

Smart Prompter Merge Plan (Proposal)

By Likhon Gomes (Leo)

In order to merge both of the apps into one app, we have to do

- **Decide a possible way to switch between patient app and caretaker app. It should be in such a way that the patient app never gets to access the care taker's side of the app.** This can be done in the app by introducing the user to a screen with two buttons where the users has to tap one of two buttons (Caretaker or Patient) to access the desired side of the app. When necessary, the user can logout of the side of the app and log in to the other side. I am expecting, the caretaker will log into the patient side of the app on behalf of the patient, therefore the patient will never get to see any of these underlying.
- **Remove redundancy from current data structure.** Right now the data structure is made with cloud in mind. We will still be using Cloud as a way to store data remotely and possibly access them remotely if needed, but the primary functions is done within the app. Therefore, we need to clean the current data structure to remove all of those redundant variables in order to keep it clean and consistent.
- **Integrate a local data base to store data locally.** Right now the whole data storage and data transfer in iOS app is done using Firebase. Prior to learning about sandboxin in iOS, I had setup infrastructure for GRDB (Sqlite database for iOS). Now, because of this I am planning to roll back firebase code and use on device database. This way the app will be faster and more efficient where users can remove, edit and update data without latency. On android side it can be done using a database or just store data in a text document.
- **Making the app totally offline due to HIPPA concerns (Parking Lot Feature).** Now that we are merging two apps into one, that reduces the stress for Firebase, infact firebase can be an optional option. We can have a switch built inside the app that enables/disables firebase uploads. Therefore if we are dealing a patient with confidentiality concerns, we can simply disable firebase uploads to keep all of the data locally in firebase.

The above plan should be simple enough to retain current View Controller (iOS) and Activities (Android) and be reusable on the newly merged app.