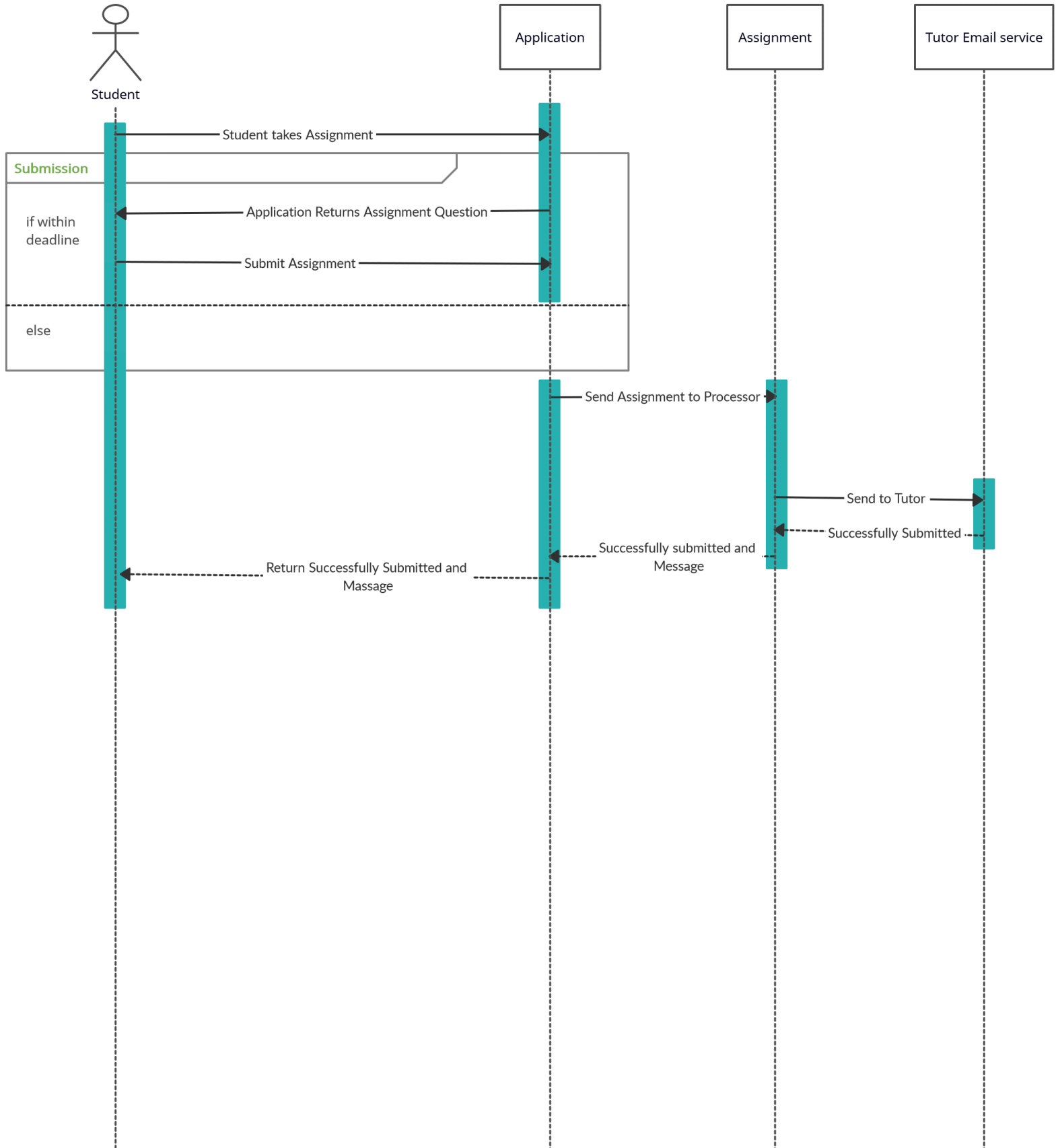
Use Case Diagram



Sequence Diagram for Quiz

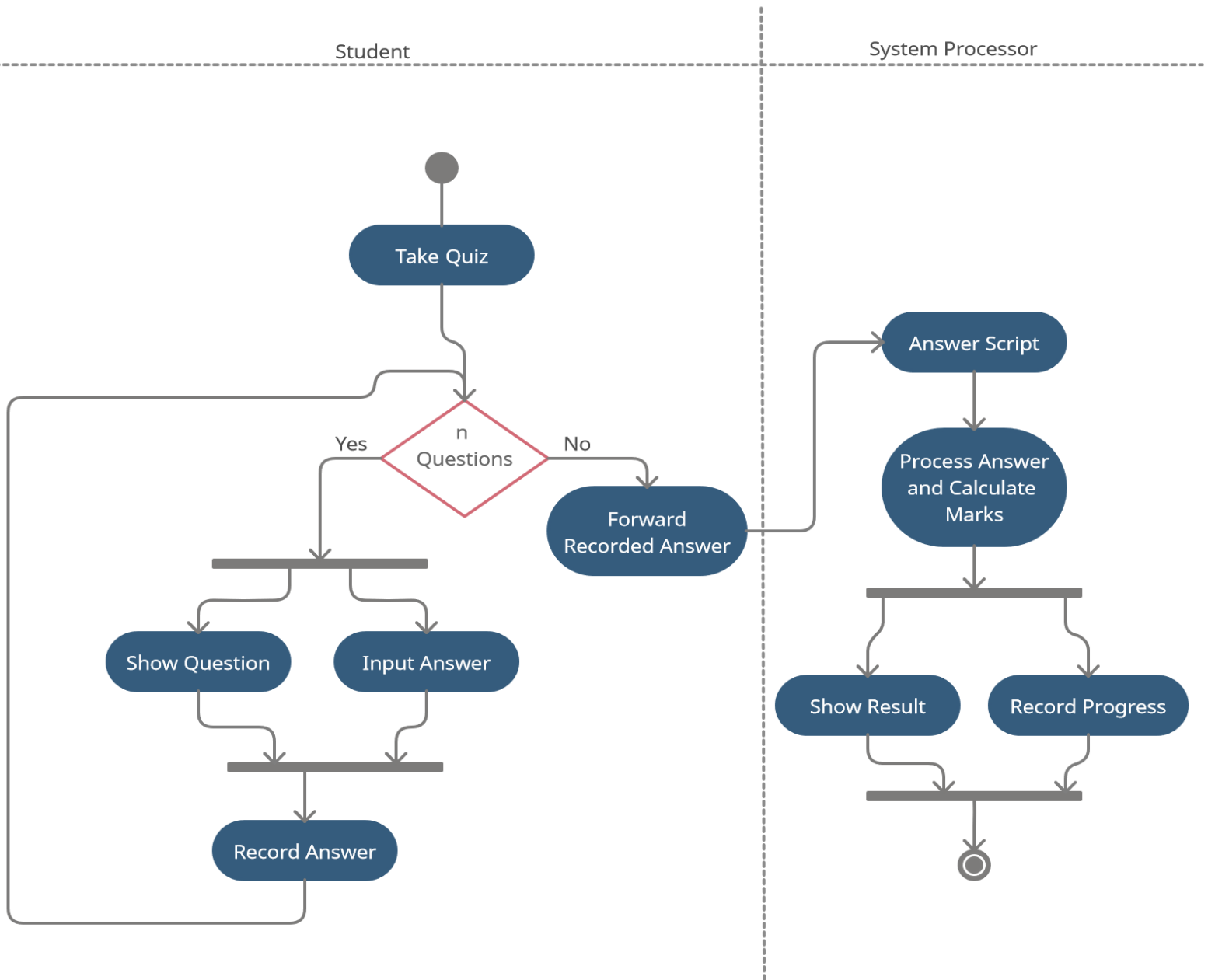


Sequence diagram for Assignment



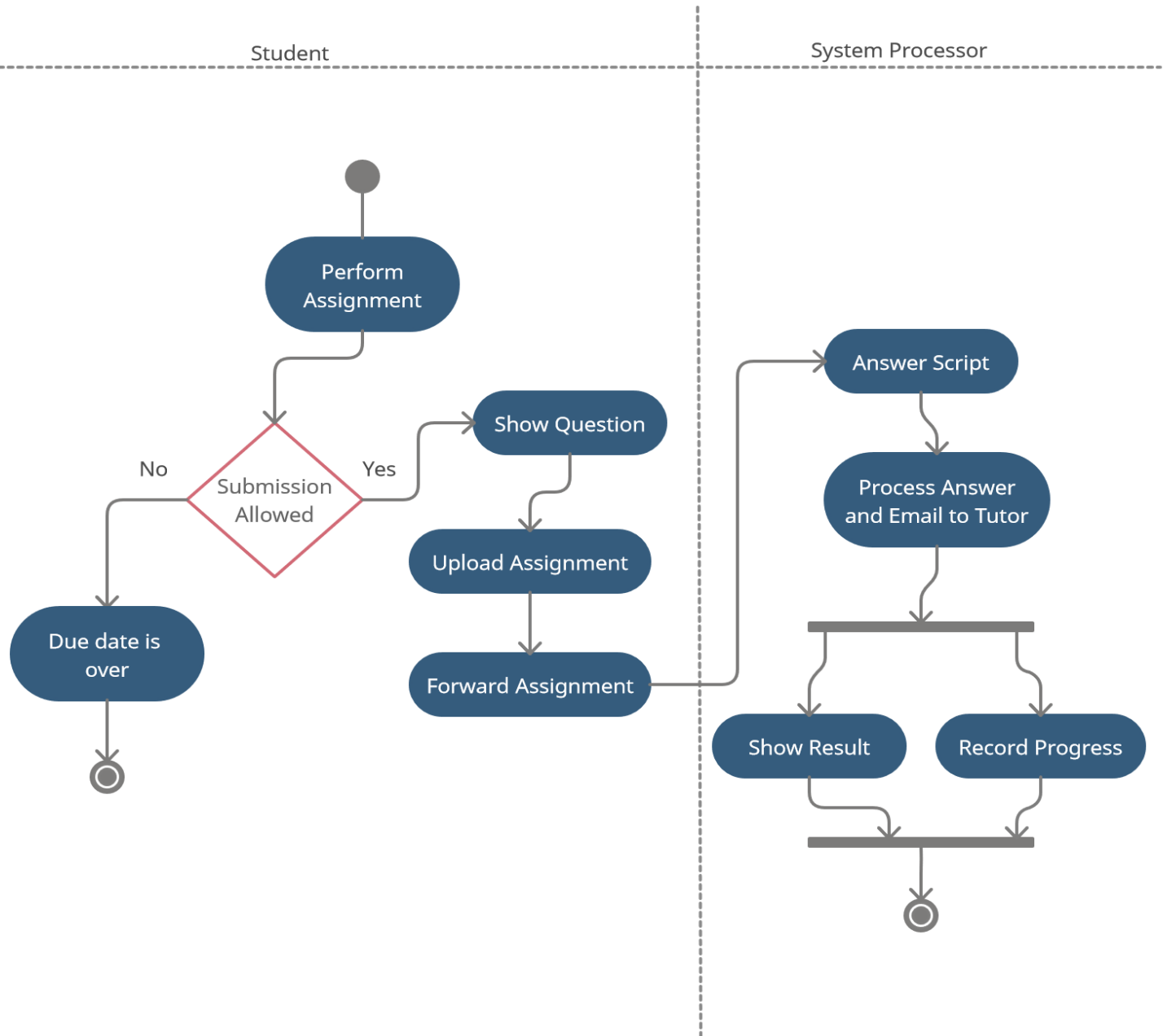
Activity Diagram

Quiz processing

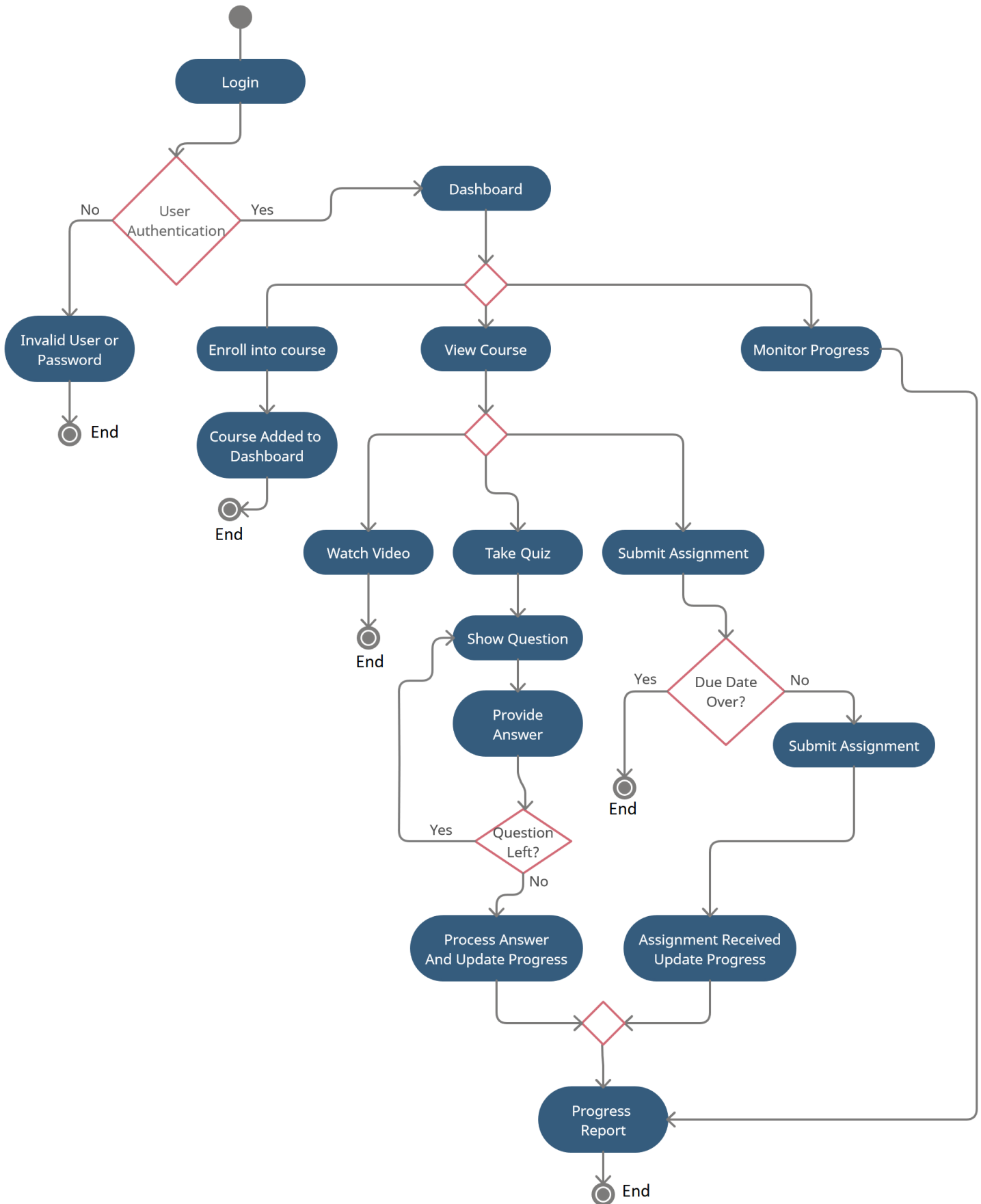


Activity Diagram

Assignment Submission



State Machine Diagram



Data Flow Diagram

