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# Breastfeeding Support System

## Special Instructions

Version 1.1 - Dec 7, 2017

**Project**

CDC Breastfeeding Support Initiative

**Team We Didn't Start the FHIR**

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**GitHub Link**

[https://github.com/CDCgov/GaTech-Fall2017-Wilmore-Breastfeeding-WeDidntStartTheFHIR](https://github.com/CDCgov/GaTech-Fall2017-Wilmore-Breastfeeding-WeDidntStartTheFHIR)

# 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](https://youtu.be/tIViSa6zZxg)*

# 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.
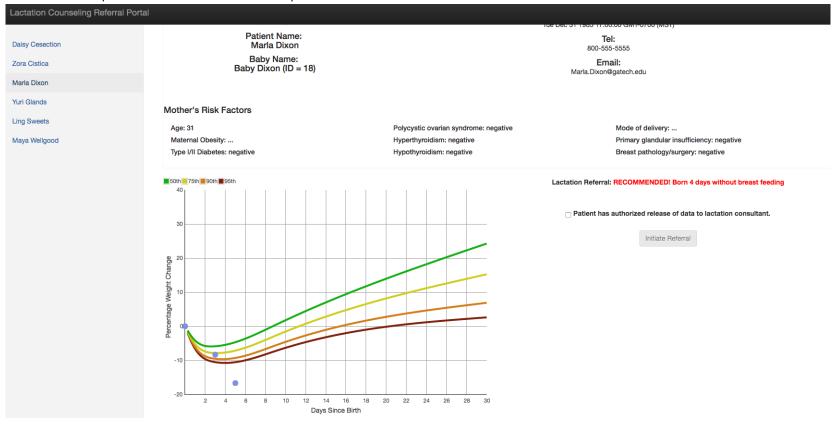
## 3. Care Provider Web Portal Startup Instructions

**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
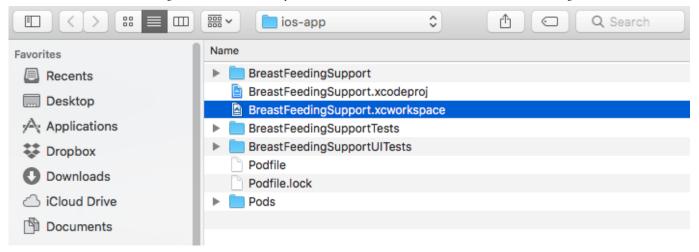
EHR with frequent relaunches this is expected behavior.



## 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