INFOO5100 Professor-As-A Service Report

Team Members:

Yanqi Ma 002774114
Zihao Liu 001567668
Wentian Zhang 002738592

Problem Statement：

As the university has autonomy over the operations, the professor gets very little flexibility in terms of what course content needs to be delivered, what the schedule of those courses would be, what the cost of those courses would be etc. The main objective of a college management system is to automate all functionalities of a college or university. Using this system you can manage all administration-related work like admission, fee collection, timetable management, result declaration etc.

Existing System: In the existing system, the university manages every single aspect of education delivery. That is, the university onboards or removes a professor, the university adds or removes a course etc. The university also decides the fee amount for each course, collects this fee from the students and pays the professor. As the university has autonomy over the operations, the professor gets very little flexibility in terms of what course content needs to be delivered, what the schedule of those courses would be, what the cost of those courses would be, etc. The main objective of a college management system is to automate all functionalities of a college or university. Using this system you can manage all administration-related work like admission, fee collection, timetable management, result declaration etc.

Solution Proposed：

The solution for the problem would be to design an online learning system which is completely professor centric. That is, the professor would control every element of education/course delivery.

Main features of this improved system would be:

1. System startup with all the initial configurations all worked out. Determine the user roles required to manage the system. These include universal student directory, the universal certification authority to say if a student is ready to graduate. A student is ready to graduate with an MS degree if they take 8 course max. A directory of professorAsAservice listing, etc.

2. A professor can sign up to the service and then able to manage their course catalog (1 or 2 courses) and course schedule for the courses.

3. Students would sign up to use the system. A transcript is created accordingly.

4. Professors create course schedule every term with the courses they plan to offer for that term

5. Students browse the courses that are available from any professor anywhere. They can search by professor name, topic, region, language, etc.

6. Students decide to register for classes. They will search for topics and register the courses they want to take. They should be able to see the professor rating before they register.

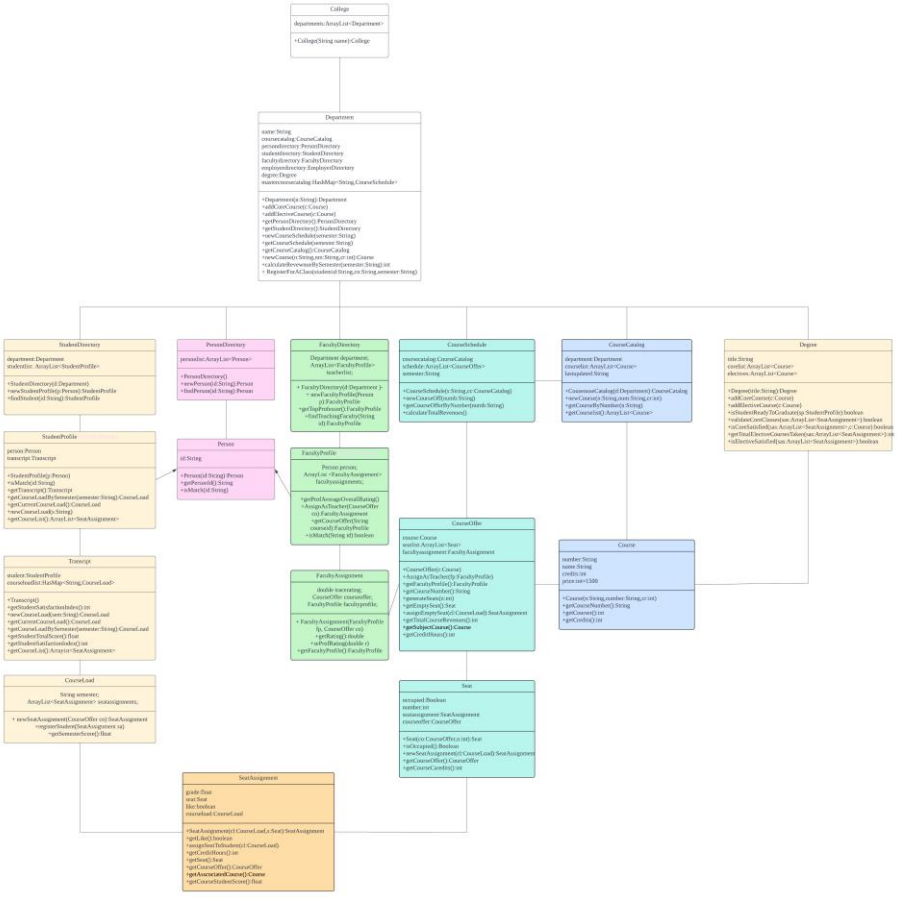
7. Students declare they want to graduate. The certification authority would review their transcript and certify the result.

8. A dashboard that enables platform owners to collect performance data of different varieties.

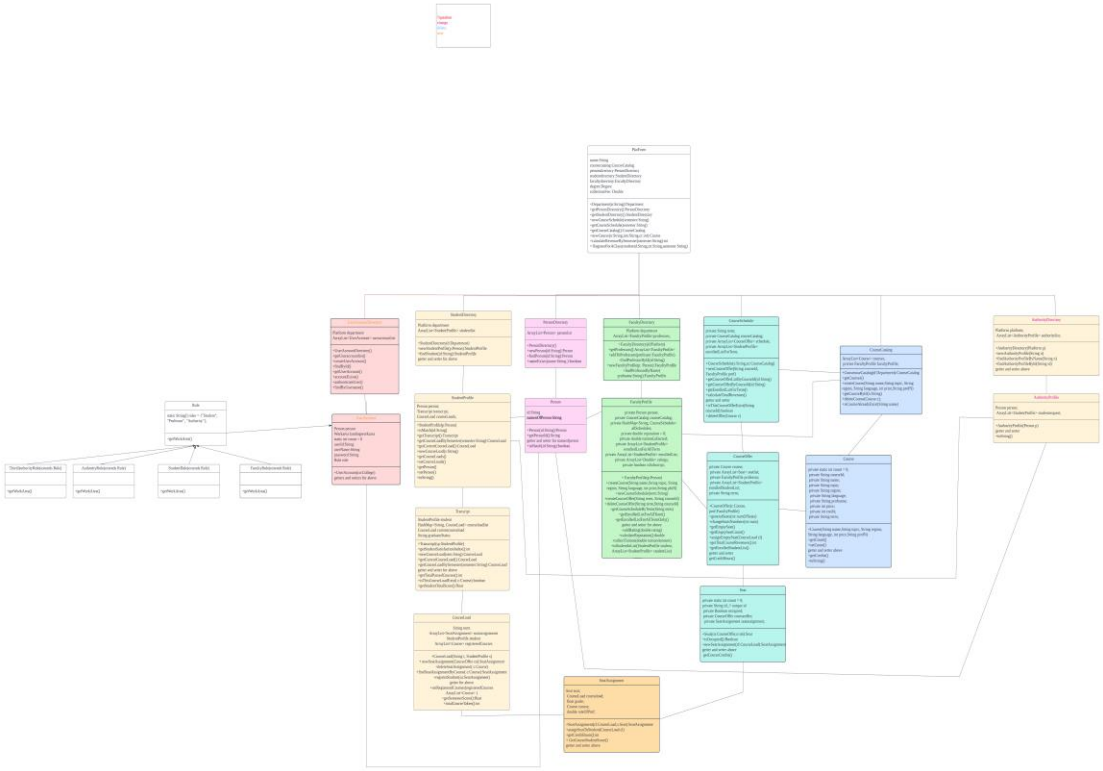
9. Any additional innovative idea you see appropriate (bonus points)

Class Design Decisions：

(1)University-model

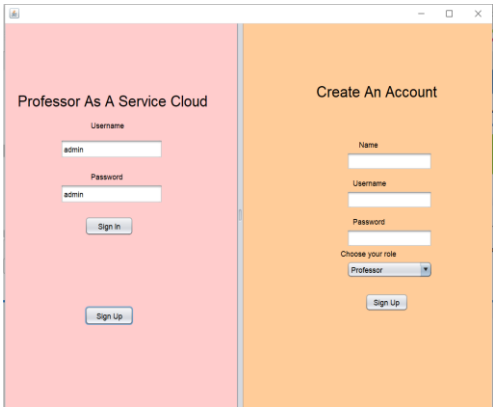


(2) Professor-As-A Service-model

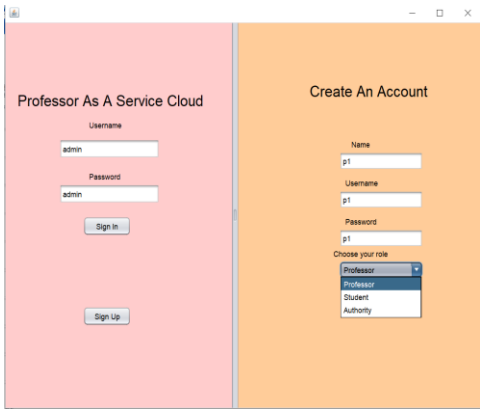


Design Model：

1.Sign up as admin



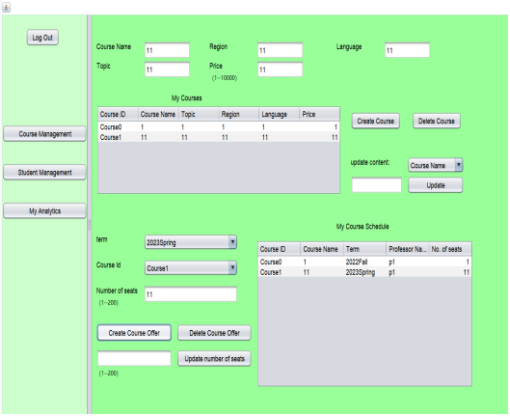
2.Sign up with different roles



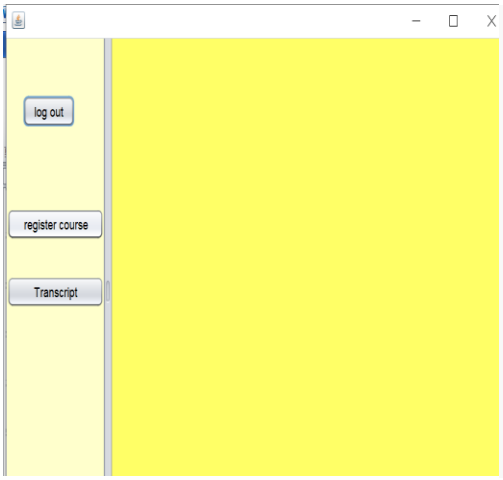
3.Sign up as professor

4.Click Course Management btn

(create/delete course and make course schedule)

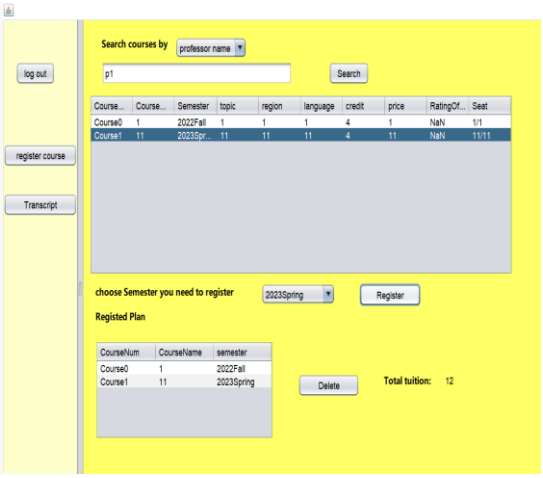


5. Sign in as student



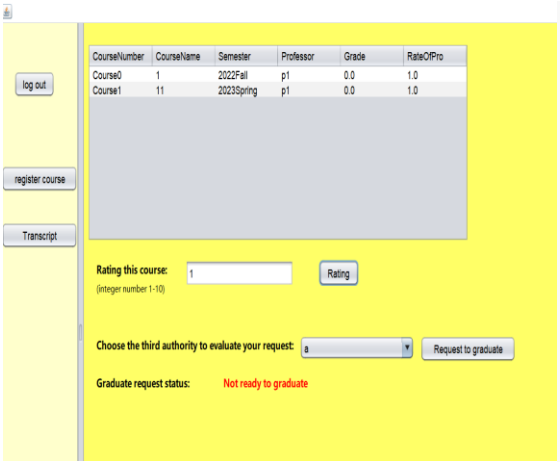
6.click register course btn

(search course &register/delete course for different term)



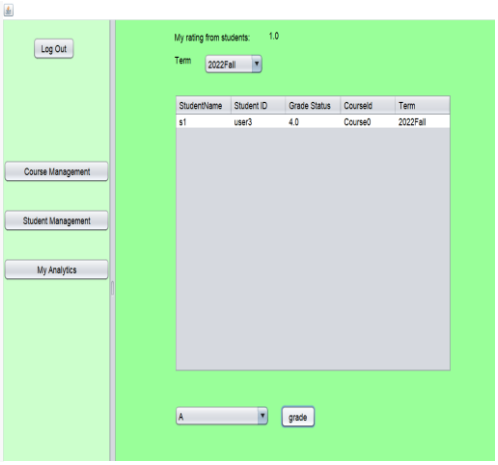
7. click transcript

(grade professor's course)



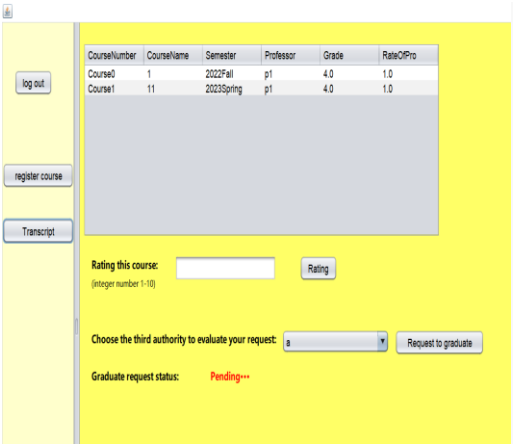
8.sign in as professor, click student management

(grade student for different course)



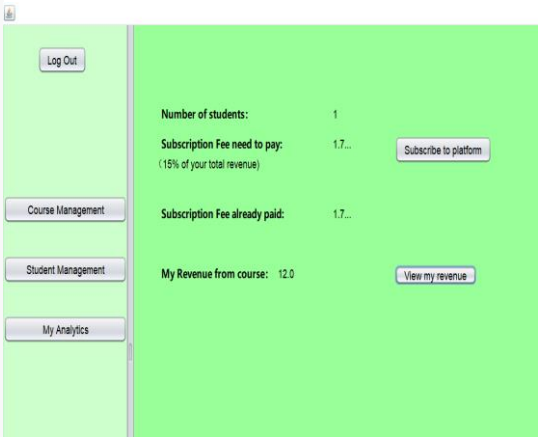
9.Sign in as student, click transcript

(student can see grade and ask graduate)



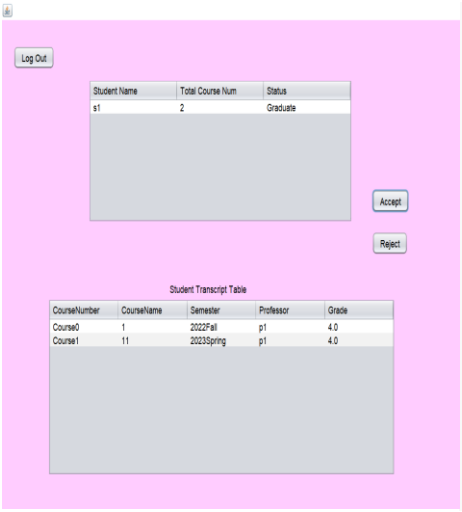
10.Sign in as professor, click my analysis

(view registered students number and total revenue& subscribe fee to platform)



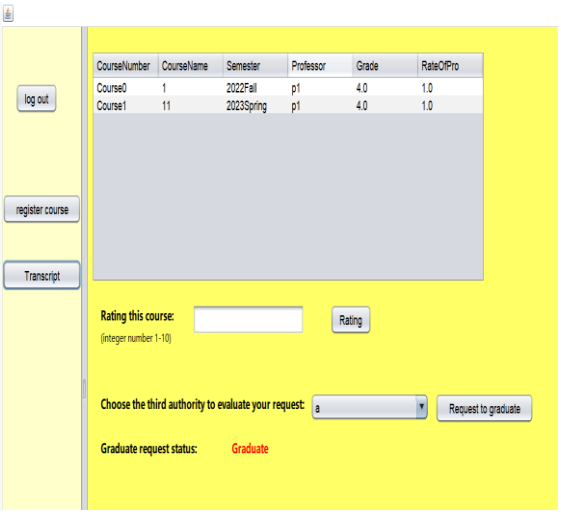
11.Sign in as authority

(approve/reject student's graduate request)



12. Sign in as student, click transcript

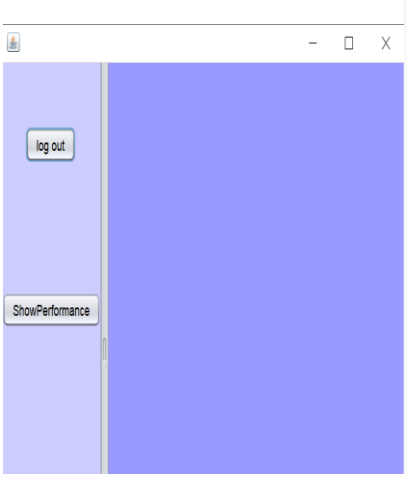
(graduate request status changed)

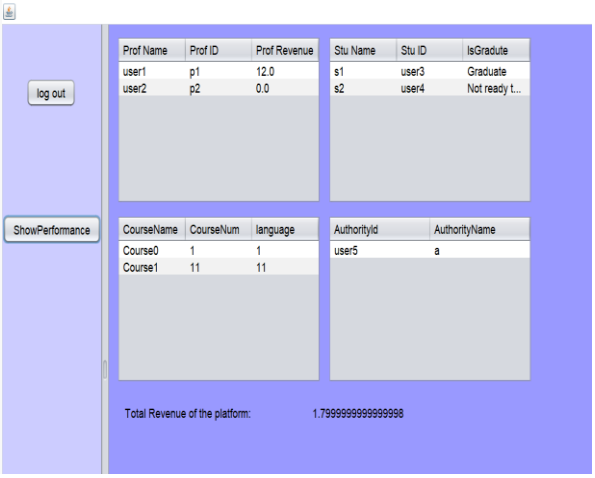


13.sign in as admin

14.click show performance

(view all information, like professor, student, course, authority, platform revenue etc.)





Functionalities：

Admin model：default username and password are admin
1.Register for three different roles(professor student authority)
2.View platform information(professor, course, student, authority and platform revenue)

Professor model:
1.Add/update/delete course information
2.Make schedule for courses' seats and term
3.Grade every course enrolled students (A = 4.0)
4.View total revenue and number of enrolled students
5.Subscribe course income to platform

Student model:
1.Search course by professor name/coursename/topic/region/language
2.According search outcome to register course
3.View transcript for all registered course
4.Rate for all registered courses' professor
5.Request for graduation
6.View graduation status

Authority model:
1.Manage students' graduate request(meet 8 credits courses passed& courses should be taught by different professors)

Opinion and Conclusion：

The future digital education platform greatly reduces the difficulty for less affluent people to access quality courses because professors can be unrestricted by region and language, etc. In addition, professors can carry out some free courses regularly according to the course topics, such as python course free in fall 2022, as an educational charity to support the learning of less affluent people, in addition, professors can also reach cooperation with the platform, such as In addition, professors can also reach cooperation with the platform, for example, professors can pay less, provide more courses and students, and attract more students and professors to use the platform, so as to increase revenue. In general, whether the future development of digital education platforms can make education more accessible and affordable to the less affluent depends on the cooperation between the platform and professors, but any party that takes profit as the first goal will threaten the healthy development of the platform.