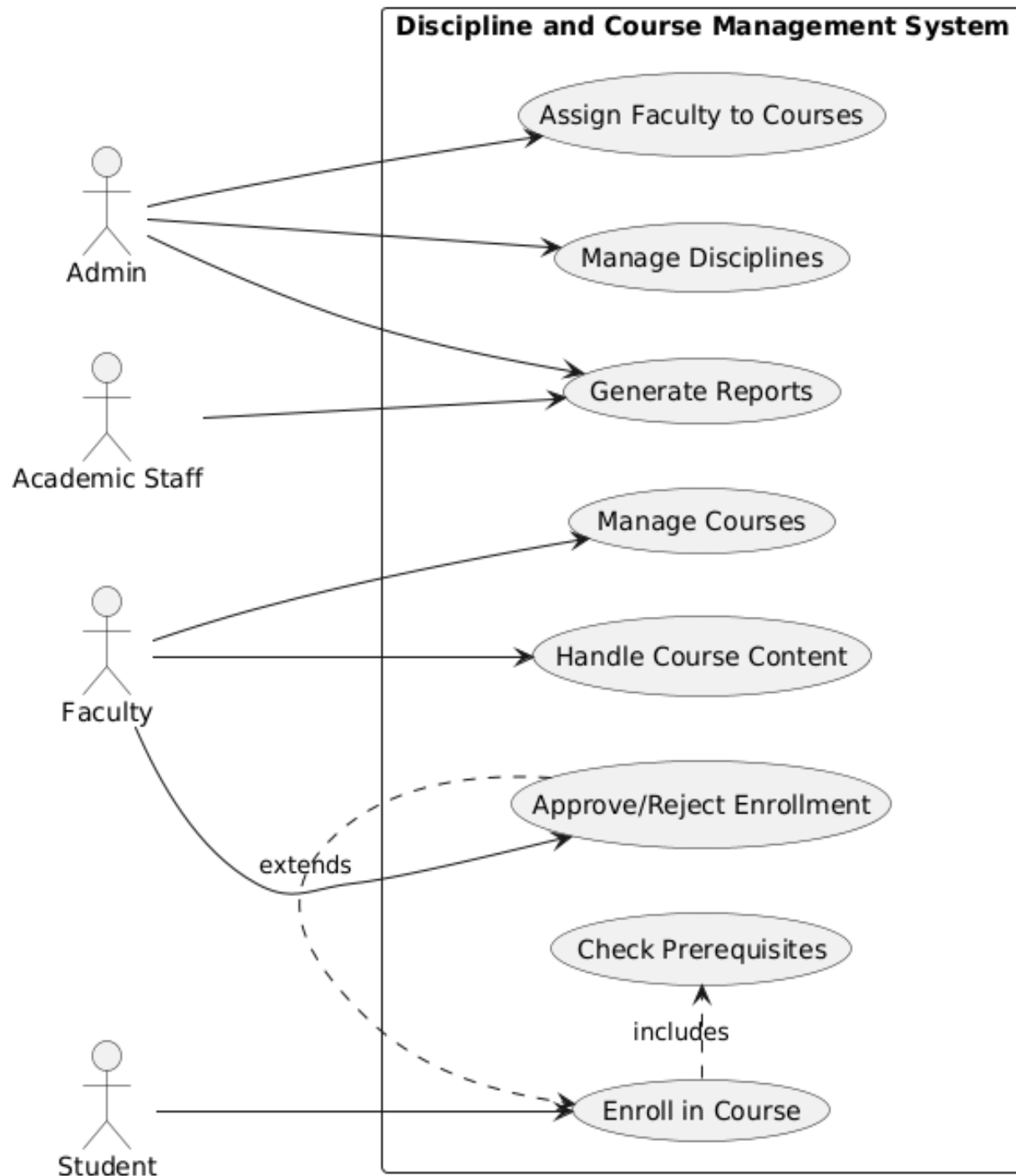


Assignment-No: 01

Name: Usman Jamil Abbasi

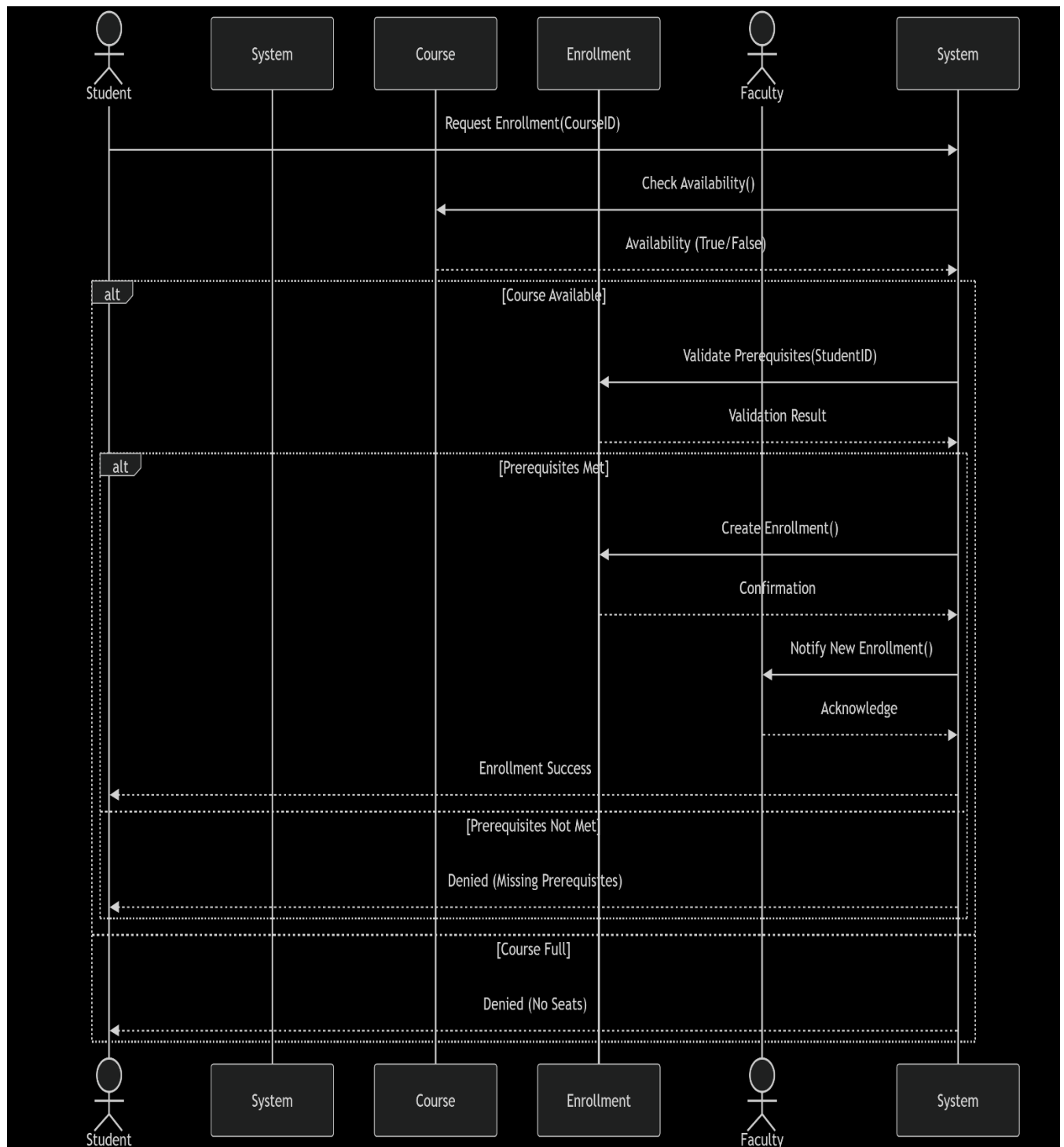
1: Use-Case Diagram:



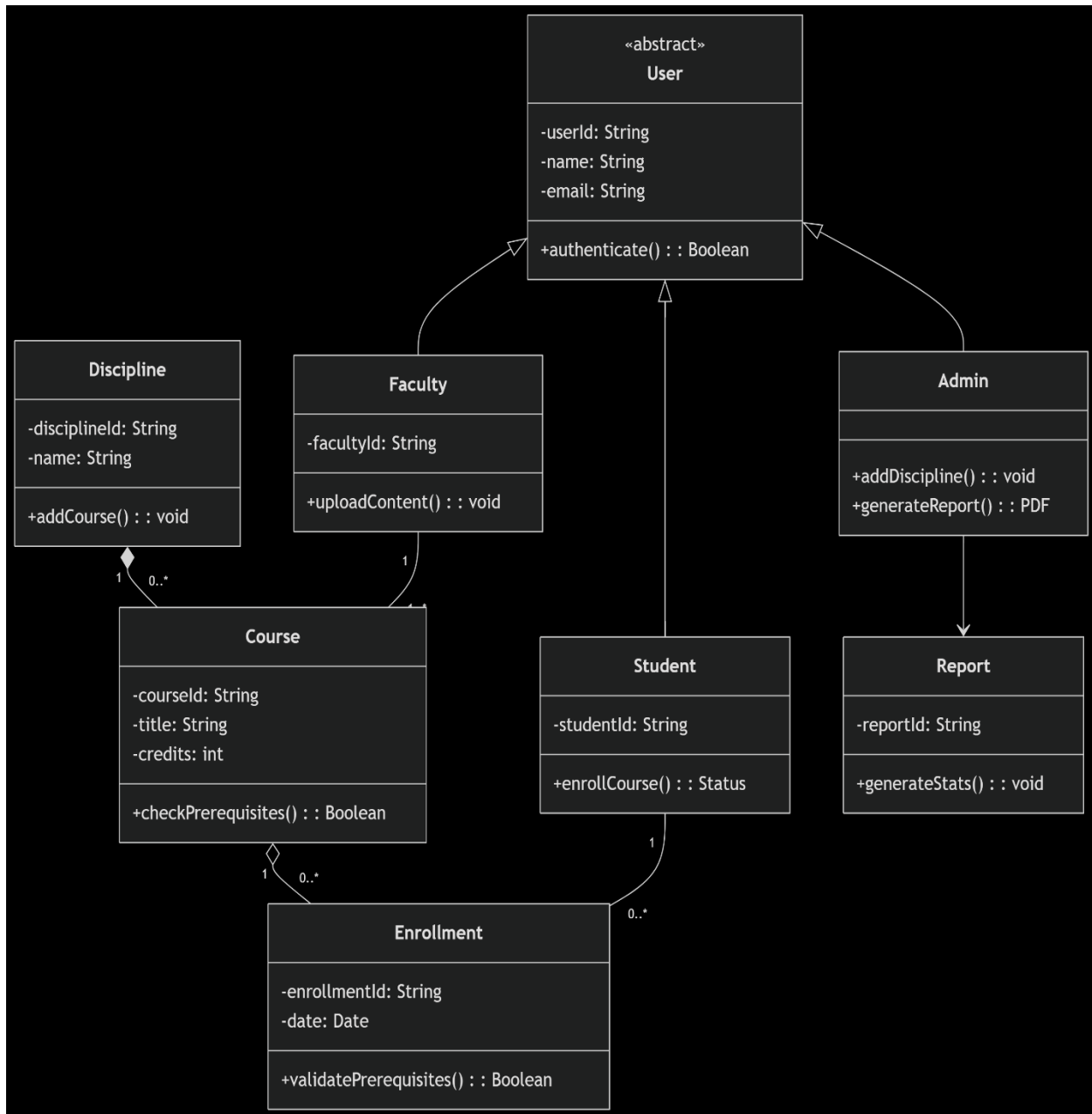
2. Fully Dressed Use Cases:

Field	Details
Use Case Name	Enroll in Course
Primary Actor	Student
Secondary Actors	System, Faculty
Preconditions	- Student is logged in- Course exists and has available seats
Main Success Scenario	1. Student selects desired course from catalog 2. System verifies course availability and prerequisites (UC8)3. System creates enrollment record 4. System notifies faculty of new enrollment 5. System confirms successful enrollment of student
Extensions	3a. Prerequisites not met: - System displays missing requirements - Use case ends unsuccessfully 3b. Course is full: - System adds student to waitlist - System notifies student of waitlist position
Special Requirements	- Enrollment window must be open- Real-time seat availability check
Postconditions	- If successful: Enrollment record created- If waitlisted: Waitlist position assigned
Related Use Cases	- Includes: Check Prerequisites (UC8)- Extended by: Approve/Reject Enrollment (UC7)
Frequency of Occurrence	High (hundreds per day during registration periods)

3. System Sequence Diagram:



4. Class Diagram:



5. Package Diagram:

**Discipline and Course Management System
Package Diagram**

