DASHTRICKS

Hadiza Ismaila Micheal Kutz Jian Zhao Xiaotao Chen

MOTIVATION

Millions die each year from preventable disease. Research shows that improvements in vaccine delivery have helped dramatically, but there are still large amounts of people that go unvaccinated despite available resources.

PROBLEM STATEMENT

Quality data is neither easily accessible nor properly utilized to assist District Immunization Managers in making proper management decisions.

туре

CURRENT METHODS

Paper based registry and ledgers In person checking of refrigerators Excel based tools

Excel based tools - District Vaccine Data Management Tool

- Stock management tools

(DTaP, DTP, DT, Td, Tdap (DTaP, DTP, DT, Td, Tdap DTaP-HepB-IPV, DTaP-

Poor visualization of data

4	A B C	D	E	F	G	H	I	J	K	L	M	N	O P	
1	Summary													
2	<u>0</u>			V	ACCINES	& SYRIN	IGES NE	EDS PER	RECIPIE	NTS & S	TOCK B/	ALANCE /	AT BEGINN	IING
3														
4	National St	tore: 0						Year:	2010					
5														
6			BCG	OPV	DTP-HepB	Hib_lyo	Measles	TT					OPV	1.
8		Total	lyophilized	liquid	liquid	lyophilized	lyophilized	liquid					liquid	ly
9		population				.,	.,							
10	National Store:		•	•	•	•	•	•	•	•	· ·	· ·		-
11	Recipient_1							•				•		\top
12	Recipient_2			-										
13	Recipient_3			-	•		•			-	-		-	
14	Recipient_4						•			=			•	
12	Recipient_5													
10	Recipient_6		•	•	•	•	•	•	•		•	•	•	
17	Recipient_7													
19	Recipient_8						•			-			•	
19	Recipient_9			-	-	•				-	-	-		
20	Recipient_10						•			=				
21	Recipient_11			-	-		•		-	-	-	-		
22	Recipient_12		•	•	•		•		•	•			-	
23	Recipient_13			-		=				-	=	-		
24	Recipient_14		•	-	•	•	•	•	•	•	•		-	
25	Recipient_15						1							
26	Recipient_16			•		•	•	•	•	-	•		-	
21	Recipient_17				-		•	•		-			-	
28	Recipient_18		•	•	•	•	•	•	•	•	•		•	
29	Recipient_19		•	-	-	•	•	•	-	-	-	-	-	
30	Recipient_20		•	•	•	•	•	•	•	•	•	•	-	
31	Recipient_21													
32	Recipient_22		•	•	•	-	•	•	-	-	-	-	•	
33	Recipient_23			=	=					=				
34	Recipient_24		•	-	•	•	•			-	•		•	
35	Recipient_25			-	-	-	•		-	-	-	-		
36	Recipient_26													

Time constraints

He does not have time to spend on the surveillance and monitoring and evaluation tasks that he knows are

important. - Abdu from the PATH Personas document

Ration Chart

Limited Resources on Transportation

Worse, district managers find themselves bringing vaccine supplies to health facilities that don't need them.



EFFECTS

District managers feel like they are in a "silo" and have no systematic access to the health problems in their area. Thus a missed opportunity for motivation and evidence-based leadership

DESIGN CHALLENGE

visualize data to help district manager realize problems and make decisions intuitively and correctly.

DESIGN SOLUTION

DashTricks is an Android tablet app for monitoring key Immunization indicators in health facilities in a particular district

DESIGN SOLUTION

Key Indicators

Immunization Coverage

Vaccine Stock Levels

Cold Chain Performance

Target Audience

District Immunization Managers

RELATED WORK

The Better Immunization through Data (BID) Initiative seeks to broadly address the issues that exist in data collection and usage for immunization through both technical and nontechnical solutions.

RESEARCH

Expert Interview

Fahad - DHIS2 Server Manager

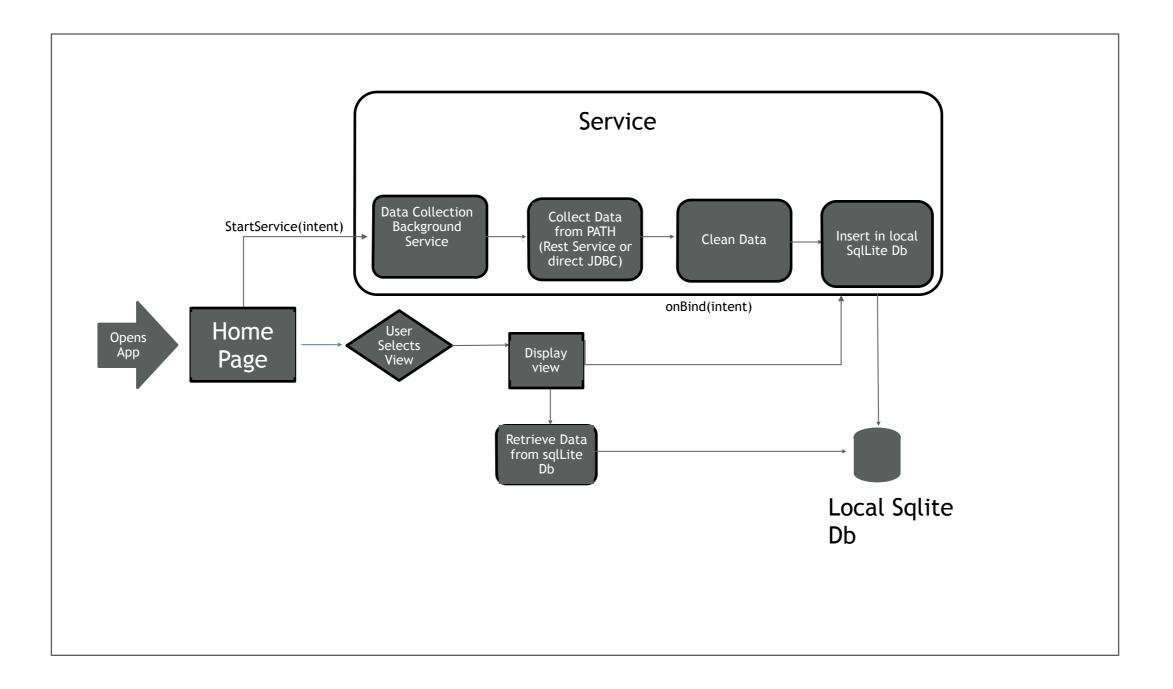
Brian - PATH

Henry Mwanyika - PATH

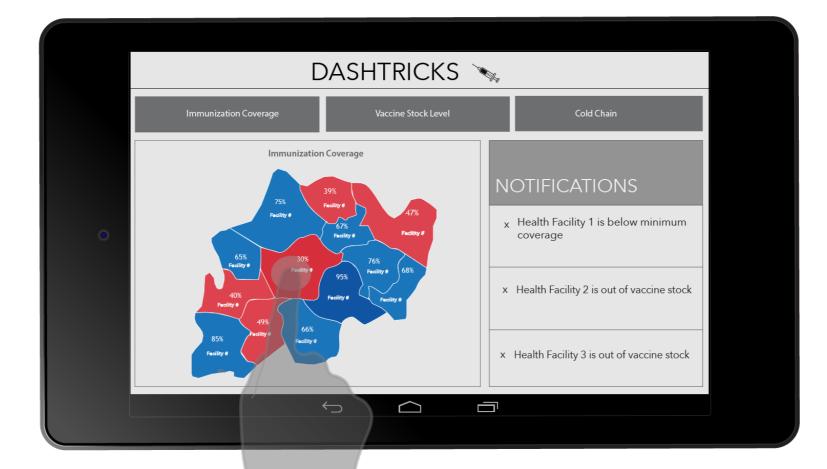
Analysis

BID Initiative User Personas document Stock Management Tool District Vaccine Data Management Tool

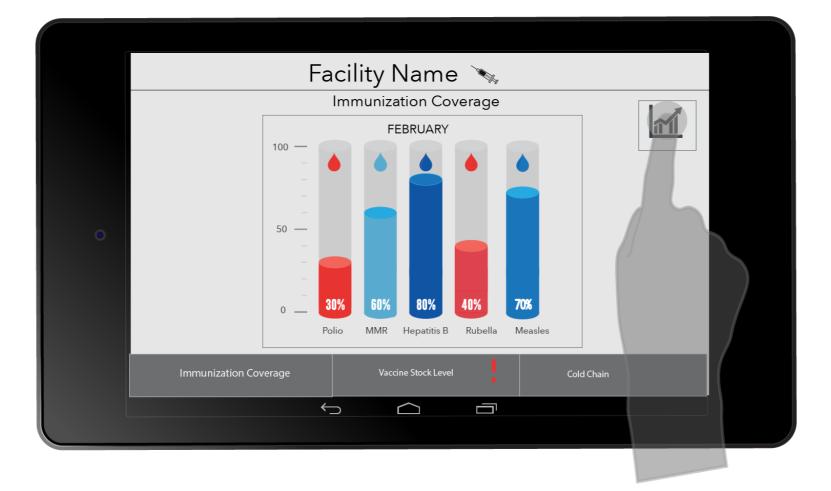
ARCHITECTURE















EVALUATION

Conduct UserTests

Evaluation and Feedback from a District Managers Or Experts from PATH

TIMELINE

