

E-LEARNING

(PROFESSOR AS A SERVICE)

TEAM MEMBERS:

002928645 KRISHNA TYAGI
002968050 SANKET KHADKE
002924191 SHREYA GOSRANI

This service functions as a set of tools that enables the Instructor/Professor to create course content and post it on the internet without having to dabble with any programming knowledge. This system has the potential to become an integral part of the upper education system. This makes teaching and course management easier by providing a framework and set of tools for the instructors. The executive aspects of this system include objectives such as: lecture/class schedules, the ability to record students' grades etc. The instructor must pay a subscription fee to avail this system. They are also entitled to collect tuition fees from the students they teach, and this system allows them to do so. With specific relevance to the teaching methodology, however, this system includes class exercises, quizzes, and tests. It focuses on various aspects of teaching, learning and teacher-student interaction.

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.

PROPOSED SOLUTION:

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:

- The professor can add or remove a course as per his or her specialty
- The students can enroll in these courses as per their liking
- The professor would create a schedule for the courses, and the professor also has the flexibility to alter that schedule
- The professor will pay a subscription fee for using this service platform
- The professor can collect tuition fees from the students

System summary:

For every course there should be consistent interaction between students and the professor. This interaction includes but is not limited to assignment submission and homework. In this existing system students must physically visit the professors and take an appointment from them to submit their work. The existing system as well as the system designed by us contains the following base three modules, however our implementation of these modules differs from the existing system with added functionalities.

Module Summary

Professor Module

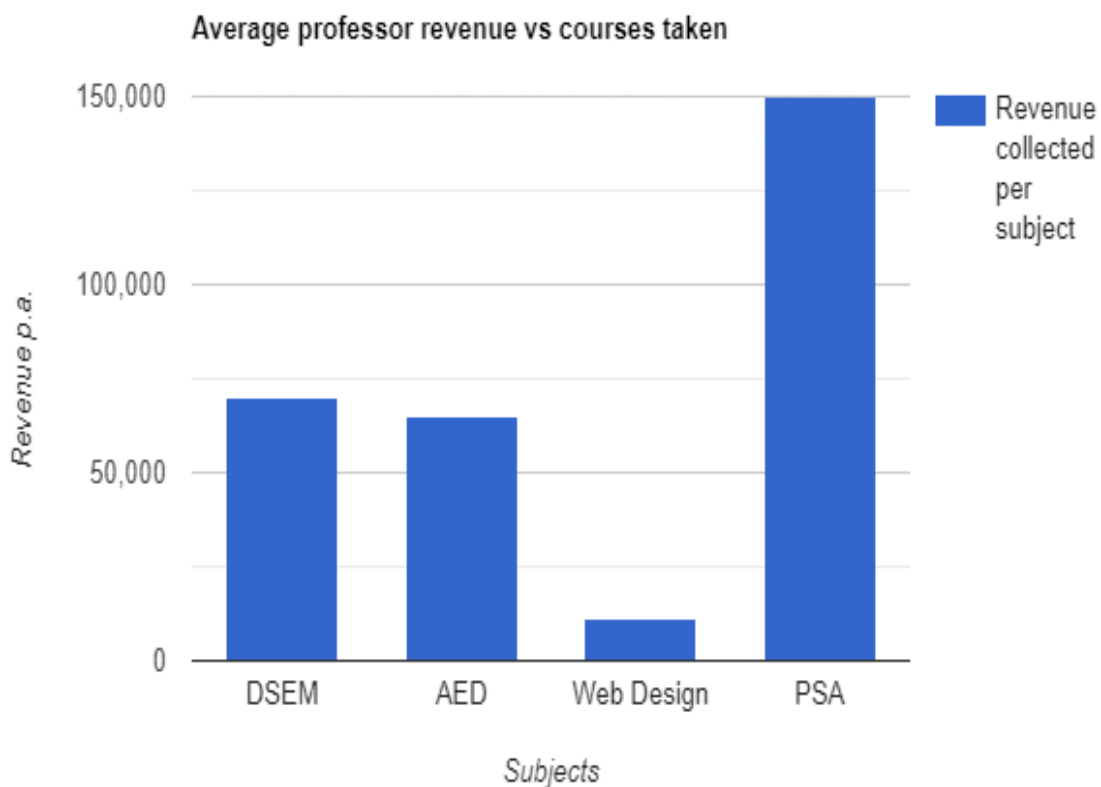
- It allows the professor to create/edit/delete courses as well as alter course schedules

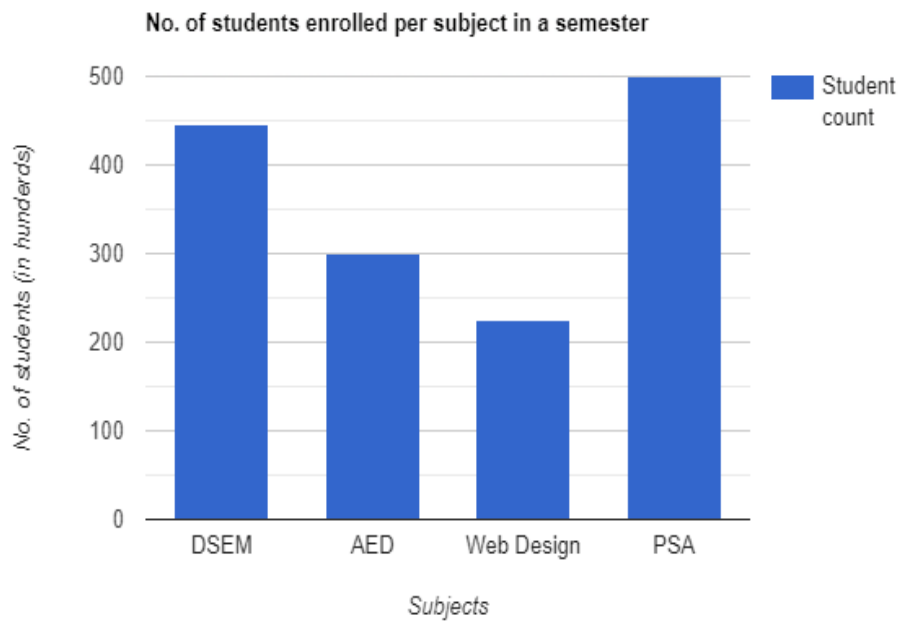
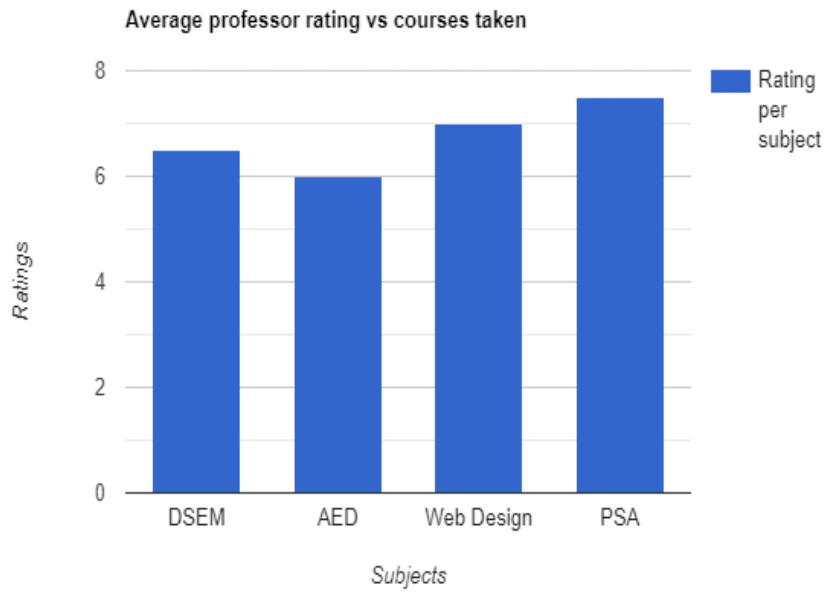
- It allows the professor to pay a subscription fee for platform usage and collect tuition fees directly from the students
- It allows the professor to check on a student's progress

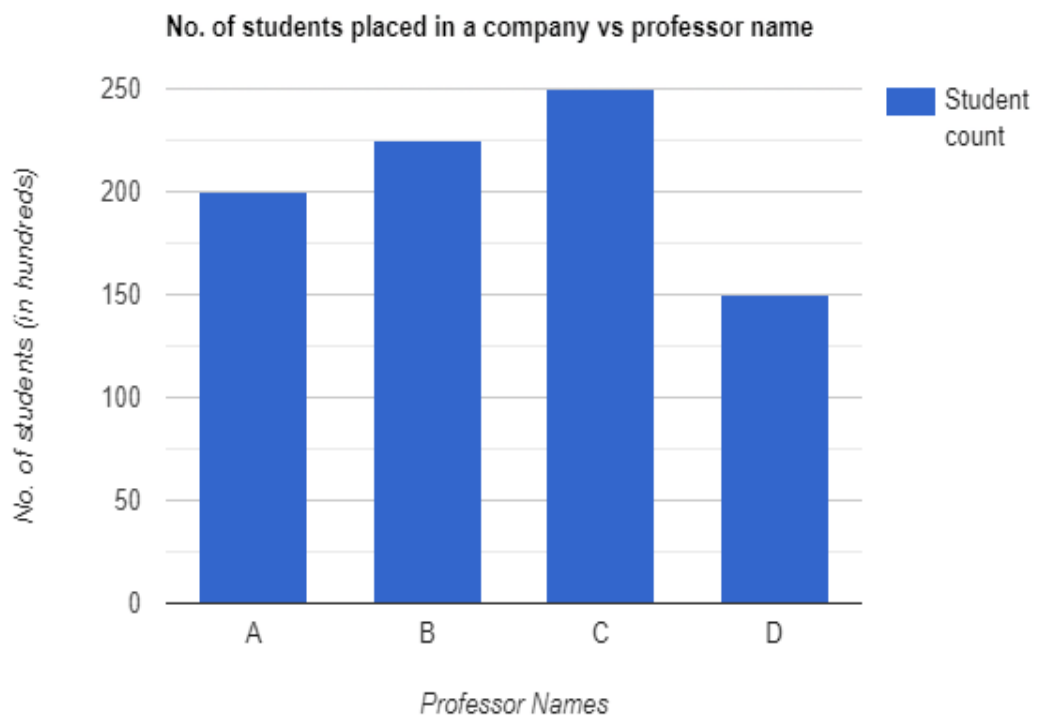
Student Module

- Students can view which course he or she wishes to enroll in from the course list
- Students can register for a course
- Students can view and pay the tuition fees
- Students can drop courses

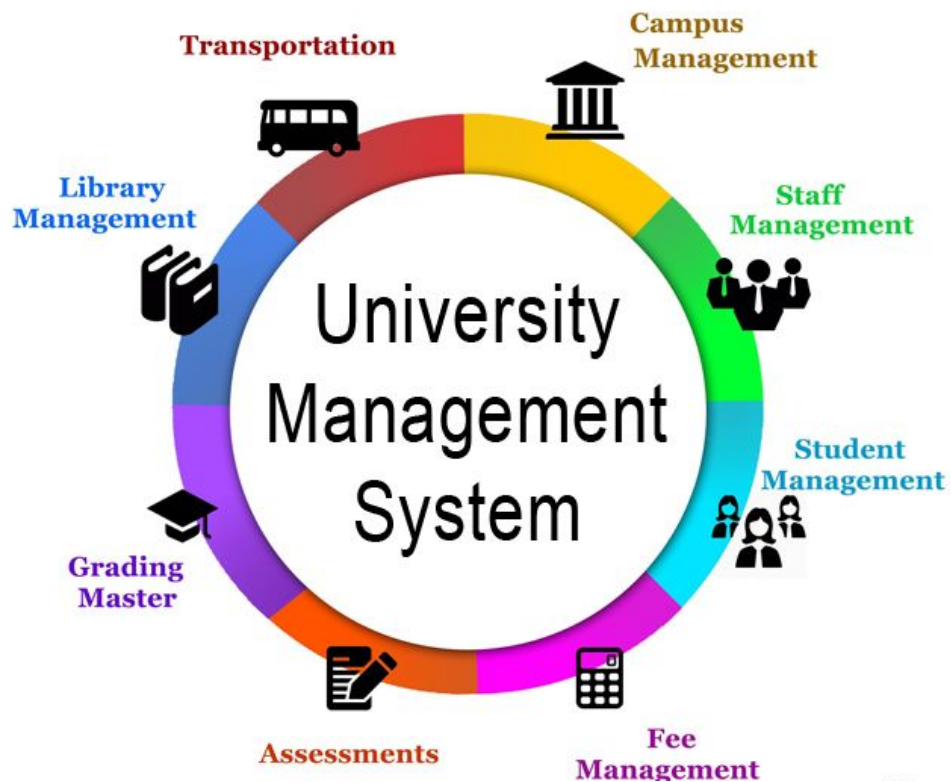
PERFORMANCE METRICS:



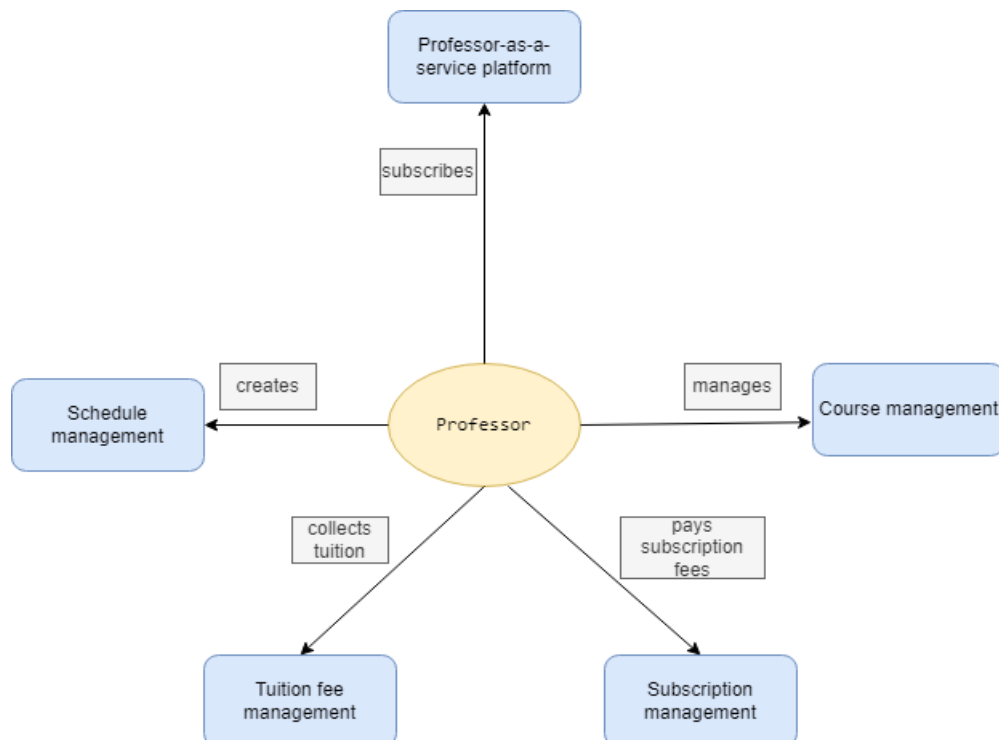




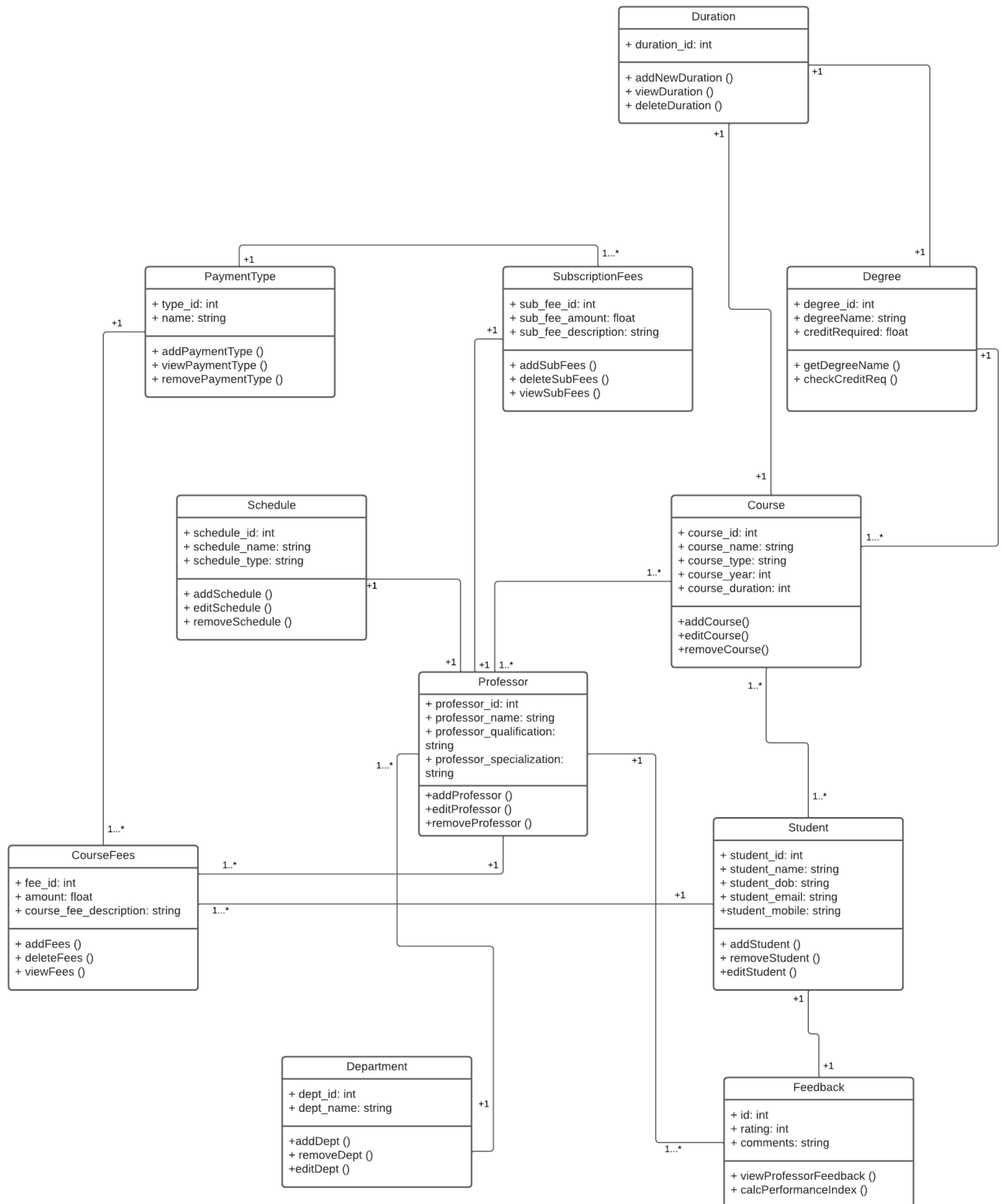
ARCHITECTURE OF OLD UNIVERSITY MODEL



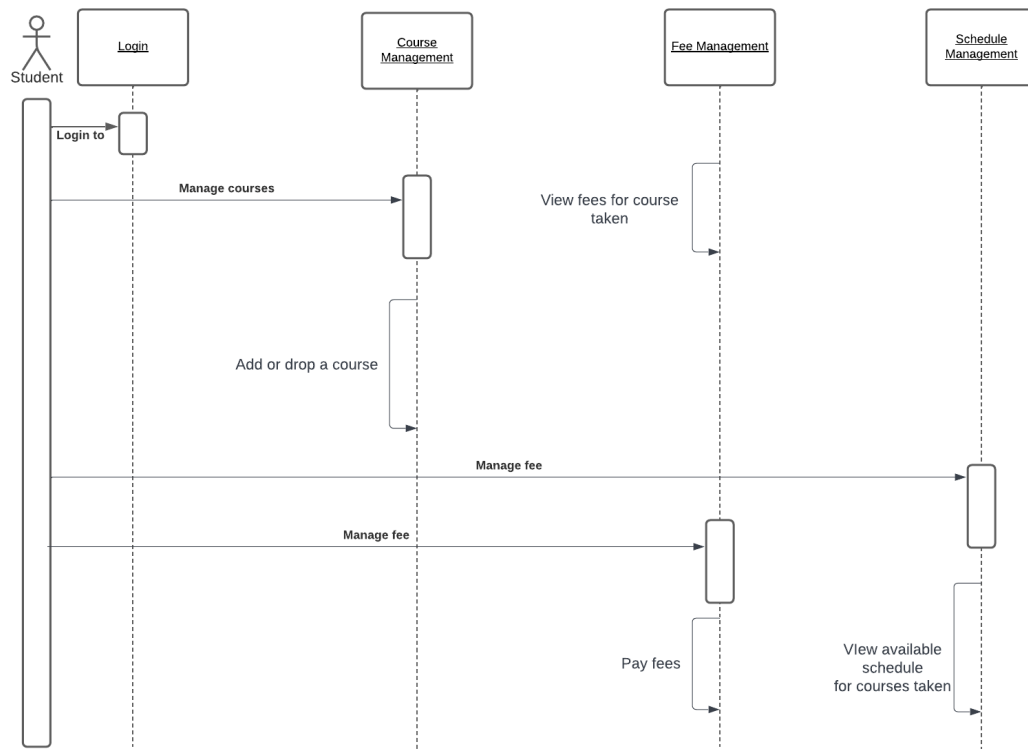
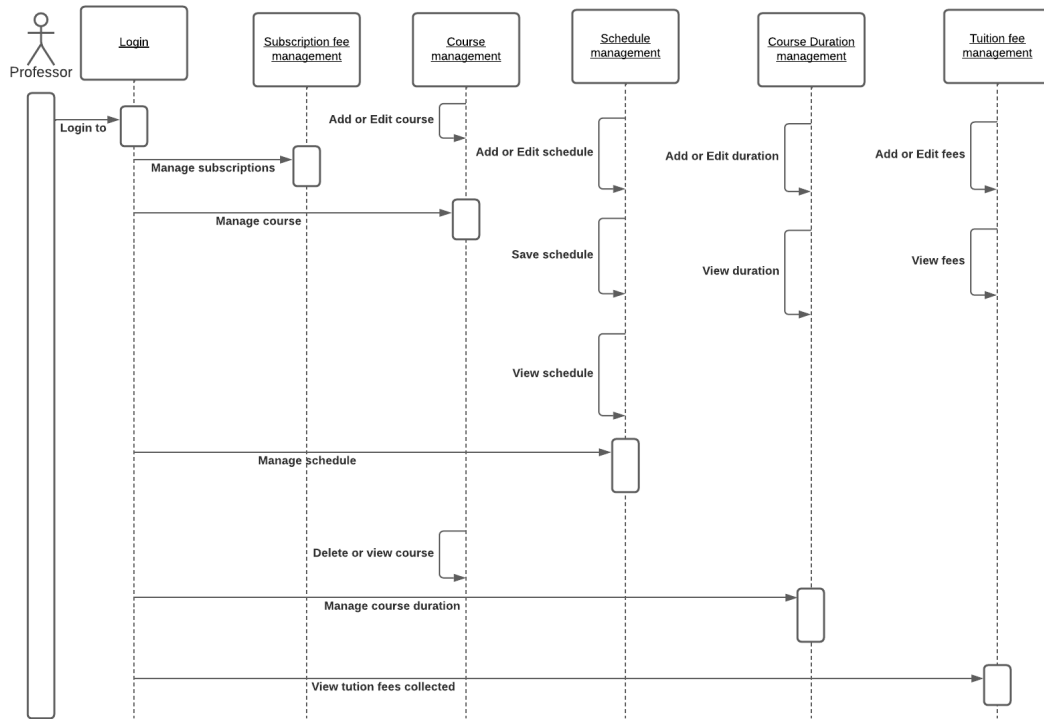
ARCHITECTURE OF PROFESSOR-AS-A-SERVICE MODEL



CLASS DIAGRAM

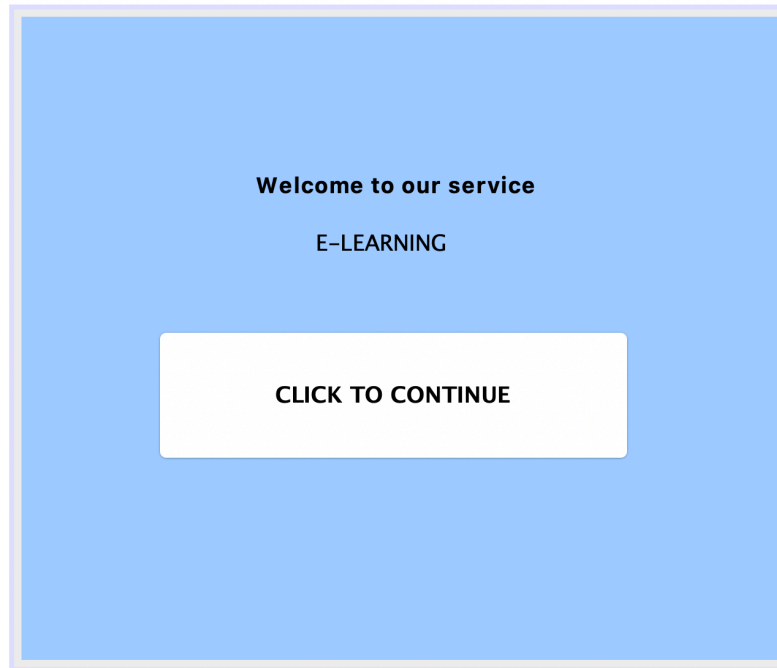


SEQUENCE DIAGRAM

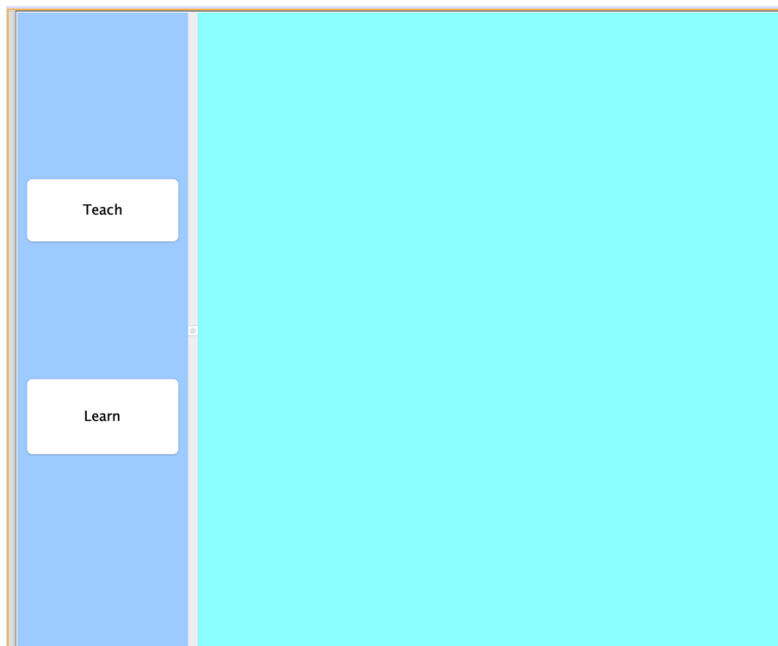


SCREEN DESIGNS FOR DIFFERENT USE CASES:

Dashboard



After clicking continue



User is a professor they will get this login page/ if they are already subscribed they can just login

Professor Log in/ Sign up page

Username :

Password :

Log In

Sign Up

Sign Up page for professor

Welcome Aboard!!
Please Fill In following Details to complete signing up

Full Name :

John Smith

Serial ID :

0029

Email Address :

johnsmith@gmail.com

Set Password :

••••••••

Qualification :

MSc in BI

Contact Number :

(878) 453 7614

Photograph :

Subscription Period :

6 Months

Amount :

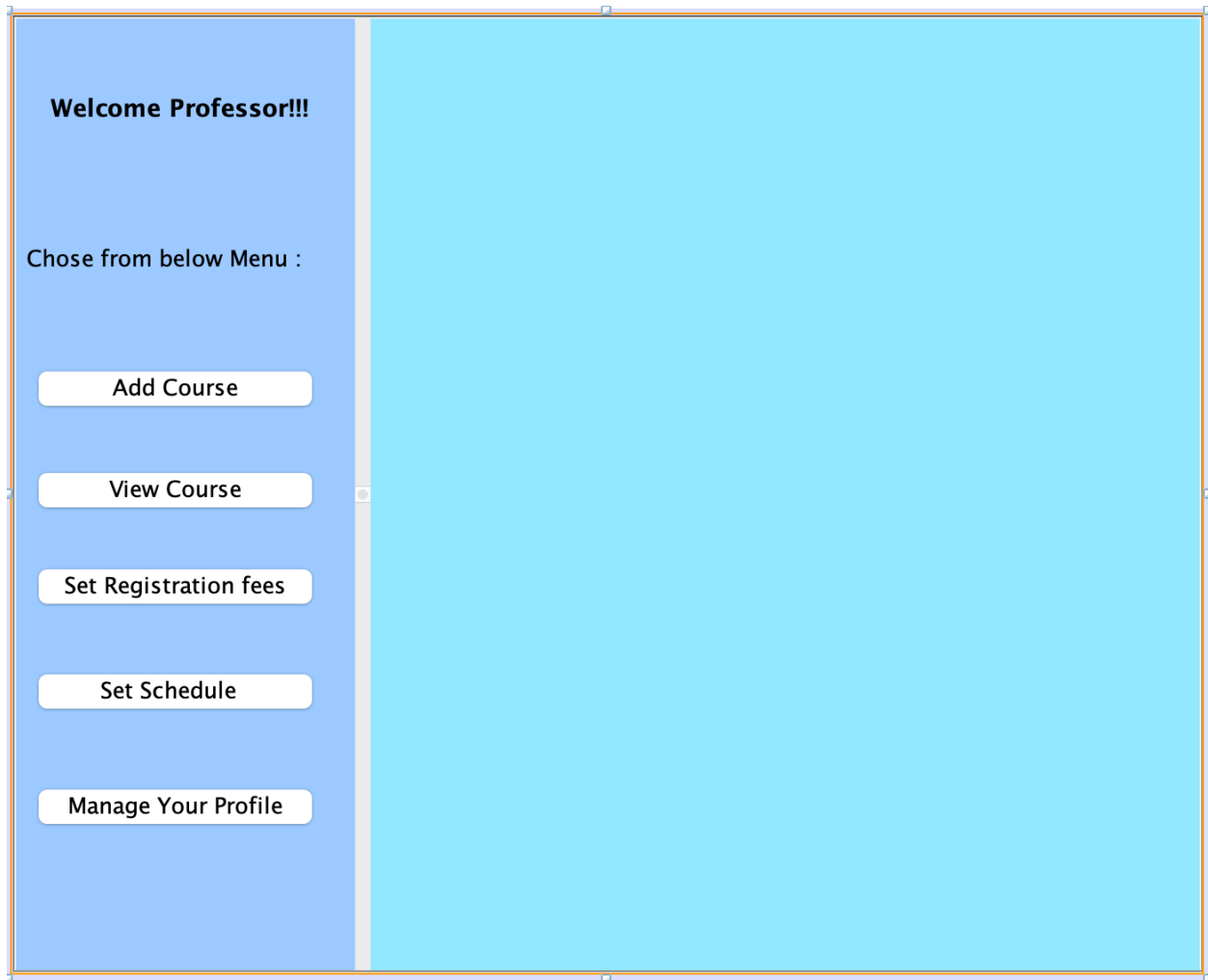
\$500

Payment Method :

Credit card

Submit

After Signup/login by Professor
They can choose from the menu option provided



Add course option for Professor

Welcome Professor!!!

Chose from below Menu :

Add Course

View Course

Set Registration fees

Set Schedule

Manage Your Profile

Add Course Details

Course ID :

Course Name :

Course Type :

Duration :

Course Schedule :

Number of seats assigned :

Faculty :

Credit Hours :

Add

View Course

Welcome Professor!!!

Chose from below Menu :

Add Course

View Course

Set Registration fees

Set Schedule

Manage Your Profile

View Course details

ID	NAME	DURATION	SCHEDULE	SEATS	FACULTY
5100	AED	1Y	MON 12-3 PM	100	KAL BUGRARA
6120	DMDD	6M	TUE 1-3 PM	60	NAVEEN
4300	DSCM	3M	THUR 5-8 PM	70	NICK BROWN
6530	WEB DEV	6M	WED 9-11 AM	50	VISHAL
5200	UI/UX	3M	FRI 8-10 AM	30	RISHAH
5610	OOP	3M	SAT 2-5 PM	50	JHON
8700	PSA	6M	MON 6-9 PM	60	SCOTT
4270	BIG DATA	1Y	TUE 5-8 PM	100	JALAL
3210	BI	6M	SAT 9-11 AM	40	SHREYA
7520	QA	3M	SUN 8-10 AM	70	SANKET

Update

Delete

Adding course registration fees

Welcome Professor!!!

Chose from below Menu :

Add Course

View Course

Set Registration fees

Set Schedule

Manage Your Profile

Course Registration fees

SELECT A COURSE :

AED

DURATION :

1 YEAR

COST:

\$700

ENTER

The schedule for the course they have added and week at a glance, so no two courses are clashing

Welcome Professor!!!

Chose from below Menu :

Add Course

View Course

Set Registration fees

Set Schedule

Manage Your Profile

SET SCHEDULE

TIME	SUN	MON	TUE	WED	THUR	FRI	SAT
8	QA					UI/UX	
9	QA			WEB DEV		UI/UX	BI
10	QA			WED DEV		UI/UX	BI
11				WEB DEV			BI
12		AED					
1		AED	DMDD				
2		AED	DMDD				OOP
3		AED	DMDD				OOP
4							OOP
5			BIG DA...		DSCM		OOP
6	PSA		BIG DA...		DSCM		
7	PSA		BIG DA...		DSCM		
8	PSA		BIG DA...		DSCM		
9	PSA						

ADD

DELETE

If the user is a student, they will see this after clicking continue in dashboard
If they are already registered, they can login or signup

Student Log in/ Sign up page

Username :

Password :

Log In

Sign Up

If they are new students, they will see this page

Welcome Aboard!!

Please Fill In following Details to complete signing up

Full Name :

Mobile No:

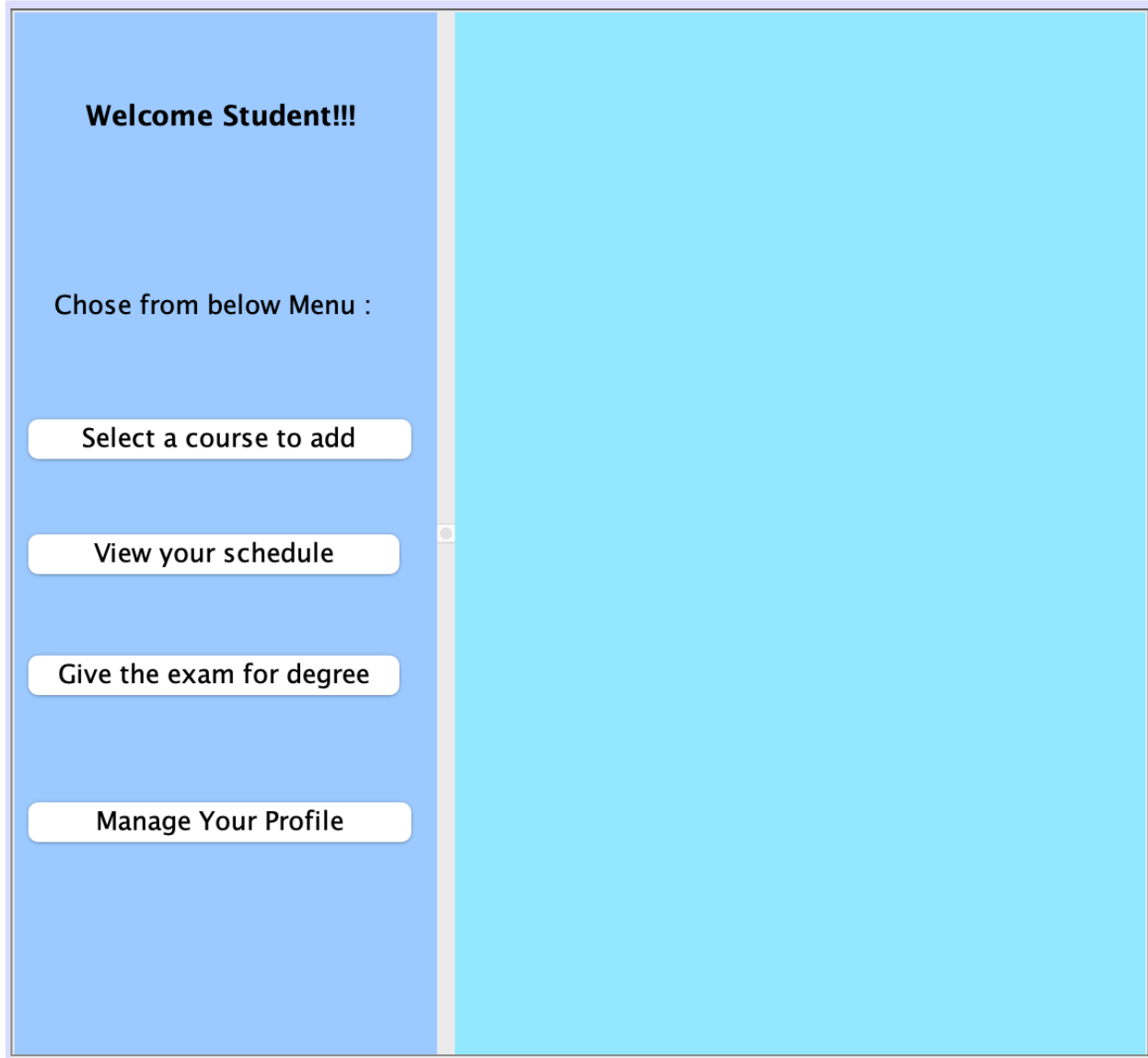
Email Address :

Set Password :

Highest Education level:

Date of birth:

After login or signup, students can choose from following options:



They can enroll for the any course of their choice, and rest details will be displayed

Add a course

Select from available list of courses:

DMDD

...



View any pre-requisites:

no pre requisite required for

Professors teaching that course:

NAVEEN

Tuition fees for selected courses:

\$700

Credits gained after completing this course:

9

Submit

Students who have taken the course can view in the schedule and join the lecture by clicking on the subject name given in schedule

View your current schedule

TIME	SUN	MON	TUE	WED	THUR	FRI	SAT
8							
9							
10							
11							
12		AED					
1		AED					
2		AED					
3		AED					
4							
5					DSCM		
6					DSCM		
7					DSCM		
8					DSCM		
9							

After they have completed the course, students can give virtual exam by setting up date and time for the test according to their convince

Get Your Certification

Course number or name:

Choose exam date :

sun	mon	tues	wed	thurl	fri	sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28

Enter Time :

NOTE :- ALL EXAM DURATION IS FOR AN HR!!!

CONCLUSION

Professor-as-a-service will be developed on a java platform. The main aim of this system is to implement an online-based education system which is centered around the professor. The professor has control over every education related aspect such course content, duration, schedules etc. This system allows for education to become accessible more easily to students all around the world. It also makes it more affordable as any overhead costs that are incurred by the University are cut out of the picture. These costs include things like land leases and construction material to build a university, classroom furniture, electricity bills, hiring administrative staff members etc. Since this system is implemented online all these additional costs that are essentially borne by the student are cut down. This system also allows for Professors to have more flexibility over their work and lets them deliver the best education that they possibly can without being held back. They can update the course content based on what is relevant in today's world and skip out on anything they may find redundant. It also allows them to earn the wage they deserve as everything the student pays goes directly to them. In our opinion this system is a wonderful idea and serves to benefit both parties, the Professors, and the students.