Northeastern University
INFO5100 - Application Engineering and Development

Team

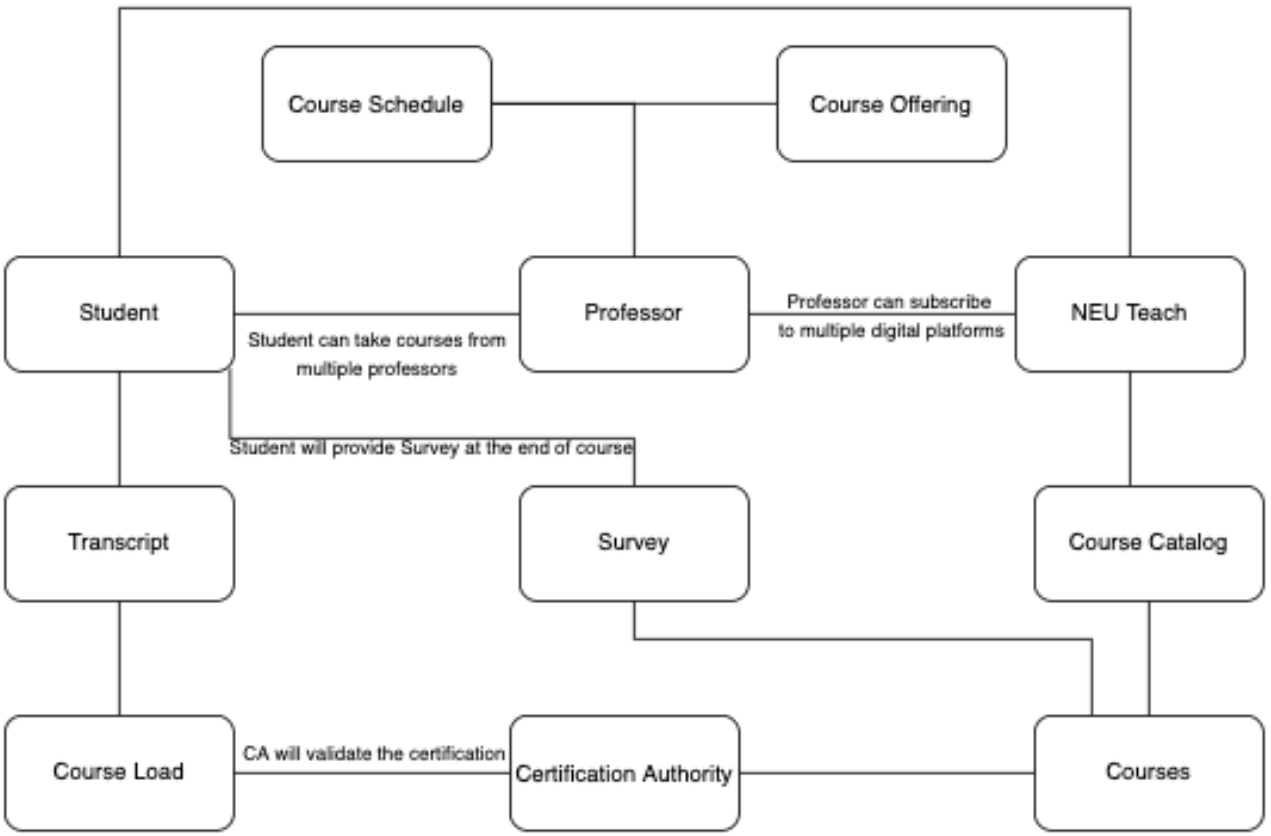
Apurva Zawar 2920595
Pooja Dhamne 2922247
Rutuja Wavikar 2922921

Professor as a Service Model

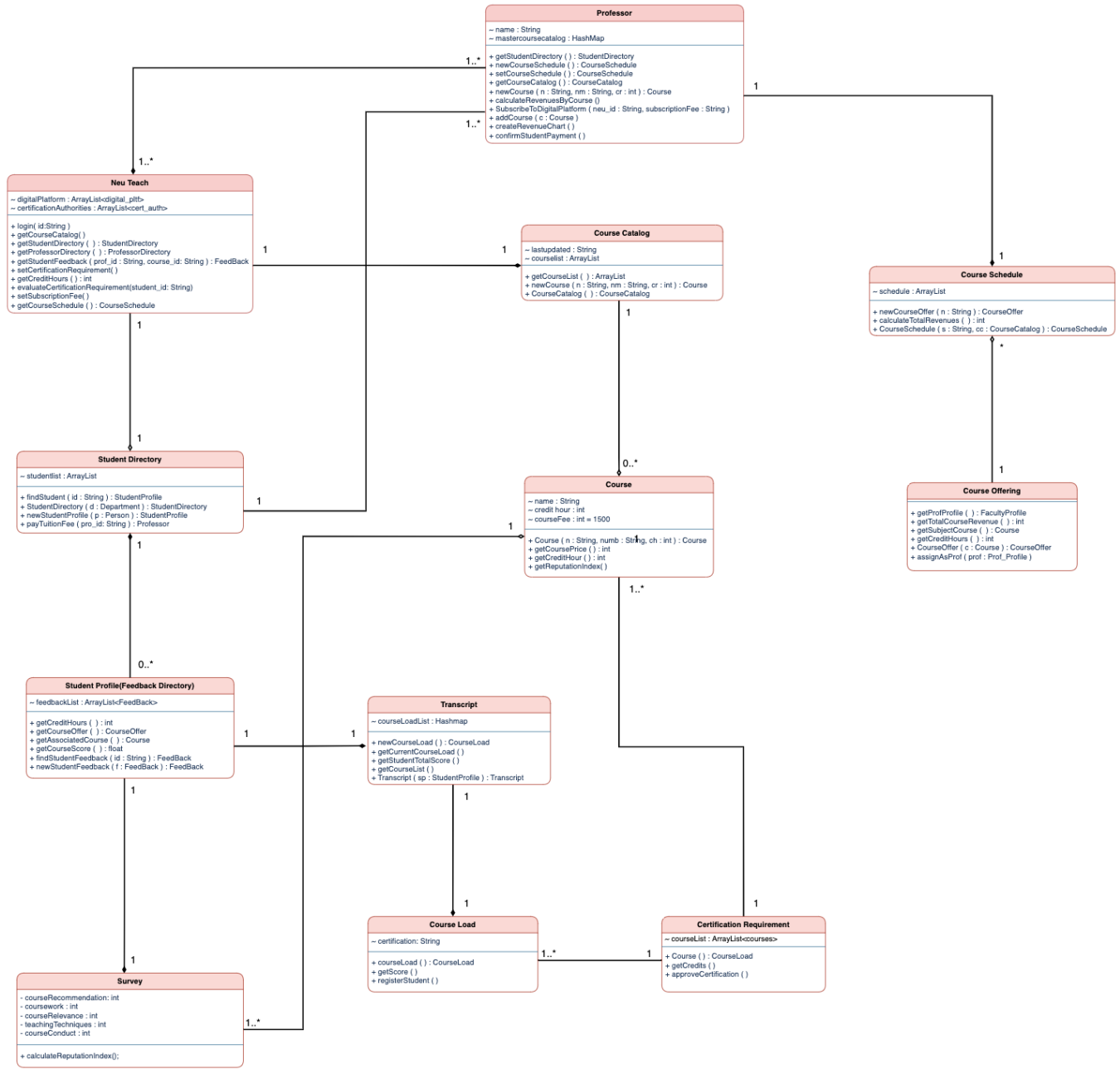
Aim and Objective:

The model is designed keeping in mind the latest trends and with an aim to simplify it for teachers to understand how their courses are performing and understand all the data in an effective way using the interactive dashboards. This system is designed in a way wherein it helps the professor keep track of the courses being offered, register with educational platforms, manage subscription fees, and assign a class schedule to students accordingly. We have also included the feature that allows the professor to retrieve a survey about the teaching methods used in the courses taken at the time of the student's course completion.It will provide the best experience for teachers that helps them to boosts the conversions and increase the course completion rate as well as make necessary improvements.

Architecture diagram:

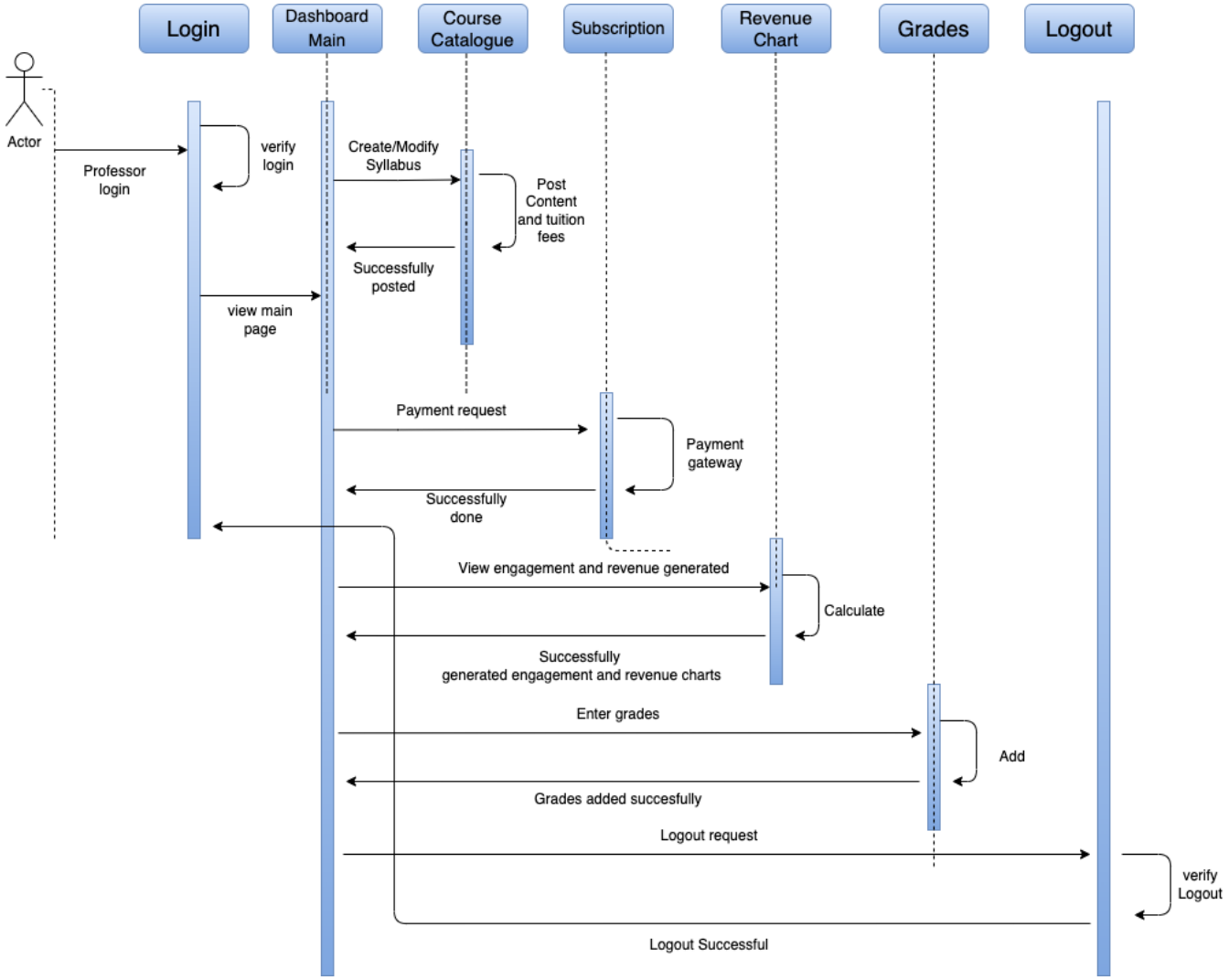


UML Class diagram:

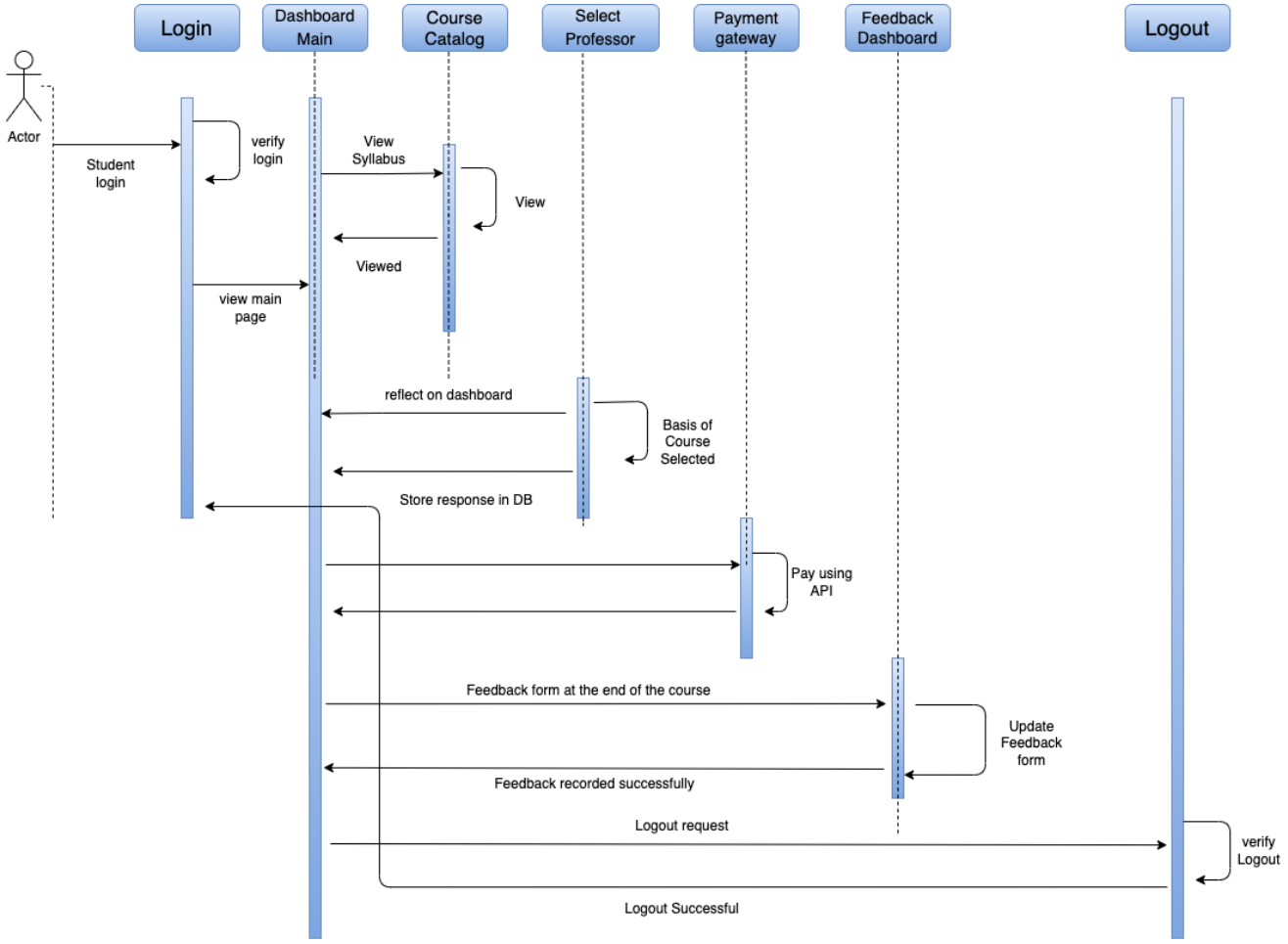


Sequence Diagram

Professor: Sequence Diagram



Student: Sequence Diagram

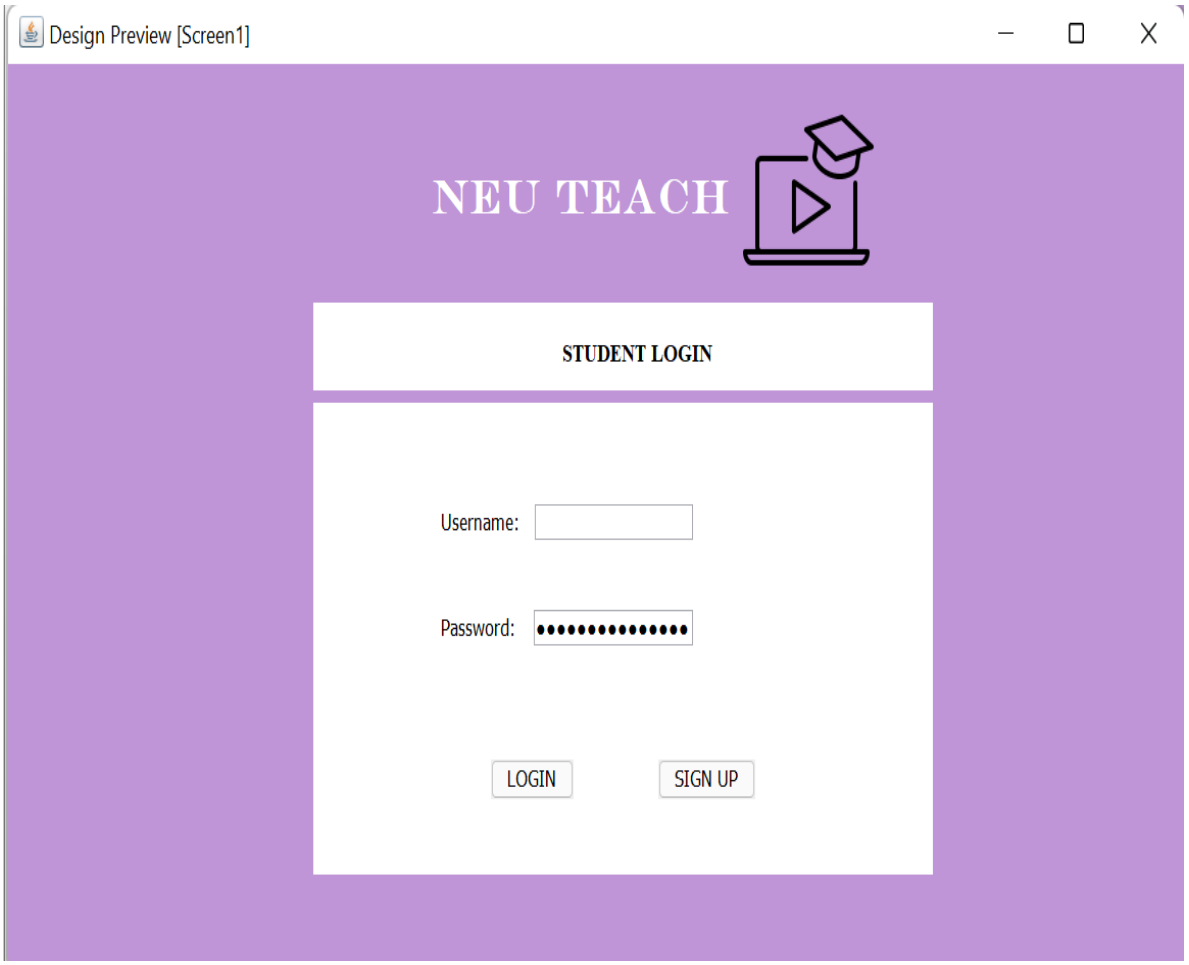


Implementation:

We created Login and Sign up pages for three of the five entities in the Professor as a Service model, namely Professor: Login/Sign up, Admin: Login/Signup, and Student: Login/Sign up. Professors must sign up for a subscription to the Institutional platform, which offers courses across multiple degrees. The institution is made up of data and a professor's database. Students can log in or sign up for the professor's courses.

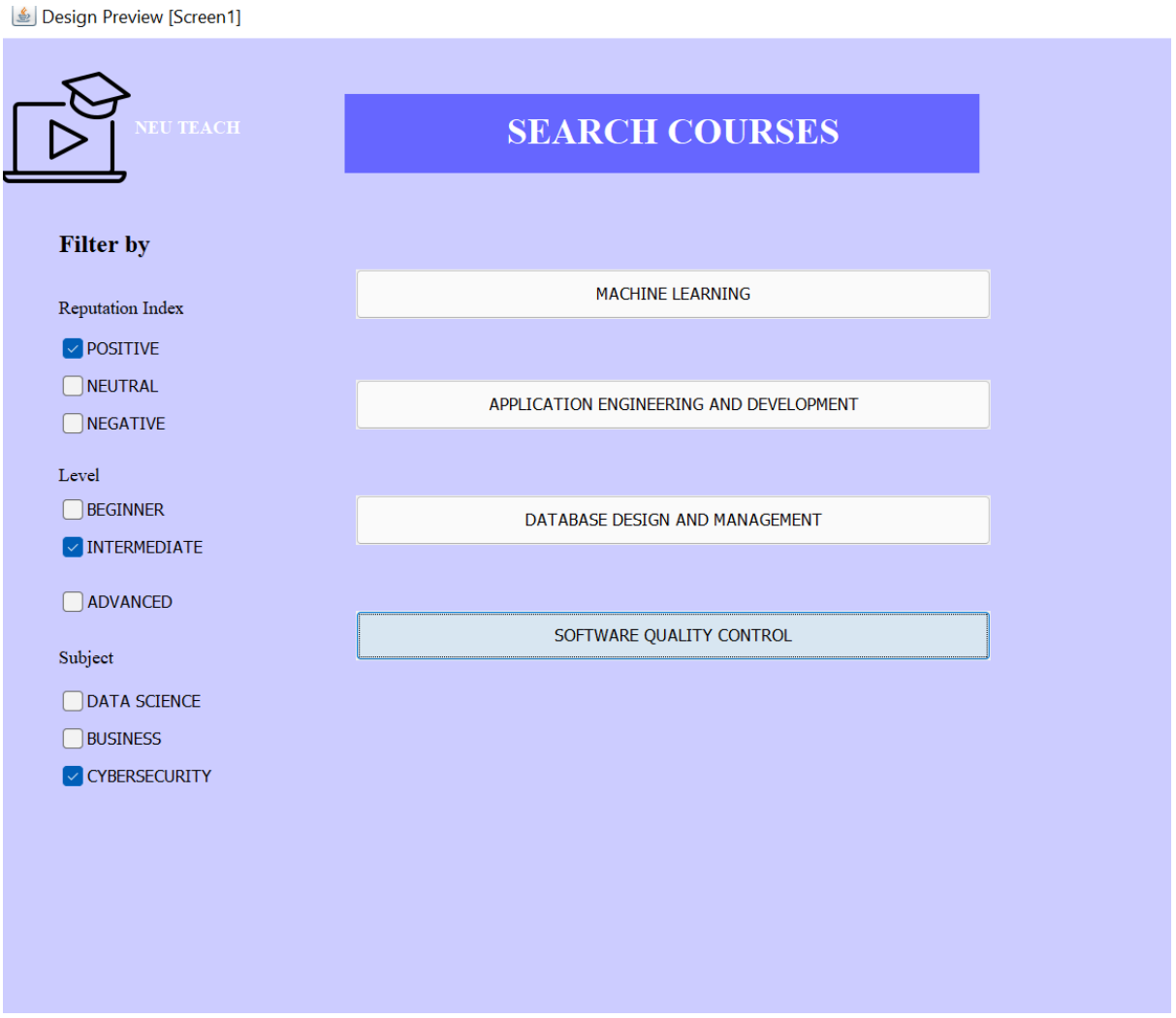
Student: User Interface

Student Login/Signup Page



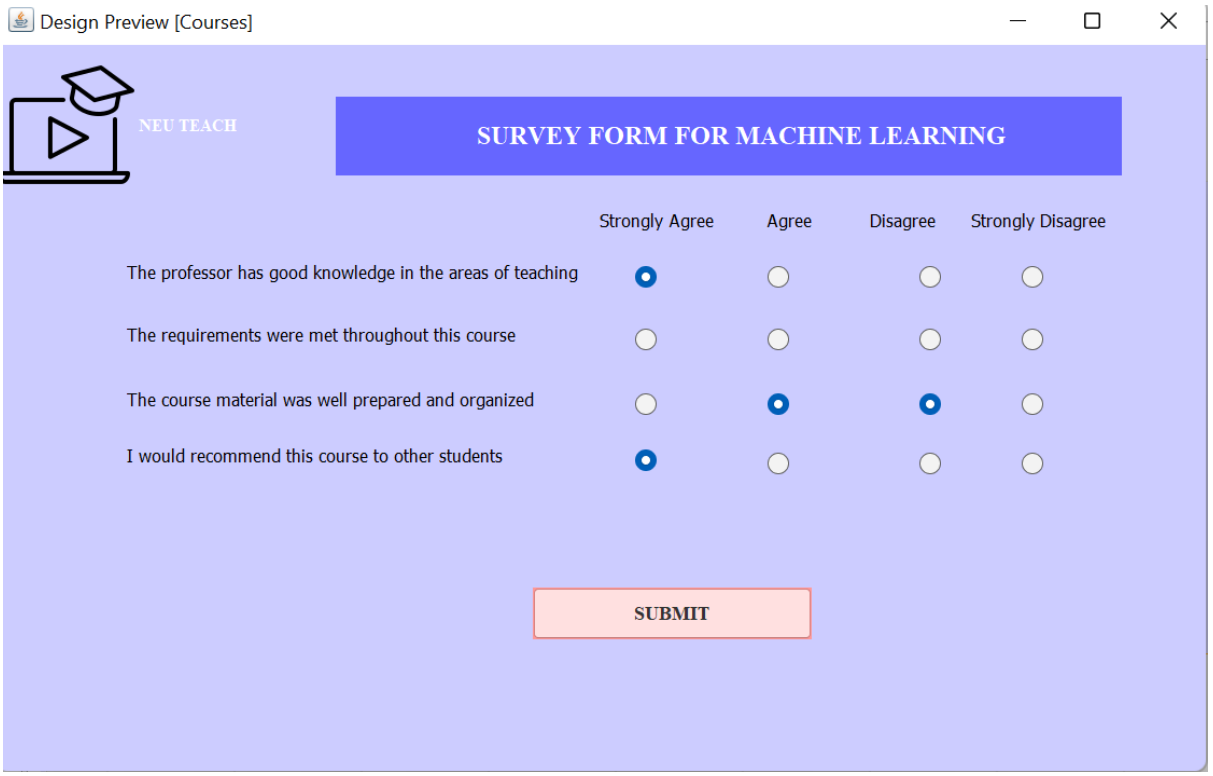
Course Registration

The students can register for courses by choosing amongst the courses offered by the selected professors. The available courses can be selected from the drop-down menu for the chosen professor. The Register-Courses button will help to keep the record of the courses selected by the student.

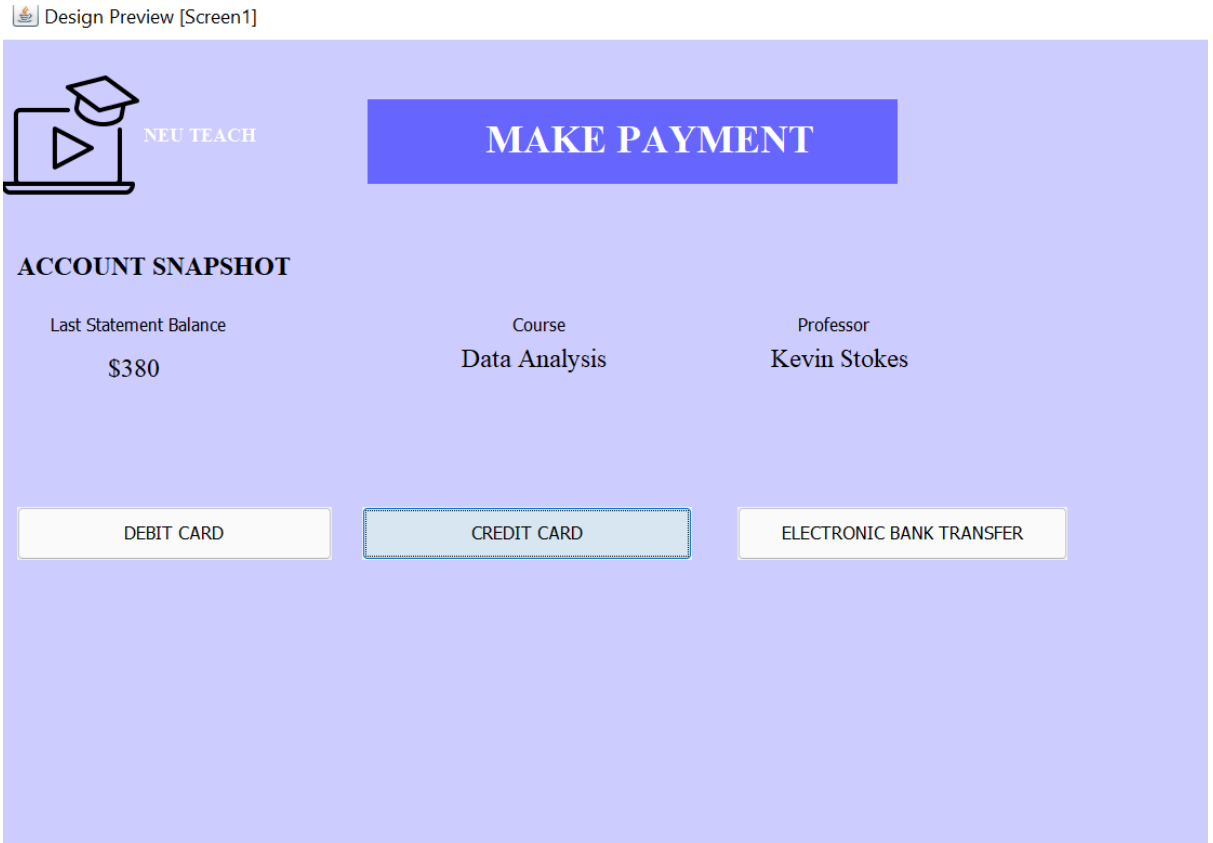


Course Details view

Survey Form

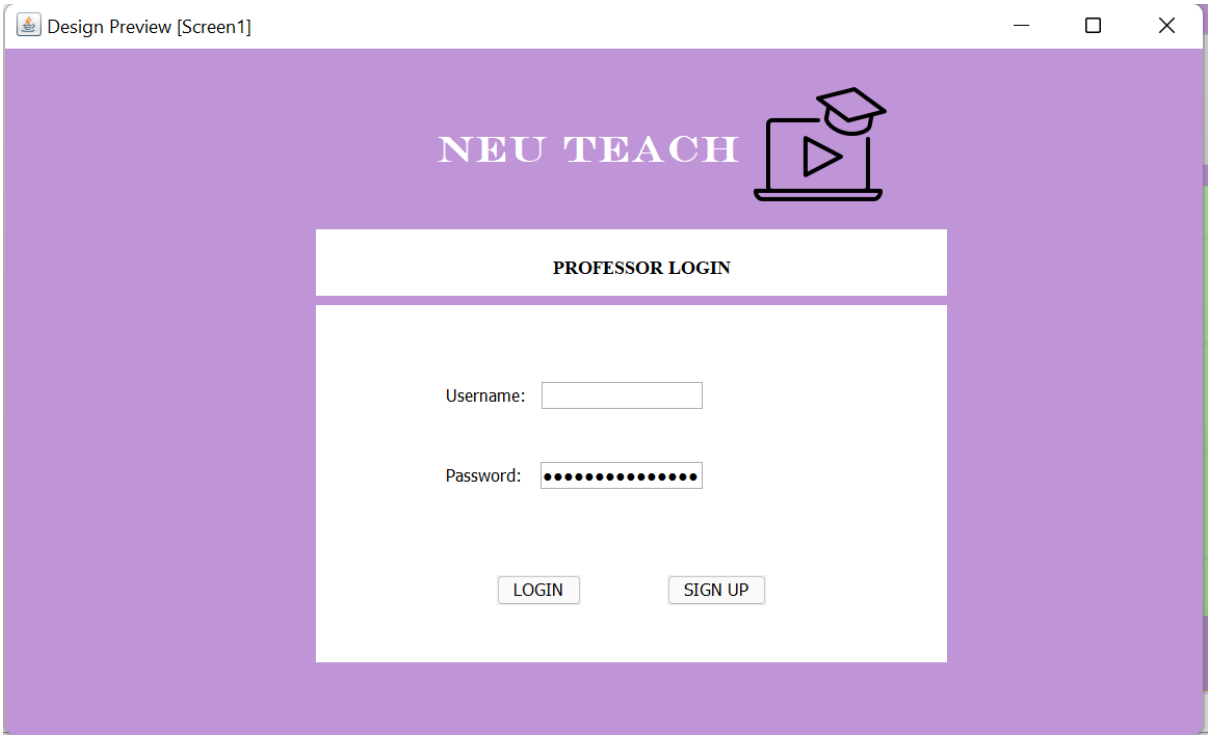


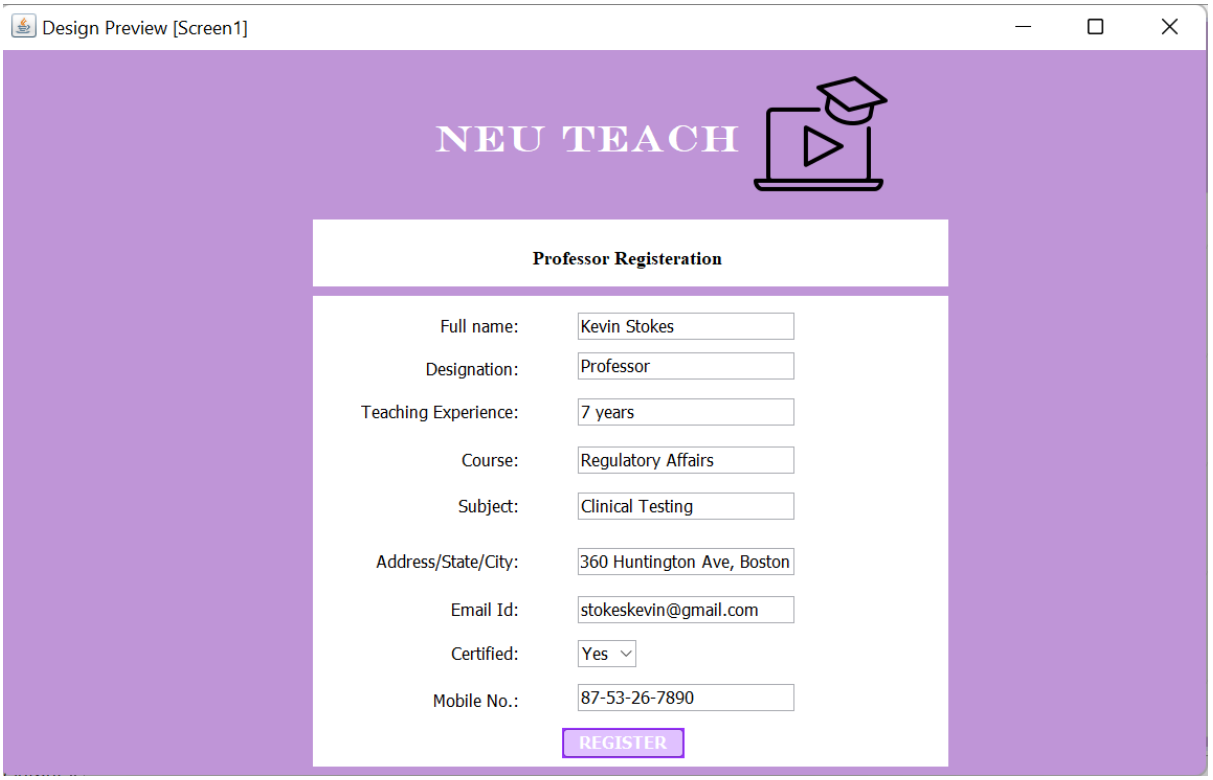
Payment Gateway



Professor: User Interface

Professor Login/Sign up





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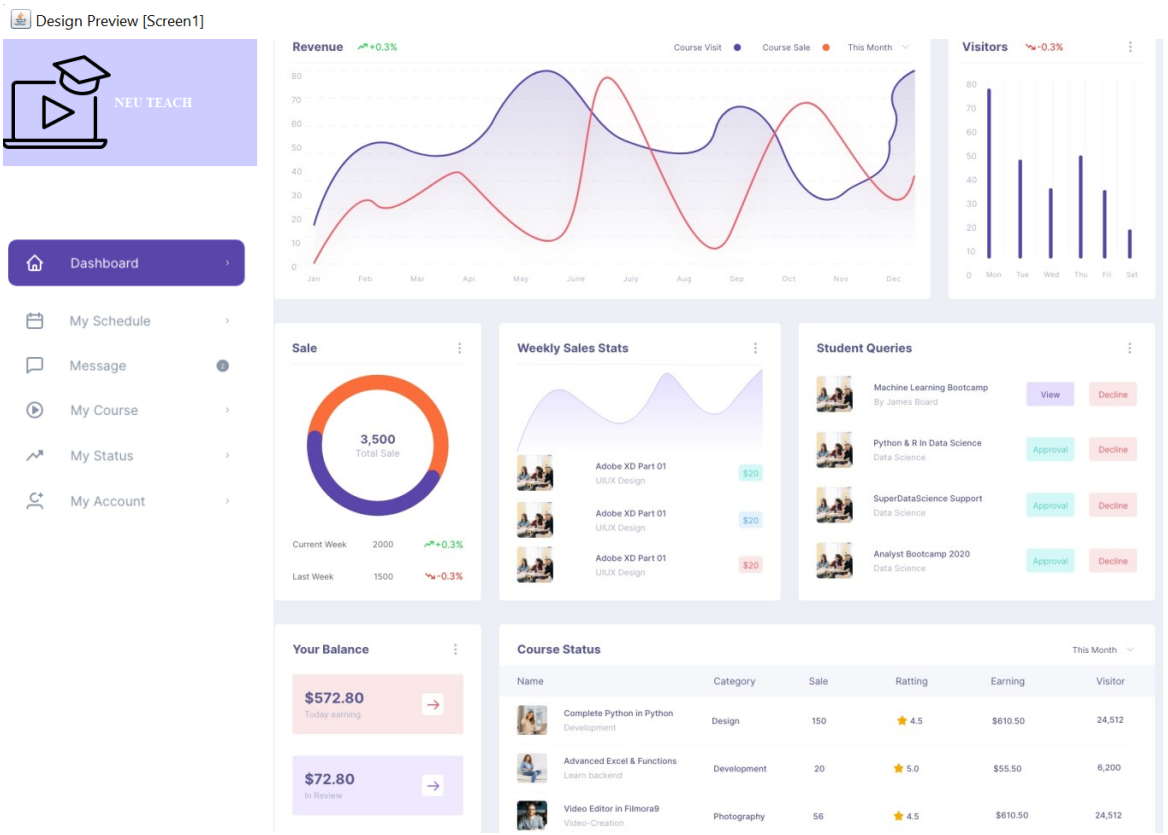
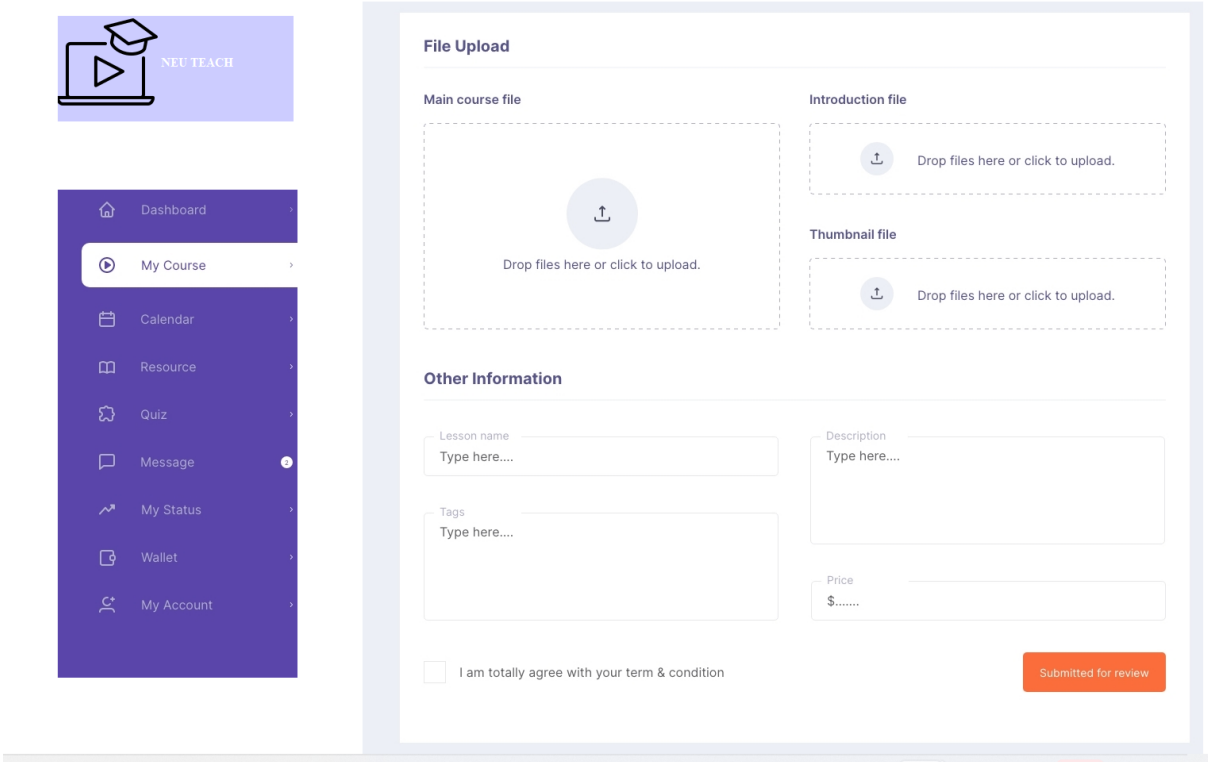
Professor Dashboard and Reports

Design Preview [Screen1]



Add new course

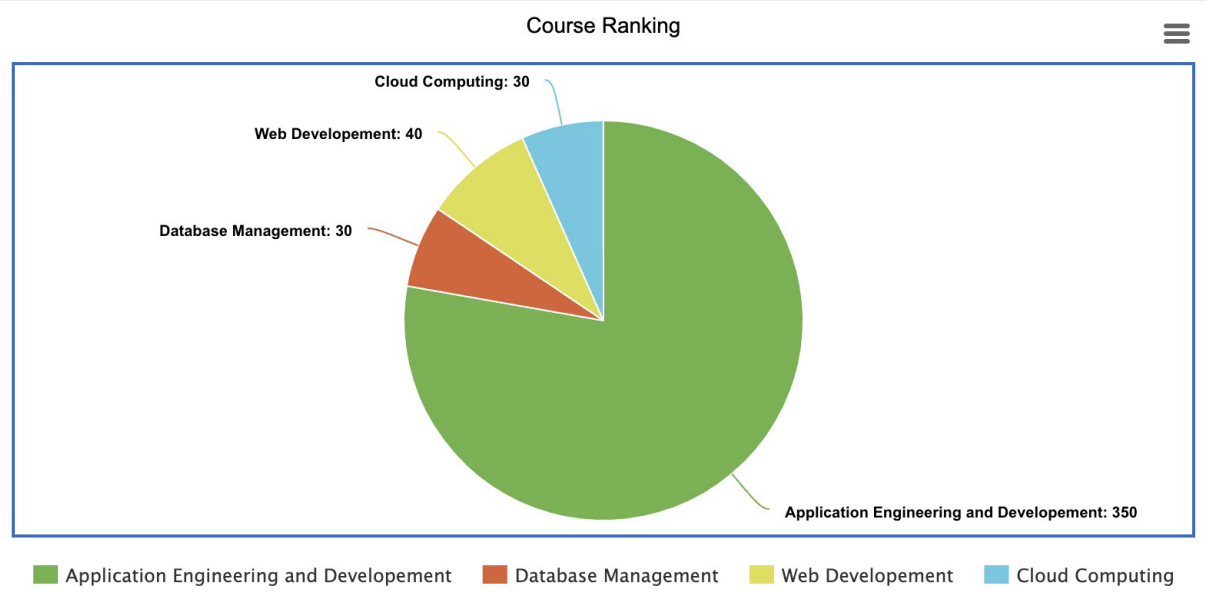
Design Preview [Screen1]



Admin Reports: User Interface

Popularity of the Courses:

It is calculated based on courses opted by students in a semester who were hired in each department.



Conclusion

With the help of our model, we can track several performance metrics that can be used to monitor the professor's role in relation to the services provided. With the help of revenue charts, a professor can analyse average revenue. The feedback component can assist the professor in making improvements and implementing immersive learning methods. In the aforementioned scenario, service is broadly defined as the act of supporting the broader society through the efforts of the online education community. This model can be used successfully as a service quality imperative for "Quality Assurance" in student education.

Based on this system, a third party digital platform can certainly monitor the growth of their enrolled professors while reducing the overall investments in tuition fees, since there would be no additional fee paid for the university infrastructure and furthermore taking necessary steps in order to make it better.