University of Washington

January 14, 2015

Department of Computer Science and Engineering

CSEP 590B, Winter 2015

CSEP 590B, Assignment 2, Due Wednesday, January 21, 6:30 pm

Readings (for January 14): Links on the class web page

1. Technologies for Global Health, Howitt et al. et al. The Lancet.

2. Development of health information systems in Ghana

3. Immunization Personas. The BID Project, PATH.

Assignment (for January 21)

Develop requirements for a software tool to support the district manager in aggregating facility reports and submitting them up to the next level (which could be the national or province level, depending on country).

This should be based on one of the three countries you chose in week one. You should use information about the country in the design (e.g., considerations about population, the health system, infrastructure, etc.). You may also make general assumptions based on the class discussion, for example, you should not spend a lot of time trying to track down the countries reporting template.

Assume that each facility has a number of reporting forms to submit covering things such as immunizations performed, or patient visits, or cases of diseases. The job of the district data officer is to aggregate this data and then submit it to the next level.

You will need to define a number of things in your specification, such as your assumptions about how the data is coming in, and what other actions that system will take, beyond just the aggregation of the data elements. You will also need to make some definitions / assumptions about the overall architecture for the reporting system. Your assumptions should be stated, and reasonable for the country you choose. As a minimum, can assume that there is a national system that stores data in a database, and you can communicate with this system using a web protocol. The focus of your work should be on the district level system and the tasks that the district data officer needs to perform in getting all the data submitted successfully up to the next level.

You have flexibility in the level of the specification that you write, as to whether you feel the should be given as a high level design, or if the task is specific enough that a more detailed design is appropriate.

Expected length is two or three pages (although longer if has lots of diagrams, or is heavy on boilerplate or useless verbiage).

Submit all materials by catalyst by 6:30 pm, Wednesday, January 21. Submit via the dropbox which should be accessible through your catalyst accounts.