



Knight Foundation School of Computing and Information Sciences

Knight Foundation School of Computing and Informational Sciences Spring 2023 Capstone II Project NuMom (Keeping Moms & Infants Healthy)



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

PROBLEM

- New mothers who have low income do not have access to the appropriate resources face many challenges to gain essential care.
- Without access to these resources, it becomes extremely difficult for mothers to care for their children.
- The NuMom app seeks to assist new mothers by providing them with access to great resources that will give them the proper care for themselves and their children.
- The app provides several features to aid new mothers such as making it easier for them to find information, facilities, booking appointments as well as provides important health information.

CURRENT SYSTEM

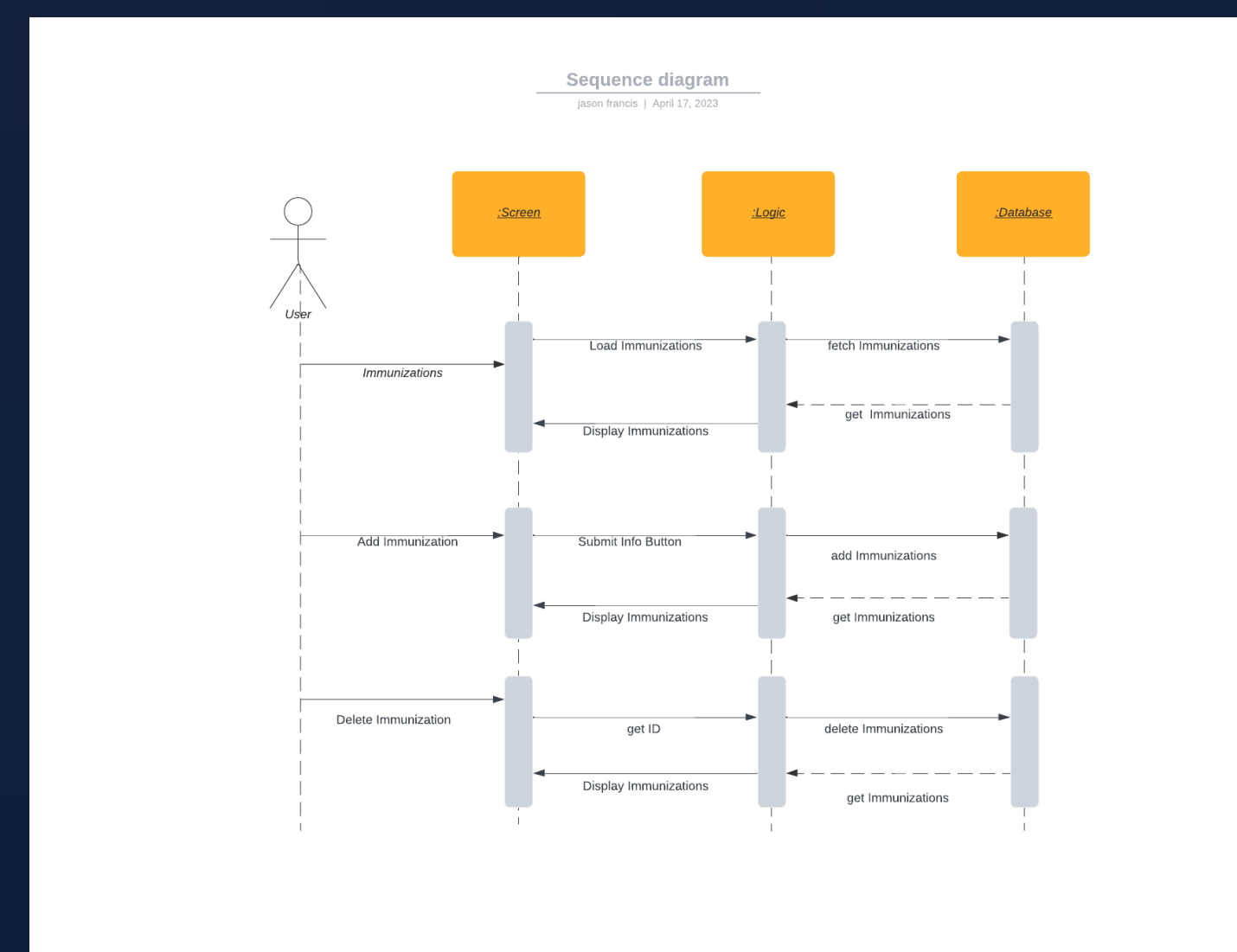
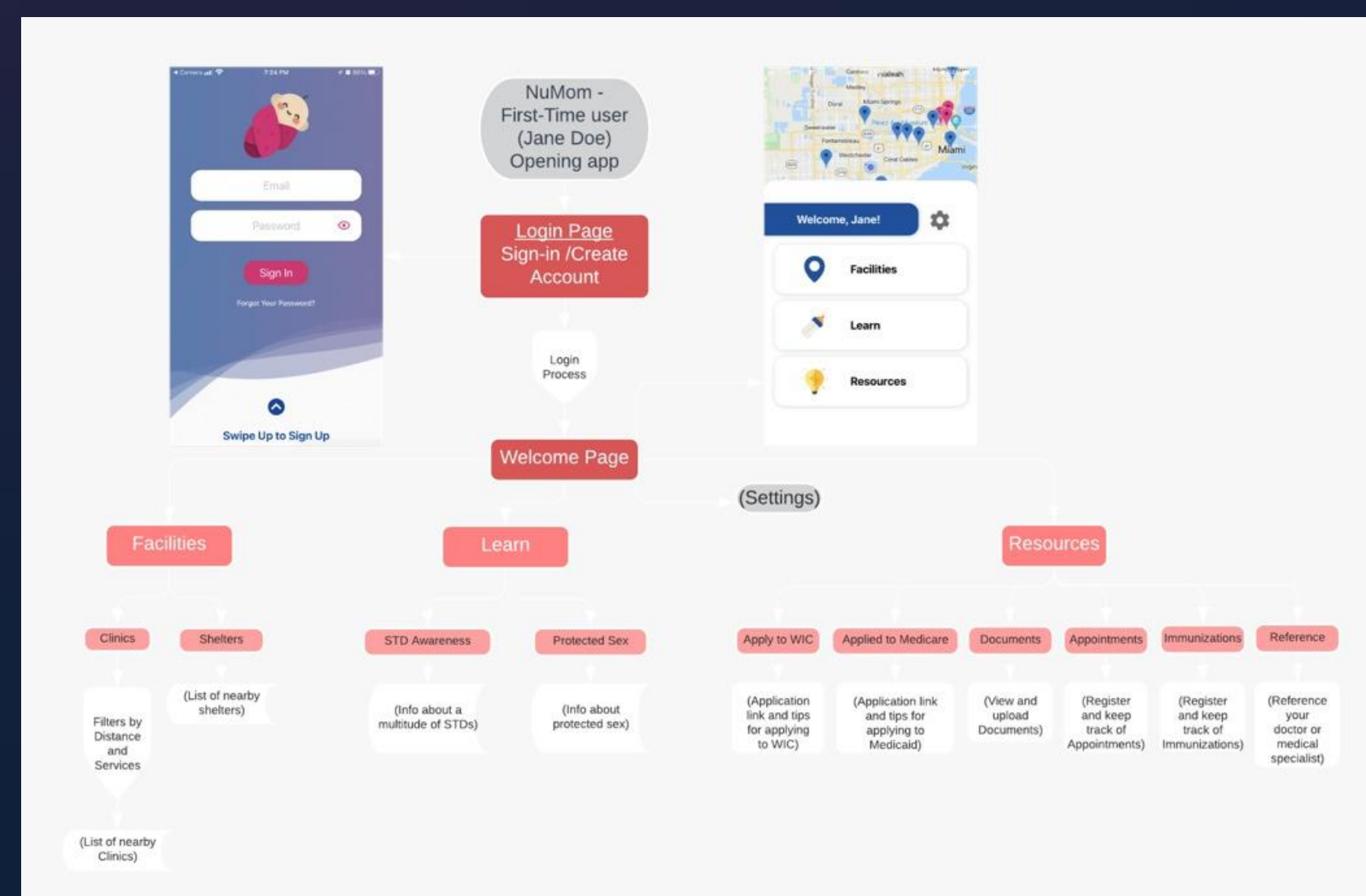
Currently the most recent version of NuMom provides users with the following functionalities:

- Provides locations and information of facilities, clinics and shelters.
- Allows for users to sign up/Login and save profile information
- Shows important information of STD's as well as safe sex practices.
- Allows for the recording of documents, appointments, immunizations and references.
- Aids in applying to WIC and Medicaid.

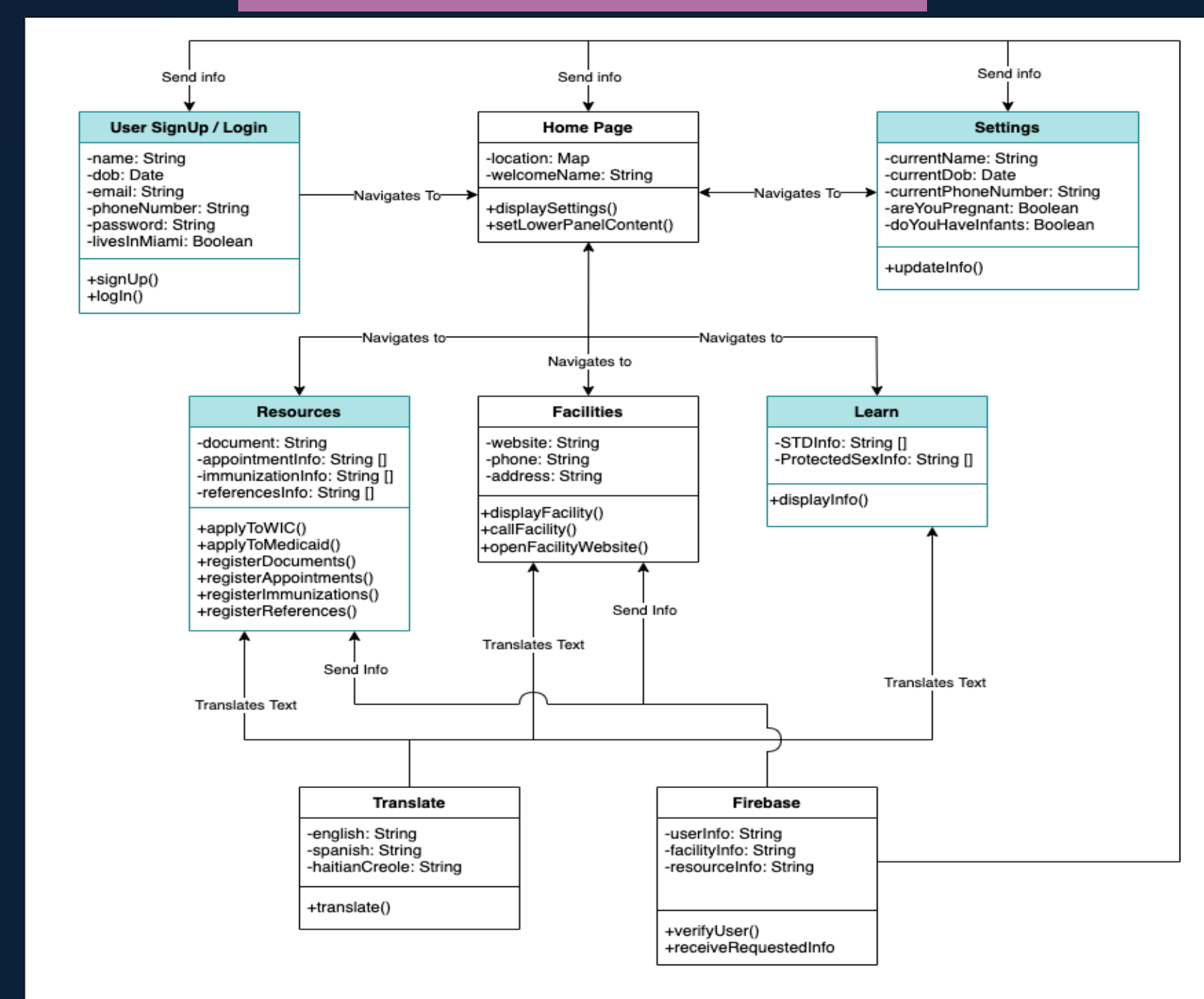
REQUIREMENTS

Throughout the semester the main goal was to improve the UI as well as upgrade the project to its current version. Several changes were made to ensure a great user experience throughout the application. Bugs were also fixed for the project throughout the semester. The main objectives worked on include visual changes making the app more accessible and readable to users. Another major objective was updating the app from web version 8 to 9. Several changes were made throughout the app to accommodate this and allow for the upgrade.

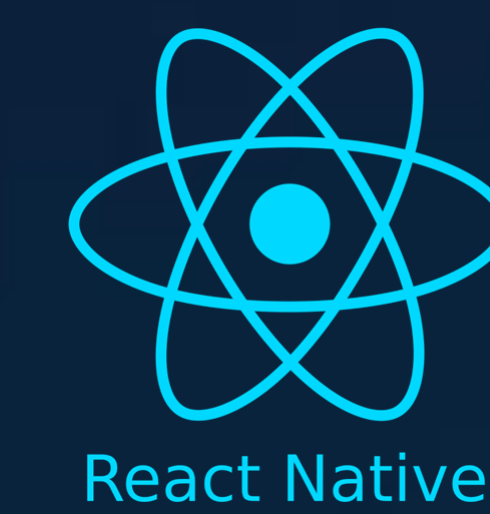
SYSTEM DESIGN



OBJECT DESIGN



IMPLEMENTATION



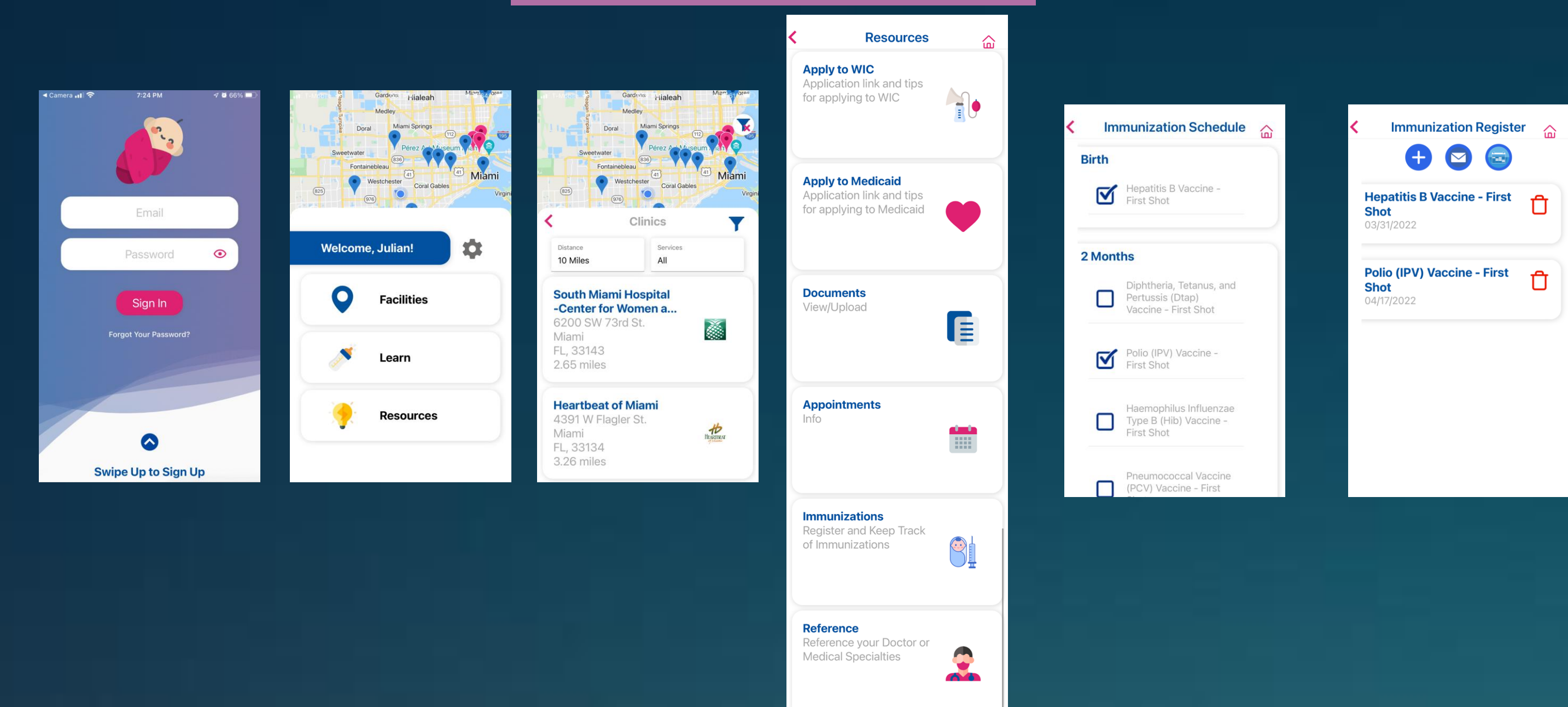
VERIFICATION

Testing and verification for the app was done by using the Expo localhost application whereby the terminal was used to execute it to the server. Github was also used to gain access to the project. To test the project, the user would need to download and have the Expo Go app on their mobile device. Throughout the development process when running the code through the Expo framework any changes made were able to be viewed in real time. Git was used for the version control and issues were posted on Github. Here we were able to view pull requests from the team, review and approve the code.

SUMMARY

The most recent version of the NuMom app has been improved throughout the course of the semester several user interface design changes have been made. Many bugs have also been fixed. Most of the work done this semester was to improve the app from previous semesters and upgrade the app to its current version. From being involved with this project I learned several crucial teamwork skills that will certainly help me in my future career. I was able to learn valuable skills about the development process through doing the sprints.

SCREENSHOTS



ACKNOWLEDGEMENT

The material presented in this poster is based upon the work supported by Jean Hannan. I thank Jean Hannan for her assistance and mentorship that I received throughout the Capstone II project.