**ABSTRACT**

**Professor as a Service** is a **digital educational model** which aims at eliminating the need for central autonomy of university where the professor is at the center of the Students learning . It brings the educational System at the virtual location which can be accessed by students and professor from all over the world.

The traditional University model involves central Authority which governs the faculty and the students and their learning model. Most of the lectures and activities are restricted to classrooms and thus compromises with the convenience of people. There are limitations on the customization of the learning experience under the authority of institution. Also, the system is not time and cost-effective for both students and faculty.

**Professor as a Service** aims to provide an online education platform to overcome all the limitations of traditional model. The professors are the central entity who plans the education structure as per their knowledge and specialties. They will plan the courses and their schedule best suitable for students’ future aspirations.

The course offering will be conducted Online, and the meeting link will be shared by the professor. Students can join the online sessions from anywhere in the world at their convenience. They will have the access to the lectures and course materials whenever they wish.

Also, the system has unique fee structure model where the professor will charge the students as per the course offering conducted and the students will pay the professor directly. This will reduce the extra tuition fees which students had to pay to the institution.

The System has feedback mechanism will help the students to select the courses as per their career aspirations. The courses will have the reputation index to guide students to enroll for best possible course.

The Certificate Authority will issue the degree to the students at the end of the course duration by reviewing the degree requirements. Thus, the system will provide the transparency and convenience in the education system which will benefit the society. All the entities can operate remotely by using this system.

**INTRODUCTION**

**“PROFESSOR AS A SERVICE”**

**1. INTRODUCTION FOR PROJECT CONCEPTS:**

This system tries to implement the distance learning so that professors and student can access the system at their convenience. The entities involved are at the same digital platform which can be accessed remotely, and the system provides transparency in terms of education fees and grading model.

These are the features that a ‘Professor as a Service’ model should have:

* 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.

The Interfaces on the panels are quite straight forward and easy to understand to get started.

**PROBLEM STATEMENT AND PROBLEM ANALYSIS**

**Problem Statement:**

Traditional university model has the university at the center of the education system which decides the course structure and then employees the professors. The professor does not have the option to plan the course structure of the course. Thus, the students and professor have limited flexibility in course planning/selection areas.

**Problem Analysis:**

1.The University is central governing authority which connects the students and professors

2.The university plans the course structure which may or may not be aligned to the students career goals and aspirations. The course planning process is not flexible and may or may not be suitable for both professors and students.

3.The classroom concept of university model may not be convenient for students and professors in terms of their schedules and transportation.

4.The tradition education system require the classroom setup thus the students have to pay for the classroom facilities apart from the course fees. Thus, the payment system doesn’t seem to be fair and may or may not be affordable to all.

5.The system needs to work more on feedback mechanism.

6.System lacks transparency in payment and feedback areas.

**PROPOSED SYSTEM**

Proposed System will be able to do the following:

**1.Flexibility:**

The professor can conduct the classes remotely and the students can attend them from anywhere in the world. Thus, both students and professor can have a flexible class schedule at their convenience.

**2.Customized Learning experience:**

The professor can customize the course structure as per their specialties and the interest of the students to help students achieve their career goals. The feedback mechanism will help professor to review the course structure.

**3. Commodity:**

The system will no longer need to have the classrooms or other classroom facilities to conduct the lectures. Just an internet connection at their comfortable places. The students and professor will connect and interact via a meeting link.

**4. A wide selection of courses:**

The students can have wide variety of courses and can choose their courses and the professors as per their aspirations. Also, the reputation index of the course is available to help them to choose best possible courses.

**5. Access to learning materials and lectures**:

The course recordings and the course materials will be made available to the students whenever they want.

**6. Time & Cost Effective:**

Students will have to pay only for the enrolled courses directly to their professors. This will eliminate the extra charges students had to pay for the university facilities. Thus the system tries to make education affordable for students.

**7.Transparency:**

The system has transparency in terms of fee structure, course score evaluation and degree evaluation process.

**DESIGN**:

It includes translation of the requirements speciﬁed in the SRS into a logical structure that can be implemented in a programming language. The output of the design phase is a design document that acts as an input for all the subsequent SDLC phases. The design of this app is simple and user-friendly containing six main activities, namely:

1. Register/Subscribe (b) Course Structure and schedule (c) Enroll Course and offering (d) generate transcripts(e)Grant/deny degree by CA

**System Modules:**

i) Professor panel

ii) Student panel

iii) Third party Certificate Authority panel

**SIMPLE ALGORITHM TO OPERATE THE SYSTEM:**

**1. Professor Panel:**

1.1 Subscribe/Renew and Pay the charges to the digital education platform.

1.2 Login to the system and create the professor profile as per specialization area.

1.3 Create/Add/Drop/Update the course/course structure.

1.4 Plan the schedule for the assigned courses.

1.5 Plan the course offering structure for students.

1.6 Create/Update the fee structure of the assigned courses

1.7 create/Modify the course score of students and input it to the transcript system.

**2. Student Panel:**

2.1 Register and login to the digital education platform

2.2 Create the student profile and apply for the specialization.

2.3 Select the courses under the assigned professors and enroll for them.

2.4 Pay the enrollment fees to the professor.

2.5 Select the course offering as per preference.

2.6 View the score board and transcript

2.7 Request the degree from the Certificate Authority at the end of entitled specialization duration.

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**3. Third party Certificate Authority Panel:**

3.1. Admin Login.

3.2 Validate the course enrollments of the student

3.2 Validate the degree Requirements:

credit hour requirement.

Transcript and course scores

3.3 Grant/Deny degree.

* Main Screen:

The main screen consists of three main entities- Professor, Student & Certification authority

Graphical user interface, application

Description automatically generated

* Professor Screens will include:

1. Professor’s work area consists of a “Manage Courses” button through which he can go the main screen which contains all the operations related to courses.

Graphical user interface, application

Description automatically generated

2. On this screen, the professor can create, view, update & delete courses. Also, he can pay fee amount to the digital platform.

Graphical user interface, text

Description automatically generated

* Student Screens:

1. The student’s login page will consist of a dropdown which will contain specialization subjects i.e. MIS, CSE, Data Analytics, EM etc.

Graphical user interface, application, Word

Description automatically generated

2. The Student’s work area will consist of 3 options as shown below.

Graphical user interface, application, Word

Description automatically generated

3. The Student can view all available courses on the page. He can view course details & enroll them.

Graphical user interface, application, table

Description automatically generated

4. On this page, the Student can view all the enrolled courses. He can view course details, drop courses, provide feedback, Pay fees, view credits completed & Degree.

Graphical user interface, application

Description automatically generated

* Certification Authority Screens:

1.The third-party certification authority login page will look like this. It consists of 2 options- view students & faculty.

Graphical user interface, application, Word

Description automatically generated

1. The third-party certification authority can see all the student information on this page. They can evaluate the student’s transcript & grant degree.

Graphical user interface, application

Description automatically generated

1. The third-party certification authority can see all the faculty information on this page. They can check if the professor has paid the fees or not.

Graphical user interface, application

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4. The third-party certification authority can see the student record on this screen. They can grant degree if the student completes the required credits.

Graphical user interface, application

Description automatically generated

**CONCLUSION**

The Professor as a service model thus overcomes the drawbacks of the traditional University model where the education institute is the central authority governing the course structure, course fees, transcript and degree management. Here, the students and professors are not entitled to external entity for the education structure, so they can plan their course structure which best fits their specializations and career aspirations.

This system brings in the benefits of distance learning to both students and professors.

The students will pay only for their course enrollments and thus eliminating the extra charges which makes education affordable to everyone.

Thus, such education model will make education easily accessible and affordable to the less fortune.