

School of Computing & Information Sciences

Spring 2023 Senior Design Project

University Social App

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PROBLEM

While many social media and dating apps exist, there are not yet any applications for students at FIU to connect with one another socially, and be able to form friendships and relationships within the FIU community.

CURRENT SYSTEM

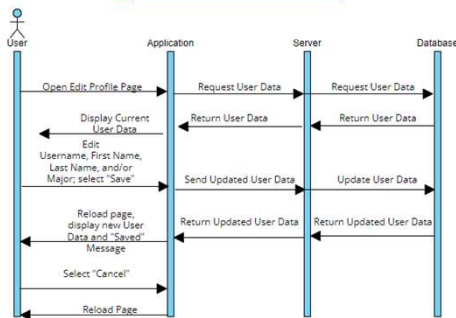
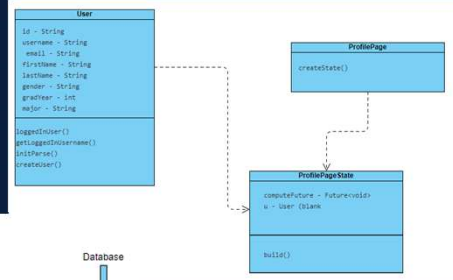
Before this application, the only way for students to meet each other within FIU is to meet in person or through course specific group-chats, however outside of this there was no way to meet and connect exclusively with other FIU students.

IMPLEMENTATION

The application was developed using Flutter and with a Back4App database. Several tables were set up in the database to store the users' information, as well as the inter-user messages and connections. The frontend was set up to be similar to a dating app, with the ability to 'like' or 'dislike' users (to connect with them or not), and upon 'liking', the ability to message the other user is opened.

I was tasked with developing the 'Edit Profile' function of the app, which would allow users to change elements such as their profile image, username, name, and major. Additionally, I worked to develop the central User class to parse information going to and coming from the database.

SYSTEM DESIGN



Edit Profile

Username

testman11

First Name

Jim

Last Name

Johnson

Major

Computer Science

CANCEL

SAVE

id	username	email	firstName	lastName	gender	grade	major	password
1	testman11	testman11@gmail.com	testman	11	male	2023	Computer Science	testman11
2	testman12	testman12@gmail.com	testman	12	male	2023	Computer Science	testman12
3	testman13	testman13@gmail.com	testman	13	male	2023	Computer Science	testman13
4	testman14	testman14@gmail.com	testman	14	male	2023	Computer Science	testman14
5	testman15	testman15@gmail.com	testman	15	male	2023	Computer Science	testman15
6	testman16	testman16@gmail.com	testman	16	male	2023	Computer Science	testman16
7	testman17	testman17@gmail.com	testman	17	male	2023	Computer Science	testman17
8	testman18	testman18@gmail.com	testman	18	male	2023	Computer Science	testman18
9	testman19	testman19@gmail.com	testman	19	male	2023	Computer Science	testman19
10	testman20	testman20@gmail.com	testman	20	male	2023	Computer Science	testman20

CONCLUSION

A sizeable portion of the initial goals for the application were met: the homepage, messaging, creating a profile, editing a profile, having a cohesive UI, etc. However, due to everyone on the team's prior inexperience with Flutter, some of the more complex features initially ideated were not completed. These included a feature to see what students were on campus and willing to meet in-person in real-time, verification that the student is indeed an FIU student, etc. That being said, this was the first semester for the project, and thus these are features that can be worked on by later teams if the project is to resume for the coming semesters.