



Knight Foundation School of Computing and Information Sciences

Summer 2022 Capstone II Project

NuMom (Keeping Moms and Infants Healthy)

Student: Gabriel Gomez

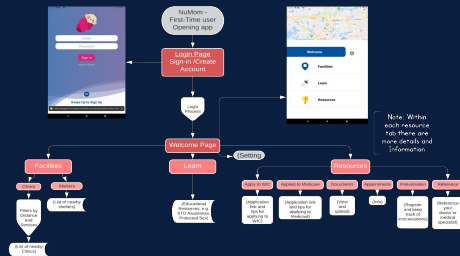
Mentor: Jean Hannan (Product Owner) & Eduardo Morales (NuMom Veteran)

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

PROBLEM

New mothers do not have an easy way of finding all the resources that can help them successfully care for their infants. A big goal of NuMom is to simplify this process and help mothers find everything they need - this includes finding clinics/shelters, having access to important information about female sexual health, and much more.

SYSTEM DESIGN



VERIFICATION

As done in previous semesters, the students developing the project this semester tested changes using Expo. An Expo localhost was used to run the server through a tunnel, and the Expo Go app allowed us to test the changes live on our smartphones, which lets us ensure that new changes are working properly on the hardware we are designing the app for. GitHub was used throughout the semester to facilitate merging branches of development and updating the app through pull requests and approvals.

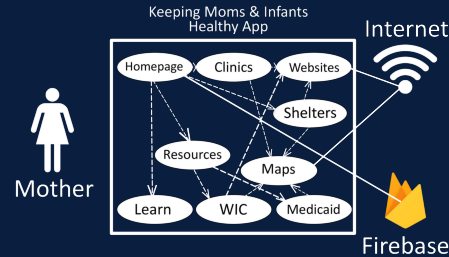
ACKNOWLEDGEMENT

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

CURRENT SYSTEM

NuMom is an app designed for low-income households and minority mothers. Its main purpose is to provide valuable information and resources for new mothers who need assistance or information regarding care for their newborns. As a result, public health and accessibility are top priorities for this project, especially given the target audience.

OBJECT DESIGN



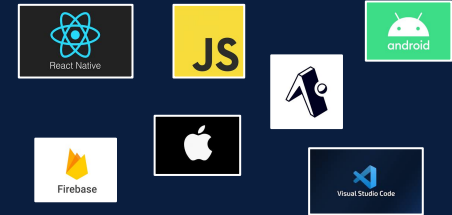
SUMMARY

The NuMom application for low-income minority mothers was updated to incorporate changes made by students who have worked on the project this Summer 2022 semester. Information for new mothers including how to apply for WIC/Medicaid, how to prevent STDs, and where to find nearby clinics/shelters are just some of the many features provided to users by the app. Improvements to the overall user interface and experience were developed and introduced to the app this semester.

REQUIREMENTS

With accessibility as one of our main concerns, our focus throughout this semester revolved around clarifying information within the app, resolving withstanding bugs/issues, polishing our user interface, and upgrading development of the app to the latest technologies. Several pull requests were opened and approved this semester, and substantial progress was made in the areas mentioned above.

IMPLEMENTATION



PERSONAL CONTRIBUTIONS

- Volunteered as Main Team Lead
 - Organized team meetings, communicated with mentor, and assisted team members with problems during development.
- Discovered 5 new issues within the application and opened them for review on GitHub.
- Submitted 5 Pull Requests for review on GitHub, solving various issues and upgrading the app.
- Reviewed 9 Pull Requests, ensuring quality and stability.