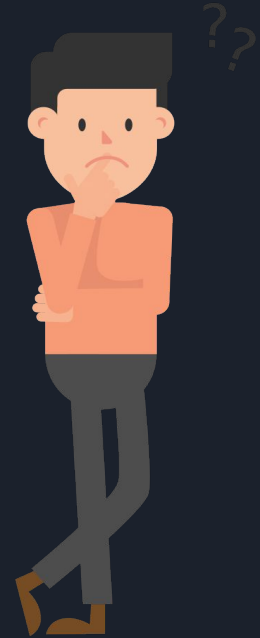




# CZ2006: Your Future

Group MiloPeng  
Kay, Sharan, Jiahao, Subeen, Tabassum

# Project Goal



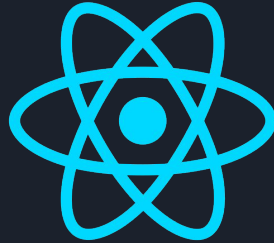


# Brief Overview of Project


Our Project is a React Website that aims to make choosing an overseas university easier and more interactive.

- ⚙ Allows users to find universities based on keywords and filters
- ⚙ Users can receive customised recommendations.
- ⚙ Users may also leave reviews for universities they studied in, for others to view and evaluate.

# System Stack




# Searchbar




[Home](#) [Get Recommendations](#) [View Schools](#) [Login](#) [Sign Up](#)

## Your Future

🔍 Go!

 Country

 Course

# Searchbar



Harvard University

USA

[See Details](#)



Massachusetts Institute of  
Technology

USA

[See Details](#)



Stanford University

USA

[See Details](#)



University of Cambridge

United Kingdom

[See Details](#)



# Review

## Harvard University

★★★★★ 10 reviews

☆ Write a Review

🔖 Save

Sort By ▾



☆☆☆☆☆ reviewed on Tue, 12 Apr 2022 21:32:14 GMT

john123

I dont like software engineering.



★★★★★ reviewed on Tue, 12 Apr 2022 14:24:37 GMT

john wick

Could have better profs



★★☆☆☆ reviewed on Tue, 12 Apr 2022 14:22:00 GMT

john123

It's too stressful here

Address Not Found

Email not found

# Review

## Your review of Harvard University



Write your thoughts about Harvard University

How would you rate this university?



Submit



# Recommendation Function

Some early pages of the recommendation tool

Recommendation Tool

**Tell us more about yourself.**

Highest Education

Exam Format

GPA

Recommendation Tool

**Customise your search to fit your priorities.**

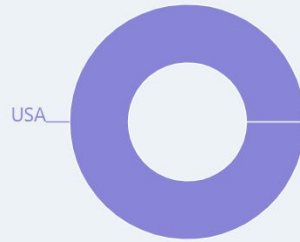
Teaching

Legacy

Tuition Cost

Accomodation

# Recommendation Function



## Our Recommendations

Harvard University: 7.50  
Stanford University: 6.33  
Massachusetts Institute of Technology: 3.00  
California Institute of Technology: 1.00  
University of California, Berkeley: 0.60  
Princeton University: 0.50  
Princeton University: 0.50  
Yale University: 0.38  
University of Chicago: 0.27  
Columbia University: 0.23  
University of Pennsylvania: 0.20



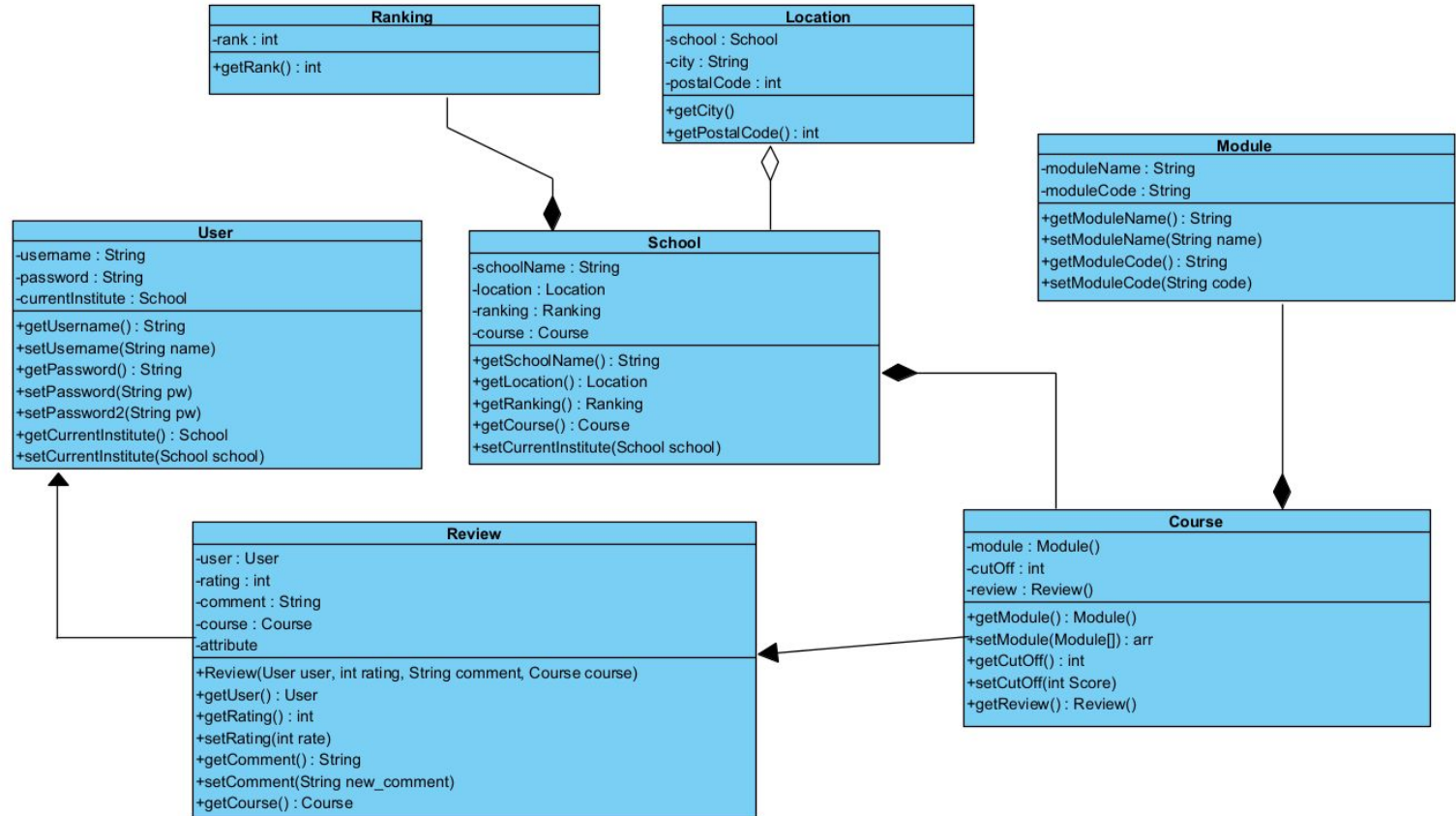
## Live Demo with Test-cases



# Software Engineering Practices Applied

- Utilisation of a cloud-provided database for effective and secure data management.
- Routinely used SCRUM methodology of completing tasks in sprints.
- Test-driven Development: Testing the code/app using a series of use-cases that follow in accordance with solicited requirements.
- Collective code ownership: Any team member can change any line of code to add functionality, fix bugs or improve designs.
- Constant debugging with test-cases designed to probe or induce a fault in the app.

# Class Diagram

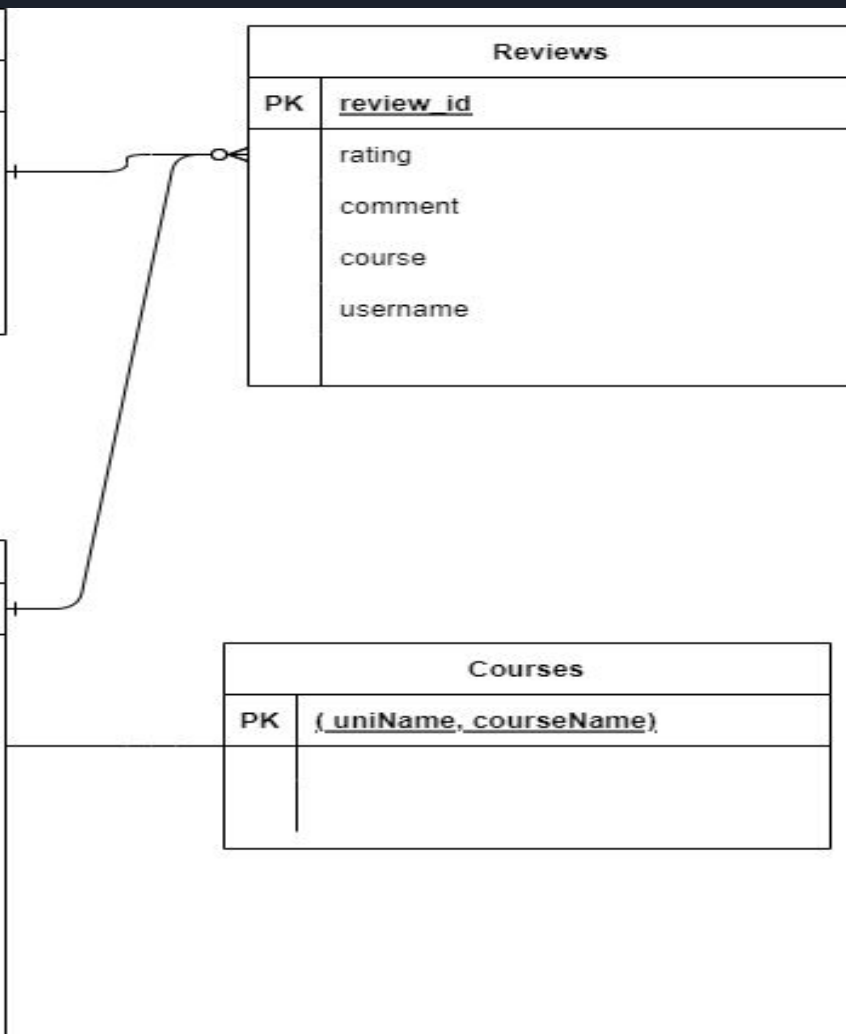


User	
PK	<u>username</u>
UQ	email
	password
	currentSchool

Reviews	
PK	<u>review_id</u>
	rating
	comment
	course
	username

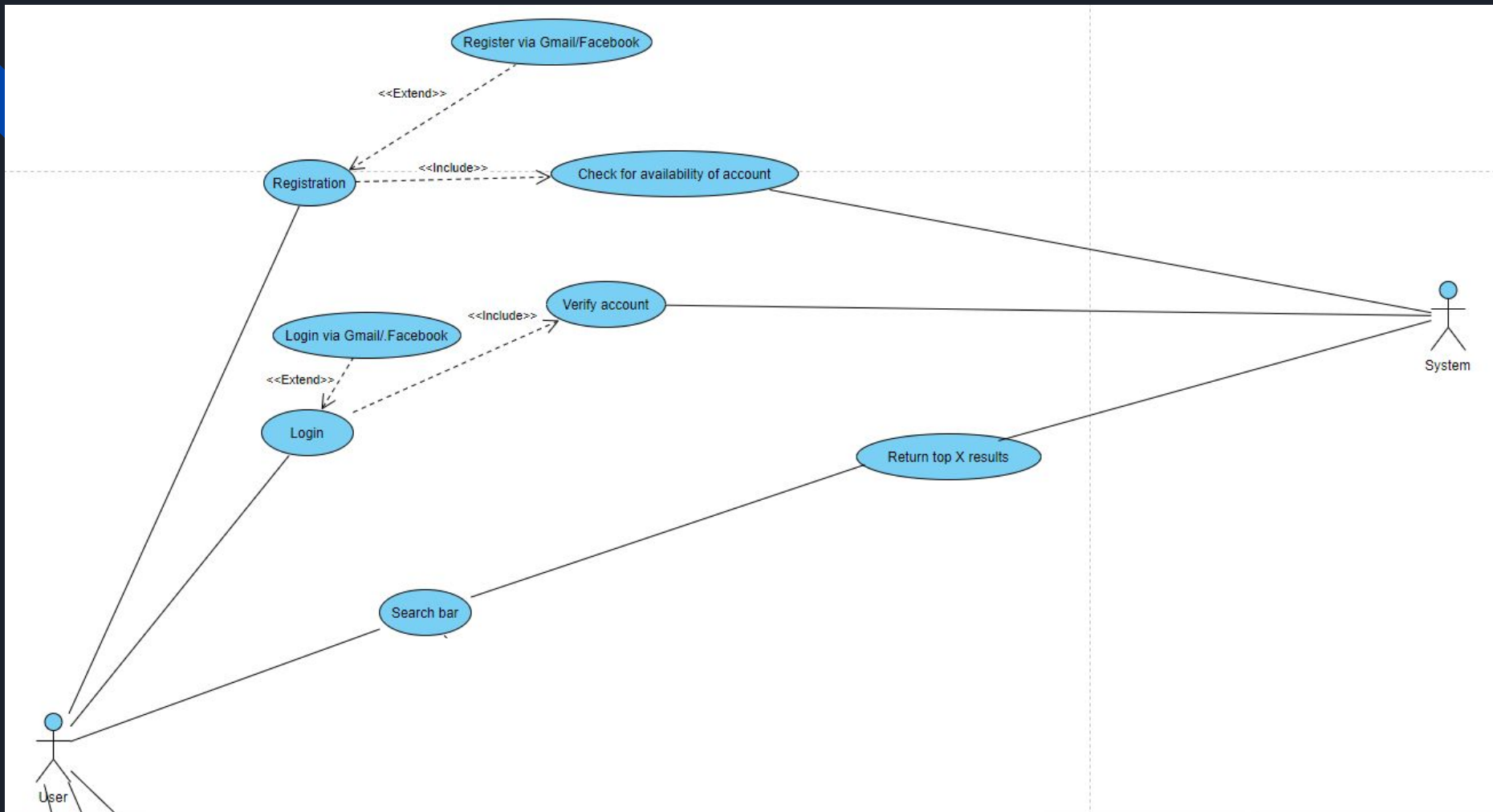
Universities	
PK	<u>university_id int NOT NULL</u>
	universityName
	rating
	country
	address
	quality of education
	quality of research
	quality of faculty

Courses	
PK	( <u>uniName</u> , <u>courseName</u> )

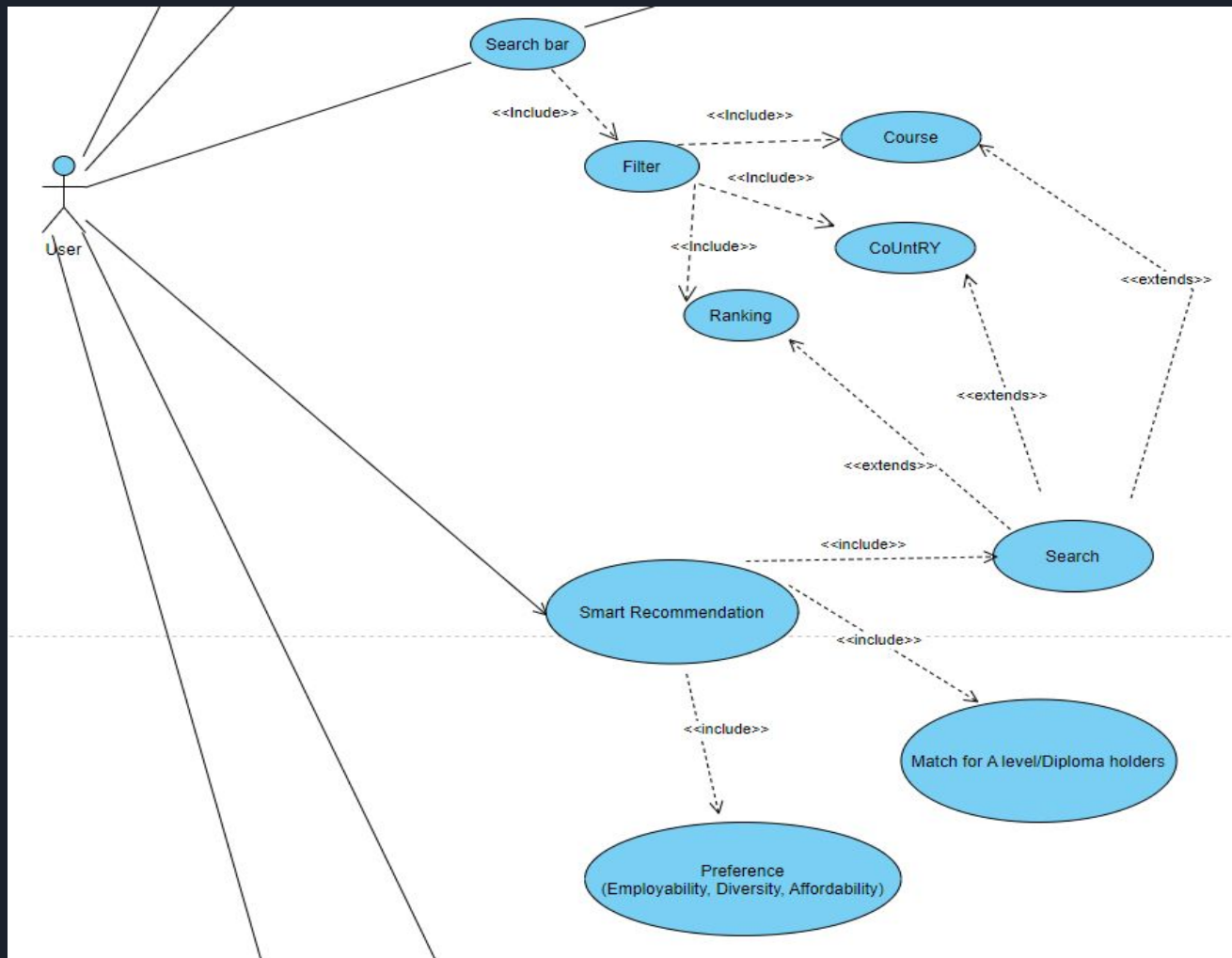


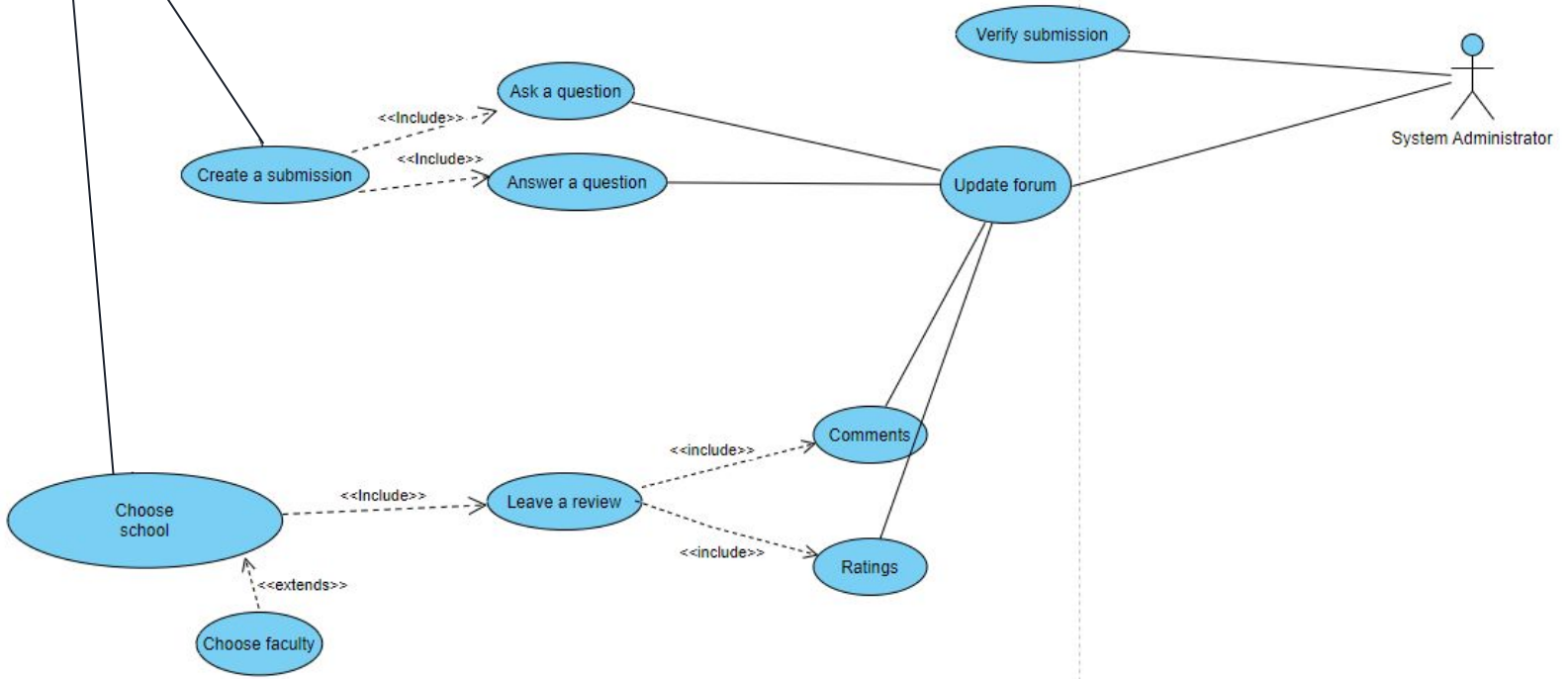


# Use Case Diagrams

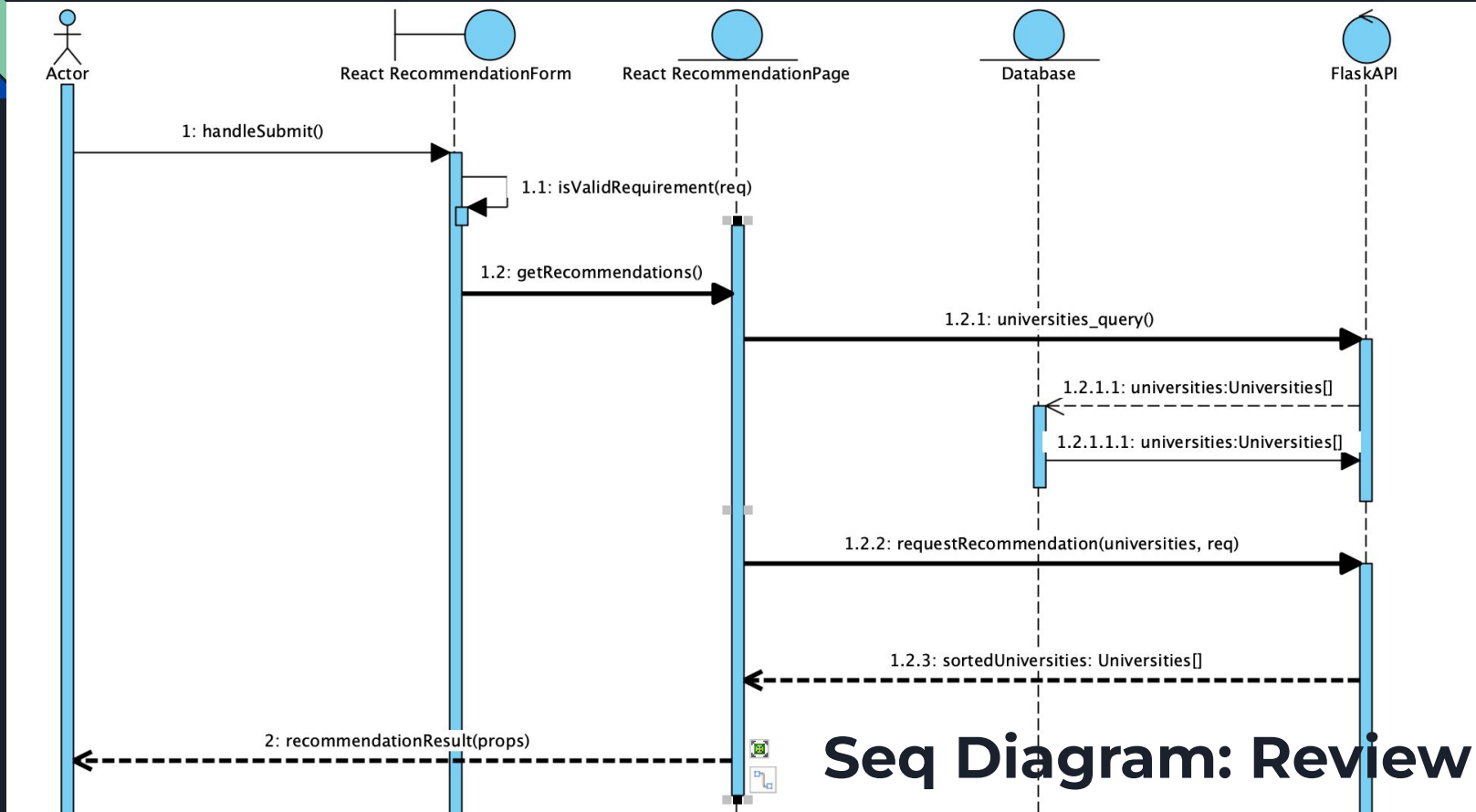






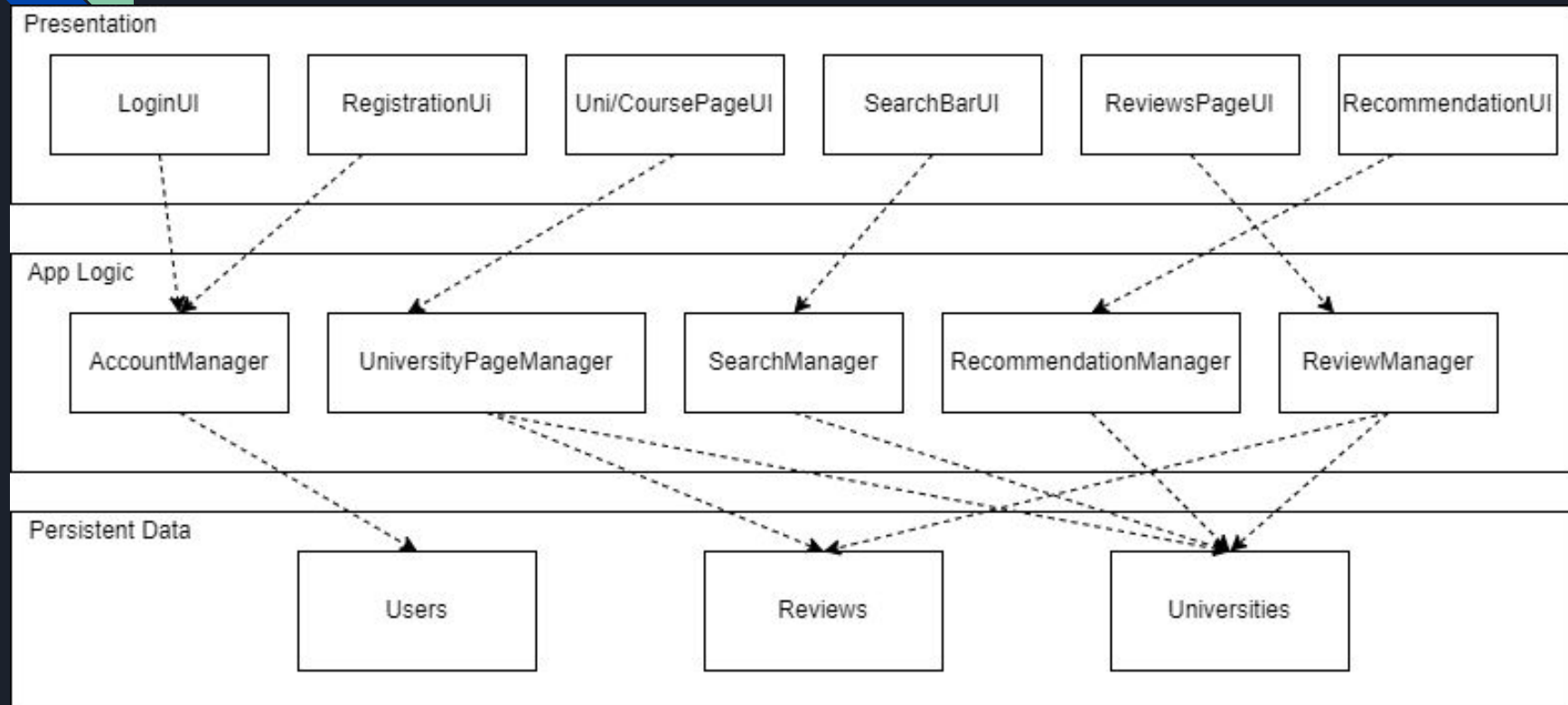


# Seq Diagram: Recommendation



**Seq Diagram: Review**

# System Architecture





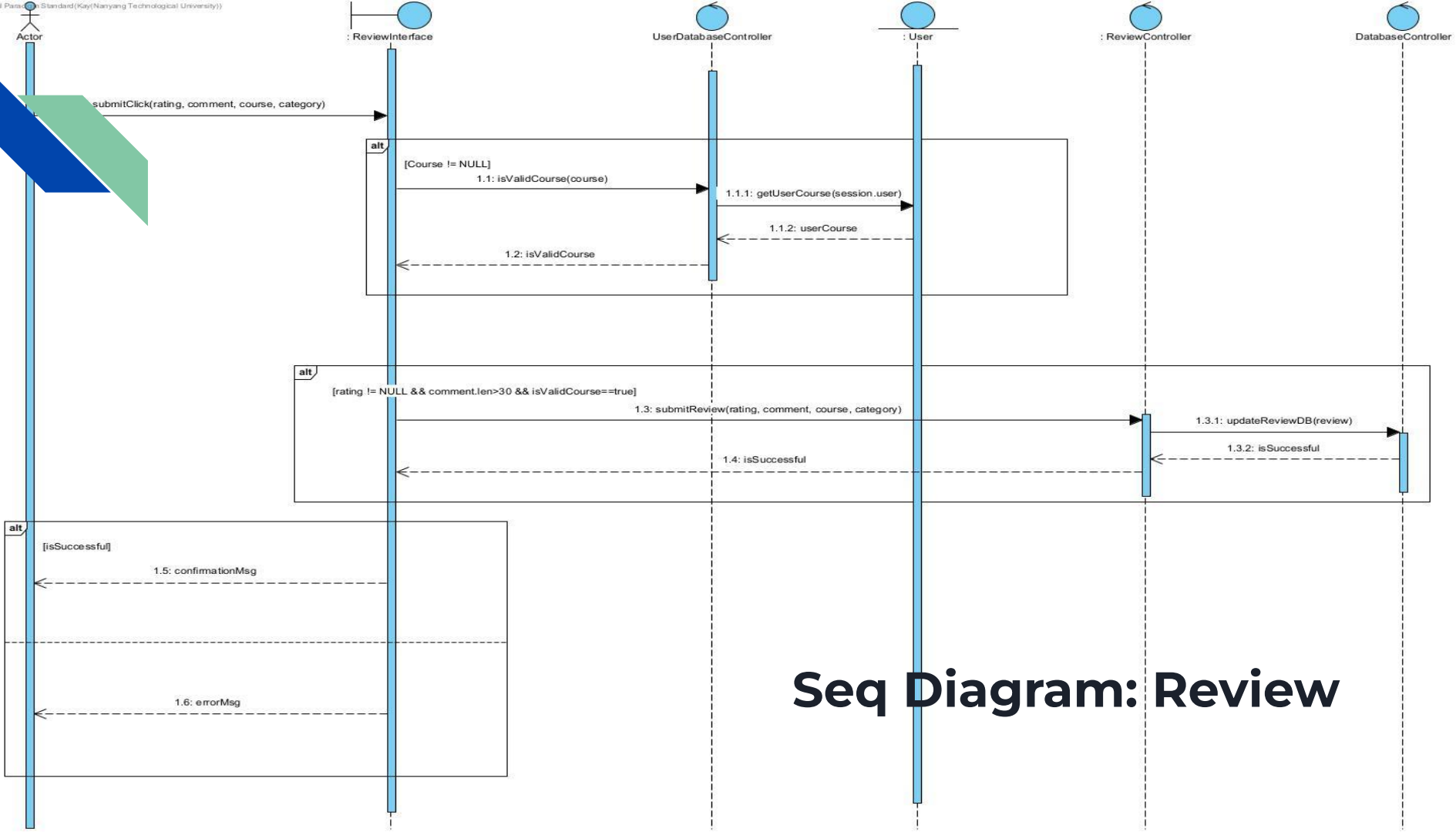
# Backend Architecture

- The backend of Your Future consists of the Flask web framework was used to establish a connection to our MySQL database hosted in the cloud.
- For the purposes of our app, we collected several datasets to be stored in the database.
- The backend handles the aspects of creating and storing a user's account credentials, and information that will be used to return the desired results.
- An example is our recommendation function, where a user inputs their criteria and we will return a university based on the information provided. The calculations and technicalities of the recommendation is invisible to users as it takes place in the backend.



# Use Case Example XXX: (Good practices)

- Class diagram for use case
- Sequence diagram for use case
- Good design practices
- System design to integrate this particular use case



# Seq Diagram: Review

