UNIVERSITY COURSE REGISTRATION SYSTEM - ASSIGNMENT 2

README

The feedback system allows students to provide numeric ratings and textual feedback for the courses they completed under a certain professor. Professors can view this feedback given by students enrolled in a particular course.

A generic class Feedback<T> was created, where T represents the type of data stored. This class can store both numeric ratings (e.g., 1-5) and textual feedback. Students can provide feedback in both formats, and professors can view the feedback for their courses.

in my code , Generic are used to handle different types of entities such as courses, students, and professors in a flexible manner. This is achieved through collections and type parameters in the CourseCatalog and Course classes. For instance, we use List<TeachingAssistant> to hold a list of TAs, allowing us to manage them efficiently without duplicating code for different types of users.

The system was enhanced with the role of a Teaching Assistant (TA) who inherits from the Student class.

The TeachingAssistant class extends Student, inheriting all properties and behaviors from Student, but adding additional functionalities for assisting with grading.

TAs can view and manage student grades but cannot modify course details, which is a privilege reserved for professors.

Several custom exceptions were created to handle common scenarios during course registration and login: Custom exception classes were created for each scenario and used in relevant methods like course registration, login, and course drop functionality.

CourseFullException: Thrown if a student tries to register for a course that has reached its maximum capacity.

InvalidLoginException: Thrown if a user enters incorrect credentials during login.

DropDeadlinePassedException: Thrown if a student attempts to drop a course after the deadline has passed.

demonsttartion :

Course feedback for Introduction to Programming
Feedback: 5
Great course

Teaching Assistants for Introduction to Programming
rkm

for exception handling :
Error: The course Advanced Data Structures is full.
Error: Invalid login credentials, please give valid login credentianls
You cannot drop the course after the deadline

note : due to less time , I have given a very brief example of domenstartion .
will show at the time of offline demo. Thank you

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