



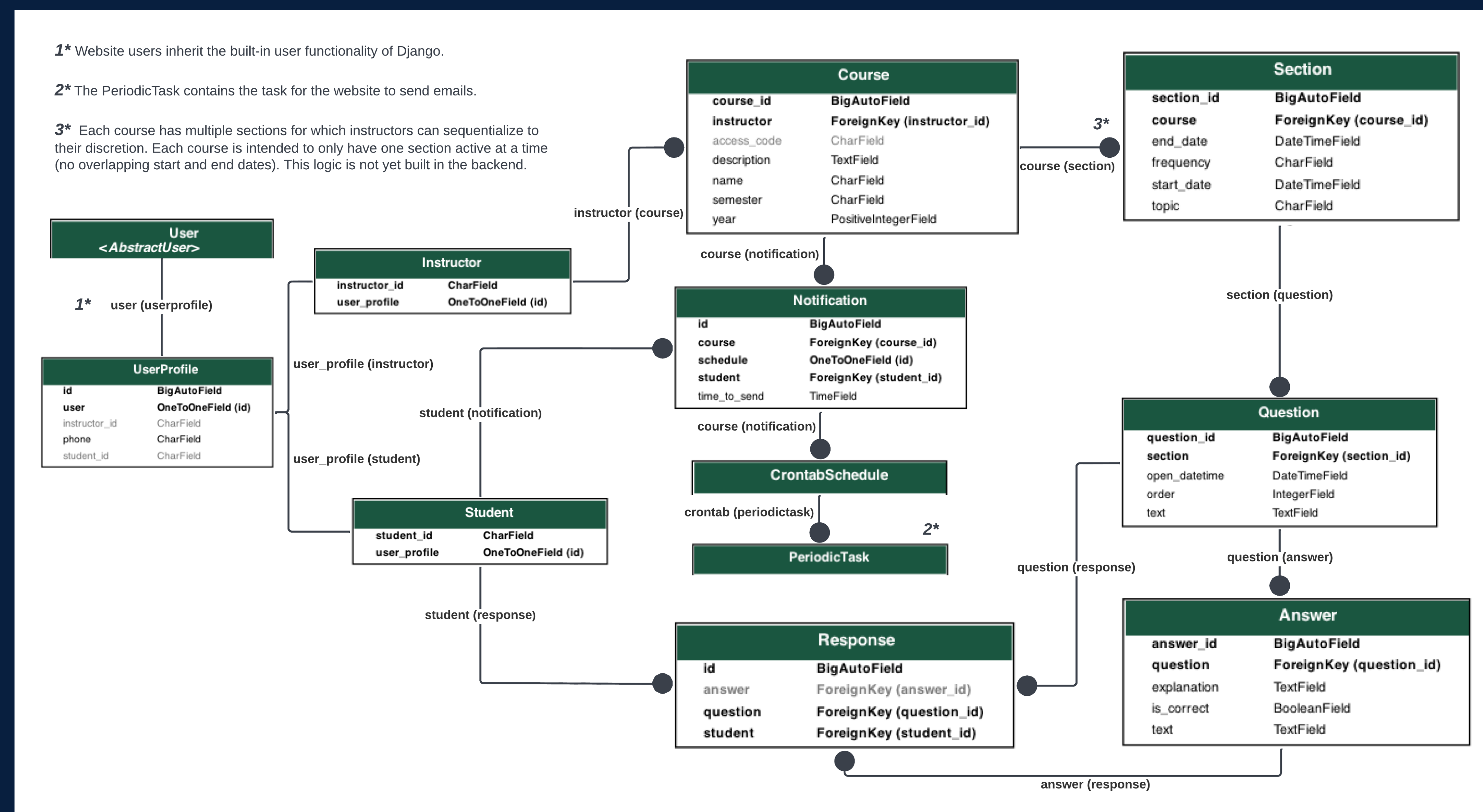
SUMMARY

The Make My Day! Project is a collaborative effort to improve students' retention and comprehension of their classes. During the 2022 summer semester, the team was tasked with creating a full stack web application from the ground up that provides instructors and students a simple way of giving and receiving questions within curated times. By answering a question daily or weekly on the website notified via email, students can steadily improve their skills throughout a semester.

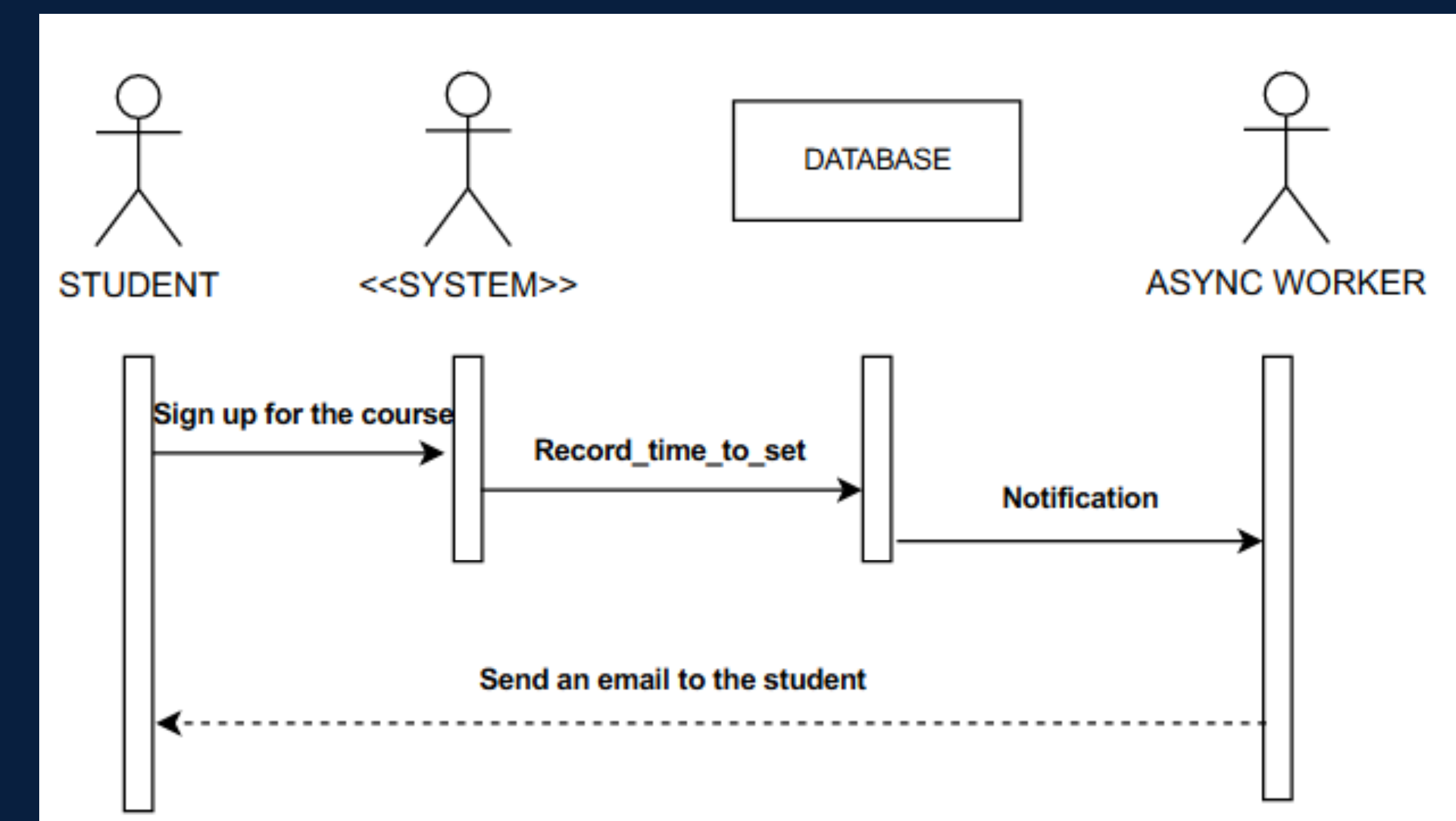
PERSONAL CONTRIBUTIONS

- Led the team and distributed workload among members.
- Designed initial and final database schema.
- Normalized database to reduce redundancy and increase integrity.
- Created backend API endpoints to connect to the frontend
- Implemented the question functionality within the backend
- Created the email notification system using **RabbitMQ** and **Django Celery**
- Structured and stylized various webpages
- Containerized the website using **Docker**

OBJECT DESIGN/CLASS DIAGRAM



MODEL DESIGN AND IMPLEMENTATION



CURRENT SYSTEM

The website is catered toward two different users, Instructors and students.

For students:

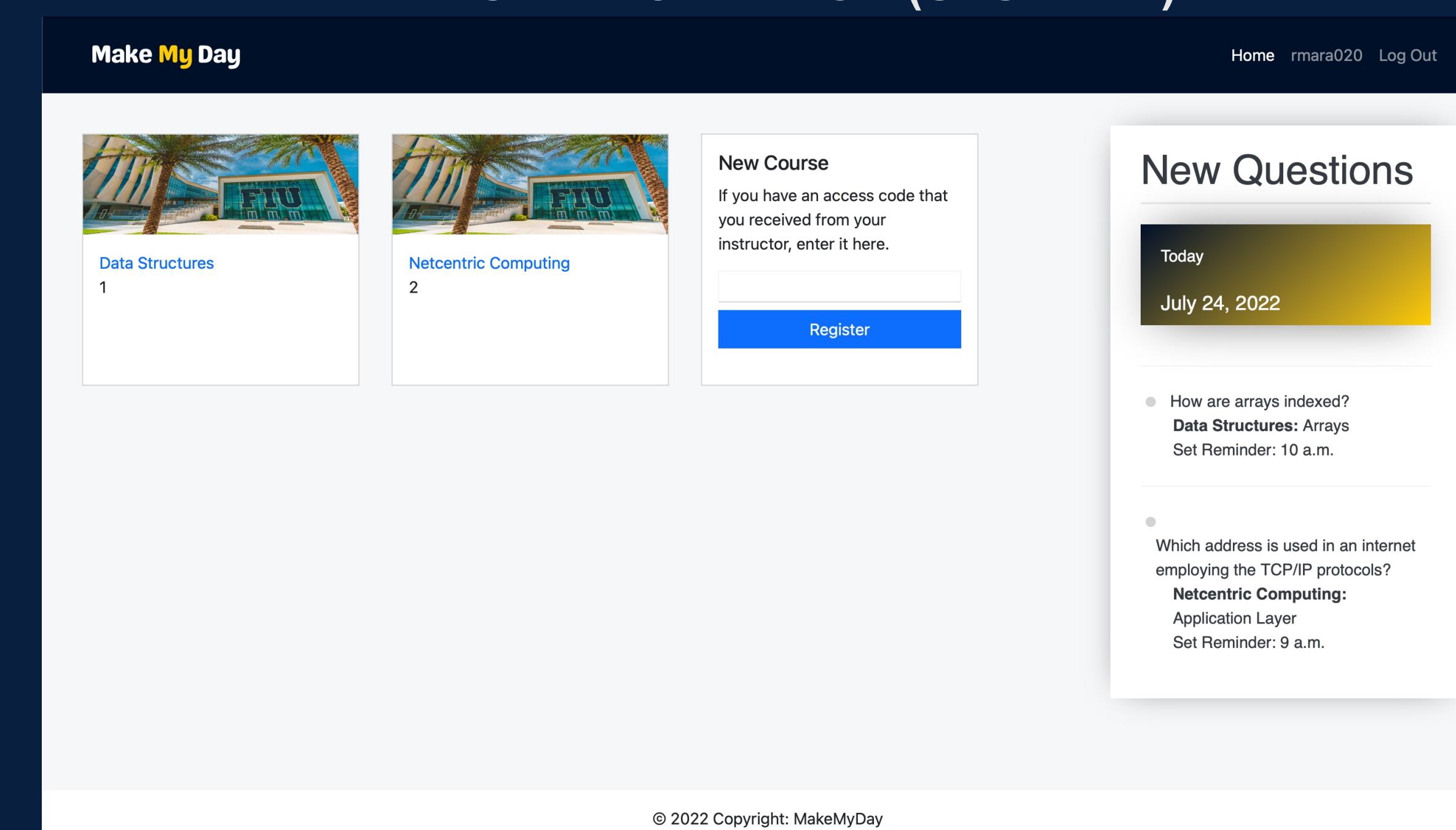
- Students can sign up for their instructor's course using a provided access code.
- Upon signing up, they are prompted to enter a specific time to receive email notifications daily if any questions open.
- On the home page, the student can then pick on the questions for the day.
- To look at past questions, students can check them on the specific course pages displayed on their homepage.

For instructors:

- They can create courses.
- To separate topics within a course, they can create sections that can appear within specific times and house questions.

Due to the limited amount of time, the functionality of developers was not able to be fully realized. However, the foundation has been laid for future developers to easily implement functionality such as a statistics page, a create a question/answer page, and various other course abilities.

WEBSITE HOMEPAGE (STUDENT)



ACKNOWLEDGEMENT

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