

## **Group Meetings: Design Task Breakdowns**

In this class session, each design team discusses how to break their remaining work into discrete, manageable tasks. Notes are provided here for the Case Tracking team.

### ***Case Tracking***

Will and Alisa have just returned from Zambia. Next step is to document or transfer their experiences to the rest of the team.

Now it's time to break the work down into discrete tasks that people can work independently. Example:

- Task: refine technical requirements for clinical decision support functions.
- Plan: investigate the functions and features of existing software, looking for ideas that can apply to the Power of Love application.

Need to refocus on "what are the final deliverables?"

In June, project will support paper forms for caregivers/nursing assistants, plus desktop server functionality to support data entry, report generation and analysis back in the health center. The PDA won't be rolled out to the field in this initial implementation.

### **Training manual (Tim)**

Write training manual. Also create a set of slides for each group needing training, i.e. data entry, community nursing assistants, nurse, home caregiver, report generation.

Steps:

- Decide how many separate manuals are needed? Prioritize which to do first.
- how will the trainings be done (one on one, small group...)
- divide time remaining on the individual manuals

Issues:

- Waiting for screenshots from current code.
- In the meantime, do what can be done with paper forms, basic info about PDAs, etc.

### **Forms Definition (Nadia)**

The team has scans of paper copies of forms currently used.

- Eligibility Form

- Enrollment and Initial Assessment – demographic and medical. This form may be two separate forms, but they are the same for the purposes of the CHART system because they are both static, one-time views of data.
- FCG daily form
- CNA visit form
- Nurse visit form
- Mobile Clinic visit form
- Adherence form (TB, ART, etc.)
- Referral
- Lab results
- Immunizations

Are there any symptoms missing? What more can the software implementation support? Current understanding via PoL contact may be oversimplified.

Nadia will be working with development teams: GUI, server interface. Final deliverables include:

- Streamlined branching structure for the different interfaces, defining software behaviors.
- Break down functionality into conceptual modules: i.e. immunizations, report generation.

### **Report Generation Tools (Alissa)**

Define the report generation functions that will support the defined modules; emphasis on technology behind these functions.

There's some uncertainty about the scope/approach to "defining modules." But these modules need to be defined before the report generation can be defined.

Also she would like to do some broader research on new technology adoption in developing countries. With the emphasis on PDAs, she feels there are questions not being dealt with; although the PDA isn't part of the June deliverable, wants to make sure this isn't glossed over. Much discussion about whether this topic fits with the class project goals, the stage that the project is at. She feels this should have been a part of the project, but maybe it's too late to take it on, as the project overall has many discrete tasks to accomplish in the next four weeks.

### **Clinical Decision Support (Samantha)**

Samantha has been surveying existing clinical decision support systems. Most systems (commercially available) are geared towards doctors and hospital (Intensive Care) situations. With her medical training, she's preparing to create something more appropriate for nursing and less-trained staff; and appropriate to the "level of care" that happens in the home setting. She hopes to talk to people doing this sort of care around Boston.

Suggestion: make sure the tools support the behaviors that PoL is trying to encourage, i.e. regarding rest, hygiene, diet. For example, what should you do if the patient is suddenly experiencing severe diahhrea.

Suggestion: embed body-weight curves in the software, to provide basis for raising warnings of excessive weight loss. Maybe this is something to implement over the summer.

With Samantha's medical training, she's also being asked to provide lots of input to forms and report generation.