

College Enrollment System Phase 1

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About The Project

A college course Enrollment System that allows Universities to create a schedules for their students, add/drop students from a course, and other requirements the employees of Universities require to run and fill multiple courses within a University. There is also a student form of the system that gives student requirements

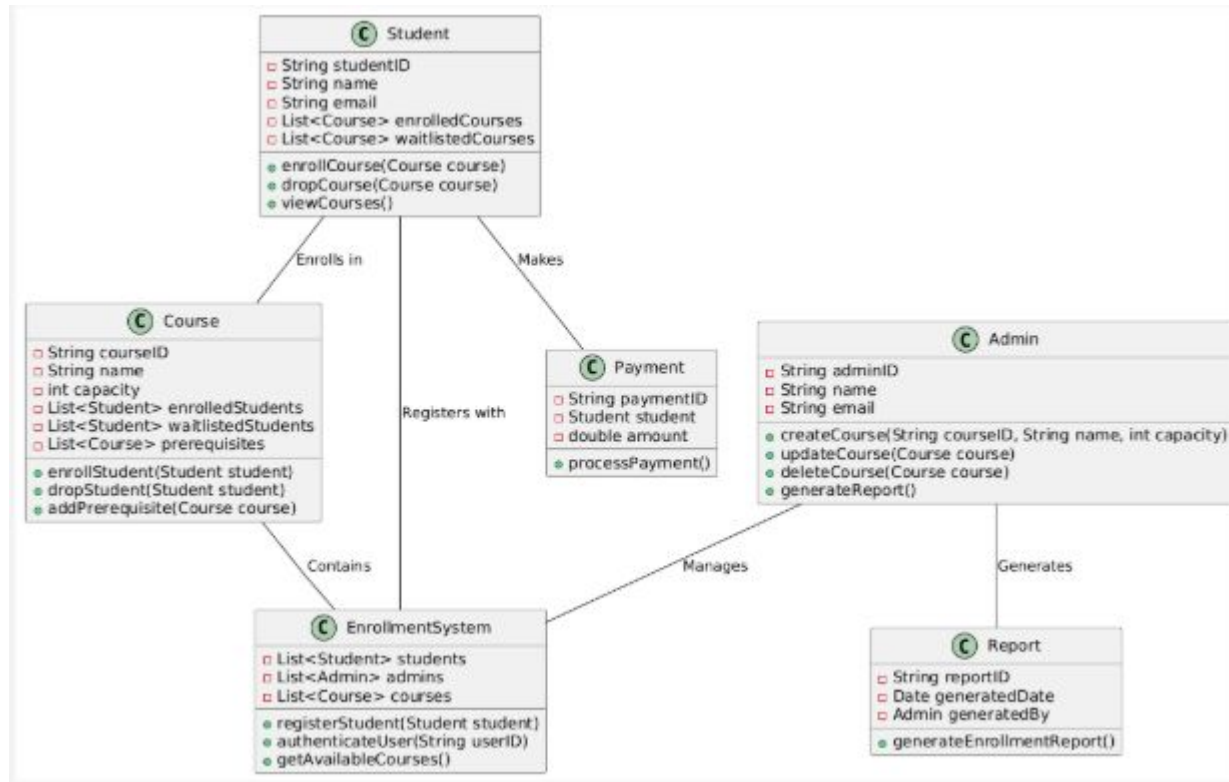
Top 10 Requirements

- Admins can view, create, update, and delete courses.
- Students can view an list of available courses and enroll if there's space.
- If a certain course has prerequisites, then it should check if the student has completed the requirements.
- If the course is full, then students should be prompted if they want to be added to the waitlist or not.
- Students should be able to drop a course. Only if it's within the deadline.
- Students should be able to view all the courses they enrolled in. Such as course name, schedule, and enrollment status
- Admins should be able to get course enrollment reports, students on the waitlist, and available seats per course.
- It should support multiple universities.
- There should be a cap on course units that can be enrolled at once, so the cap would be 18 per reference with our school.
- Since students and admins can have similar names, they should each have unique IDs.

Top 5 Classes

1. Course - Represents a course with enrollment and waitlist management.
 - courseID
 - courseName
 - instructor
2. Student - Represents a Student in the System.
 - student ID
 - name
3. Administrator - Manages the Course Data and Enrollment.
 - adminID
 - name
4. University - Manages Courses, Students, and Admins.
 - university ID
 - university Name
 - courses
 - students
 - admins
5. Enrollment System - The Main System Controller.
 - universities

UML Class Diagram



Thank You!

That is all!!!

Modules

- Administration Module
- Student Module
- Reporting Module

Administration Module

- Create, update, delete, and view courses
- Set course prerequisites and enrollment limits
- Generate reports on student enrollment and waitlists
- Manage multiple universities within the system

Student Module

- Browse available courses
- Enroll in courses if prerequisites are met and space is available
- Drop courses within the allowed deadline
- Join a waitlist for full courses
- View current course enrollment and waitlist status
- View holds (ie. balance owed)

Reporting Module

- Generate reports on:
 - Course enrollments
 - Students on waitlists
 - Available seats in each course

Class Candidates

- User
- Administrator (inherits from user)
- Student (inherits from user)
- Report
- University
- Course
- Waitlist
- Enrollment

Use Cases

- User can log in as an admin or a student and system responds with correct error if invalid credentials are entered
- Student can enroll for course if allowed based on prerequisites, total units, and class capacity.
- Students can drop course before a certain date
- Students can browse courses and select (or not select) a course to enroll
- Administrators can add, delete, and generate reports for courses.
- Administrators can have control function over all universities.