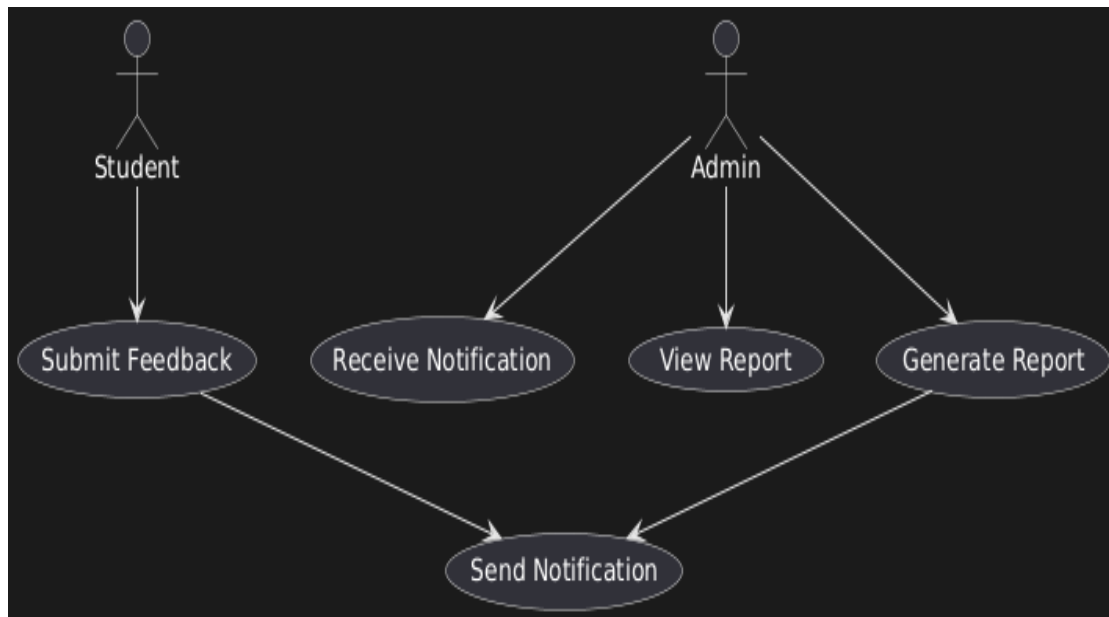## Use Case Diagram:

Fully Dressed Use Case:

Use Case 1: Submit Feedback

Use Case Name: Submit Feedback
Actor: Student
Description: Allows a student to submit feedback related to courses, instructors, or the registration process.
Preconditions: Student must be logged into the system.
Postconditions: Feedback is saved in the database and a notification is sent to the admin.

Main Success Scenario:

Student navigates to the feedback form.

Student enters feedback and submits the form.

The system validates the input.

Feedback is stored in the database.

A notification is triggered for the admin.

Alternative Flows:

● Validation fails → error message shown, student corrects input.

Exceptions:

- System/database error while saving → user is shown an error message.

Use Case 2: Receive Notification

Use Case Name: Receive Notification
Actor: Admin
Description: Admin receives notifications when a new feedback is submitted or when a report is ready.
Preconditions: Admin must be logged in and have notifications enabled.
Postconditions: Admin receives real-time alert in the system dashboard or via email.

Main Success Scenario:

System detects a new event (feedback/report).

Notification Manager generates a message.

Notification is displayed or sent to the admin.

Alternative Flows:

- If admin is offline, notification is stored and displayed on next login.

Exceptions:

- Notification service fails → no message delivered, error logged.

Use Case 3: View Report

Use Case Name: View Report
Actor: Admin
Description: Allows the admin to view generated reports, including student registrations, feedback statistics, etc.
Preconditions: Report must be generated. Admin must be authenticated.
Postconditions: Report is displayed to the admin.

Main Success Scenario:

Admin navigates to the reports section.

Selects the desired report from the list.

The system fetches and displays the report.

Alternative Flows:

● If no reports exist, a message is shown to the admin.

Exceptions:

● Database error → report fails to load, error message shown.

Use Case 4: Generate Report

Use Case Name: Generate Report
Actor: Admin
Description: Admin can generate various reports such as student registrations, feedback summaries, or usage statistics.
Preconditions: Admin must be authenticated.
Postconditions: A report is generated and saved; notification sent to the admin.

Main Success Scenario:

Admin selects "Generate Report" option.

Admin defines criteria (e.g., date range, course).

System processes the request.

Report is generated and saved.

Notification is sent that the report is ready.

Alternative Flows:

● Invalid criteria → admin asked to correct inputs.

Exceptions:

● System error during report generation → error displayed to admin.

Use Case 5: Send Notification

Use Case Name: Send Notification
Actor: (System use case – triggered by other use cases)
Description: Sends notifications when a new feedback is submitted or a report is generated.
Preconditions: A triggering event (feedback/report) must occur.
Postconditions: Admin receives a system alert.

Main Success Scenario:

System detects an event (new feedback or generated report).

NotificationManager creates a message.
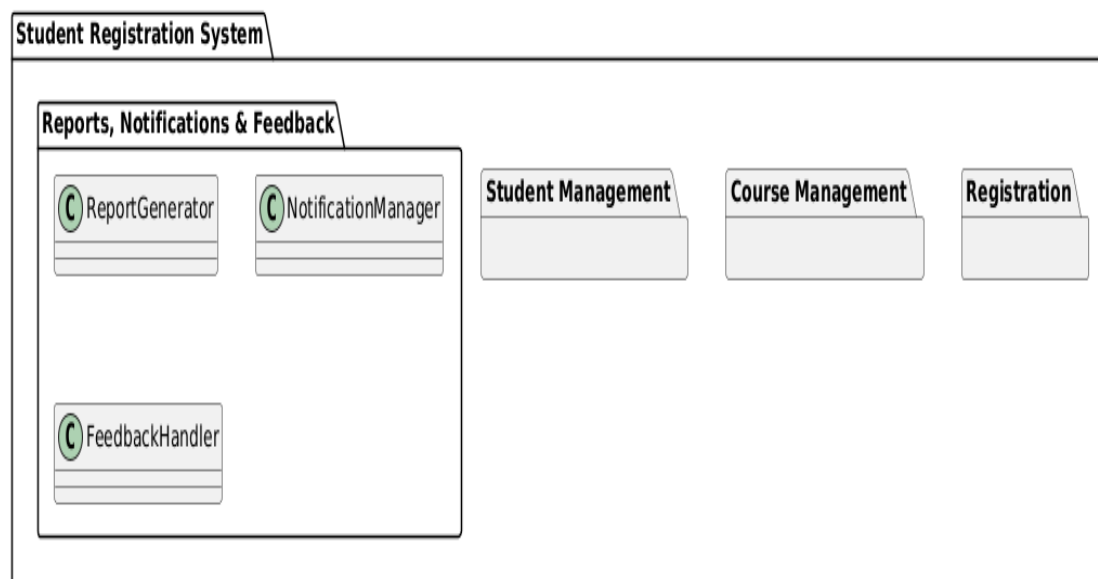
Notification is sent to the admin.

Alternative Flows:
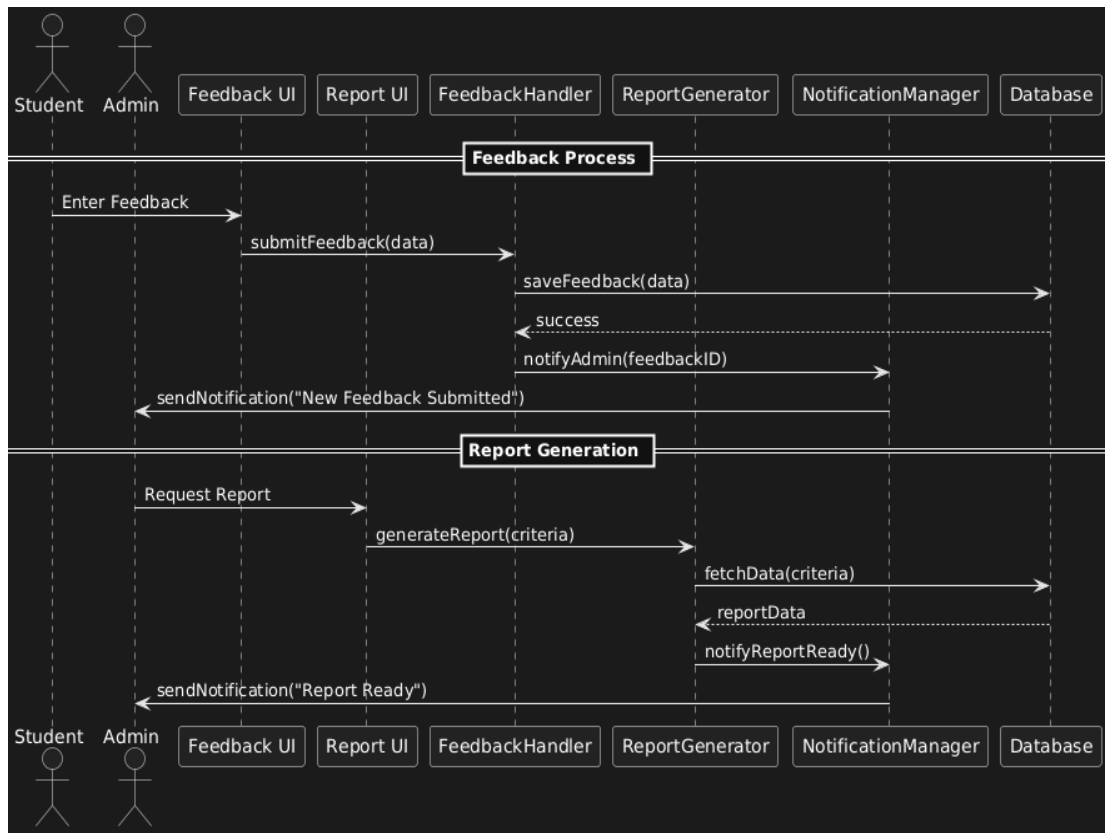
● If admin is unavailable, notification is queued.

Exceptions:

● Notification system failure → log error, retry mechanism initiated.

Package Diagram:

Sequence Diagram:

Collaboration diagram: