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68 lines (46 sloc) 3.97 KB

# Breastfeeding Support System

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## Special Instructions

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Version 1.1 - Dec 7, 2017

### Project

CDC Breastfeeding Support Initiative

### Team We Didn't Start the FHIR

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### GitHub Link

## 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/GDZWLaI2Zfw>

## 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 result 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 with other tools that add data to the FHIR server you will need to refresh to <http://127.0.0.1:8080/portal> to pick up the changes. As this is expected to be used in a clinical session from an

EHR with frequent relaunches this is expected behavior.

Lactation Counseling Referral Portal

Daisy Cesection

Zora Cistica

Marla Dixon

Yuri Glands

Ling Sweets

Maya Wellgood

Patient Name:  
Marla Dixon

Baby Name:  
Baby Dixon (ID = 18)

Tel:  
800-555-5555

Email:  
Marla.Dixon@gatech.edu

Mother's Risk Factors

Age: 31

Maternal Obesity: ...

Type I/II Diabetes: negative

Polycystic ovarian syndrome: negative

Hyperthyroidism: negative

Hypothyroidism: negative

Mode of delivery: ...

Primary glandular insufficiency: negative

Breast pathology/surgery: negative

Lactation Referral: **RECOMMENDED! Born 4 days without breast feeding**

☐ Patient has authorized release of data to lactation consultant.

Initiate Referral

50th75th90th95th

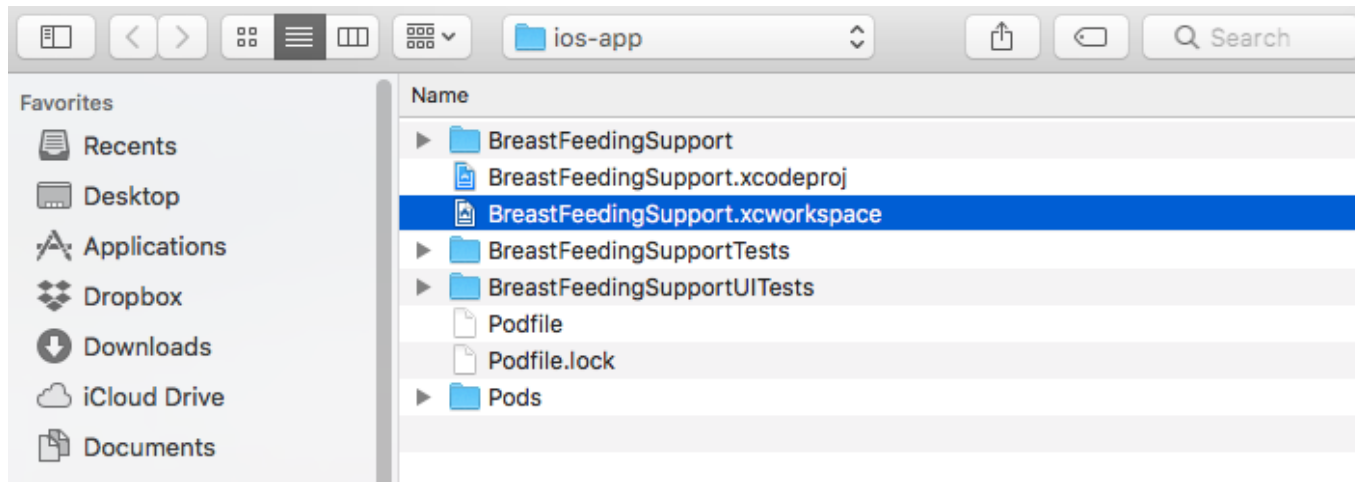
Days Since Birth	50th	75th	90th	95th
0	0	0	0	0
2	-5	-10	-12	-15
4	-10	-15	-18	-20
6	-15	-10	-12	-15
8	-10	-5	-8	-10
10	-5	0	-3	-5
12	0	5	-1	-3
14	5	10	2	-1
16	10	15	5	0
18	15	20	8	2
20	20	25	10	3
22	25	30	12	4
24	30	35	14	5
26	35	40	16	5
28	40	45	18	5
30	45	50	20	5

## 4. iOS Application Startup Instructions

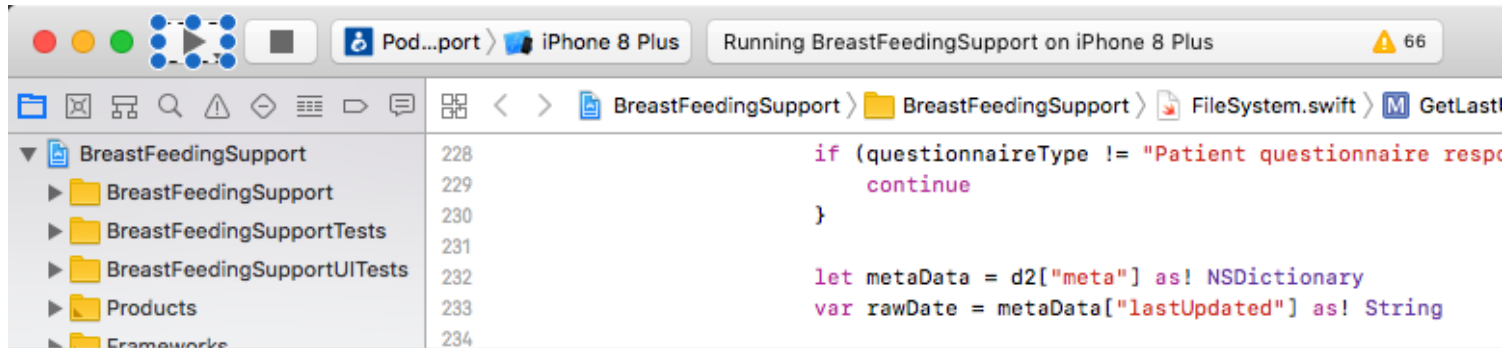
**Prerequisite:** FHIR Server started and running. Test platform is a Mac running OSX Yosemite

**Launch the iOS app in a simulator**

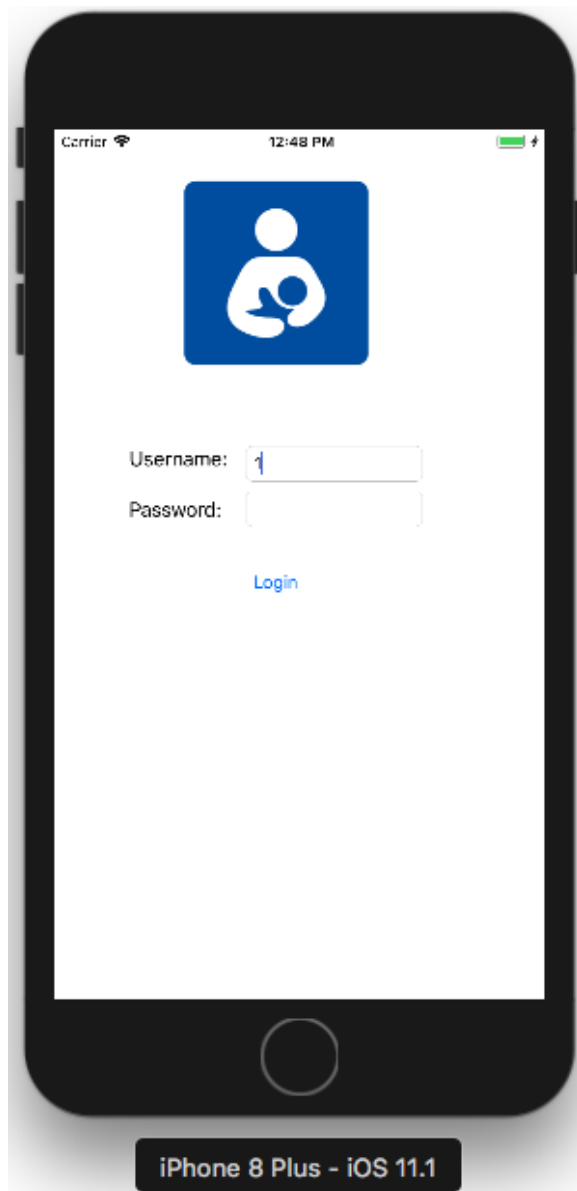
- Open Xcode (launchpad -> Xcode)
- Open the iOS app project workspace (File->Open, Navigate the the git root->ios-app->BreastFeedingSupport.xcworkspace)



- 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](#)