

INFO5100: Assignment 3

Platform Design

Professor-As-A Service



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Agenda

- Solution Outline
- UML Model
- Sequence Diagrams for each role
- Screen Design for each role
- Overall Assessment



Solution Outline

We set out to design a decentralized system where there are no “School” sitting in the heart of all information flow. The idea is to have a platform that serves as a place that professors and students have maximum freedom and control.

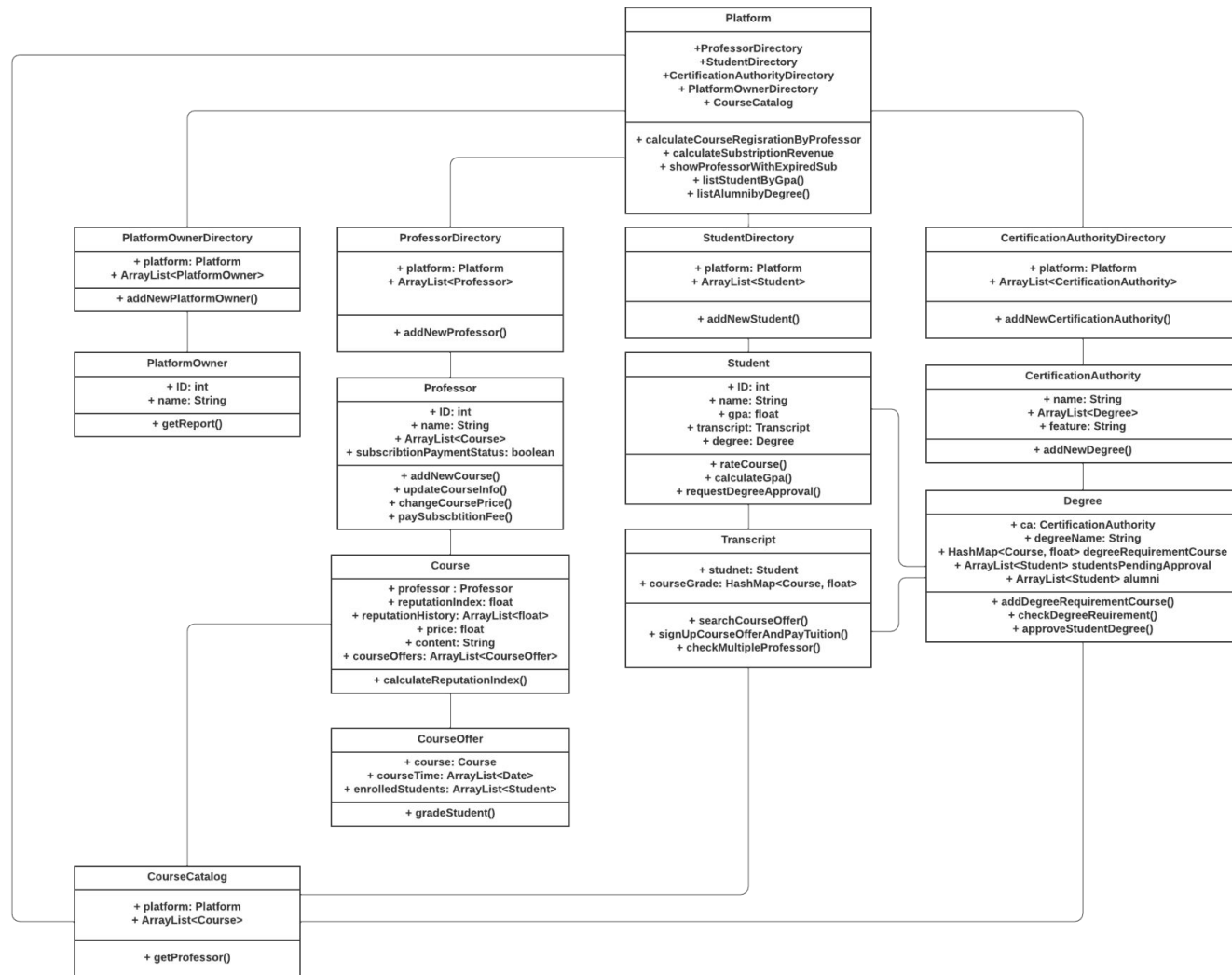
Professors have control over what to teach, when to teach and the price to charge. Students can choose any course they desire, pay upon adding the course, and rate the courses for future reference. Certificate authorities, who is not in a hierarchy relationship with the former two roles, acting as an independent third party. Certificate authorities provide degrees, pick the courses that count toward the degree, and grant students who satisfy the requirement the degree upon request.

Platform owner (Admin) acts outside of those operations, responsible for adding professors, students, and certificate authorities into the system where they can run on their own. Platform owners will have access to most information held by the parties, which enables them to collect data for analytic purposes. The only direct relationship they do have is with the professor, where they need to collect subscription fee from.



UML Model

Lucidchart Link





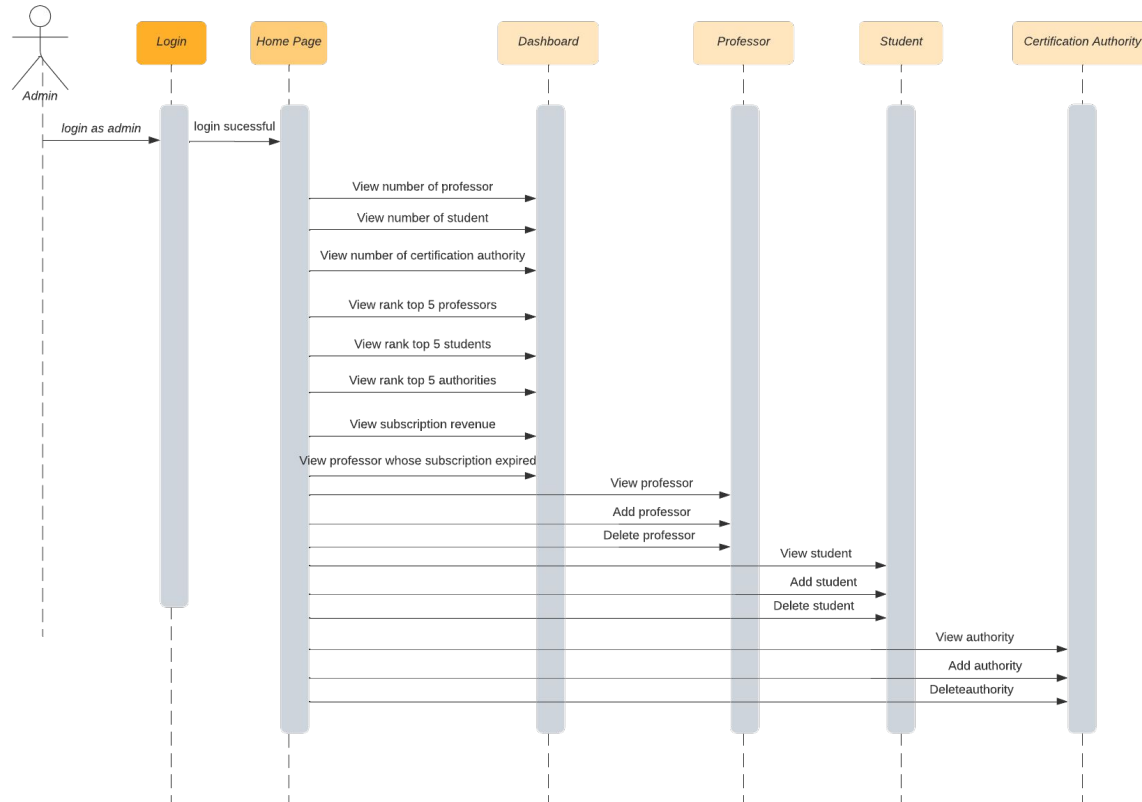
Sequence Diagrams

Platform Owner, Professor, Student, Certificate Authority

[Lucidchart Link](#)

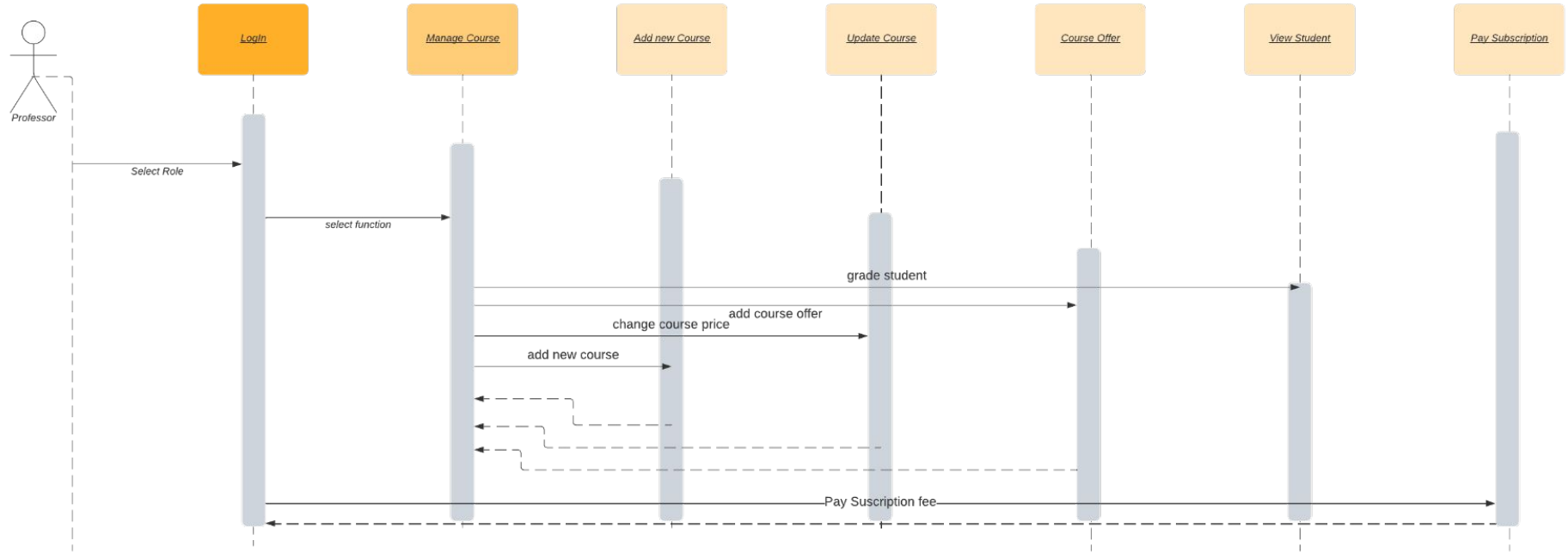


Sequence Diagram: Platform Owner (Admin)



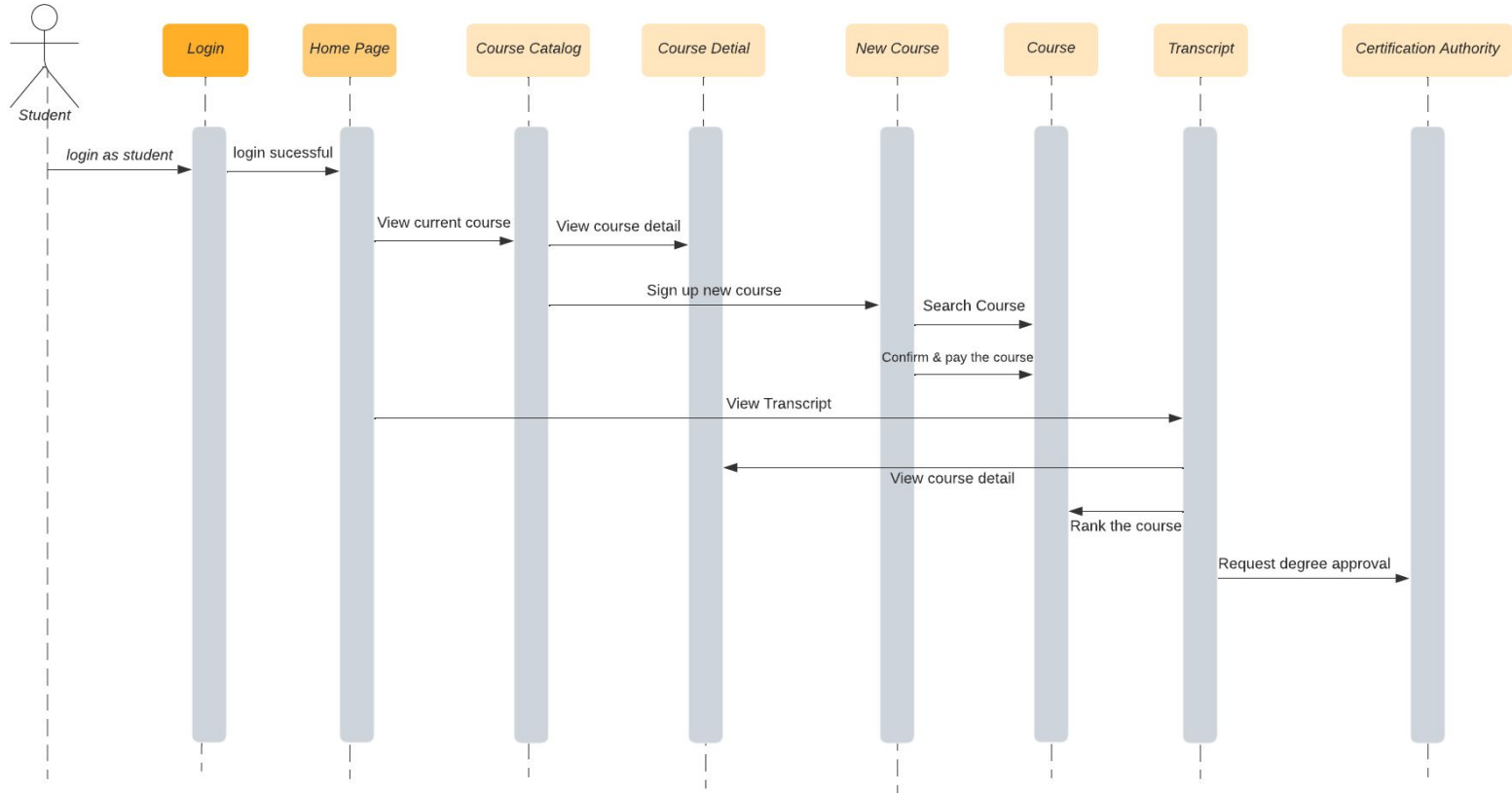


Sequence Diagram: Professor



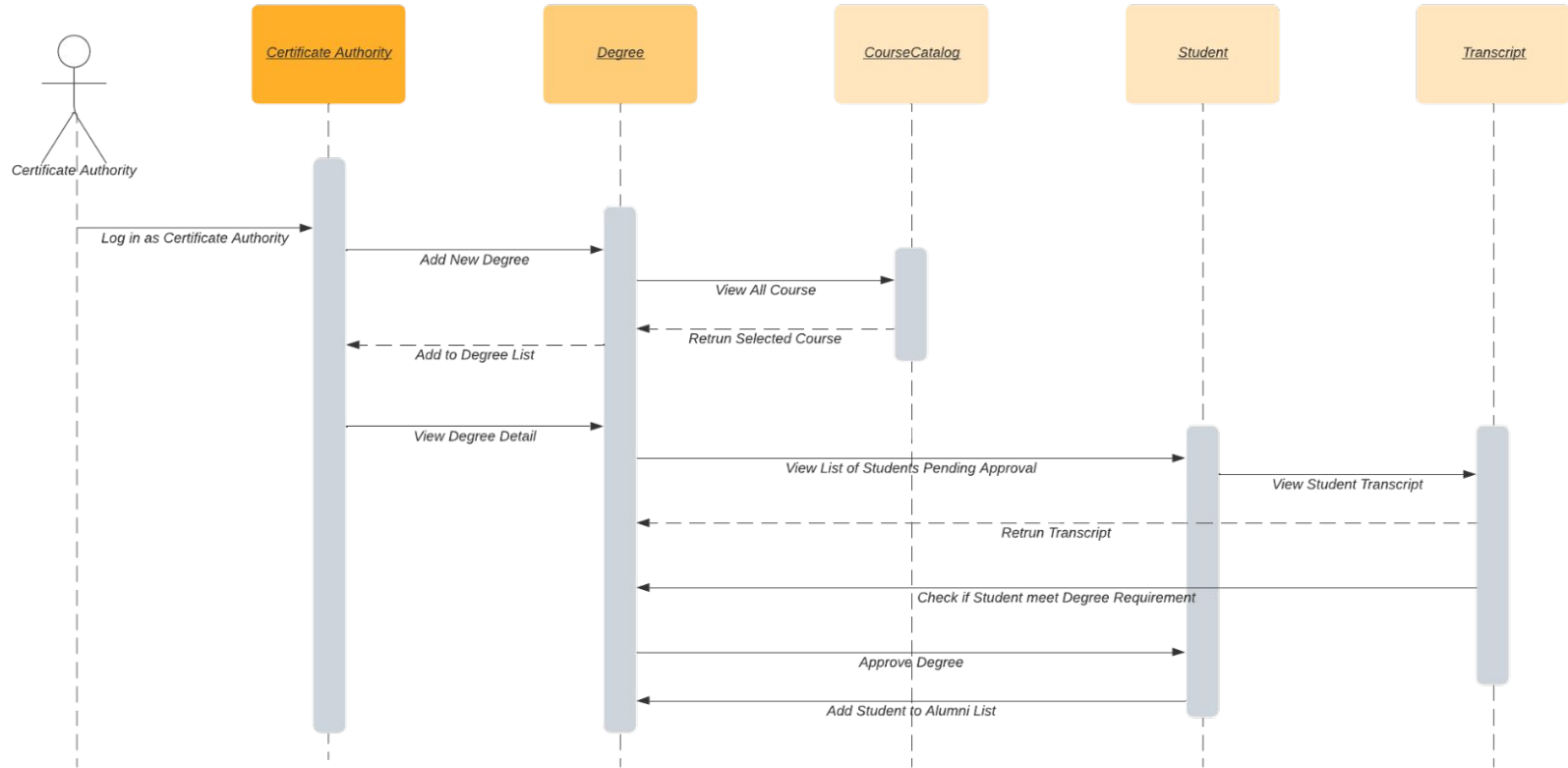


Sequence Diagram: Student





Sequence Diagram: Certificate Authority





Screen Design

Platform Owner (Admin) Dashboard

Assignment 3

Hi, Admin

P.

Professor

Student

Certificate Authority

Total Professor

37

Total Students

76

Total Certificate Authority

4

Rank top 5 professors:

Name	Revenue

Rank top 5 Students:

Name	GPA

Rank top 5 Authority:

Name	Degree	Alumni

Subscription Revenue

\$2600

Subscription Expired:

Name

Assignment 3

Hi, Admin

P.

Professor

Student

Certificate Authority

Professor List

Name	Subscription Status

Add

View

Delete

View Detail

Name:

ID:

Status:

Course Name

Assignment 3

Hi, Admin

P.

Professor

Student

Certificate Authority

Student List

Name	ID

Add

View

Delete

View Detail

Name:

ID:

GPA:

Degree

:

Course	Pass/Fail



Screen Design

Professor

Please Choose Log-In options

I'm a professor

I'm a student

Certification Authority

[Admin Login](#)

What do you want to do today?

Manage Course

Pay Subscription Fee

[Home Page](#) > [Manage Course](#)

Select A Course to Manage, or

Add New Course

Name	ID	Reputation Index	Skill Sets	About	Price

Update

[Home Page](#) > [Manage Course](#) > [Add New Course](#)

Add New Course

Name:

Course Id:

Skill sets:

Price:

About:

Save

[Home Page](#) > [Manage Course](#) > [Update Course Info](#)

Course Info

Name:

Course Id:

Skill sets:

Price:

About:

Enrolled:

37

Profit:

\$74,886. 93

Update

View Course Offer

[Home Page](#) > [Manage Course](#) > [Update Course Info](#) > [Course Offer](#)

Course Offer

Start Time

Select

[Home Page](#) > [Manage Course](#) > [Update Course Info](#) > [Course Offer](#)

Course Offer: Start at

3/ 14/2022

Lecture Date

Add

Select

View Student Detail

[Home Page](#) > [Manage Course](#) > [Update Course Info](#) > [Course Offer](#) > [View Student Detail](#)

View Student Detail

Name	ID	Midterm	Final	Pass/Fail

Select

Midterm:

Final:

Grade

Pass/Fail:

☐ Pass ☐ Fail

[Home Page](#) > [Pay Subscription Fee](#)

Subscription Status:

Paid/Unpaid:

Unpaid

Current Price:

\$35/year

Pay



Screen Design

Student

Please Choose Log-In options

I'm a professor

I'm a student

Certification Authority

[Admin Login](#)

Assignment 3

Hi, Student

S.

Student ID:

Name:

Degree:

Current Courses

Transcript

[Home page](#) > [Current Courses](#)

Your Current Courses

Course Name	Course ID	Professor	Reputation Index

[Sign Up New Course](#)

[View Your Course Detail >>](#)

[Home page](#) > [Current Courses](#) > [View Course Detail](#)

View Courses Detail

Start Course

Name:

Course Id:

Skill sets:

About:

Reputation Index:

Price:

Class Date

Class Date

Midterm:

Final:

Pass/Fail:

Assignment 3

Hi, Student

S.

[Home page](#) > [Current Courses](#) > [Sign up New Course](#)

Search by Course Name:

GO

Select a Course

Professor:

Name	ID	Start Date	Reputation Index	Skill Sets	About	Price

Confirm & Pay

[Home page](#) > [Transcript](#)

Your Transcript

Course Name	Course ID	Finish Date	Grade	Pass/Fail

Your GPA:

[View Course Detail >>](#)

[Request Degree Approval](#)

[Home page](#) > [Transcript](#) > [View Course Detail](#)

View Courses Detail

Name:

Course Id:

Skill sets:

About:

Finish Date:

Reputation

Index:

Price:

Midterm:

Final:

Pass/Fail:

Rate for this course:

Save

[Home page](#) > [Transcript](#) > [Request Degree Approval](#)

Request Degree Approval

Certification Authority:

Feature:

Degree

Your GPA:

Request Degree Approval



Screen Design

Certificate Authority

Please Choose Log-In options

I'm a professor

I'm a student

Certification Authority

[Admin Login](#)

Degree Certificates

Degree	Pending Approval	Alumni

View Detail

Add New Degree

[Home page](#) > [Add New Degree Certificate](#)

Degree Certificates

Degree Name:

Required Course	Required Score

Add Course

Delete Course

Add New Degree

[Home page](#) > Degree Detail

Degree Name

Pending Approval

Alumni

Required Course	Required Score

Add Course

Delete Course

Assignment 3

Hi, CA

CA.

[Home page](#) > [Degree Detail](#) > [Add Course](#)

Search by Course Name:

GO

Select a Course

Professor:

Name	ID	Start Date	Reputation Index	Skill Sets	About	Price

Add Course

Degree > Pending Approval

Student List

ID	Name

View Detail

Check Requirement

Approve

Reject

Assignment 3

Hi, CA

CA.

Degree > Pending Approval > Student Detail

Student ID:

Name:

Course Name	ID	Finish Date	Grade	Pass/Fail

GPA:

Check Requirement

Approve

Reject

Degree > Alumni

Alumni List

ID	Name

View Detail

Assignment 3

Hi, CA

CA.

Degree > Alumni > Alumni Detail

Student ID:

Name:

Course Name	ID	Finish Date	Grade	Pass/Fail

GPA:



Overall Assessment

By simplifying the relationships each party has with the others, and making them responsible for managing their own operations, miscellaneous administration fee can be waived.

Enabling students to take courses anywhere anytime is a huge pro point for the less fortunate. The flexibility of time and locations created more opportunities and touchpoint to knowledge for students everywhere in the world.

Overall, the platform can make education easily accessible and affordable to more students.