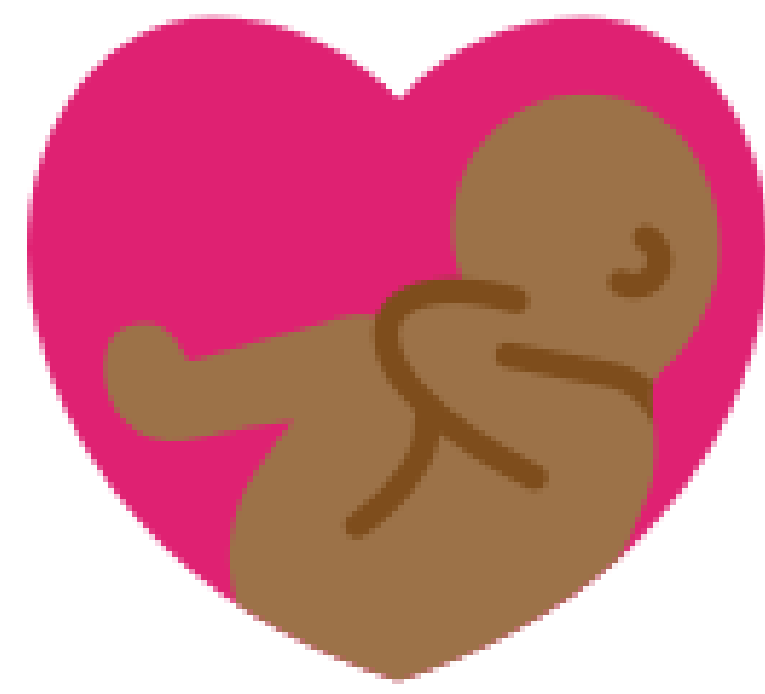




Knight Foundation
School of Computing
and Information Sciences



Knight Foundation School of Computing and Informational Sciences

Fall 2022 Capstone II Project

NuMom (Keeping Moms & Infants Healthy)

Student: Lisabeth Roche

Mentor: Jean Hannan, Product Owner & Eduardo Morales, NuMom Veteran

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

PROBLEM

Research by Dr. Hannan has shown that low-income minority mothers have reduced access to healthcare resources for themselves and their newborns. The goal of the smartphone-based app NuMom is to bridge the gap in this disparity and provide adequate information about infants, milestones, sexual health, and much more in an easy-to-understand format.

CURRENT SYSTEM

The current system of NuMom allows for:

- Location search for clinics and shelters nearby.
- Learning resources on STDs, milestones, feeding, condoms, etc.
- Recording immunizations, documents, & appointments
- All this information fully translated between English, Spanish, and Haitian Creole.

REQUIREMENTS

This semester, we were given the task to focus on bug fixes as well as some feature additions. My contributions include of:

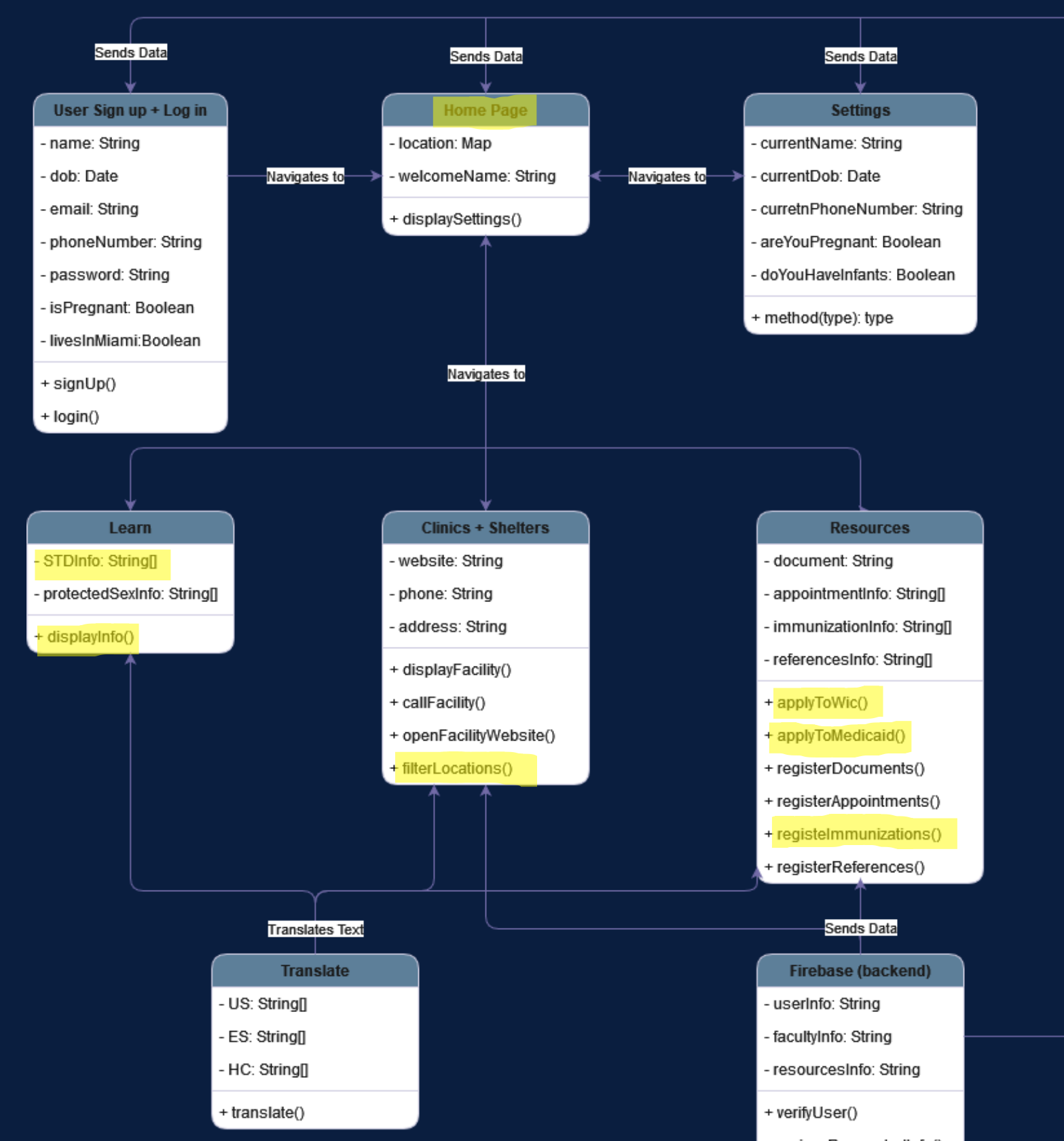
- Implemented filtering of locations to WIC, shelters, & Medicaid pages.
- Added icons to differentiate between different food groups.
- Created a button to outside website sources on the STD information page.
- Fixed minor UI bugs.

SYSTEM DESIGN



Highlighted are areas which I personally focused development in.

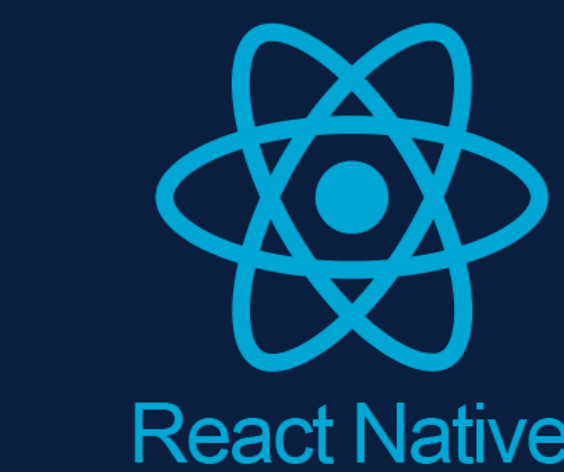
OBJECT DESIGN



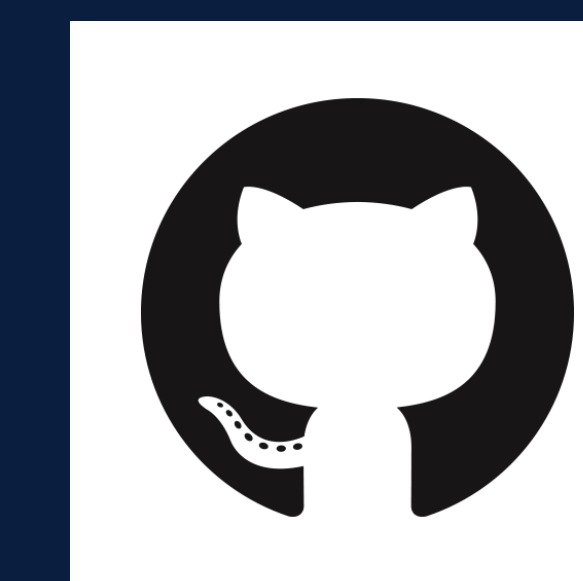
SUMMARY

As the Capstone II lead for this group, I am very happy with the progress made in Fall 2022. NuMom is in quite a good state right now, where most of the glaring issues with the UI have been patched. Besides needing to update the expo version next semester, the next batch of students to work on this project can go ahead with implementing the larger features planned for the application.

IMPLEMENTATION



Firebase



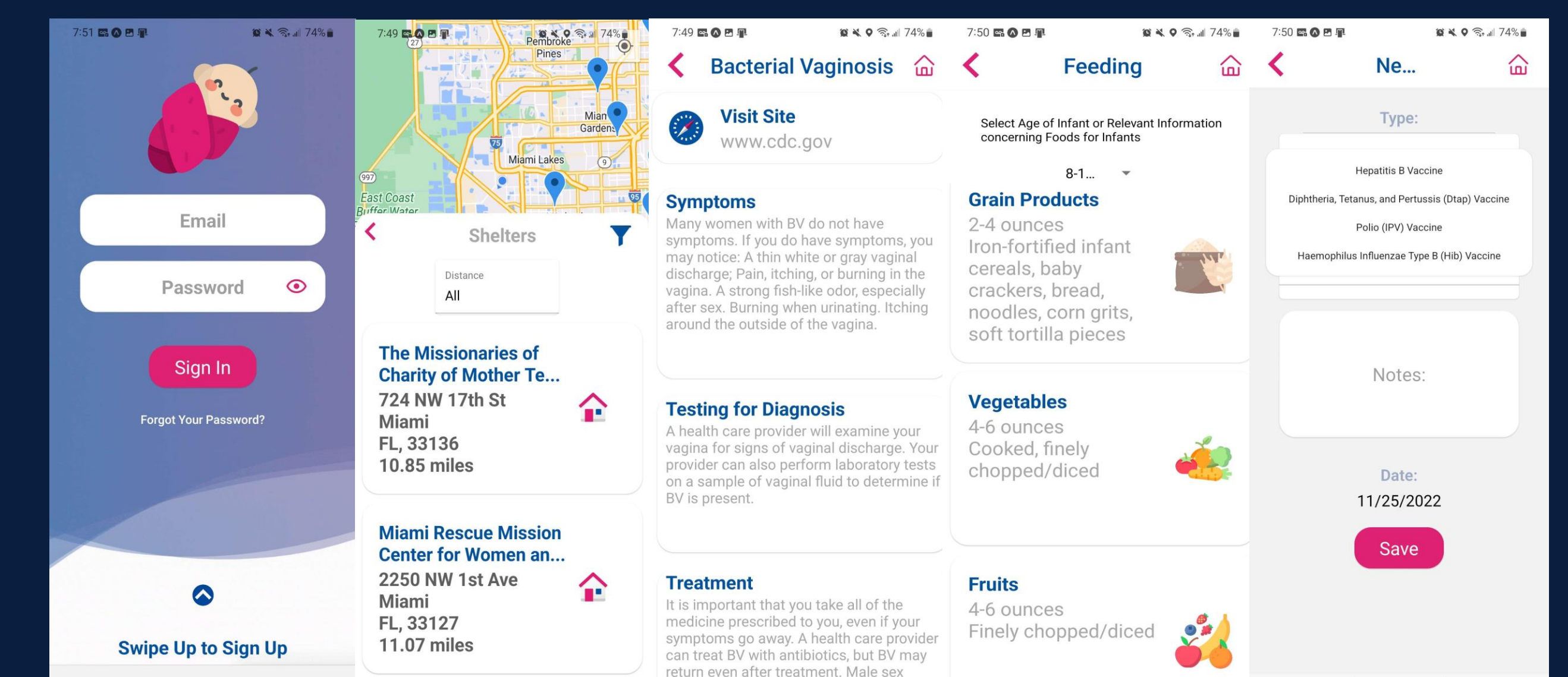
VERIFICATION

Verification of our work was a collaborative effort, where each one of our pull requests required reviews from two other team members to be considered ready. When reviewing, we would run the app locally using expo on our own devices and ensure the issue was completed correctly. Issues were reported if necessary, and we always made sure to check on both Android and iOS.

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 senior design project.

SCREENSHOTS



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