

ASSIGNMENT 3

PROFESSOR AS A SERVICE

TEAM MEMBERS

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PROBLEM STATEMENT

The goal is to reduce tuition costs while improving the quality of education around the world with software engineering techniques. In order to improve the quality of life for the masses, we want to hold people accountable through education, learning to learn, and feedback.

OBJECTIVE

To provide a decentralized system where professors hold rights to their talent and experience, not the educational institutions. The system was designed to analyze the statistical data obtained from observing students in a professional setting and analyzing the courses that helped students succeed in their career without having to pay higher tuition fees.

PROPOSED SOLUTION

- Each professor manages his or her own classes as well as when they will teach them.
- The professor will be able to log into the service from anywhere in the world and on any device.
- The professor has full control over the price per course.
- The student will be able to log into the service from anywhere in the world and on any device.
- Students may take courses from a variety of professors (located anywhere in the world) to earn their degree
- Students can take their preferred courses from their preferred instructor.
- Students are allowed to register for courses based on their willingness, there is no restriction imposed on the number of courses to be registered for any given period.
- Students are offered a waiver on the courses based on their highest degree grade which makes it easier for financially challenged students.
- Depending on demand the price per course can vary: if demand is higher than the price is increased by the professor by a negligible amount and, if demand is lower than the price is decreased by the professor by a negligible amount.
- Employers can get information about the courses learnt by a student by fetching data from student course history.

PERFORMANCE METRICS:

GPA and Grades will be evaluated based on the metrics below:

GPA	Percentage scored %	Grade
4.00	94% and 100%	A
3.75	90% and < 94%	A-
3.50	87% and < 90%	B+
3.25	84% and < 87%	B
3.00	80% and < 84%	B-
2.75	77% and < 80%	C+
2.50	74% and < 77%	C
2.25	70% and < 74%	C-
2.00	0% and < 70%	F

Fee waiver will be calculated based on:

Calculation of tuition fees with applied waivers for students based on the GPA obtained by them.

GPA obtained	Waiver offered on Tuition
4.00	65%
3.75	60%
3.50	55%
3.25	50%

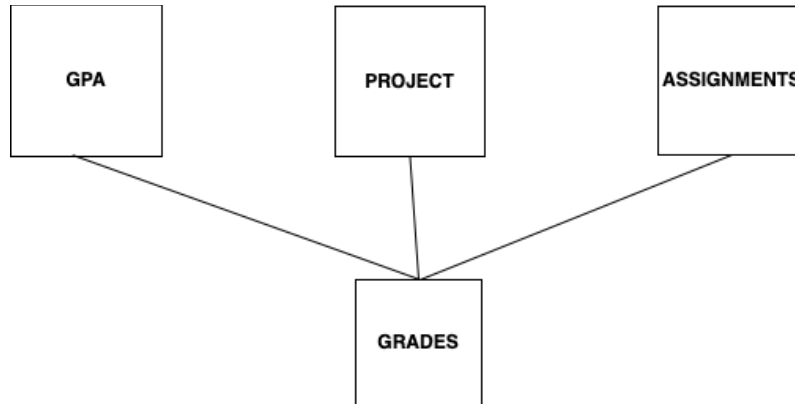
Fee waiver calculations based on Annual Income:

Calculation of tuition fees with applied waivers for parents with annual income between \$25000-\$35000.

Annual Income	Waiver offered on Tuition
< \$25,000	80%
\$25,000 - \$30,000	75%
\$30,000 - \$35,000	70%

Student Grading Metric:

This estimates student grades based on grades there's further waiver on tuition fees. Grades will be awarded based on Assignments, projects, and quizzes. The professor's course cost will be calculated based on this metric.



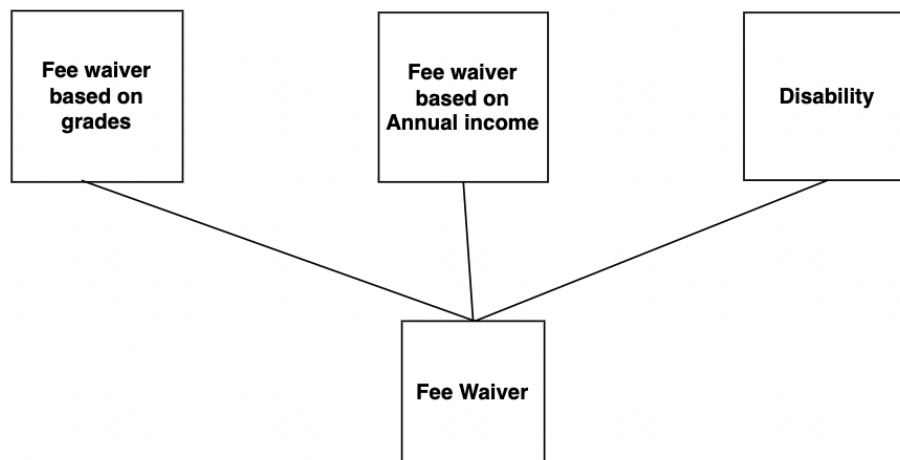
Professor Reputation Index:

This metric will help us calculate professor's performance based on the ratings and reviews given by the students.



Fee waiver Index:

We have offered different fee waivers based on financial status, grades, and disability.

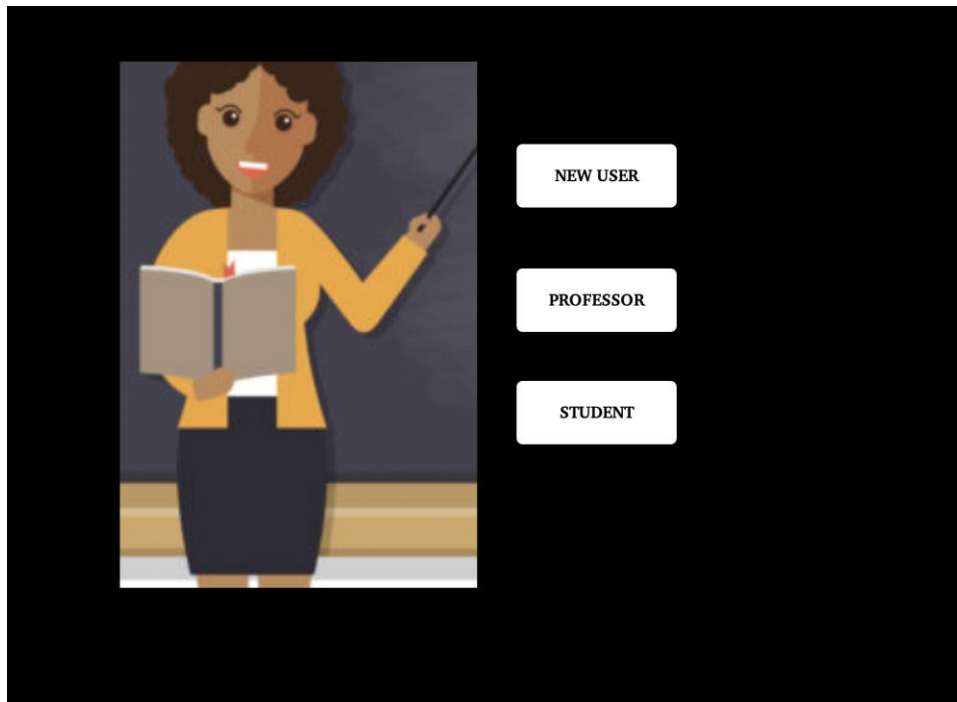


CONCLUSION

Equality states that every student, regardless of where they come from, should have equal access to a high-quality education. It is not accessible to everyone equally due to a few limits such as financial status and geographic location, and the only individuals who have access are those who have the above-mentioned. Our approach focuses on making education accessible to anybody, wherever in the globe, by making it virtual and eliminating all traditional ways by providing Professors complete control over course creation and changing the pricing range of courses/degrees offered based on GPA.

UI DESIGN

Register as a user -



New User

page -



A mockup of a registration page. It features a light blue main content area and a grey sidebar on the left. The sidebar contains a 'NEW USER' link. The main area is titled 'REGISTER' and contains two buttons: 'SIGN UP AS A STUDENT' and 'SIGN UP AS A PROFESSOR'.

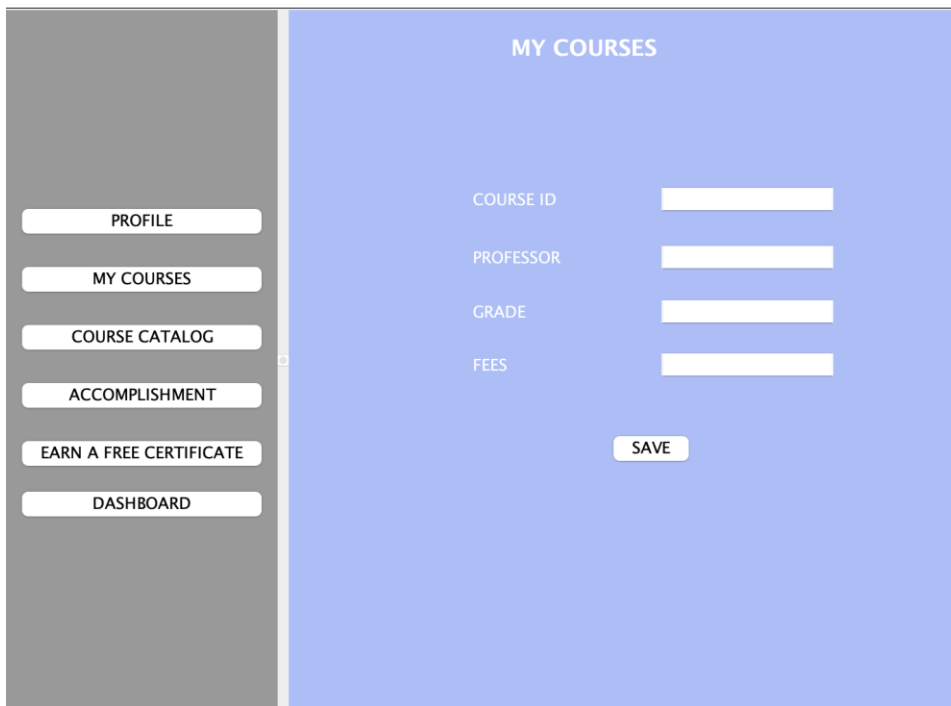
NEW USER

REGISTER

SIGN UP AS A STUDENT

SIGN UP AS A PROFESSOR

Student page -



A mockup of a student's 'My Courses' page. It features a light blue main content area and a grey sidebar on the left. The sidebar contains a list of navigation links: 'PROFILE', 'MY COURSES', 'COURSE CATALOG', 'ACCOMPLISHMENT', 'EARN A FREE CERTIFICATE', and 'DASHBOARD'. The main area is titled 'MY COURSES' and contains a form with four input fields labeled 'COURSE ID', 'PROFESSOR', 'GRADE', and 'FEES', followed by a 'SAVE' button.

MY COURSES

COURSE ID

PROFESSOR

GRADE

FEES

SAVE

PROFILE

MY COURSES

COURSE CATALOG

ACCOMPLISHMENT

EARN A FREE CERTIFICATE

DASHBOARD

Professor Page -

SUBSCRIPTION

SUBSCRIPTION ID

PROFESSOR

DURATION

PRICE

PAY

Subscription Payment -

SUBSCRIPTION

SUBSCRIPTION ID

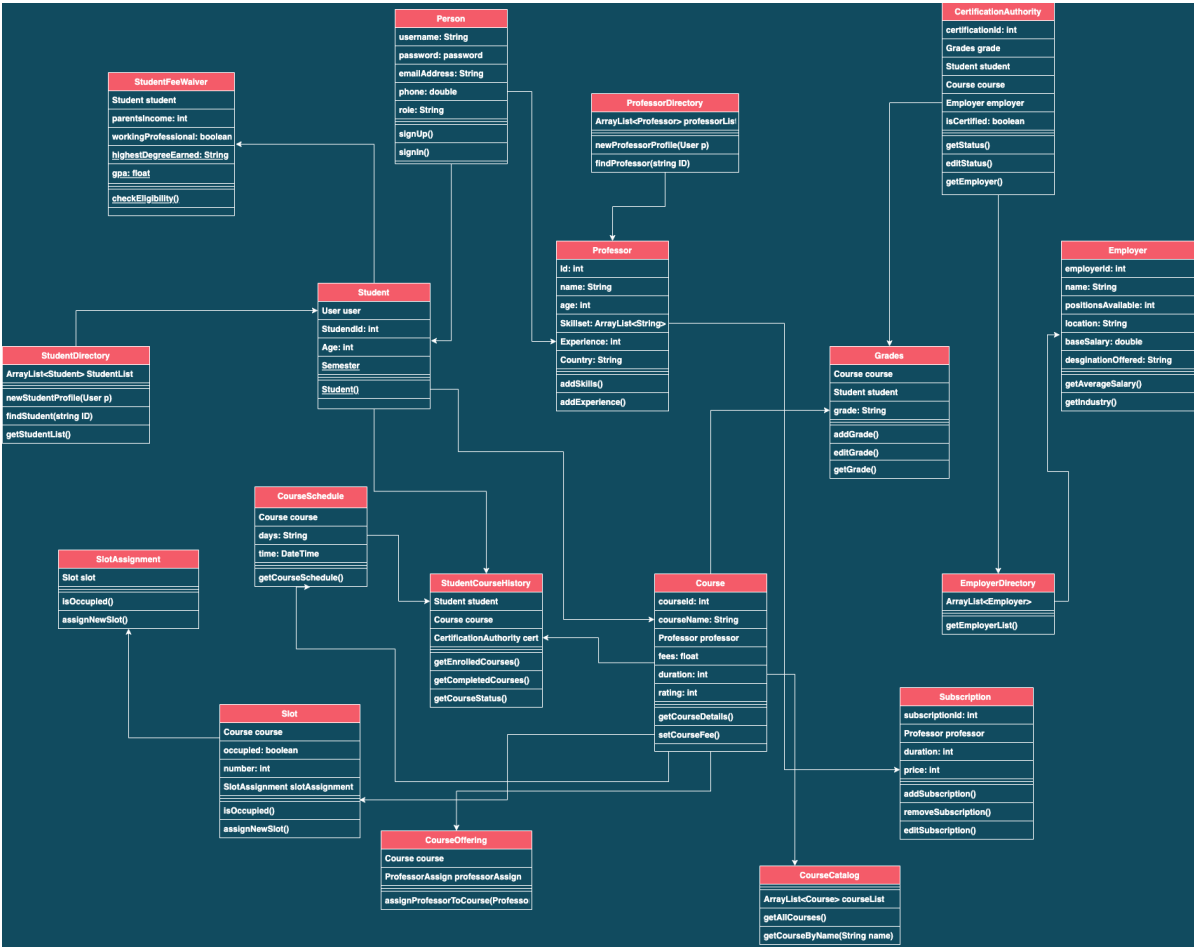
PROFESSOR

DURATION

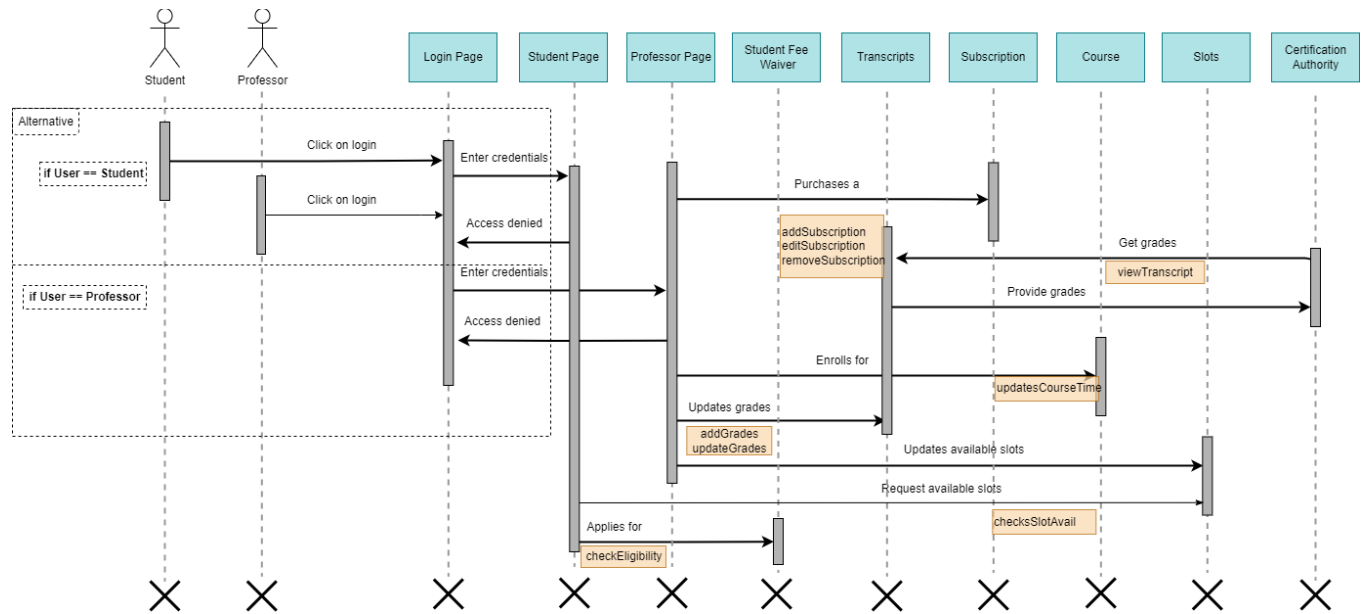
PRICE

PAY

UML DIAGRAM



SEQUENCE MODEL



ARCHITECTURE OF THE MODEL:

The diagram below illustrates how the new business model differs from the traditional university system, as well as its architecture.

