



Knight Foundation School of Computing and Informational Sciences

Summer 2022 Senior Design Project

Keeping Moms & Infants Healthy

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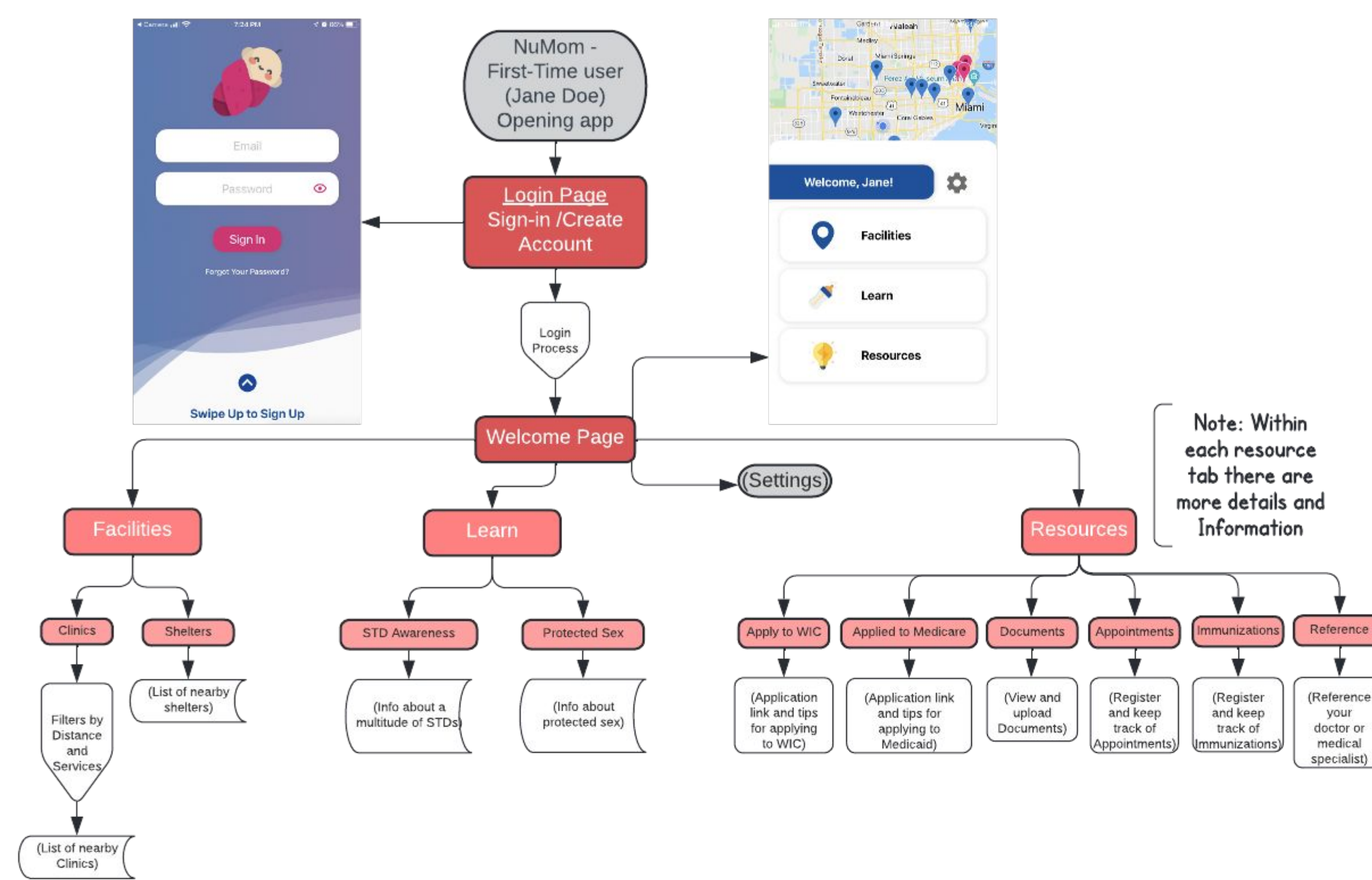
Mentor: Jean Hannan, Product Owner, Eduardo Morales, Product Owner Aide

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

PROBLEM

There is a clear disparity in access to resources necessary for prenatal and postnatal care between low-income mothers and higher-income mothers. Access to these resources are already difficult to obtain for middle class women, as a result NuMom has been implemented to aid mothers and pregnant women in acquiring these resources. NuMom has made it easier to organize important parenting information, find facilities (clinics and shelters), book appointments necessary to evaluate infant development, and monitor their children's development. NuMom aims to bridge the gap between these disparities by providing easy access to resources necessary for proper child care.

SYSTEM DESIGN



VERIFICATION

We performed app testing by running an expo through a localhost tunnel, which would run the app on a server. The tester could connect to the application using the Expo Go mobile app. This allowed for the tester to make changes to the application and evaluate it in real time on their own mobile device. GitHub was used for version control, posting bug issues and fixes, and dividing work equally each sprint. Pull requests were posted in relation to each issue fixed and were reviewed by 2 or more members of the team for proper verification before the branch was merged to development.

ACKNOWLEDGEMENT

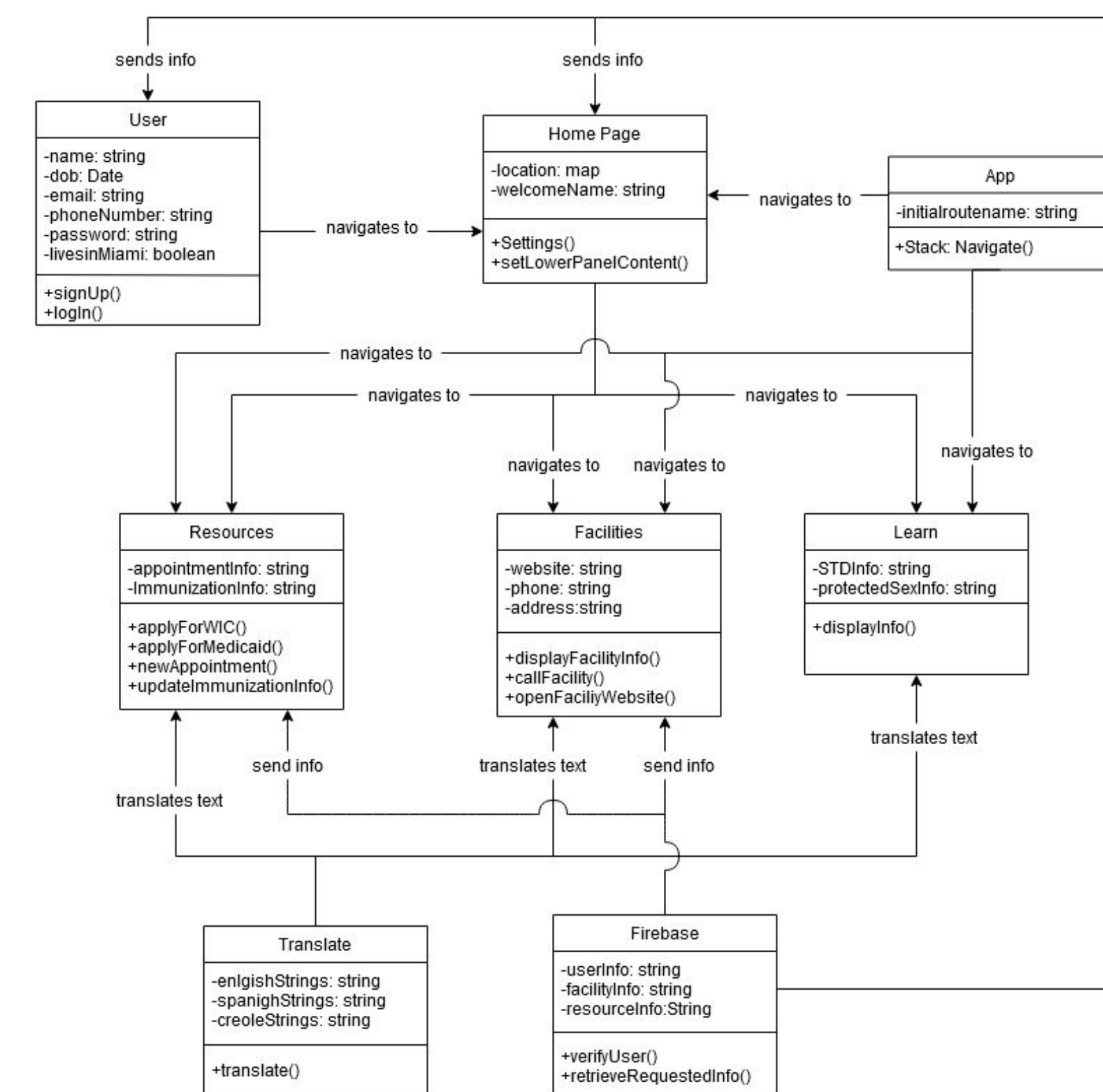
The material presented in this poster is based upon the work supported by Jean Hannan. I thank Jean Hannan for her assistance and mentorship that I/we received throughout the senior design project.

CURRENT SYSTEM

The current version of the NuMom app provides users with the following:

- ❖ Three languages: Spanish, English, Haitian Creole
- ❖ Provides information on safe sex practices, condom insertion, and information on STDS
- ❖ Nutritional facts for infant care and child development
- ❖ Facilities where resources can be accessed, as well as female only shelters
- ❖ Provides information and aid in applying for Medicaid and WIC
- ❖ Records immunizations, appointments, important documents, etc.

OBJECT DESIGN



SUMMARY

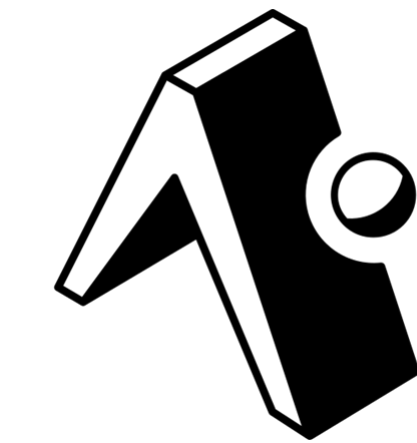
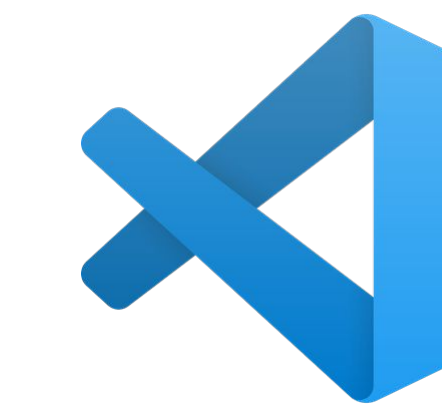
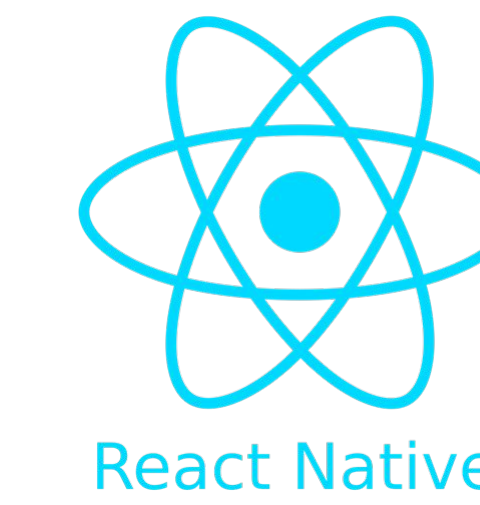
The NuMom app gives easy access to mothers or expecting mothers in need. We focused on the design aspects of the app, refining user readability and making sure the information provided was easily digestible. This version of the app is a bit more organized and gives the user access to clinics and shelters a reasonable distance from them. NuMom also provides an organized list of transmittable STDs and the symptoms to detect them, as well as safe sex practices such as proper condom insertion. The images and directions on these steps has also been improved.

REQUIREMENTS

The main goal of this semester was to clean up the app and update to Expo 45. Some of my personal contributions include fixing the following issues:

- ❖ Fixing a blank page in the signup process. We assumed it was a page meant to be deleted and was forgotten by members from a previous semester, however, we found there was an error on the script which caused the blank page.
- ❖ Improved readability on the information presented on the clinic's tab.

IMPLEMENTATION



SCREENSHOTS

