

Smart Phone Vaccine Registry

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Basic concept

- Problem space
 - Keep track of children's immunization records to improve coverage and increase follow up
 - Mobilization of record keeping to facilitate use in rural areas, lowering the cost, easier to use
- Description of the application
 - Modify an existing database of vaccine registry
 - Improve coverage and increase follow up
 - Health officials & children in rural areas

Basic Scenario

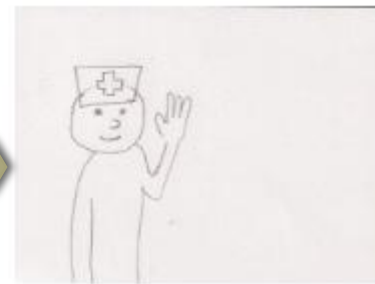
- Storyboard of the product in use



Health Official Arrives at site to administer vaccines.



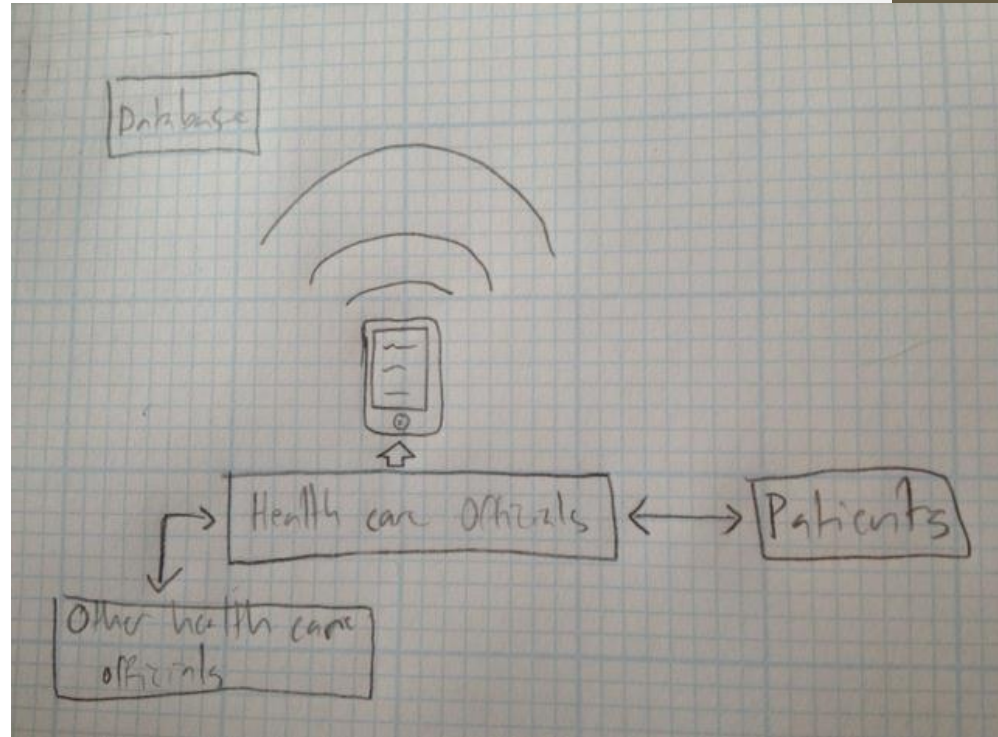
Health Official inputs data regarding immunization into record system using smartphone app. Information at least includes patient name, date of vaccination, type of vaccine, contact info, date for follow-up.



Health Official leaves and plans to return on the follow-up date to check up on the patients that were administered the vaccine.

Initial thoughts on Architecture

- What are basic components of your product?
 - Database, server
 - Android application
 - UI
- How do they interact?
 - Child Immunization Records transferred on site to a central database to record vaccine administration and organize effective follow-up dates.



Expected effort

- Paper prototype along with surveys, video chats
- Prototypes, implementation (software)
- Minimum functionality
 - Measurably improved follow up
- What are the big unknowns?
 - language, literate?
 - would people use it?
 - realistic prototype?

Related Work

- What other projects relate to this one?
 - PATH's, Vaccine Delivery Innovation Initiative (Bill & Melinda Gates)
- What ideas does it draw on and who has worked on them?
 - Past Projects; NGOs, existing/developing public infrastructure, rural/spread population. Developed Systems.
- What makes this project novel/interesting?
 - Healthcare officials can follow up on the next shots of vaccine without having to lookup on the PC application (long start up time, blue screen, hard to maintain) → auto notification