

EXAM REGISTRATION SYSTEM

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Assignment 3 - Use Case Document

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Description of Use Case Diagram:

Actors:

1. User: Student or CoE that accesses the system.
2. Student: Student users requests exam registration services from the system.
3. Controller(s) of Examination: CoE manages student requests and administers the system.
4. Database: Store student and controller information securely.
5. Bank servers: Provide portal for registration payment through the system.

Use Cases:

1. Login

Overview: Use case to Login into Exam Registration System.

Primary Actor: User

Precondition: User must be registered with the information security system.

Main Success Scenario:

1. Enter Login details.
2. Login successful.
3. User Dashboard is accessible.

Extension: User unable to login, user must contact the information security admin.

Post Condition: None.

Includes: User Authentication

Extends:

1. Register for exam.
2. Enter Exam Details.
3. Update Exam Details.

2. Register for examination:

Overview: Use case to register for an examination.

Primary Actor: Student.

Precondition: The Student must be logged in.

Main Success Scenario:

1. Get access to student dashboard
2. Get access to open course catalogue.
3. Search for examination.
4. Enter personal details.
5. Make payment.

Extensions: None.

Post Condition: Registration details are updated in the database.

Includes:

1. Login
2. Search for Examination.

Extends: None.

3. Search for Examination:

Overview: Use case to search for an examination.

Primary Actor: User, Database

Precondition: User must be logged in.

Main Success Scenario:

1. Select mode of search as examination name or id.
2. Search by id or search by name.
3. Access search results.

Extensions: Examination not found. Wait for the admin to add the course.

Post Condition: None.

Includes: None.

Extends: None.

4. Search for Examination by Name:

Overview: Use case to search for an examination using name.

Primary Actor: User, Database

Precondition: None.

Main Success Scenario:

1. Get name of examination to search for.
2. Search the database for matching results.
3. Return search results.

Extensions: If the user is the CoE then the user gets additional access to view analytics on the exam.

Post Condition: None.

Includes: None.

Extends: Search for Examination.

5. Search for Examination by ID:

Overview: Use case to search for an examination using ID.

Primary Actor: User

Precondition: None.

Main Success Scenario:

1. Get ID of examination to search for.
2. Search the database for matching results.
3. Return search results.

Extensions: If the user is the CoE then the user gets additional access to view analytics on the exam.

Post Condition: None.

Includes: None.

Extends: Search for Examination.

6. Search for Student by ID:

Overview: Use case to search for a student using student ID.

Primary Actor: CoE, Database

Precondition: CoE must be logged in

Main Success Scenario:

1. Get ID of student to search for.
2. Search the database for matching results.
3. Return search results.

Extensions: None.

Post Condition: None.

Includes: None.

Extends: None.

7. Make Payment for Registered Exams:

Overview: Use case to pay exam fees for registered exams.

Primary Actor: Student, Bank Server

Precondition: None.

Main Success Scenario:

1. Login
2. Search for exam.
3. Connect to bank server.
4. Enter details in bank portal.
5. Confirm payment.
6. Download invoice.

Extensions:

1. Student not registered for selected exam:
Go to step 3 in Register for Examination.

Post Condition: Update payment details in database.

Includes: Register for Examination.

Extends: None.

8. Access student dashboard:

Overview: Use case to access student dashboard.

Primary Actor: Student, Database

Precondition: Student should be logged in.

Main Success Scenario:

1. Login
2. Navigate to dashboard.
3. Retrieve information.

Extensions: None.

Post Condition: None.

Includes: Login.

Extends: None.

9. Update examination:

Overview: Use case to update examination details.

Primary Actor: CoE.

Precondition: CoE must be logged in.

Main Success Scenario:

1. Login
2. Search for exam to update.
3. Update required information.
4. Confirm changes.

Extensions:

1. Examination not present in database:
Enter exam details and add new examination to the system.

Post Condition: Updates reflected in database.

Includes:

1. Login.
2. Search for Exam.

Extends: Enter Exam Details.

10. Enter Exam Details:

Overview: Use case to enter examination details.

Primary Actor: CoE.

Precondition: None.

Main Success Scenario:

1. Login
2. Get exam name, exam ID, deadline etc.

3. Add new examination with entered information.
4. Confirm changes.

Extensions: None.

Post Condition: Updates reflected in database.

Includes: Login.

Extends: None.

11. Prepare examination schedule:

Overview: Use case to prepare and publish examination schedule.

Primary Actor: CoE.

Precondition: CoE should be logged in.

Main Success Scenario:

1. Login
2. Select exams to schedule.
3. Choose mode of scheduling as manual or computerized.
4. Publish schedule.

Extensions: None.

Post Condition: Publish generated schedule for all registered students.

Includes: Login.

Extends: None.

Use-case Diagram:

