Smart Phone Vaccine Registry

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Children Receive Vaccinations

Records for child immunizations are not kept or rely on a non-centralized paper-based system.

Problem:

1. Initial Vaccine
2. Follow-up Vaccine
3. Without having a reliable record, multi-step vaccination treatments cannot be provided.
4. Children Receive Vaccinations
**Solution**

1. **Initial Vaccine**

2. **Children Receive Vaccinations**
   - Records are input electronically on an Android based app.
   - Records are sent to a centralized database.
   - Other HCP’s can access the database and get follow-up information.

3. **Follow-up Vaccine**
   - HCP’s will know which children will receive follow-up vaccinations.

4. **Records are sent to a centralized database.**

5. **Other HCP’s can access the database and get follow-up information.**
What fieldwork and initial prototypes are you building on?

- Rebecca Hills
  - Existing system in the US
  - Vaccine charts
  - Information about the current condition in Sudan
  - Simplicity!
Quick overview of implementation plans

• Components
  • Android 2.1, JSON, XML, Server, Database

• Are there any important changes from what you originally planned?
  • Forecasting
  • Notification System
What have you accomplished so far?

- Which components/capabilities have you implemented?
  - Add Patient, Search Patient, View Patient, Log Vaccine, DB management
- Are all the major requirements taken care of?
- Not Yet
  - Notifications and Forecasting
  - Caching
Prototype Demonstration
Evaluation plan

• How will you know your solution is a good one?
  • UI Testing would be ideal with those who have experience working in related environments

• What criteria will you measure?
  • Ease of use, reliability, length of learning time

• When will that be?
  • First Half of May

• Who are your target users for the final build?
  • Low Resource Environment Health Care Workers
What is there left to do?

- What are the components/capabilities that are not yet implemented/uncleans?
  - Notifications
  - Forecasting
  - Vaccine Reference Database
- How will you address completing these missing elements and mitigating risk?
  - Meet with experienced outside sources
    - Bill
    - Islam Ahmad
Timeline for remainder of quarter

April
- Fully Functioning App without notifications and forecasting
- Already have met with Bill or someone else who has had experience working in such environments to guide further UI implementation and design.

May
- Local Caching handled Notification and Forecasting Prototype.
- UI testing for App functions

June
- Notification System and Forecasting System Ready.
- UI testing for final build and final adjustments