



INFO5100 33287 Application Engineering & Dev SEC 04 Spring 2022

Instructor: Professor Kal Bugarra

Report: The Design of a Digital Platform for “Professor-As-A Service”

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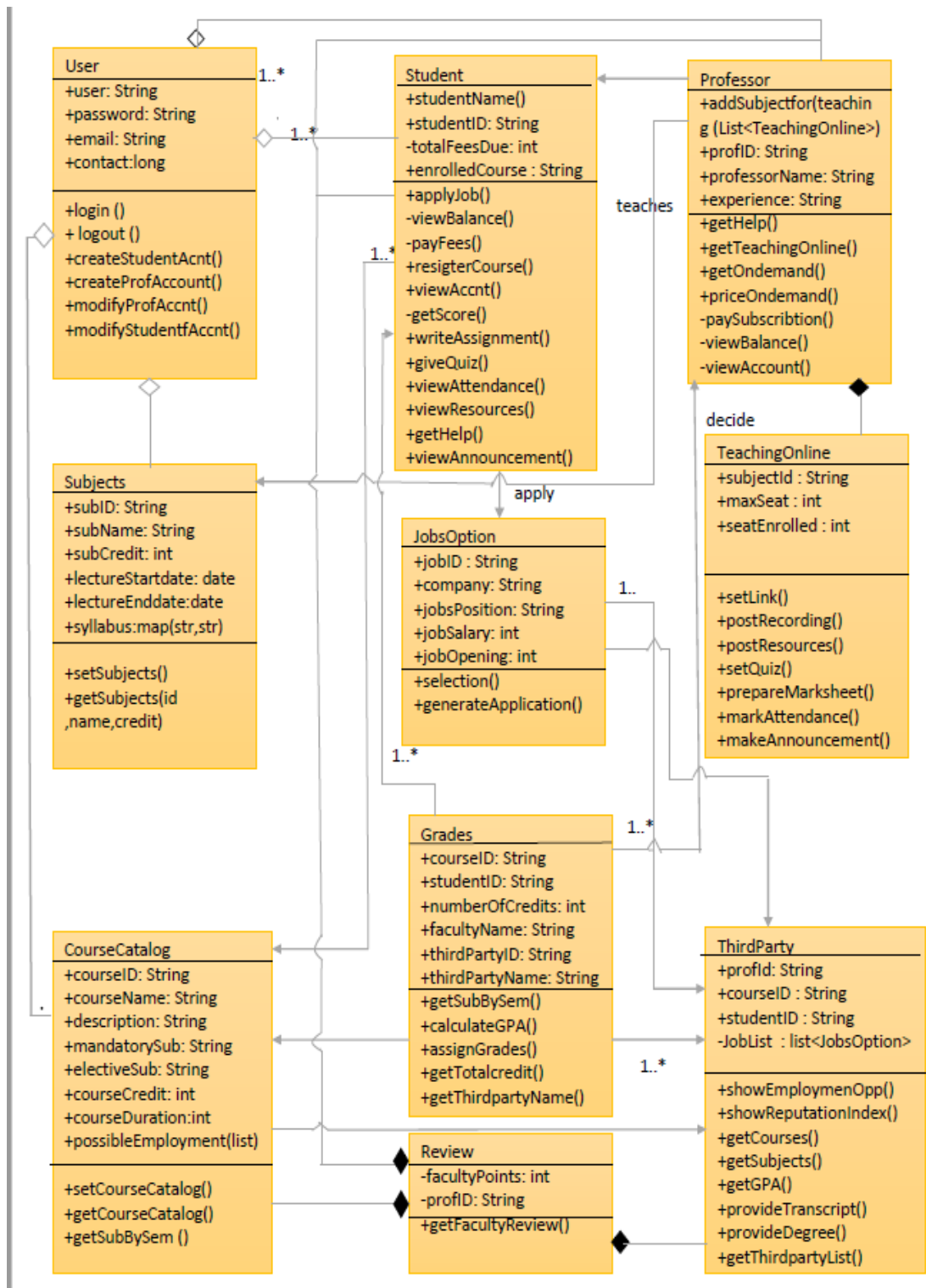
Objectives:

- The professor manages their own courses as well as what they want to teach and when to teach them. Students sign up as they please.
- The professor has full autonomy. Likely the professor will be offering courses in their specialty. A reputation index will be available to help aspiring students decide which courses fit best.
- A professor will join the service and operate remotely from anywhere in the world.
- Professor services are visible and accessible from anywhere in the world, using tablets, browsers, smart devices, etc.
- To earn their degree, students must fulfil course requirements which means courses must be taken from many professors (residing anywhere in the world)
- The underlying digital platform offers third party certification authority to approve the degree. You might want to consider different certification authorities. One third party might have better access to employers for example.
- Course prices are set by the professor and can vary and easy to adjust depending on demand
- Tuition for courses go directly to the professor. The professor will pay subscription fees for use of the digital platform.

Class Diagram:

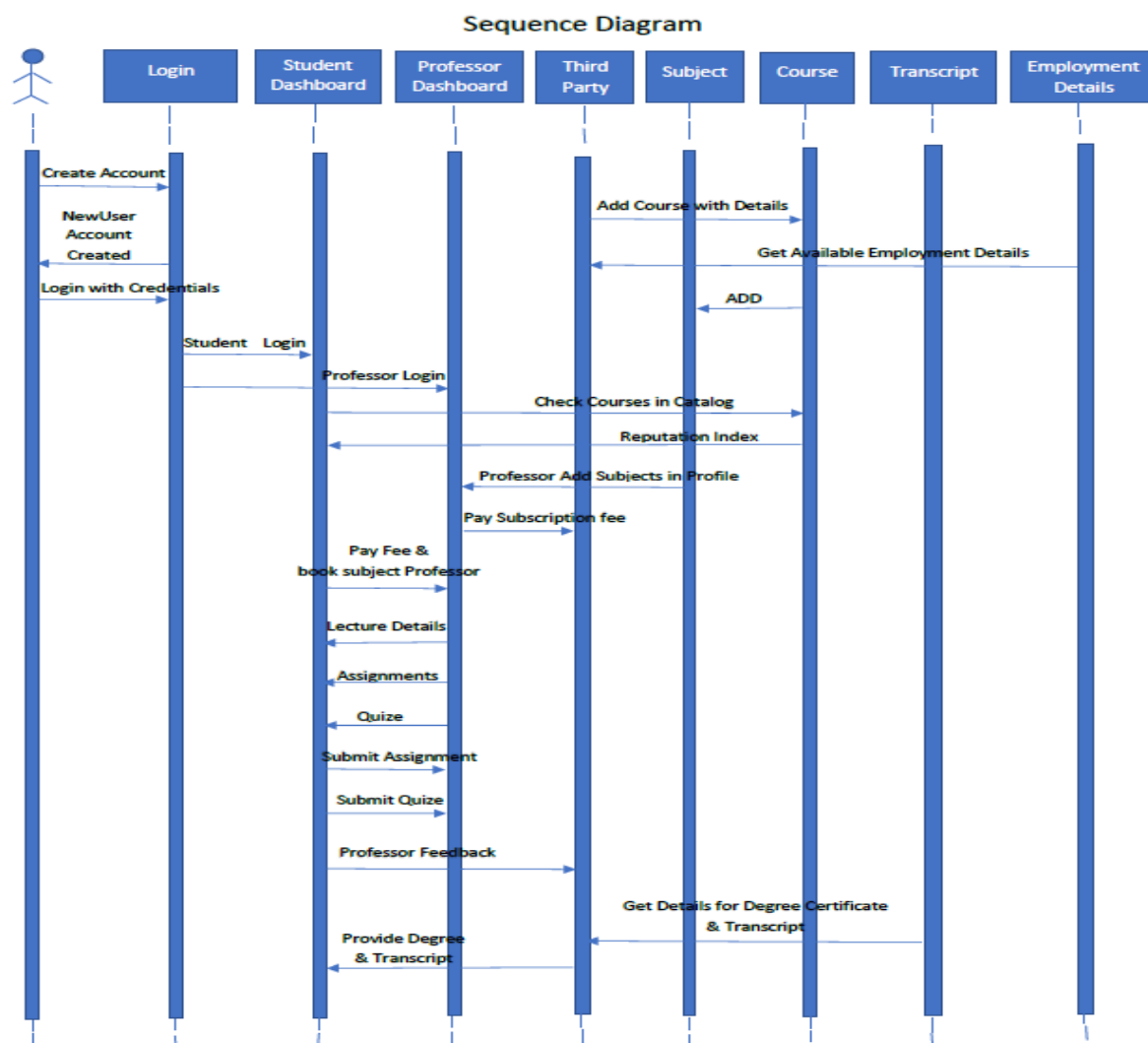
- The model diagram proposed has multiple units like: student, professor, e-learning platform as a third party, courses etc.
- Tuition for courses go directly to the professor. The professor will pay subscription fees for use of the e-learning platform.
- The professor will be able to see all the subjects that he/she has to teach along with managing his account.
- The professor will be able to give all the facilities required for remote learning like: video recording, assignments, quizzes, lecture links, schedule
- The degree and transcripts will be generated by the e-learning platform after comparing the course criteria and GPA. The e-learning platform will have a list of job opportunities, it can be more than one.

- Student will be paying the fee for the subject directly to the professor. The professor will have the authority to change the prices of the subjects according to the demand.
- E-learning platform will show the reputation index for each professor after observing the feedback and strength of students.
- E-learning platform which is a third party will have its control panel.



Sequence Diagram:

- User can be a Student, Professor or an Administrator (Third party E-learning platform).
- User login using user id and password.
- Student can see courses and underlying subjects, can register subjects under any professor. Student have to pay registration fee to the professor.
- Professor can add subject that he/she wants to teach from his/her dashboard. Professor need to pay subscription fee to all E-learning platforms he/she opted for. Professor have to share lecture and subject related information to the students who have opted for their subject.
- E-learning platforms are liable to provide degree certificates and transcripts to the students who have taken and successfully completed their course.



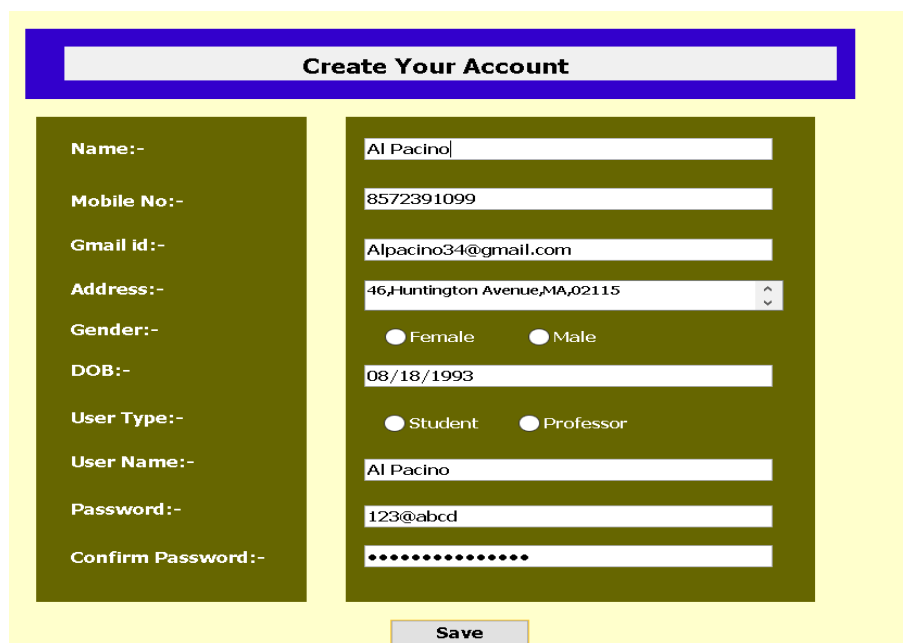
User Interface:

- E-learning platform is a page where an user can choose whether he/she is a student or a professor.
- An user can create his/her profile if he/she is a first time user.



The image shows a web interface for an "E-learning Platform". At the top, there is a blue header bar with the text "E-learning Platform". Below this, the main area has a green background. On the left, there is a large white text area that reads "The Complete Guide To Online Learning Platforms". On the right, there is a login and registration section. It starts with "Login As:-" followed by two buttons: "I am a Student" and "I am a Professor", separated by "OR". Below these buttons is a button labeled "Create an A/c".

- An user should fill all the fields in order to create his/her account newly into the e-learning platform.



The image shows a "Create Your Account" form. It has a yellow background. At the top, there is a blue header bar with the text "Create Your Account". Below this, there is a form with a green background. The form is divided into two columns. The left column contains labels for the fields: "Name:-", "Mobile No:-", "Gmail id:-", "Address:-", "Gender:-", "DOB:-", "User Type:-", "User Name:-", "Password:-", and "Confirm Password:-". The right column contains the corresponding input fields. The "Name" field is filled with "Al Pacino". The "Mobile No" field is filled with "8572391099". The "Gmail id" field is filled with "Alpacino34@gmail.com". The "Address" field is filled with "46,Huntington Avenue,MA,02115". The "Gender" field has two radio buttons: "Female" and "Male". The "DOB" field is filled with "08/18/1993". The "User Type" field has two radio buttons: "Student" and "Professor". The "User Name" field is filled with "Al Pacino". The "Password" field is filled with "123@abcd". The "Confirm Password" field is filled with ".....". At the bottom of the form, there is a "Save" button.

- On this admin control panel, an admin can select e-learning platform
- For the selected e-learning platforms admin can add new courses to the portal as well as can list down available job positions.
- Secondly, on this page, new platform can be registered.



ADMIN CONTROL PANEL

Select E-Learning Platform

Udemy
Upgrad

Add Courses for Selected Platform

Add

Register New Platform

Add Platform

Available Jobs

Jobs

* Boston Computer Networks Instructor
* Computer/Technology Teacher
* Data Science Teacher Vacancy
* Automotive Technology Instructor
* Design & Prototyping Specialist/Instructor
* Instruction Technology Teacher
* Computer Science Teacher

- If an existing user is a student or a professor, they will login here by putting username and password which they have already created before.
- Also, forgot your password option will help any user to reset their password.

LOG IN


Username*

Password*

☐ Always Remember Me?

[Forgot your Password?](#)

- If an user is a student, they will view this student portal.
- Student can see the courses where all the details will be enlisted.
- Account button:- help student to manage their accounts(ex: phone no, email, name, password etc.)
- Announcement button:- student can see professor's latest and previous announcements (ex: lecture times changes, exam declaration date)
- Calendar button:-student can see the scheduled class timings.
- Attendance button:- student can see the attendance of each classes they have attended.
- Regist. Fee button:- student can view their payments details of each subjects.
- Prof. rating button:- student can see the ratings of professors, so that they can choose their professor as per the reputations.
- Transcript button:- student can see and download their transcript after the course has finished.
- Avl. Jobs button:- student can see job opportunities
- Feedback button:- student can give their feedback on the professors.
- Help button:- technical glitch is handled here.Student can ask for the help from admin if they stuck anywhere(ex: payment process on hold, course was not registered properly)

Student Portal		
Account	Course Id	
Courses	Course Name	
Annoucement	Description	
Calendar	Compulsory Subjects	
Attendance	Elective Subjects	
Regist. Fee	Course Credits	
Prof.Rating	Course Duration	
Transcript	Lecture Links	
Avl. jobs	Assignments	
Feedback	Quizes	
Help?	Resources	

- If an user is a professor, they will view this professor portal.
- Add Subject button:- professor will be able to his subjects which he wants to teach students.
- Balance button:- Professor can see the details of his/her subscription payment details for a particular e-learning platform.
- E-Learning Platforms:- professor can choose multiple or one platform for teaching.
- Make your Announcement button: professor can declare any important announcement for the students.
- Account button:- help professor to manage their accounts(ex: phone no, email, name, password etc.)
- Help button:- technical glitch is handled here. Professor can ask for the help from admin if they stuck anywhere(ex: payment process on hold, links unable to add
- List of all subjects already added option:- professor can see the existing coursed added by him previously.

Professor Portal

Add Subject

Balance

E-learning Platforms

Make your Announcement

Account

Help?

List of all subjects already added

You have paid 1000\$ for Udemy

☐ Udemy ☐ Upgrad ☐ Geeksforgeeks

Subject ID	Max Seat	Seat Enrolled	Lecture Link	Quiz	Assignment	Video Recordings	Lecture Timings
0012	40	35	https://northeast...	https://northeast...	https://northeast...	https://northeast...	03/04/2022 10:...
0025	30	20	https://northeast...	https://northeast...	https://northeast...	https://northeast...	03/23/2022 9:3...
0067	50	44	https://northeast...	https://northeast...	https://northeast...	https://northeast...	04/08/2022 6:3...
0033	40	29	https://northeast...	https://northeast...	https://northeast...	https://northeast...	05/10/2022 09:...
0091	70	64	https://northeast...	https://northeast...	https://northeast...	https://northeast...	06/14/2022 11:...

- Professor can add a new subject along with the maximum capacity of students.
- Professor can add all the lecture links & timings, assignment and quiz links.
- Professor can choose the e-learning platform and pay the subscription fee to the digital platform.

Add Your Subject

Subject id:-	<input style="width: 90%;" type="text" value="0025"/>
Max Seat:-	<input style="width: 90%;" type="text" value="30"/>
Lecture link:-	<input style="width: 90%;" type="text" value="lortheastern.instructure.com/courses/103606"/>
Quiz:-	<input style="width: 90%;" type="text" value="lortheastern.instructure.com/courses/103606"/>
Assignment:-	<input style="width: 90%;" type="text" value="lortheastern.instructure.com/courses/103606"/>
Video Recordings:-	<input style="width: 90%;" type="text" value="lortheastern.instructure.com/courses/103606"/>
Lecture Timings:-	<input style="width: 90%;" type="text" value="03/23/2022 09:30am"/>
Resources:-	<input style="width: 90%;" type="text" value="ABC book"/>
3rd party Platforms:-	<input style="width: 90%;" type="text" value="Udemy"/>
Pay Subscription:-	<input type="radio"/> Yes <input type="radio"/> No

- On the payment page, professor will put all his card related documents to pay the amount.

Pay Your Subscription Fee

Type of Your Card:-	<input checked="" type="radio"/> Master <input type="radio"/> Visa
Card Number:-	<input style="width: 90%;" type="text" value="456789016782"/>
Valid Till:-	<input style="width: 90%;" type="text" value="03/2026"/>
CVV No:-	<input style="width: 90%;" type="text" value="673"/>
Name on Card:-	<input style="width: 90%;" type="text" value="Al Pacino"/>
Amount:-	<input style="width: 90%;" type="text" value="1000\$"/>