

Pediatric Emergency Medicine Application

Students: Dianet Cruz

Mentor: Jean Hannan and Bruce Quinn

Instructor: Dr. Masoud Sadjadi, Florida International University

Problem

For healthcare workers in Emergency and Urgent care medicine, the need for quick communication and clear medical information is vital to saving patients lives. Among these healthcare workers are physician assistants, residents in pediatric, nurse practitioners, emergency medicine and family medicine residency students, and physicians who are providing intensive care to ill and hurt children daily.

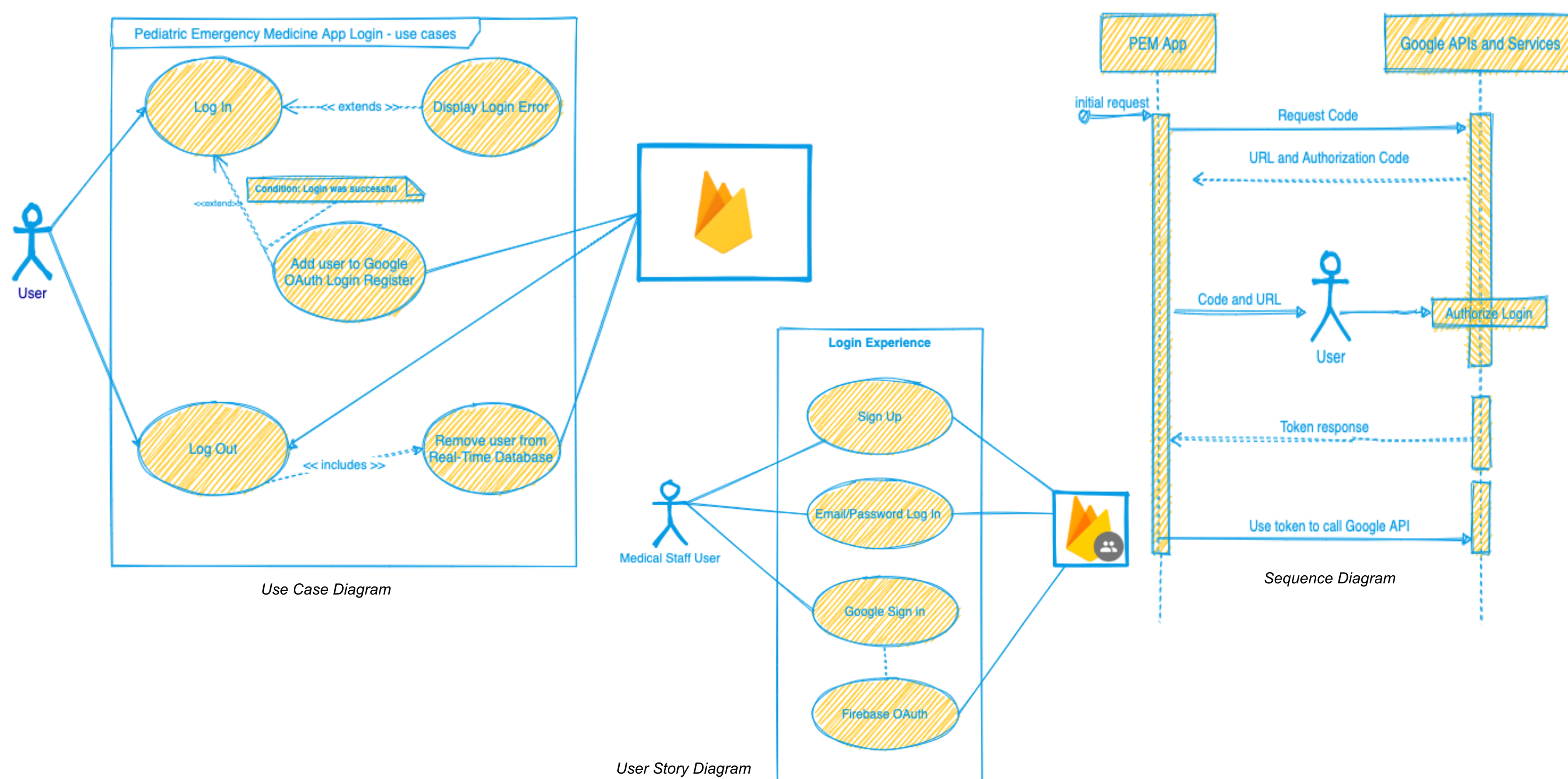
Current System

This is the second version of the Pediatric Emergency Medicine App. It was briefly developed last semester. The current system allows you to create an account, log in view information, save certifications information and use global chat room to send messages between users. This summer project consisted of continuing the development of the application by adding content, refining the home page and testing functionality.

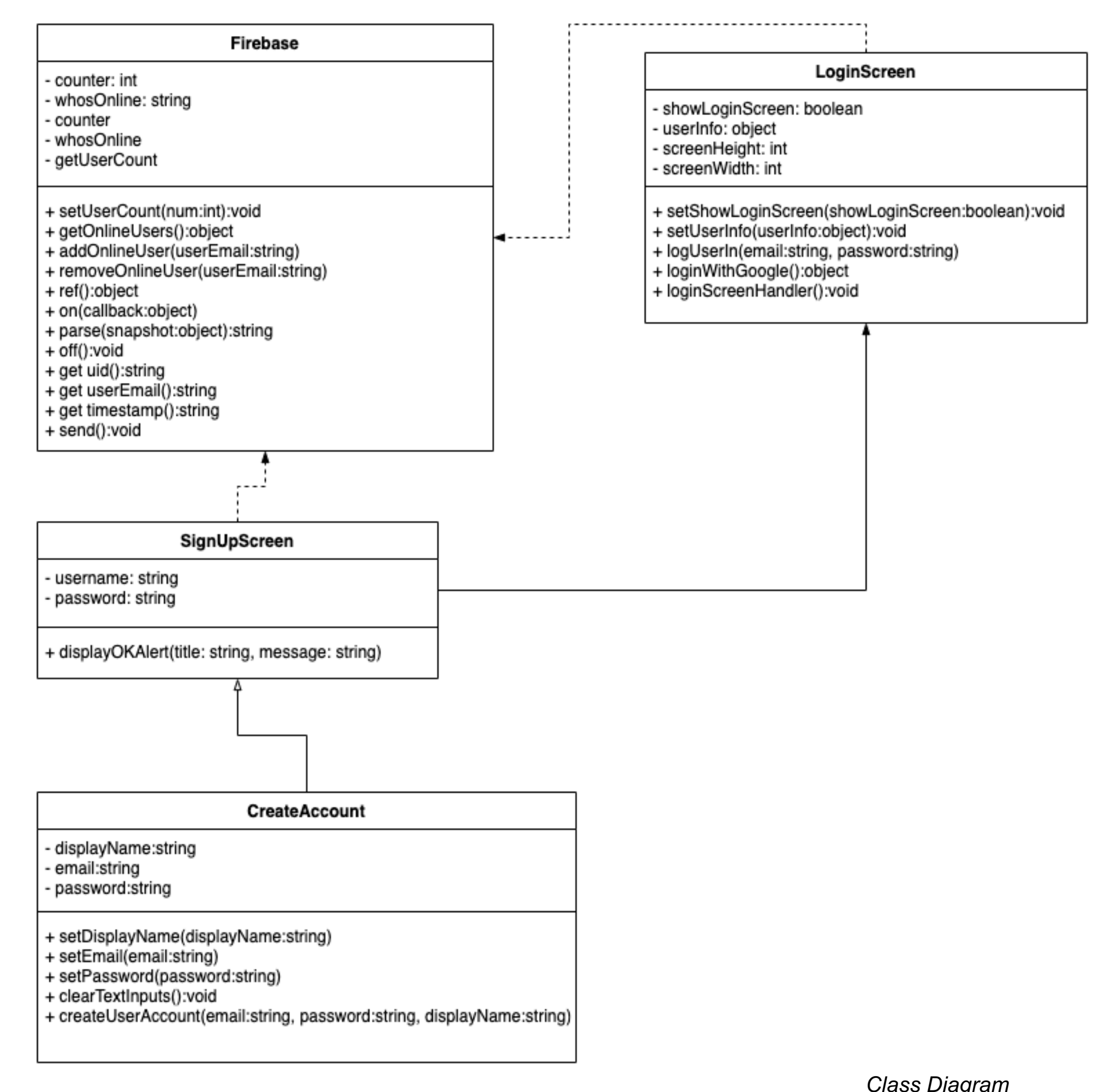
Requirements

- Provide Splash Screen once user opens applications, changed the flow for the log in to be first, added a landing page.
- Redesign UI/UX experience on application.
- Added notification for admin mode.
- Added the ability for users to log in with google or sign up when routing to the Login page.
- Once the user successfully log in, they are welcomed with there account name and a profile is created.

System Design



Object Design



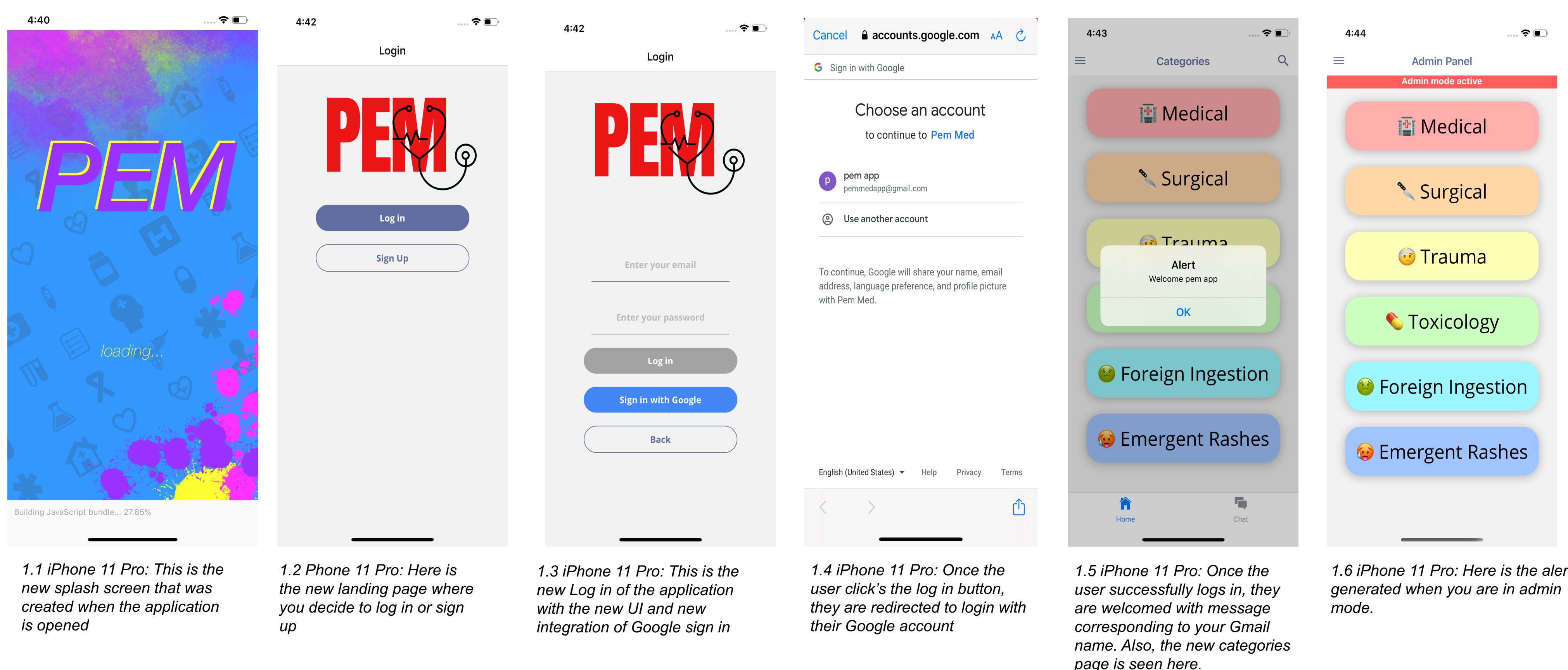
Implementation



Verification

- The features were tested on emulators for iOS and androids. They were also tested on physical devices as well.
- The authentication features with Gmail were also tested thoroughly to make sure there were no security problems and were working correctly.
- The UI/UX experience were also tested on both devices to make sure they were there were not differences between both systems.

Screenshots



Summary

With the development made throughout this semester, the Pediatric Emergency Medicine Application has successfully fulfilled the shortcomings from last semester and continued development. This application will allow healthcare workers from the emergency pediatric department to effectively utilize it by logging in quickly, reliably and securely, having access to vital information, communicating with colleagues and saving important certifications throughout their day. With these upgrades, swiftly and securely, medical personnel will have a wealth of much-needed critical information at the tip of their fingers.

Acknowledgement

The material presented in this poster is based upon the work supported by Jean Hannan and Bruce Quin. I would personally like to thank you both and my teammates for your support, contribution and mentorship that I gained throughout this experience.