



Knight Foundation
School of Computing
and Information Sciences

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Fall 2023 Capstone II Project



NuMom (Keeping Moms & Infants Healthy)

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Mentor: Jean Hannan, Product Owner & Eduardo Morales, Lead Developer

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

PROBLEM

Many low-income mothers face challenges in accessing the essential resources and information required for infant care. As a result, they often have no choice but to rely solely on their existing knowledge during their pregnancies. While this approach can work to some extent, our project strives to make the process of obtaining resources and information easier for new mothers. This app is designed with the primary objective of catering to the needs of mothers, offering crucial information about prenatal and postnatal care. Its aim is to close the gap and ensure that mothers can adequately care for both themselves and their children.

CURRENT SYSTEM

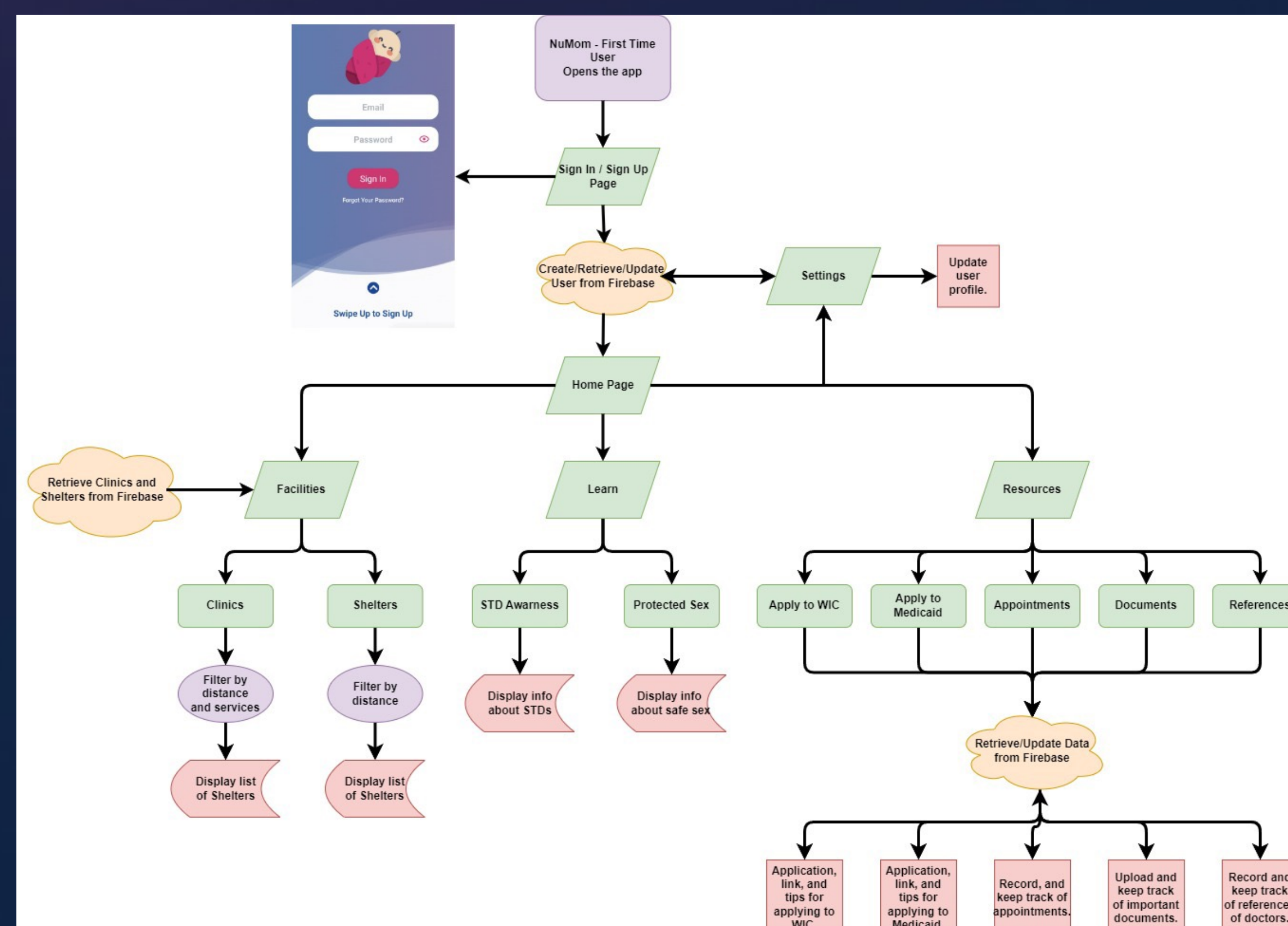
The current version for NuMom's features are:

- Support in three languages: English, Spanish, and Creole
- Locate Shelters and Clinics near the area of the user
- Important information on resources regarding parenthood, Medicaid, WIC, STDs, pregnancies, and safe sex
- Users can organize their health by uploading/managing their documents
- Set appointment reminders
- A map that shows the user's current location

REQUIREMENTS

- This semester, our team focused on enhancing the current application by fixing bugs and improving existing features to ensure a better user experience. These are the contributions I have made:
- Update the Firebase database to accurately organize Clinic and Shelter information
 - Fix formatting issues to create a better UI
 - Improve the password creating in the sign-up feature to ensure a valid password
 - Add/change icons throughout the app so that the UI is consistent

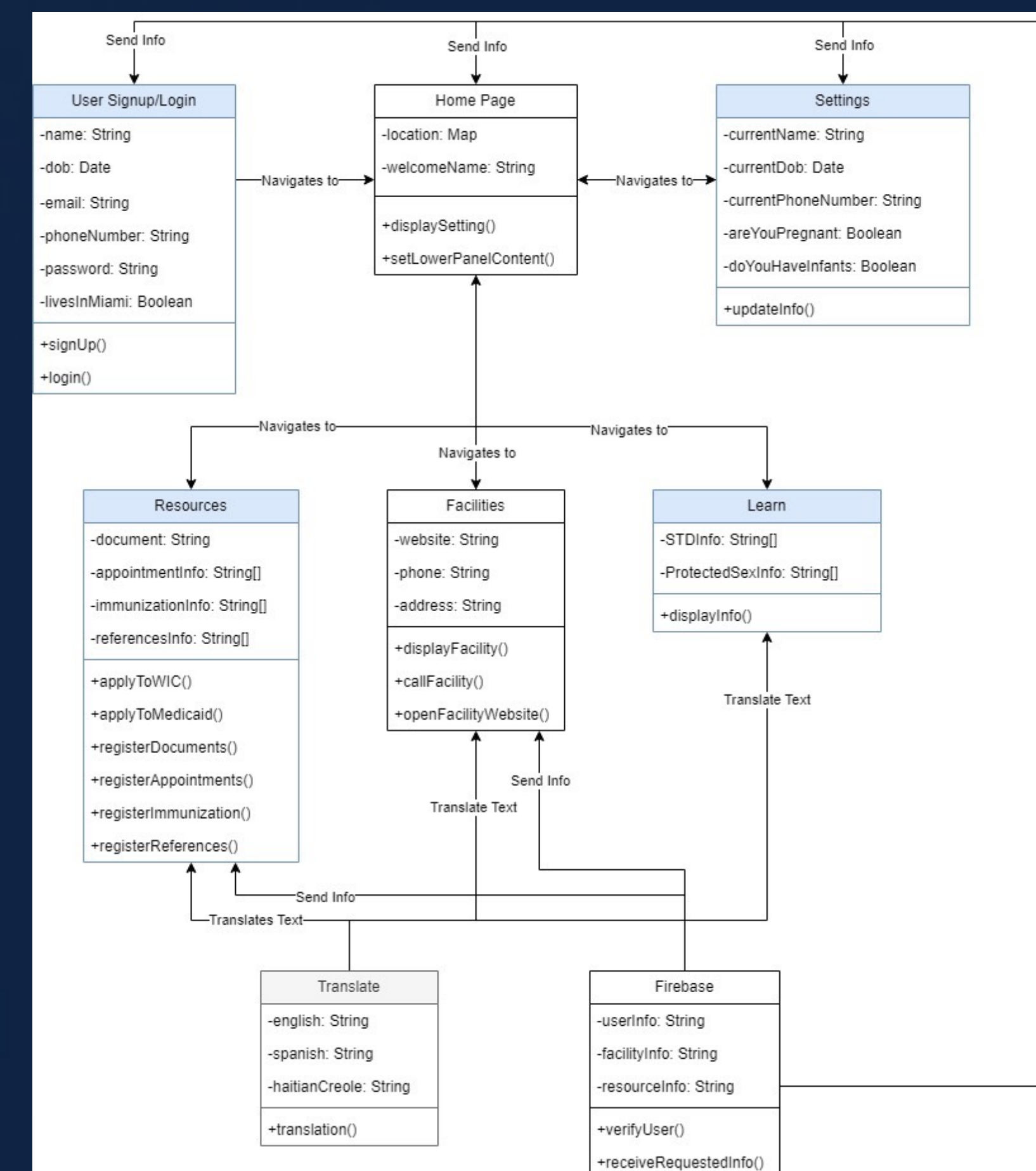
SYSTEM DESIGN



VERIFICATION

As a team, we verified our issues/stories using Visual Studio Code running locally using Expo. Our knowledge of git allowed us to easily create pull requests and test the changes made by other members. Our changes were made on new branches pulled from the development branch to ensure we do not break anything. Before we could merge pull requests, we needed two reviewers to ensure correct functionality.

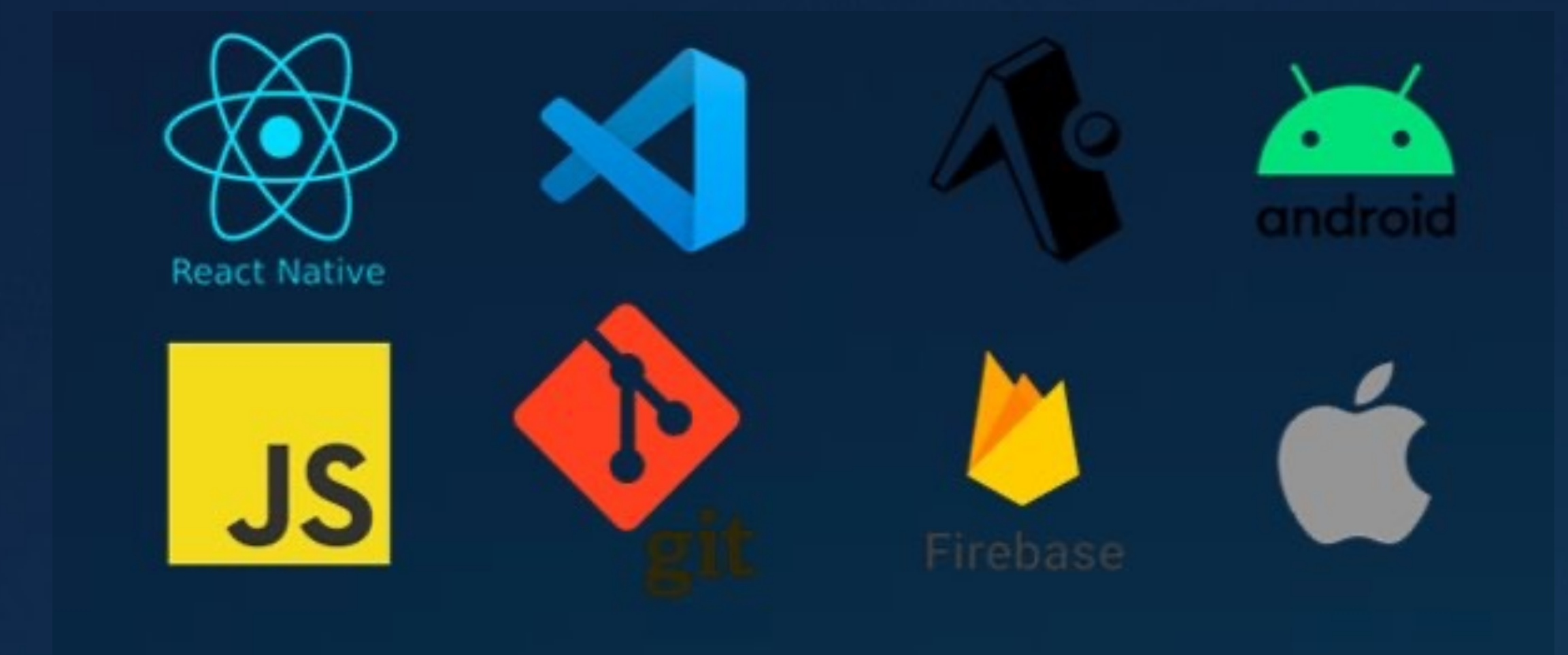
OBJECT DESIGN



SUMMARY

In essence, NuMom's overarching objective is to offer readily available resources to assist low-income mothers in effectively caring for their infants both before and after childbirth. Our aim is to empower these mothers to provide the best possible care for their infants by utilizing our features, which allow them to conveniently record appointments, immunizations, documents, and medical references for easy access and organization.

IMPLEMENTATION



REFERENCES



Engineering
& Computing

ACKNOWLEDGEMENT

The material presented in this poster is based upon the work supported by Jean Hannan and Eduardo Morales. We thank Eduardo Morales, Jean Hannan, and Dr. Sadjadi for his/her assistance and mentorship that we received throughout the Capstone II project.

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