Breastfeeding Support System

Special Instructions

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Project

CDC Breastfeeding Support Initiative

Team We Didn't Start the FHIR

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GitHub Link

https://github.gatech.edu/gt-hit-fall2017/CDC-BREASTFEEDING-SUPPORT-INITIATIVE.git

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1. Introduction

The CDC Breastfeeding support initiative has both a consumer and practitioner focus with the goal to improve the success of new mothers breastfeeding efforts.

1.1 Purpose

The purpose of this document is to provide instructions on how to setup and run a working breastfeeding support system environment.

1.2 Document Breakdown

The system has three parts: a FHIR server, a care provider web portal, and an iOS application. The FHIR server will need to be up first before running the web portal and the iOS application. The section 2 will give instructions on how to startup the FHIR server, Section 3 will give instructions on how to startup the Care Provider Web Portal, and Section 4 will give instructions on how to startup the iOS application. To run both the iOS app and the other parts of the application, a Mac test platform running the Yosemite release of OSX is required. A complete walkthrough of the start-up procedure is available here: *https://youtu.be/tIViSa6zZxg*

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2. FHIR Server Startup Instructions

Prerequisites:

- Docker is installed on the test platform.
- Internet access is available to get the source HAPI Fhir docker image.
- The git repo has been cloned locally.

Start The Container

- In the `Final Delivery` directory type the command `docker-compose up`
- Wait 2 minutes (during this time the Fhir server, the Care Provider Portal, and jetty launch.)

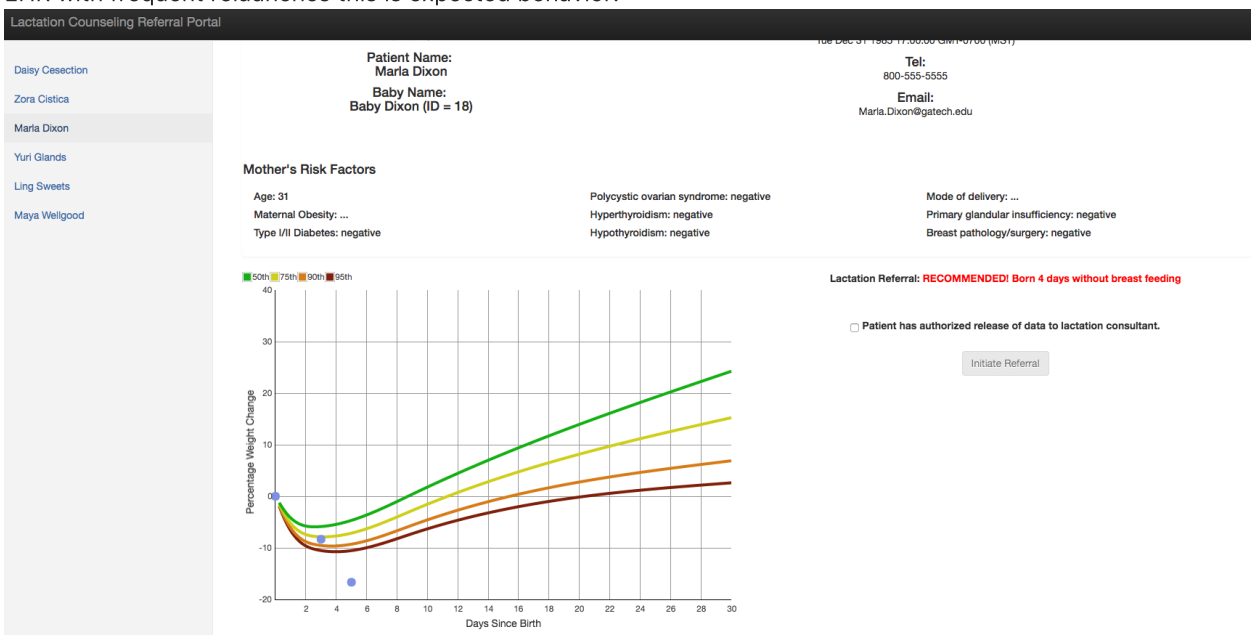
- The source data for 5 patients will then populate into the FHIR server using POST commands, this will happen automatically and will results in many messages being printed on the console of the container.
- Navigate to http://127.0.0.1:8080/ and the FHIR server and test data will be visible for raw inspection.

3. Care Provider Web Portal Startup Instructions

Prerequisite: FHIR Server started and running.

Navigate to the portal

- Navigate to http://127.0.0.1:8080/portal Care Provider Portal. This pulls data from the FHIR server.
- In many cases when interacting other tools that are added data to the FHIR server you will need to refresh to http://127.0.0.1:8080/portal to pickup the changes. As this is expected to be used in a clinical session from an EHR with frequent relaunches this is expected behavior.

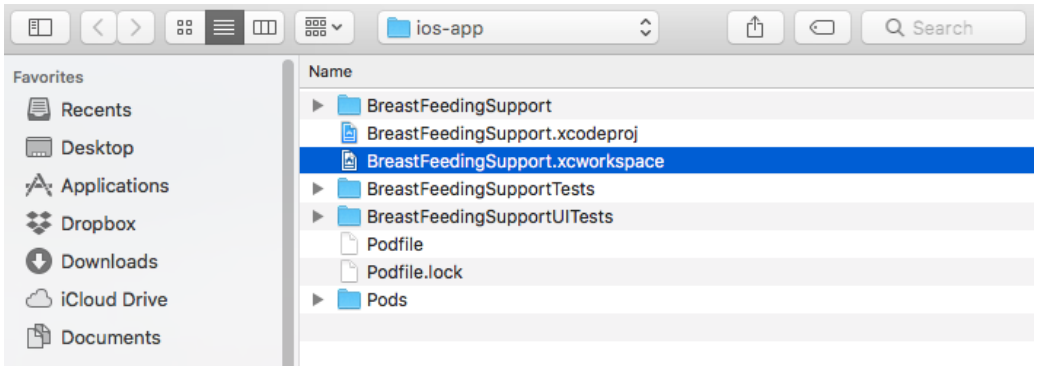


4. iOS Application Startup Instructions

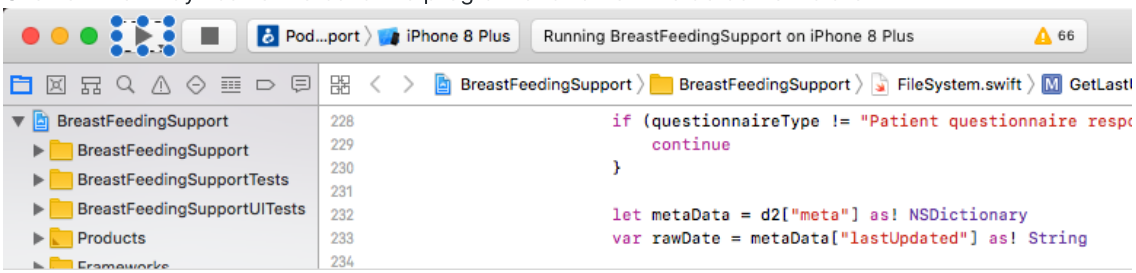
Prerequisite: FHIR Server started and running. Test platform is a Mac running OSX Yosemite

Launch the iOS app in a simulator

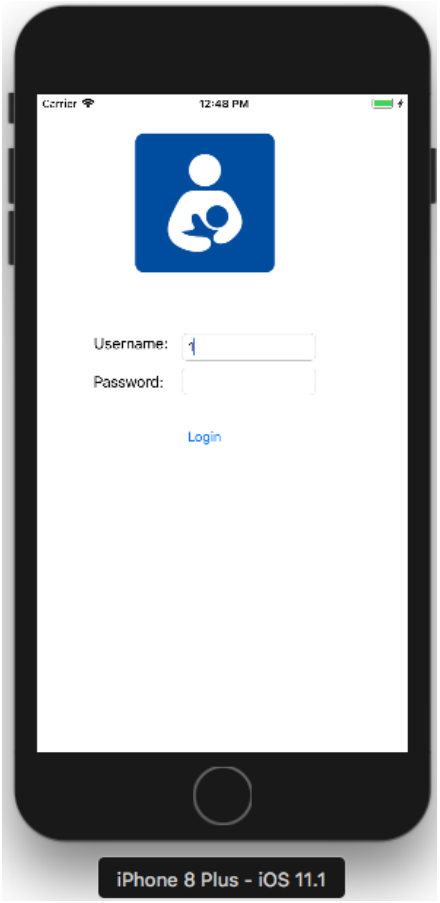
- Open Xcode (launchpad -> Xcode)
- Open the iOS app project workspace (File->Open, Navigate the the git root->ios-app-> BreastFeedingSupport.xcworkspace)



- Click on the "Play" button to build the program and run on the default simulator.



- Login to the app from the simulator using the Patient ID of one of the patients (available in the Care Provider Portal by clicking on a patent and see the final number in the resulting URL)



- The app is fully functional and will submit data to the EHR if the business logic rules are met (concerns a sent immediately, breastfeeding metrics are only sent once per day)

5. Using the Applications

For detailed information on how to use the applications. Please see the following manuals in the Final Delivery folder:

- *Care Provider Web Portal*: Manual – We Didn't Start The FHIR - Web Portal(.md/.pdf)
- *iOS Application*: Manual:We Didn't Start The FHIR - iOS(.md/.pdf)
- *Testcases*: These can be used without the iOS app, description and status: Tests