

CDC BREASTFEEDING SUPPORT INITIATIVE - FINAL PROJECT PRESENTATION

We Didn't Start the FHIR

Jamon Bowen, Justin Kristensen, John Van Wageningen, Philip Baxley, Zeyu Yang

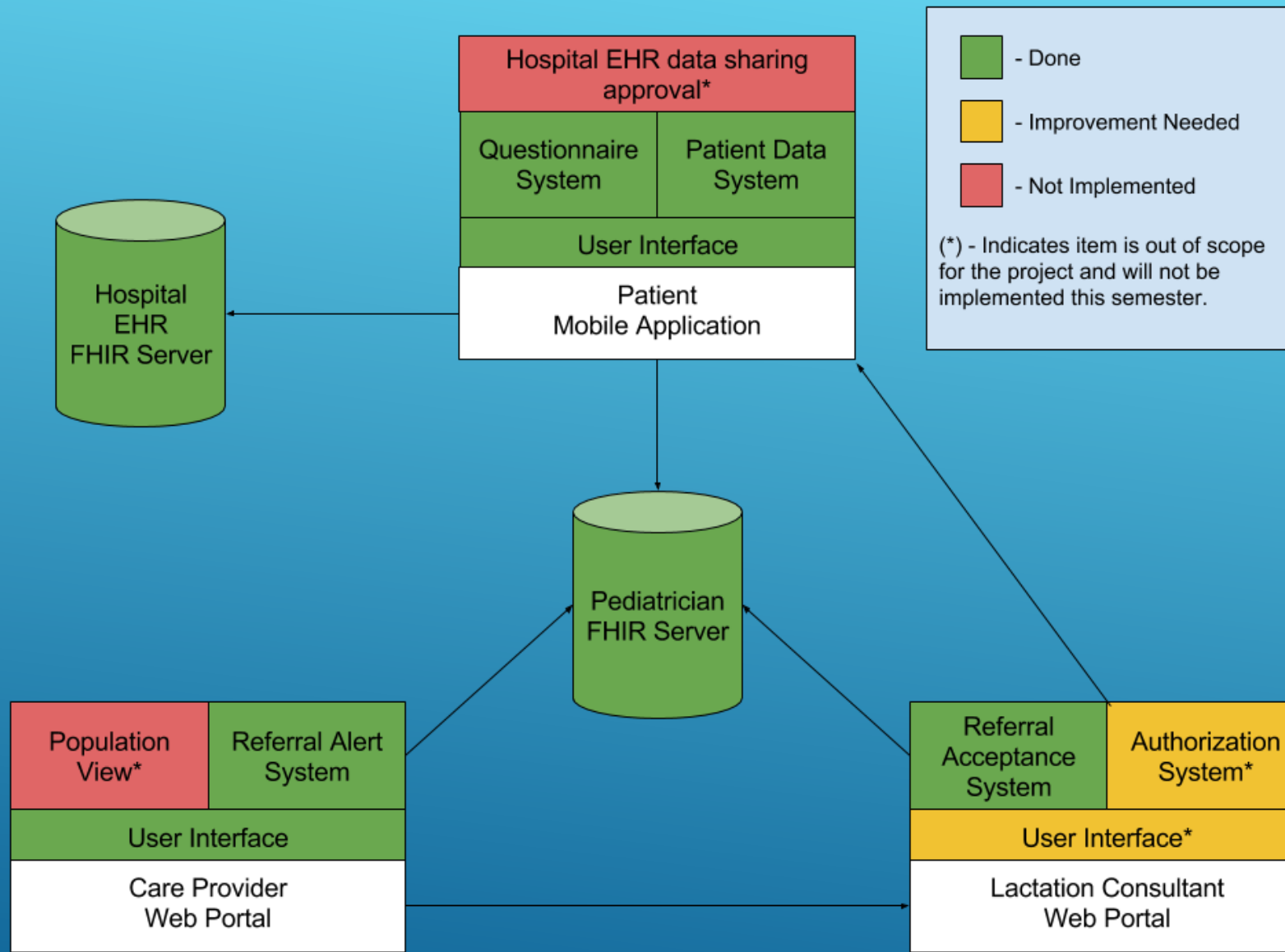
Presented By: Jamon Bowen

Narrated demo: <https://youtu.be/tlViSa6zZxg>

- ▶ Identify data of Interest for initiating a lactation consultation referral and map to FHIR resources.
- ▶ Enable easy collection of data from a patient of breastfeeding via a smartphone app.
- ▶ Collect data from hospital EHR, pediatrician EHR, and patient reported data.
- ▶ Display the collected data in a pediatrician EHR SMART app with clinical decision support to recommend and initiate a lactation consultation referral.

PROJECT OVERVIEW – CDC

OBJECTIVE: IMPROVE THE SUCCESS OF MOTHERS EFFORTS TO RAISE A HEALTHY BREASTFEED BABY.



DEMO



	PROJECT TITLE	CDC Breastfeeding Support Initiative					TEAM NAME	We Didn't Start The FHIR									
	PROJECT MANAGER	Jamon Bowen					DATE	10/1/2017 - 12/09/2017									
	TEAM MEMBERS	Phillip Baxley, Justin Kristensen, John Van Wagenen, Zeyu Yang					TA MENTOR	Arunmozhi Madhulekha (madhulekha@gatech.edu)									
	STAKEHOLDERS	Dr. Sridev Wilmore (eur3@cdc.gov) and Dr. Jennifer Nelson (JMNelson@cdc.gov)															

WBS NUMBER	TASK TITLE	TASK OWNER	START DATE	DUE DATE	DURATION	PCT OF TASK COMPLETE	October					November					December
							WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10	
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 Presented by: Phillip Baxley	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%											
		All Members - for the assigned implementation															
2.2	Use Case Model / Stories		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 Presented by: Justin Kristensen & John Van Wagenen	John, Justin	10/15/17	10/22/17	7	100%											
2.7	Test Plan	Phillip	10/15/17	10/22/17	7	100%											
3	Implementation																
3.05	Backend - Mothers risk factors, FHIR data	Philip	10/22/17	11/19/2017	27	100%											
3.1	Backend - Referral decision support logic.	Jamon	10/22/17	11/19/2017	27	100%											
3.2	Updates to the patient app to collect more detailed data	Justin	10/22/17	11/19/2017	27	100%											
3.3	Physician portal - Dashboard, population metrics, lactation consulton metrics	John	10/22/17	11/19/2017	27	100%											
3.4	Project Status Report 2	All Members	10/27/17	10/29/17	2	100%											
3.5	Project Status Report 3	All Members	11/3/17	11/5/17	2	100%											
3.6	Deliverable 3 - Team Progress Report Powerpoint Presented by: Jamon Bowen & Zeyu Yang	Jamon	11/5/17	11/12/17	7	100%											
3.7	Prototype - Integration	Zeyu	11/5/17	11/19/17	14	100%											
3.8	Software Testing	Phillip	11/12/17	11/29/17	17	100%											
3.9	Beta release		11/12/17	12/3/17	21	100%											
3.10	Project Status Report 4	All Members	11/17/17	11/19/17	2	100%											
3.11	User and Maintenance Manuals		11/19/17	11/26/17	7	100%											
3.12	Project Status Report 5	All Members	11/24/17	11/26/17	2	100%											
4	Transition & Handoff																
4.1	Deliverable 4 - Team Final Project Presenation Powerpoint Presented by: Jamon Bowen		11/26/2017	12/3/2017	7	100%											
4.2	Deliver Final Product		11/30/2017	12/3/2017	3	100%											
4.3	Team Evaluation	All Members	12/3/2017	12/10/2017	7	0%											

Team Roles:

Project Manager – Jamon Bowen

iOS App – Justin Kristensen

Pediatrician SMART App – John Van Wagenen

FHIR backend & Test– Philip Baxley

Integration – Zeyu Yang

This initiative is a mult-semester project. Left to do after Fall 2017 is improvements to the lactation consultant portal, a population view, and integration into production EHRs.