



Knight Foundation School of Computing and Informational Sciences Spring 2023 Capstone II Project



NuMom (Keeping Moms & Infants Healthy)

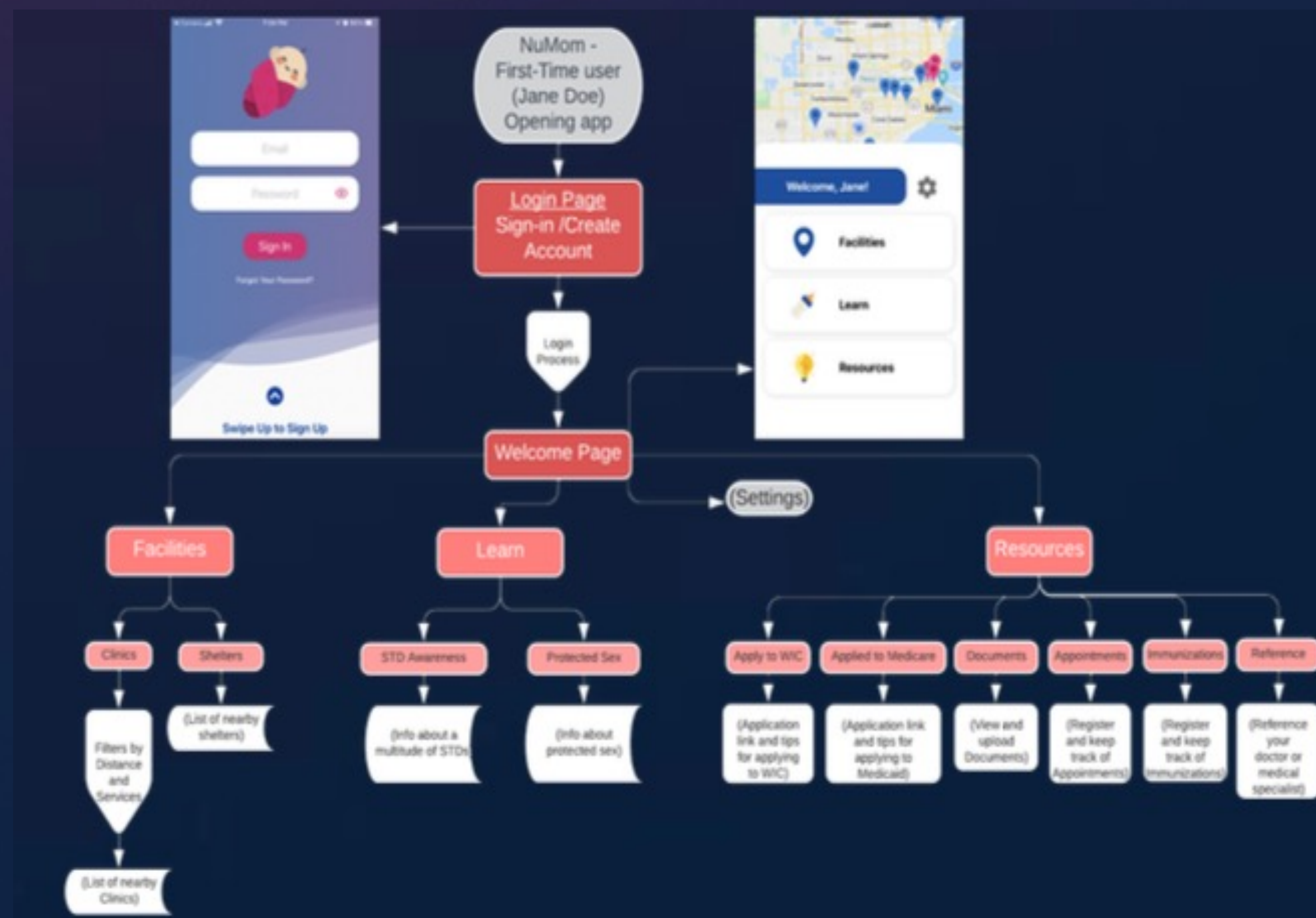
Student: David Delgado Lopez

Mentor: Jean Hannan, Product Owner & Eduardo Morales, NuMom Veteran
Instructor/Faculty: Dr. Masoud Sadjadi, Florida International University

PROBLEM

Low-income mothers often have a lack of resources in order to properly care for themselves and their children. NuMom is an app that aids these mothers such as, being informed (STDs/ childcare) & finding proper medical care in their area. The goal of the app 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.

SYSTEM DESIGN



VERIFICATION

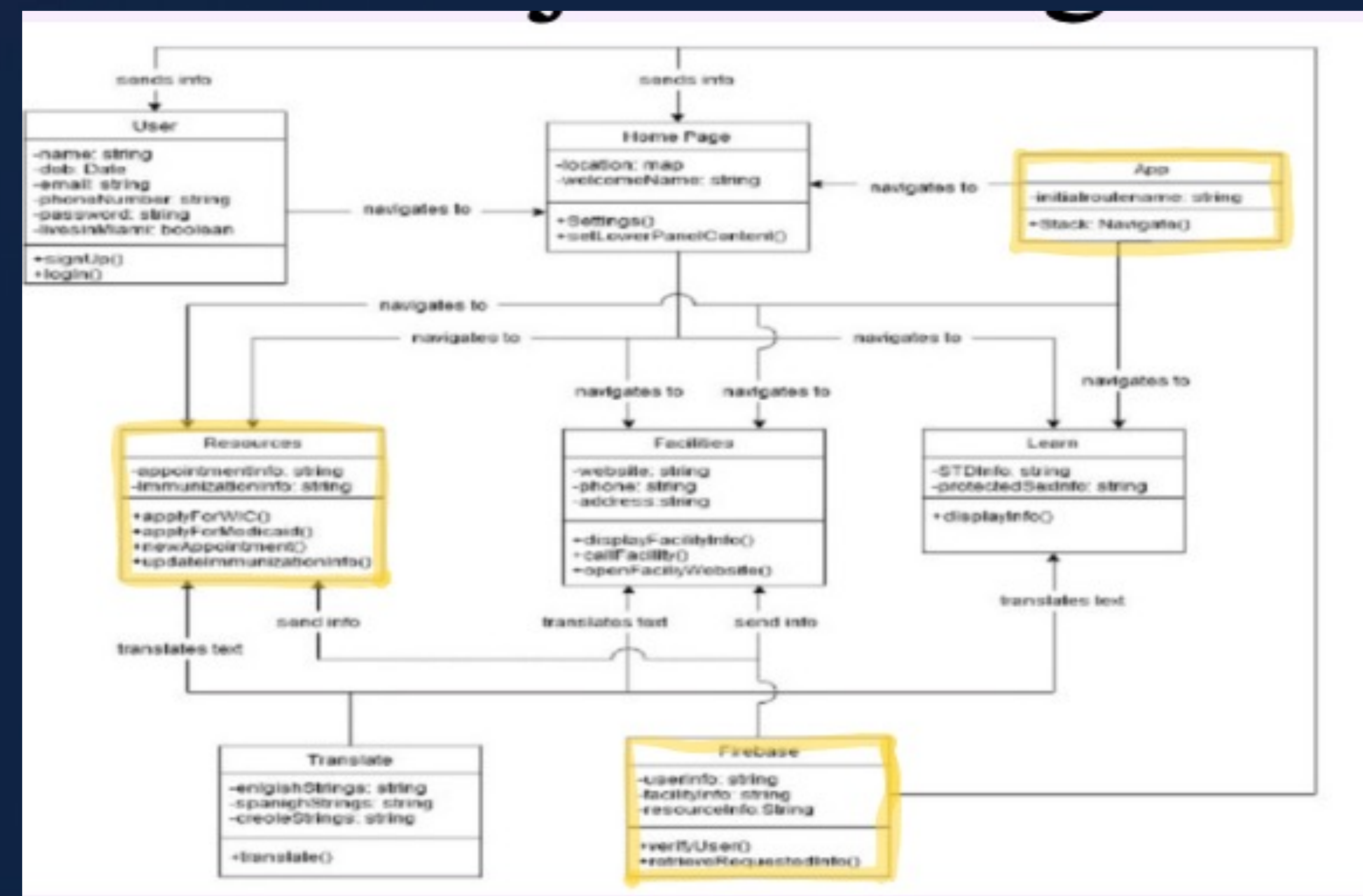
Our work was verified through a collaborative process, where each pull request needed approval from two team members before being deemed ready. During the review process, we ran the app locally using expo on our personal devices to confirm the completion of the task accurately. If needed, we reported any issues and thoroughly tested the app on both Android and iOS platforms.

CURRENT SYSTEM

The present version of the NuMom app offers users the following features:

1. Location search for nearby clinics and shelters.
2. Essential information on safe sex practices, STDs, and child development milestones, including feeding and immunizations.
3. Access to resources and information to assist in applying for WIC and Medicaid.
4. Capability to record immunizations, documents, appointments, and more.
5. Available in three languages: English, Spanish, & Haitian Creole.

OBJECT DESIGN



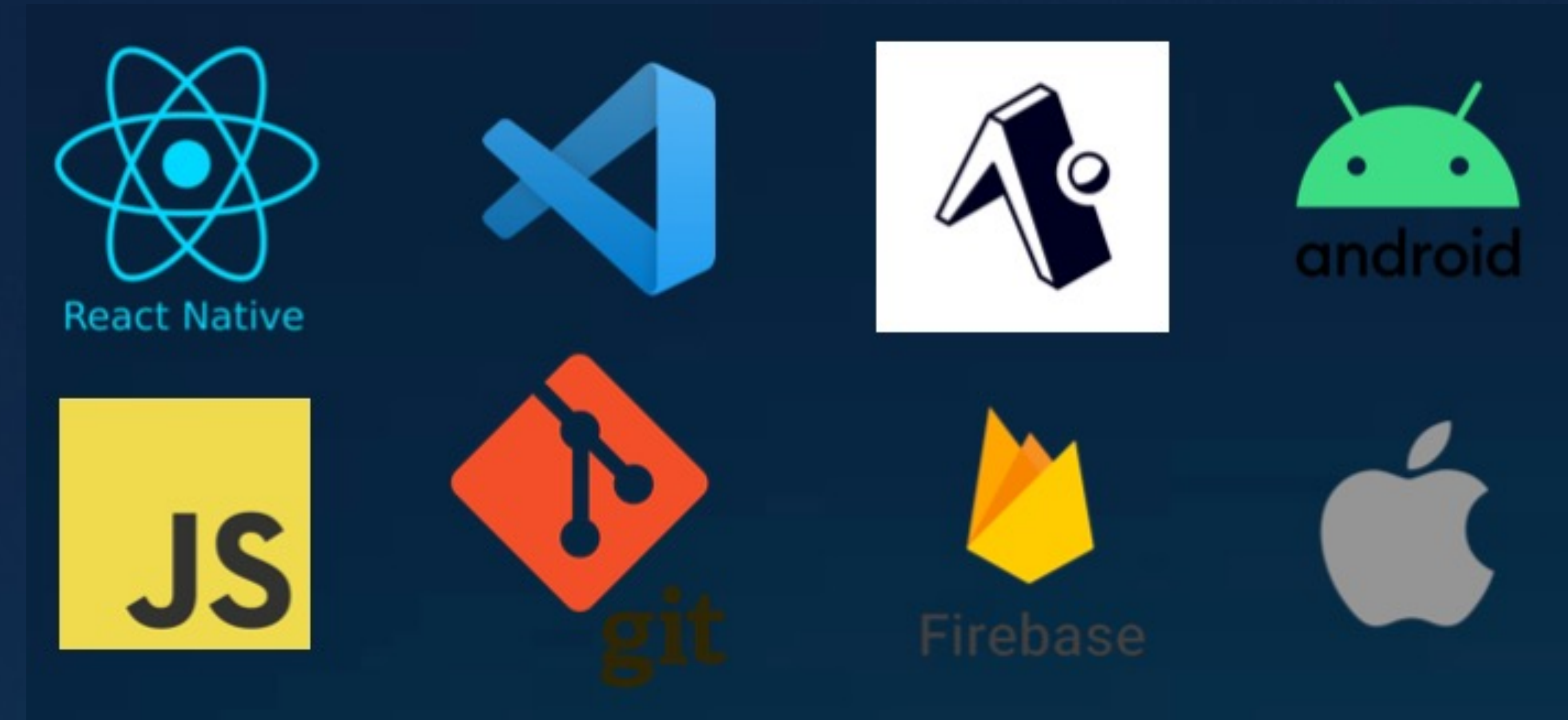
SUMMARY

As this semester was only 5 Developing sprints, the team focused mainly on bug/issue fixing-testing-finding rather than adding new functionality. The idea was to keep the app very stable on its current state so that further modifications can be made by the next Capstone students working on this project. As a personal note, I focused on making the app more Android-friendly, as NuMom it performed better on iPhone devices.

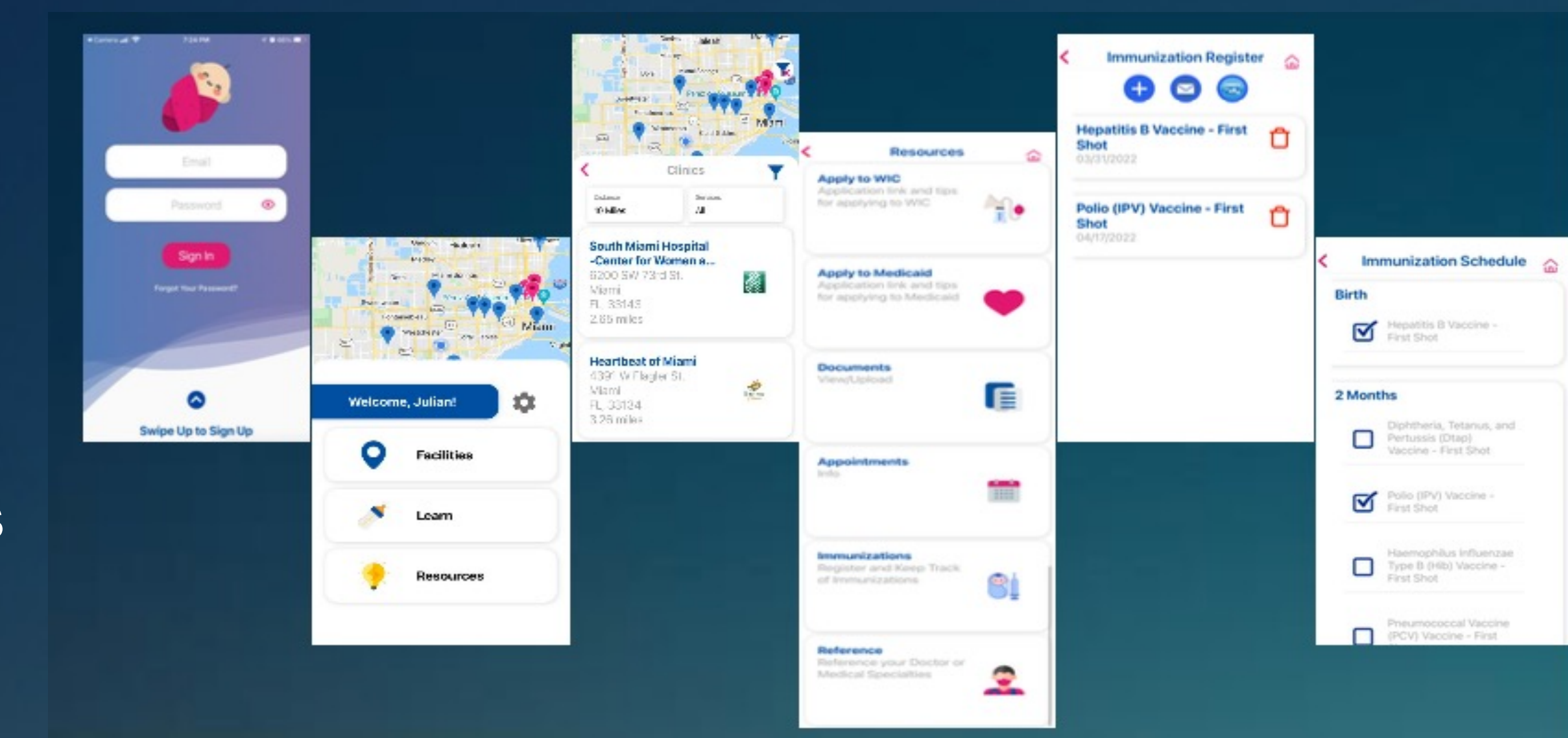
REQUIREMENTS

In our latest app update, we prioritized several key areas to enhance user experience and overall functionality. A major focus was on updating the expo version, ensuring we stay current with the latest features and improvements. Additionally, we dedicated efforts to make the Android version more user-friendly, streamlining navigation and optimizing performance. Our development team also worked diligently to address and fix various UI bugs, resulting in a smoother and more polished interface. With these significant enhancements, we are committed to providing our users with a seamless and enjoyable app experience.

IMPLEMENTATION



SCREENSHOTS



Engineering
& Computing

ACKNOWLEDGEMENT

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

FLORIDA INTERNATIONAL UNIVERSITY