

FIU

Knight Foundation
School of Computing
and Information Sciences

Florida International University

Summer 2022 Capstone II Project

Make My Day!

Students: Syed Shavez Hussaun

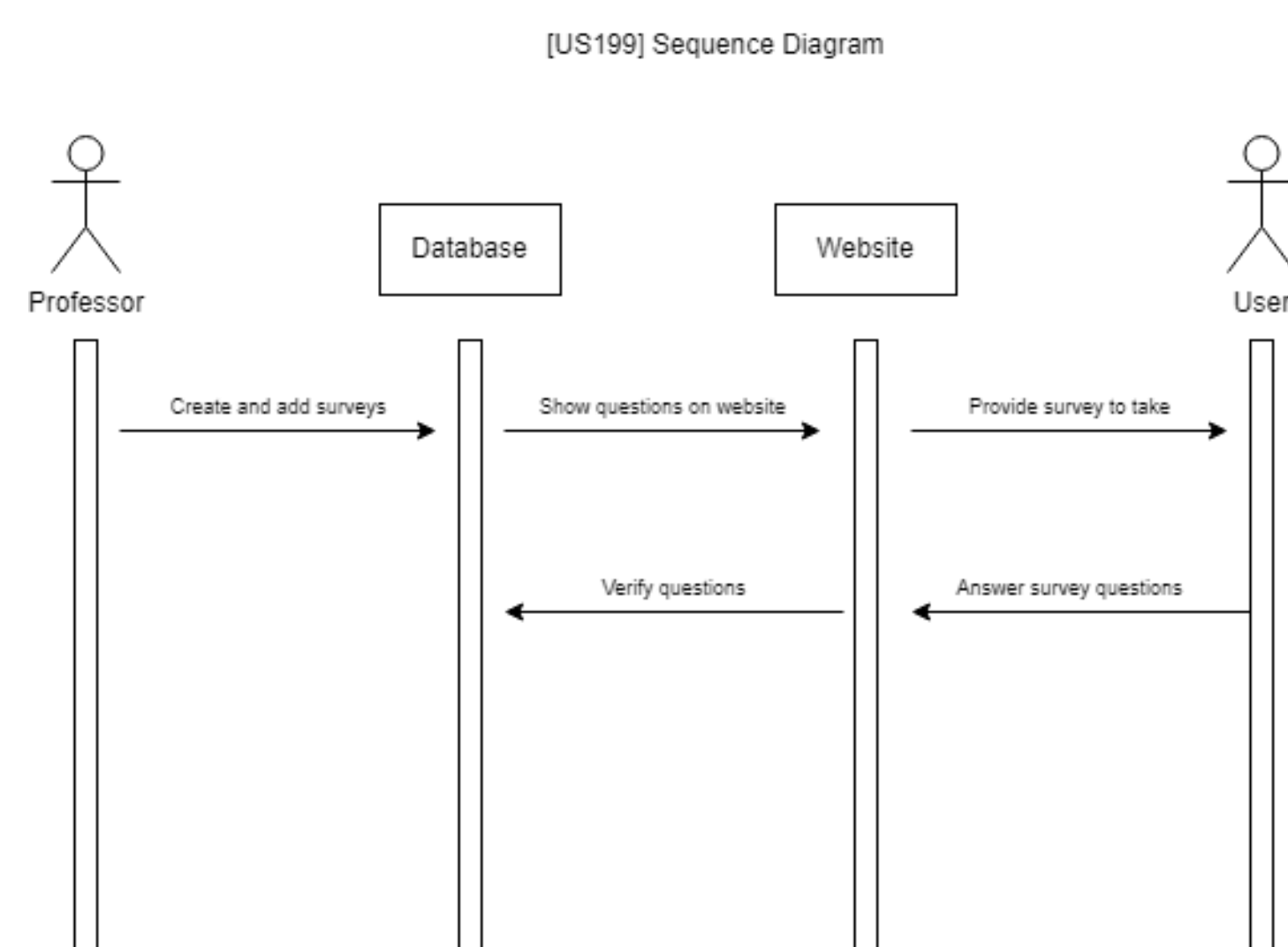
Mentor: Giri Narasimhan, Product Owner

Instructor/Faculty: *Dr. Masoud Sadjadi*, Florida International University

PROBLEM

The problem presented to our team was to design a system that allowed registered students answer one multiple question a day and provide explanations of the right and wrong answers. The system required to allow students to choose a schedule to receive notifications to answer the questions. An instructor would also need an easy user interface to enter questions into a question bank and provide detailed explanations of the right and wrong answers.

SYSTEM DESIGN



SUMMARY

During this project, the requirements assigned were able to be fulfilled. We had a deployable application that allowed students to be able to answer a question a day and an instructor to be able to create questions for those students. Due to the limited time we had, some features functionality such as a statistics page, a create a question/answer page, and various other course abilities. However, we made it easy for developers to implement these features in future sprints

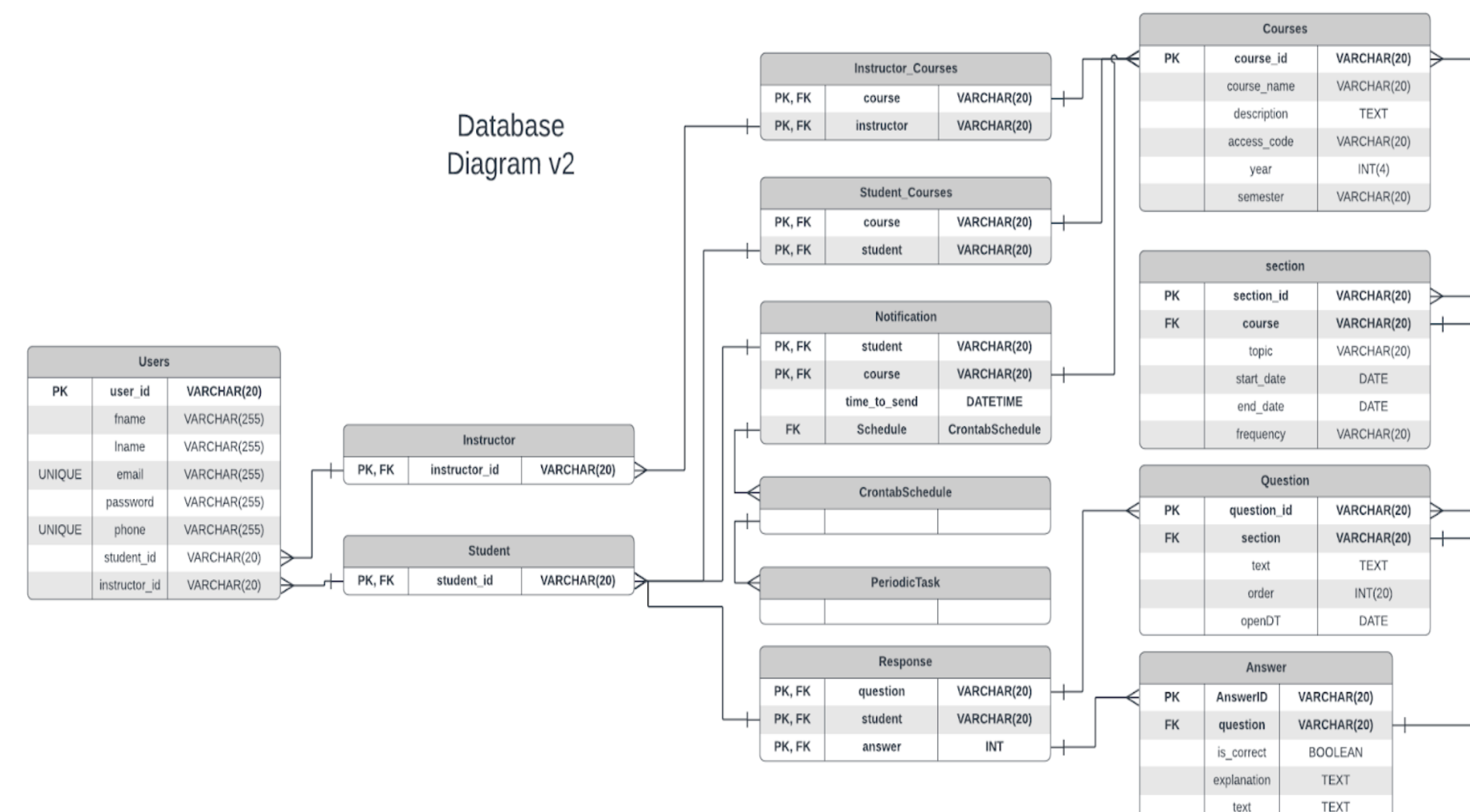
ACKNOWLEDGEMENT

The material presented in this poster is based upon the work supported by FIU. We thank Giri Narasimhan for his assistance and mentorship that we received throughout the senior design project.

CURRENT SYSTEM

The main goal of this project was to create an application that allows users to answer a question a day. The team was tasked with creating a full stack web application that allowed students to answer questions everyday and instructors to create questions that were relevant to what they were teaching in their class. This application allows students to constantly reinforce the concepts learned in class and get a better understanding of it.

OBJECT DESIGN



TECHNOLOGIES

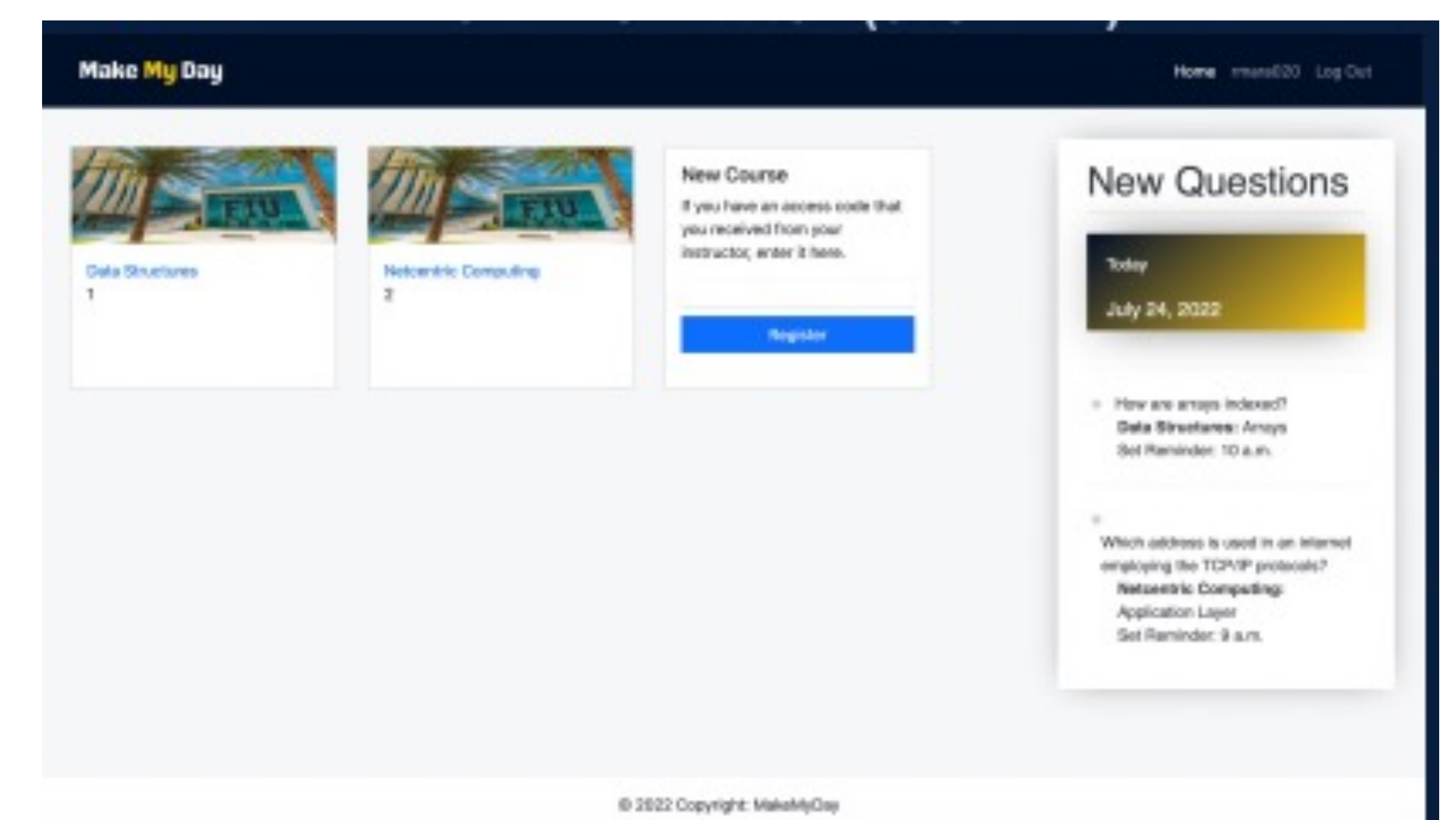


REQUIREMENTS

- As a developer, I want to know how the database is initially going to be set up to minimize hurdles in eventual implementation and further understand the product owner's requirements.
- As a developer, I want to implement the database (tables and attributes) so that we have a place to store all the information.
- As a developer, I want to create API endpoints in our back-end to return basic information such as questions, answers, courses from the database.
- As a developer, I want to create Models for the database tables using ERD that was previously created.
- As a course instructor, I want to be able to register a course for a specific semester so that I can send questions to my students
- As a course instructor, I want to be able to create a list of registered students to keep courses organized
- As a course instructor, I want to be able to delete, add, or edit questions or answers to questions so that my students can learn.
- As an Instructor, I want to be able to register a course for a specific semester so that I can send questions to my students.
- As an Instructor, I want to be able to create a list of registered students to keep courses organized and able to add registered users to the course as well.
- As an Instructor, I want to be able to create a new question bank with some broad parameters so that questions are sent and done under more specific conditions.

IMPLEMENTATION

The image below shows the homepage for the student. Here you can see what students are currently registered under and see a notification tab on the courses. The image on the right shows what questions need to be answered today

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