

**YANG WANG**

CS522-MOBILE SYSTEMS AND APPLICATIONS

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# DESIGN FRAMEWORK

MAR. 29<sup>TH</sup> 2012

CS522 MOBILE SYSTEMS AND APPLICATIONS

## DESIGN FRAMEWORK

### FUNCTIONAL AND DATA ELEMENT

#### – CLIENT'S INTERFACE:

##### 1. Health Information Collector

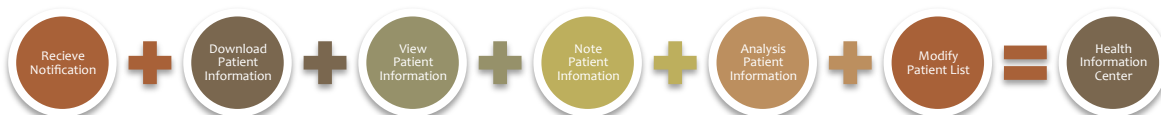


##### 2. Appointment Maker (optional)

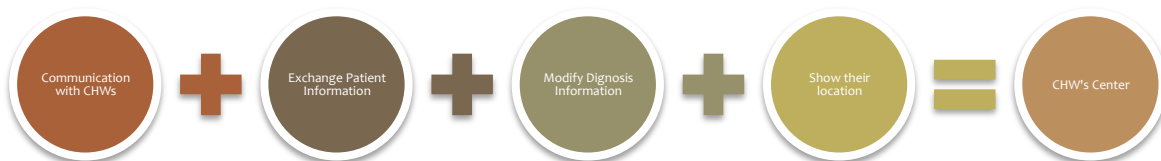


#### – COMMUNITY HEALTH WORK'S INTERFACE:

##### 1. Health Information Center



##### 2. Community Health Worker's Center



##### 3. Location Service Center



##### 4. Appointment Maker (optional)



## FRAMEWORK SKETCH

### — OVERALL COMMUNICATION STRUCTURE:

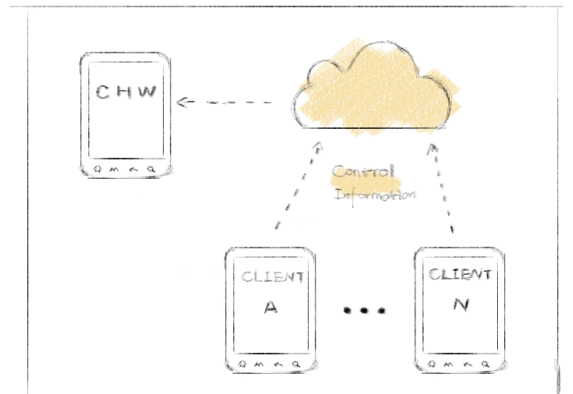
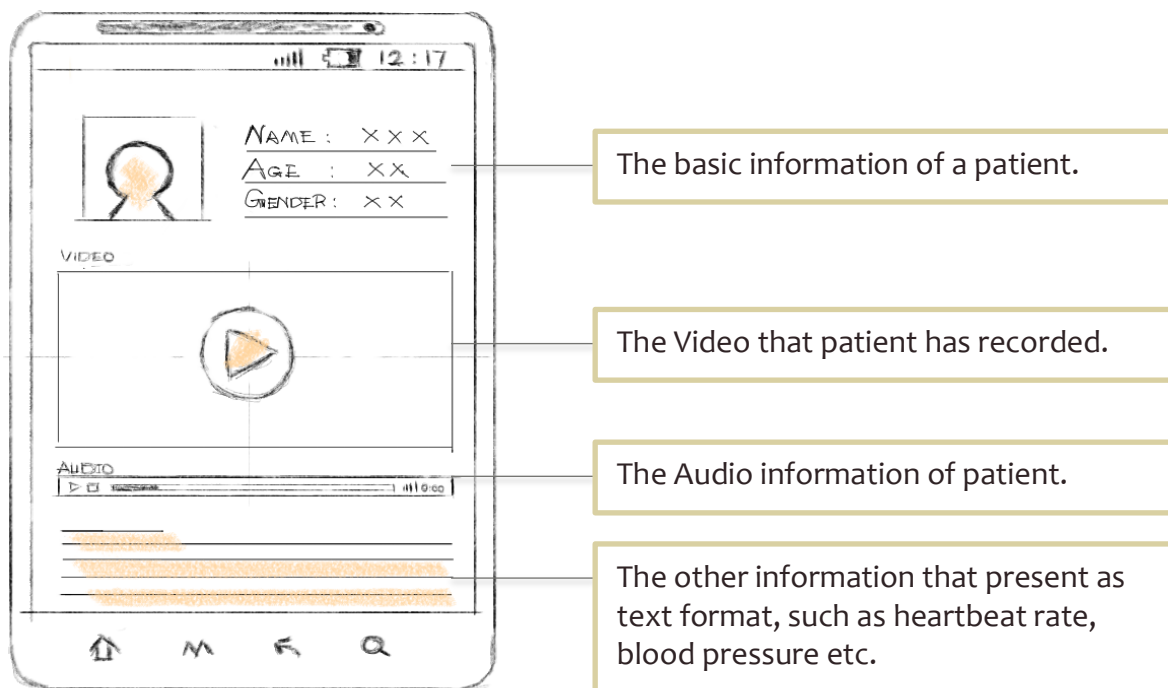


Figure 1 Overall Communication Structure (CHWs and Client)

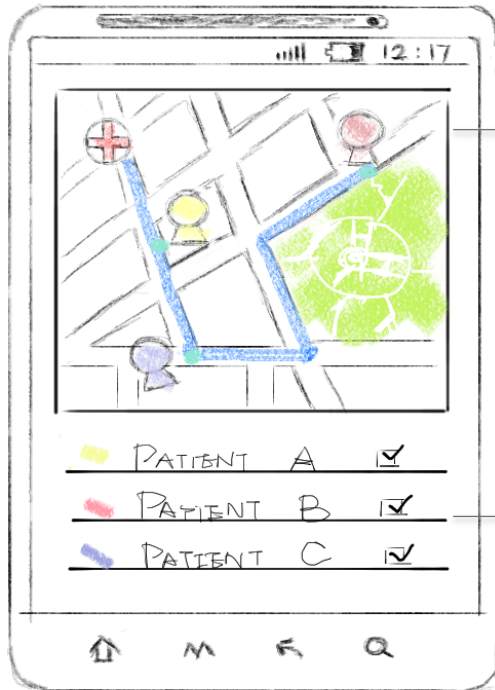
### — COMMUNITY HEALTH WORK'S INTERFACE:

#### 1. Health Information Center



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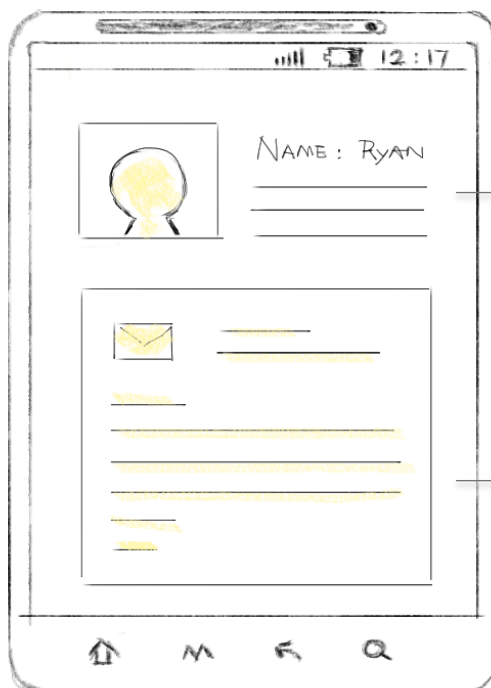
### 2. Location Service Center



The Google map contains the location information about Patient and CHWs. You could select the kind of person you want to view.

This is the Patients' list; the CHWs could modify the patient that they want to see. And they could view the patients' information by press the icon of each patient.

### 3. Community Health Worker's



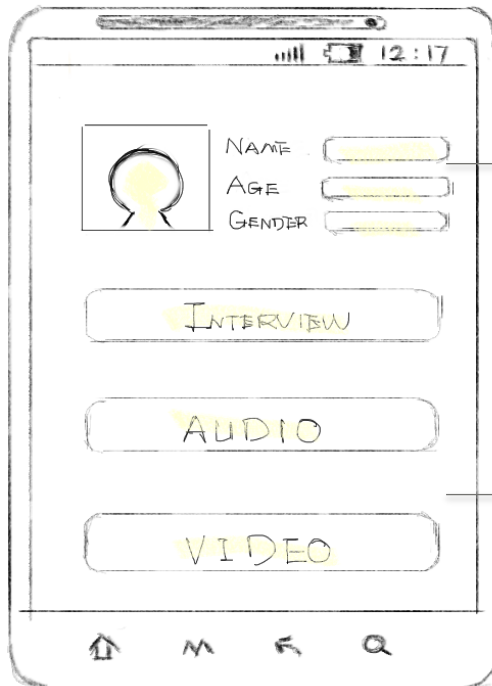
The basic information of community health worker, and also the number of co-patient.

The messages that CHWs send to user, and you could send the specific patient's information to the CHW.

## DESIGN FRAMEWORK

### – CLIENT'S INTERFACE:

#### 1. Health Information Collector



Client should Input basic information in these blocks.

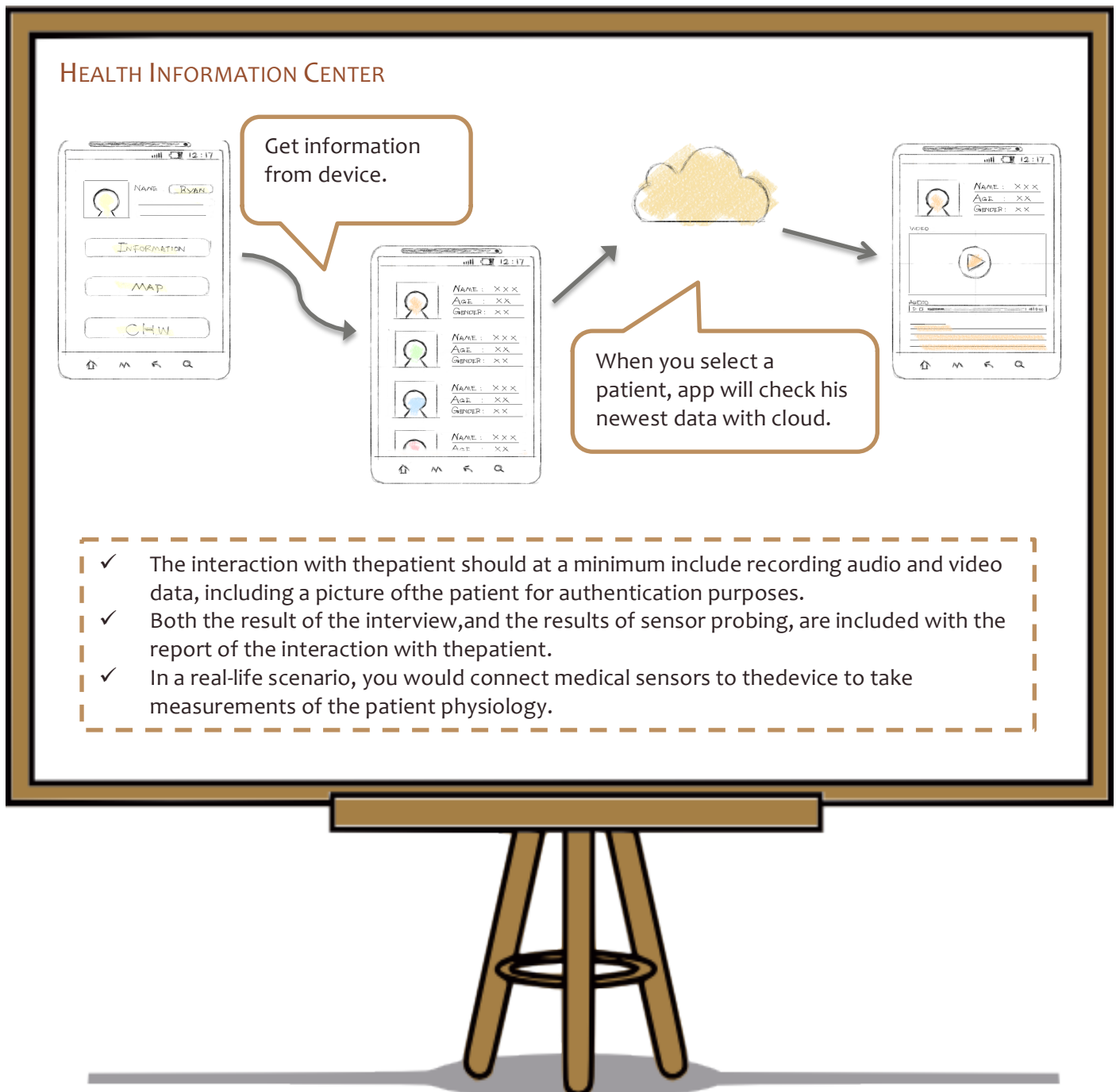
Interview: Several questions includes description, multiple choices etc.

Audio: Patient could record some audio data to descript their situation and need to CHW.

Video: This would help CHW knows their patients more comprehensively.

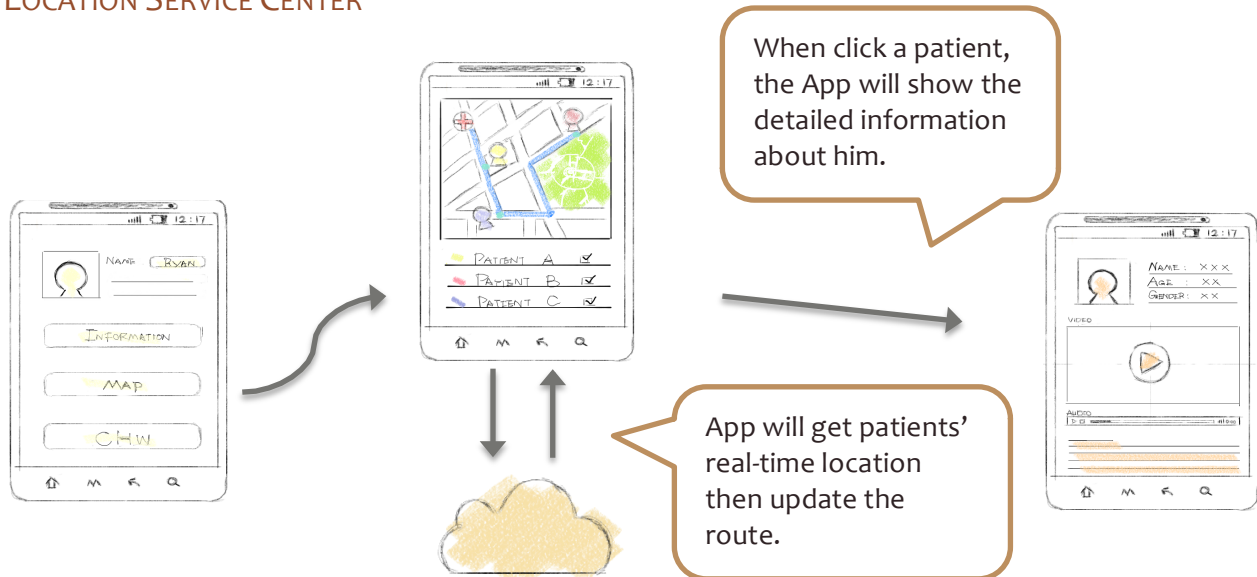
## KEY PATH SCENARIOS

### – COMMUNITY HEALTH WORK:



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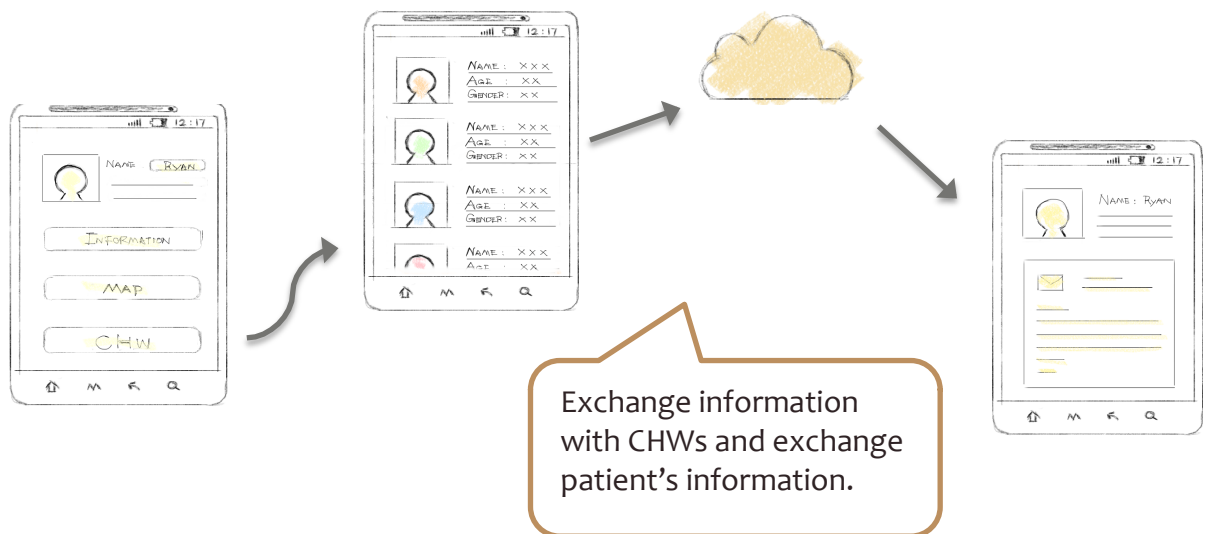
### LOCATION SERVICE CENTER



- ✓ Cloud communication will be used for the "control plane": A community health worker provides their current location, and the cloud service will notify them of the location of the patients they have to see, and a waypoint navigating them to those patients.
- ✓ This information should be projected on a Google Maps service, with the option to overlay information on the map about the locations of other community health workers.

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### COMMUNICATION CENTER



- ✓ This will provide for long-range communication, and allow for eventualities such as logging of exchange of patient data, this App need only exchange simple text messages).
- ✓ The app will use the Amazon Web Service Simple Queuing System (SQS) to perform reliable point-to-point message-based communication.



## CLIENTS:

