

#### Project for CSE471

# Final Report Online Learning Platform

**Group Number: 12** 

## **Group Members:**

Student ID	Student Name
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### Assignment for CSE471

# **System request for Online Learning Platform**

Project Sponsor	Jihan Alam
Business Need	-To solve online based learning system - Spread knowledge -Making remote examination secure and easierMaking submissions Easier -Tracking Grade
Business Requirements	<ul> <li>User can Login/Registration using email and password</li> <li>User can view course and topic</li> <li>User can Enroll into a course</li> <li>User can watch videos to the respective course</li> <li>User can participate in the Quiz</li> <li>User can submit Assignment</li> <li>User can monitor progress</li> <li>Faculty can upload videos to respective course</li> <li>Faculty can offer Quiz</li> <li>Faculty can offer Assignments</li> <li>Admin can add course to user</li> <li>Admin can assign faculty to a course</li> <li>Admin can make grade sheet from progress</li> </ul>
Business Values	<ul><li>Advertisement - 100000</li><li>Income respective learning org - 500000</li></ul>
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

#### 6. Progress:

User can monitor Progress

#### Assignment for CSE471

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

#### 7. 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.

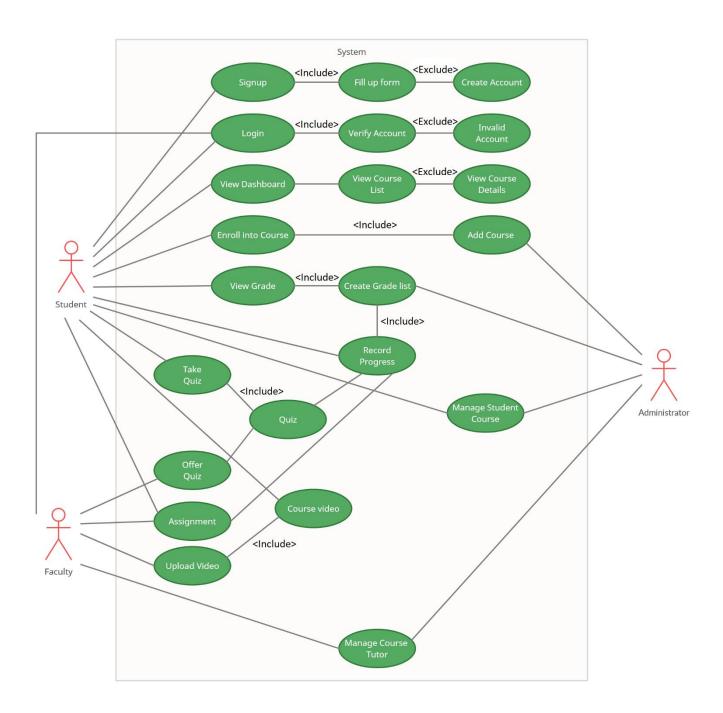
#### 3. Security:

- 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:

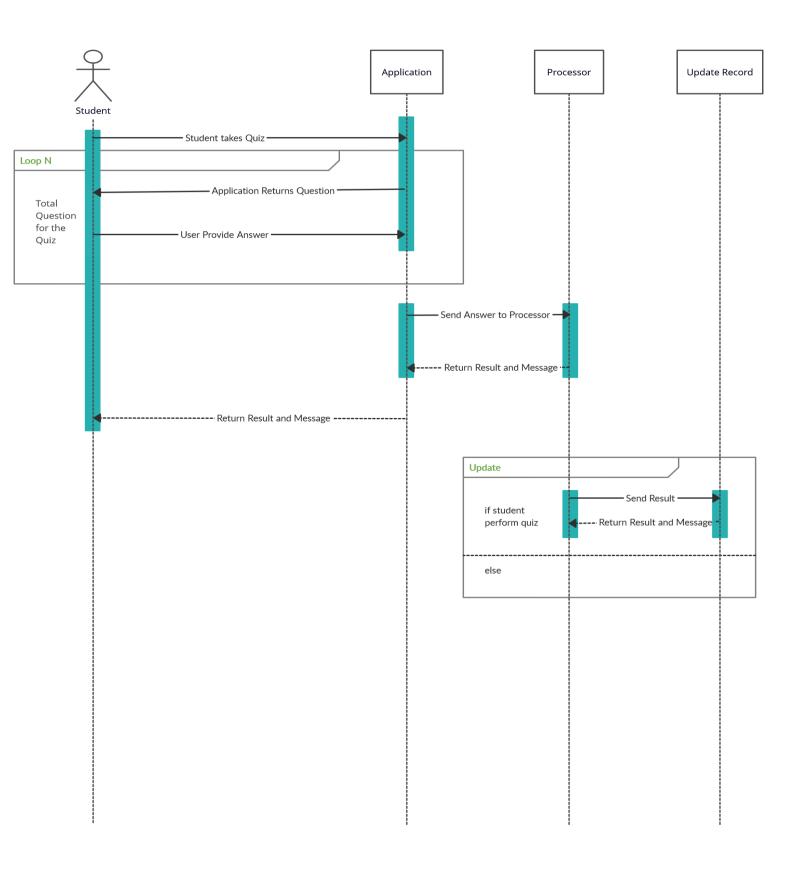
- Personal information is protected by the country's data protection law.
- Any kind of content a user should be bound by the country's digital act law.

## **Use Case Diagram**

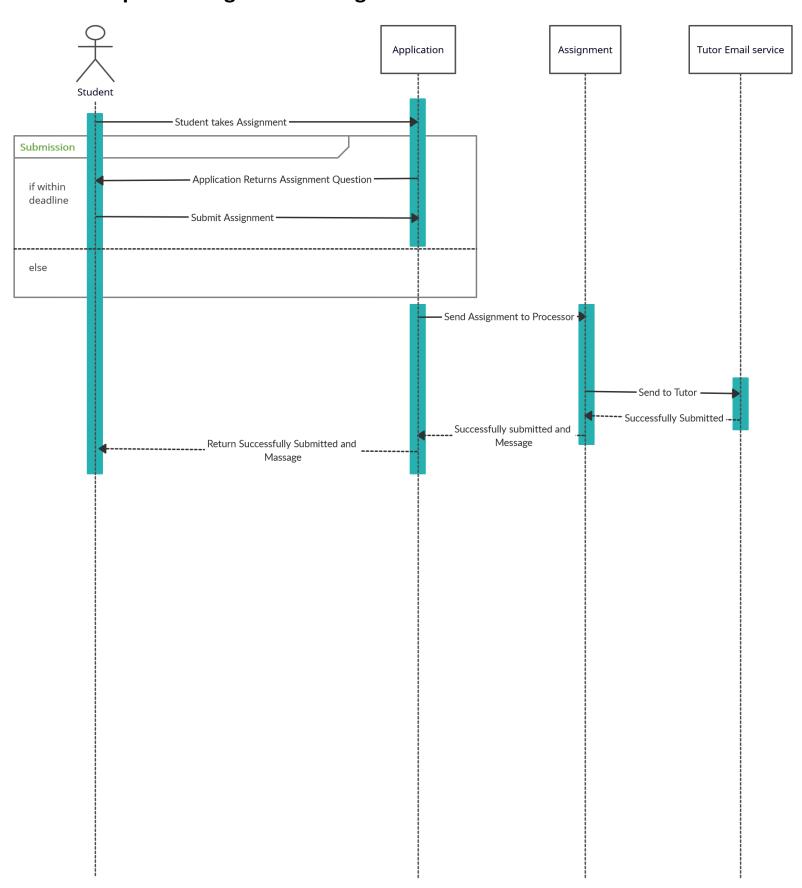


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## **Sequence Diagram for Quiz**

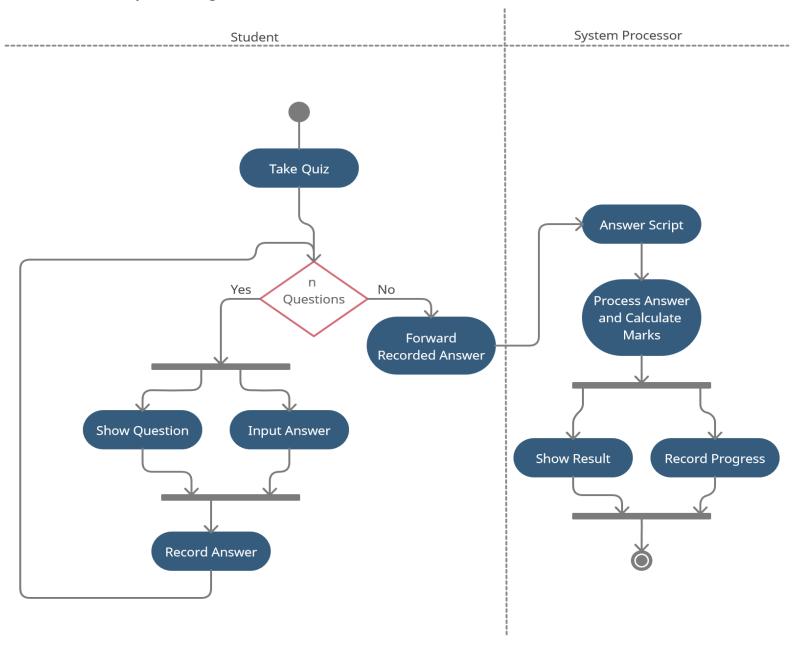


# **Sequence diagram for Assignment**



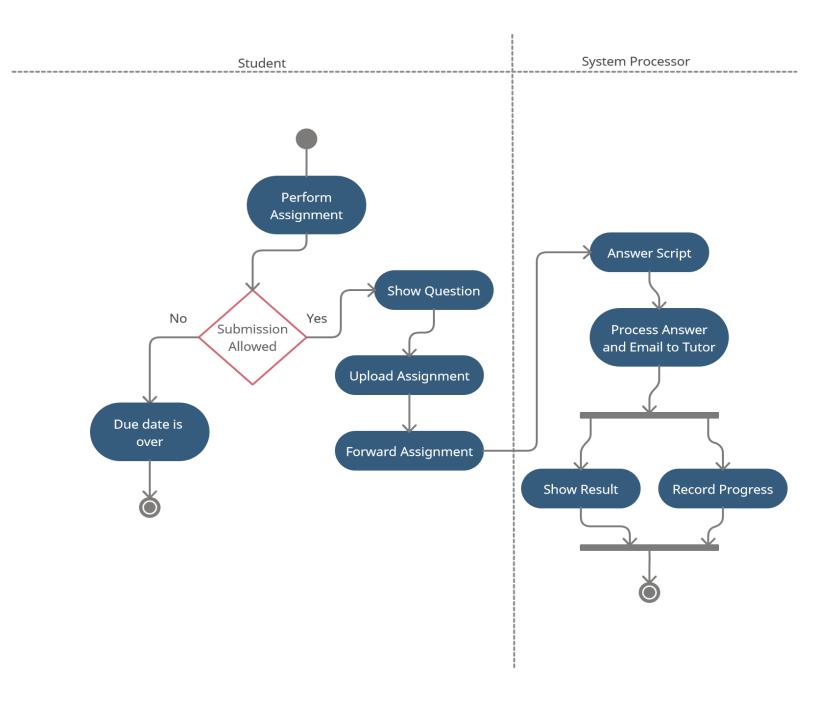
# **Activity Diagram**

## **Quiz processing**

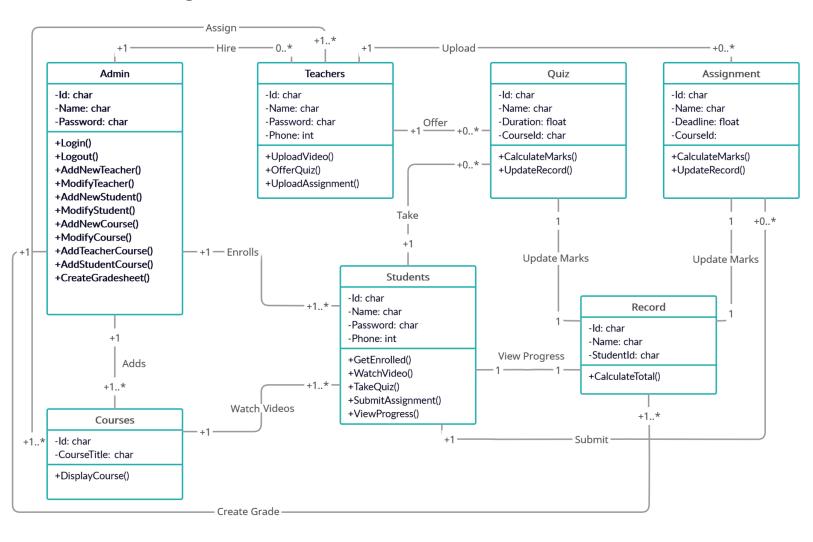


# **Activity Diagram**

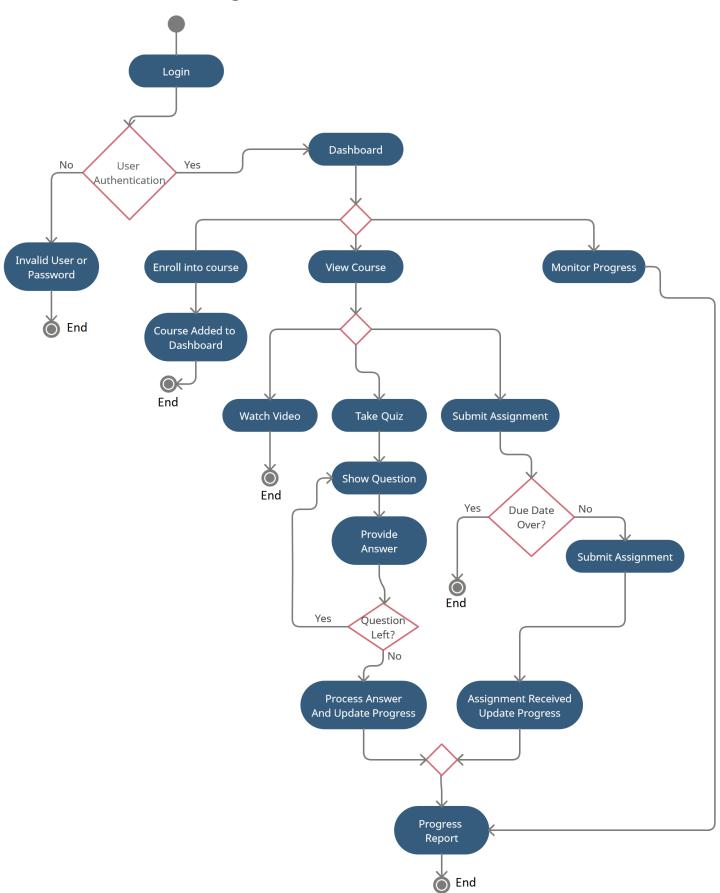
## **Assignment Submission**



## **Class Diagram**



# **State Machine Diagram**



# **Data Flow Diagram**

