# **Breastfeeding Support**

CS 6440 Team PANDA

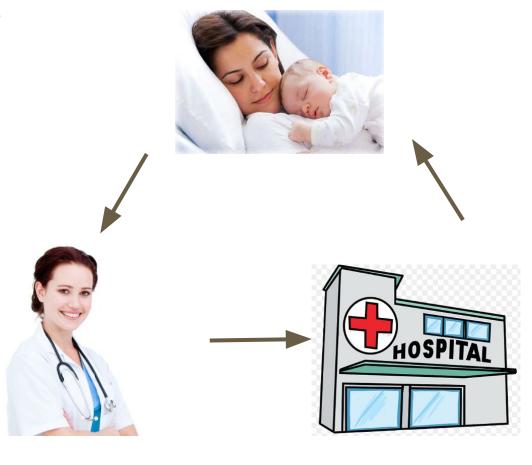


#### **Outline**

- Project Overview
- Application Framework and Languages
- Application Demo
- Future Work

# **Project Overview**

An information system application that supports breastfeeding and data exchange among mothers, doctors and Community Lactation Resources Systems.



### **Application Framework and Languages**



Frontend (Javascript jQuery)

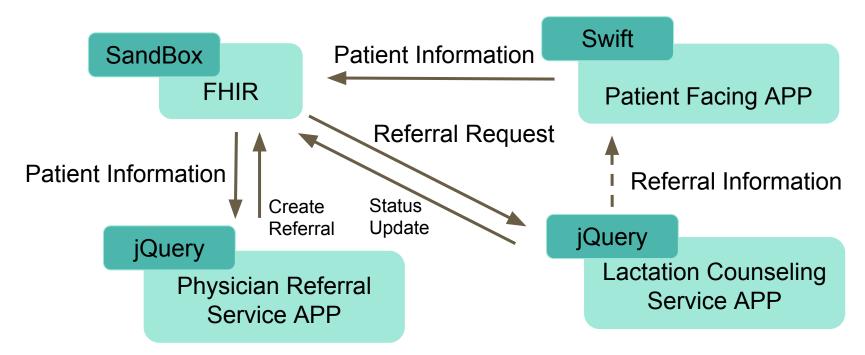






Restful API

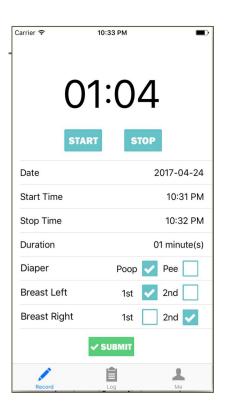
## **Application Architecture**



# **Functionality** Demonstration

#### **Patient Facing App**

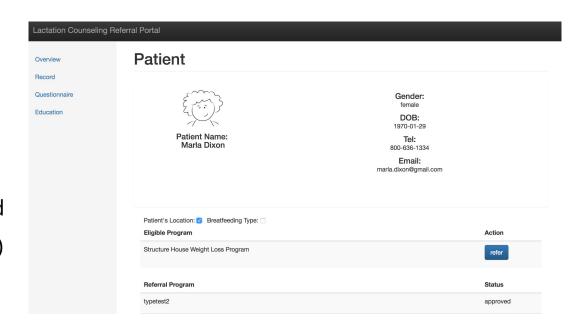
- Record Breastfeeding Data
- View/Track Data Log
- Questionnaire Connects to FHIR



Carrier 🖘	10:48 PM	)
Back		
	feel breastfeeding is going well so you have any concerns?	
Yes	No 🗌	
Concern	s	
	r milk come in? (Between the 2nd postpartum days, did your breast ?)	
Yes	No	
two or th	ur baby nurse approximately every nree hours, with no more than one nterval at night (up to 5 hours)?	
Yes	No 🗌	
	paby having bowel movements that yellow, seedy mustard?	
Yes	No	
Is your b	oaby having at least six wet diapers a	
Yes	No	
Is vour b	paby being fed any infant formula.	
A. A. S.	i	

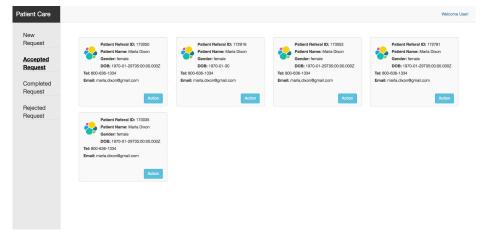
#### **Physician Portal**

- Patient Information Pull
- Review Questionnaire
- Filter Eligible Program by
  - Patient Location (City)
  - Type of Service Needed
    (Breastfeeding Related)
- Refer Patient to Program



#### **Lactation Counseling Service Portal**

- Patient Information Pull
- Receive Patient Referral
- Accept or Reject Patient Referral
- Record the Visit Log and Update the FHIR Database



# Demo Video Tube

https://www.youtube.com/watch?v=rXSEc2uobAl

#### **Future Work**

- Blue Button Integration (Authentication)
- Build Independent User Account System (outside of FHIR)
- Lactation Library Function
- Warning Function in Physician Portal for Infant Weight Watch

#### **Gantt Chart**

Start Date	End Date	Tasks	
2/13	2/20	Team Initialization	
2/20	2/25	Past Project Review	
2/20	3/6	Research on FHIR, JAVA Spring	
2/25	2/27	Platform Synchronization	
		Social-service Facing Portal:	
2/27	3/3	Feature: Integrate selected/filtered patient data as part of the referral request	FINISHED
2/27	3/13	Feature: Decline referral function	FINISHED
2/27	3/13	Feature: able to pull all active referral requests from FHIR and show on portal	FINISHED
3/6	3/14	Referral Loop: add a new tab to see all accepted referral requests and confirm if it's completed.	FINISHED
3/13	4/3	Feature: Retrieve patient information	FINISHED
2/27	4/24	UI Improvement	FINISHED
		Physician Facing Portal:	
3/14	4/24	UI Improvement	FINISHED
3/31	4/24	Feature: Enhanced filtering for program eligibility	FINISHED
4/10	4/24	Feature: Pull out paitent data(demorgraphy, logdata, questionnaire	FINISHED
		Patient Facing Portal:	
3/27	4/2	Patient Generated Breastfeeding Data Record and Collection	FINISHED
3/27	4/10	Patient Generated Data Log View	FINISHED
3/27	4/17	UI (Basic UI finished, such as stop watch)	FINISHED
3/27	4/10	Questionnaire	FINISHED
		Presentations	
2/14	2/14	Project Plan/Gant Chart	FINISHED
3/14	3/14	Project Technical Presentations	FINISHED
4/4	4/4	Project Progress Update	FINISHED
4/27	4/27	Final Project Presentations	FINISHED

# **Questions?**

