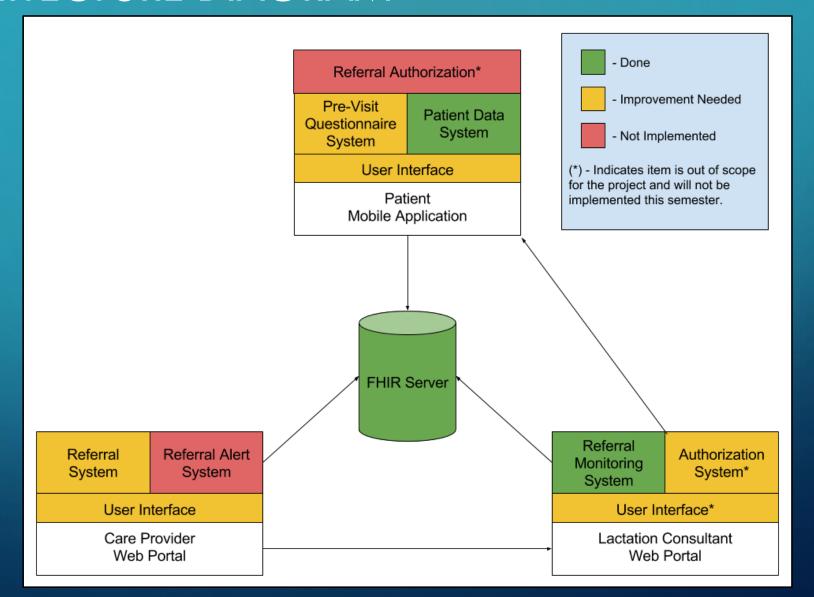# CDC BREASTFEEDING SUPPORT INITIATIVE TECHNICAL PRESENTATION

WE DIDN'T START THE FHIR

PRESENTED BY: JUSTIN KRISTENSEN & JOHN VAN WAGENEN

ARCHITECTURE DIAGRAM

ARCHITECTURE DIAGRAM (APPLICATIONS)

The system is composed of three main applications:

- *Patient Mobile Application*:
  - Sends patient's Breastfeeding data
  - Sends patient's answers to questionnaire

- *Care Provider Web Portal*:
  - Access patient's Breastfeeding data
  - Send referral data to Lactation Consultants

- *Lactation Consultant Web Portal*:
  - Can accept or reject patient referrals
  - Send referral information to the patient
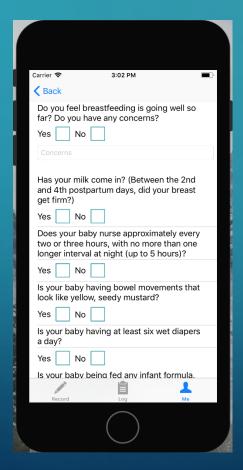
ARCHITECTURE DIAGRAM (COMPONENTS)
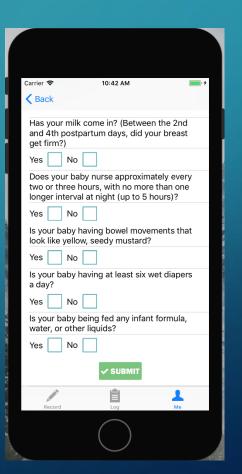
Each application is composed of several components:

- Patient Mobile Application
  - *Referral Authorization**
  - *Pre-visit Questionnaire System*
  - *Patient Data system**
  - *User Interface*

- Care Provider Web Portal
  - *Referral System*
  - *Referral Alert System*
  - *User Interface*

- Lactation Consultant Web Portal
  - *Referral Monitoring System**
  - *Authorization System**
  - *User Interface**

(*) - Indicates that the component has been implemented or will not be implemented this semester's project.

SCREEN PROTOTYPES
(PATIENT MOBILE APPLICATION QUESTIONNAIRE)

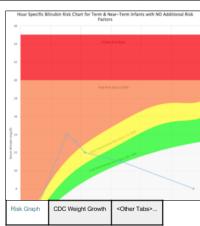# SCREEN PROTOTYPES
(CARE PROVIDER WEB PORTAL)
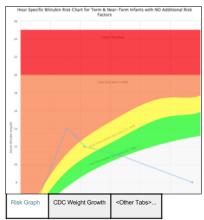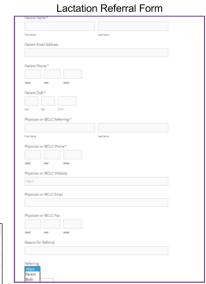
TOOLS/LANGUAGES

Based on the current provided by the previous group, we'll use:

- For the Web Portals:
  - JQuery (Frontend)
  - Bootstrap (Frontend)
  - RESTful API
  - SMART on FHIR

- For the Patient Application:
  - IOS (Swift)
  - Xcode

GANTT CHART UPDATE

WBS NUMBER	TASK TITLE	TASK OWNER	START DATE	DUE DATE	DURATION	PCT OF TASK COMPLETE
1	**Team Topic**					
1.1	Research	All Members	10/5/17	10/8/17	3	100%
1.2	Business Case	All Members	10/5/17	10/8/17	3	100%
1.3	Gantt Chart	Jamon, Justin	10/5/17	10/8/17	3	100%
1.4	**Deliverable 1 -** Topic Presentation Powerpoint	Phillip, John	10/5/17	10/8/17	3	100%
2	**Requirements & Design**					
2.1	Gather Project Requirements	Jamon, All Members	10/8/17	10/22/17	14	100%
2.2	Use Case Model / Stories	All Members - for the assigned implementation	10/14/17	10/18/17	4	100%
2.3	Project Status Report 1	All Members	10/13/17	10/15/17	2	100%
2.4	Design Document Architectural Diagram	All Members	10/15/17	10/22/17	7	100%
2.5	Dashboard Wire Frame	All Members	10/15/17	10/22/17	7	100%
2.6	**Deliverable 2 -** Technical Presentation Powerpoint	John, Justin	10/15/17	10/22/17	7	100%
2.7	Test Plan	Phillip	10/15/17	10/22/17	7	90%
3	**Implementation**					
3.1	Backend - Referral descision support logic.	Jamon	10/22/17	11/5/2017	13	0%
3.2	Updates to the patient app to collect more detailed data	Justin	10/22/17	11/5/2017	13	0%
3.3	Physician portal - Dashboard, population metrics, lactation consulton metrics	Zeyu	10/22/17	11/5/2017	13	0%
3.4	Project Status Report 2	All Members	10/27/17	10/29/17	2	0%
3.5	Project Status Report 3	All Members	11/3/17	11/5/17	2	0%
3.6	**Deliverable 3 -** Team Progress Report Powerpoint		11/5/17	11/12/17	7	0%
3.7	Prototype - Integration		11/5/17	11/12/17	7	0%
3.8	Software Testing	Phillip	11/12/17	11/29/17	17	0%
3.9	Beta release		11/12/17	11/19/17	7	0%
3.10	Project Status Report 4	All Members	11/17/17	11/19/17	2	0%
3.11	User and Maintenance Manuals		11/19/17	11/26/17	7	0%
3.12	Project Status Report 5	All Members	11/24/17	11/26/17	2	0%
4	**Transition & Handoff**					
4.1	**Deliverable 4 -** Team Final Project Presenation Powerpoint		11/26/2017	12/3/2017	7	0%
4.2	Deliver Final Product		11/30/2017	12/3/2017	3	0%
4.3	Team Evaluation	All Members	12/3/2017	12/10/2017	7	0%

Timeline columns: October (Week 1, Week 2, Week 3, Week 4), November (Week 5, Week 6, Week 7, Week 8, Week 9), December (Week 10)