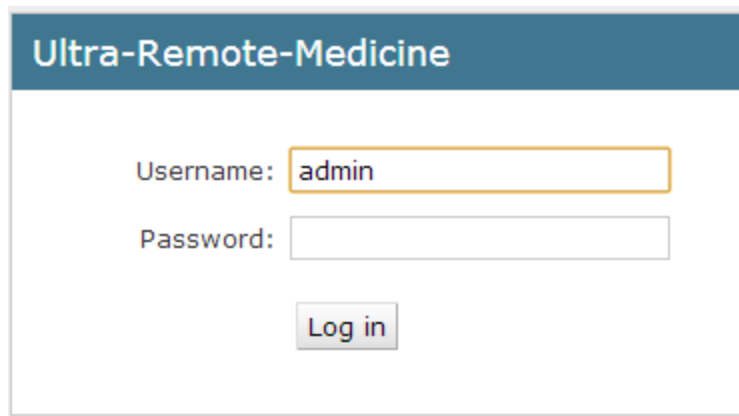# Design and Technology Manifesto

Technologies/Software(Website):
We use Django for the framework for our website since it is easy to use and comes with a lot of built in functionality that makes our lives easier, and we can focus on the important tasks. It also comes with an admin page. We are using the Heroku cloud computing platform to host the website since we could not get Windows Azure to work, and Heroku is an easy-to-use and easy-to-learn platform. For our database, we use postgreSQL since it is compatible with heroku. We use HTML5, CSS and Javascript for basic web programming, as well as the twitter bootstrap package for making the webpage stylish. The all the pages were made with twitter bootstrap.

Design:
We used Django to create different accounts for field workers, doctors, and administrators, where field workers and doctors have similar privileges, but doctors have a little more authority. So the code for field workers and doctors is very similar. However for the administrator, have all the privileges that doctors and field workers have, and more. Django makes this adminstrator page easy to make.

Ultra-Remote-Medicine

Site administration

Auth		
Groups	＋Add	✎Change
Users	＋Add	✎Change

Sample		
Annotations	＋Add	✎Change
Cases	＋Add	✎Change
Doctors	＋Add	✎Change
Measurement types	＋Add	✎Change
Measurements	＋Add	✎Change
Patients	＋Add	✎Change
Scans	＋Add	✎Change
Specialty types	＋Add	✎Change
Time slots	＋Add	✎Change
Workers	＋Add	✎Change

Sites		
Sites	＋Add	✎Change

Recent Actions

My Actions

✎1. Olivia Brown
  Doctor
＋Wednesday 20:38 (GMT) ->
  Wednesday 20:38 (GMT)
  Time slot
✎1. Olivia Brown
  Doctor
＋Case 1
  Case
＋1. Kidneys
  Specialty type
＋2AdamBlue
  Worker
＋1JohnSmith
  Worker
＋2GregoryHouse
  Doctor
✎worker2
  User
＋worker2
  User

The second image is admin page. As we can see, Django provides us with a lot of functionality for very little coding. You can then click on for example Doctors and then edit their information, or add new doctors.

To access the admin page, double click the Ultra-Remote-Medicine.bat file to open the website on the heroku server. Here you will see the login page for field workers and doctors. Type /admin at the end to access the admin login page.

Ultra-Remote-Medicine

Username   [Username]

Password   [Password]

[Log in]

Here is the login page for doctor/field worker. After they login, they will be redirected to their own page which looks like this:
Doctor page:

Doctor's profile page:

In order to save more space for the case list on the page, the doctor's personal information will be displayed on another page(The picture below the main page), and they can go to the personal information page by clicking the "Profile" button under the drop down box. and edit their personal information by clicking the "Edit Profile" button. The case list is on the bottom of the Doctor's main page, where a doctor can view all the cases he/she has worked on or is working on. On the navigation bar, the Dashboard button is temporary "go back" button, and the searching bar is

used to search the keyword on current page(Just remind that the searching button is not working yet, it is going to be implemented on next sprint.)

Here is the field worker page:

Ultra-Remote-Medicine   Dashboard   Search   **Search**   Options ▾

FieldWorker: John Smith

Cases

Patient Name	Case	Date	Reviewer	Priority
NI, Ann	Case 1	Nov. 13, 2013	None	Medium
Brown, Jonny	Case 2	Nov. 13, 2013	None	High
chen, Jonny	Case 3	Nov. 13, 2013	None	High
Brown, Jonny	Case 4	Nov. 13, 2013	None	Medium

Add New Case

Add New Patient

The page displayed by clicking "Add New Case":

Open new case

Patient: [_____]
Priority: [High ▾]
Comments:
[   ]
[   ]
[   ]
[   ]
[   ]
[   ]

[Submit]

The page displayed by clicking "Add New Patient":

Register New Patient

First Name: [Jonny]
Last Name: [|]
Sex: [Female ▾]
Date of Birth: [_____]
Regional Health ID: [2]
GPS Coordinates: [_____]
Address: [_____]
Phone Number: [_____]
Email: [_____]
Photo Link: [_____]
[Submit]

Similar to doctor's page, the field worker is also able to edit and display his/her personal information on the same way described above, and view the the current cases on the table. In addition, the field worker can add New Case / New Patient by clicking the two buttons below the Case List Table, both of these buttons will direct the field worker to another page (shown above, and the New Case can only be added when the corresponded Patient exists).

Patient's information page:

Patient: Ann NI

Name: NI, Ann
U.R.M Patient ID: 1
Sex: female
DOB: Nov. 13, 2013
Regional Health ID: 1
GPS Coordinates: 20, 20
Address: 61 Finch ave
Phone: 3425216
Email:

Cases

Patient Name	Case	Date	Reviewer	Priority
NI, Ann	Case 1	Nov. 13, 2013	None	Medium

Add New Case

Case page:

Case 1

Patient Name: NI, Ann
U.R.M Patient ID: 1
Gender: female
Regional Health ID: 1
Case ID: 1
Priority: Medium ▼

Comments

John Smith (Submitter)

John Smith: Nov. 13, 2013 at 2:17 p.m. GMT
She is fine

Worker

The patient's basic information could be displayed by clicking patient's name on the table, and it will appear above the Case List Table immediately. The case's detail could be displayed by clicking the case number on the table, and it will be displayed on another page which will show

you both the patient's information and the submitter's comments with publish date.
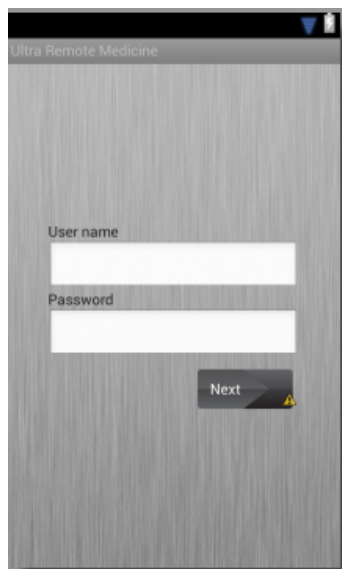
Technologies/Software(Android App):
For the part of Android App, we use eclipse to create the framework for our App since it includes many icons that we need to use on this App, and it also come with a lot of built in functionality that we are going to use. For the reason that the only user of Android App would be the field worker, we will need to synchronize both sides between the App and Website, and use the database we already have on the Website. Most of the code will be similar to the Django side, and we use XML,Java for basic App programming, as well as the icons package that included in the Android App Developer for making the App interface stylish.

Design:
Since only user of App would be fieldworkers, and he/she would use it to login the account which is created by administrator already, and then keep old customers' information on track. Similar to the fieldworker's pages on the website, fieldworker on App will also have the "add new patient" and "add new case" privileges, and the functionality of submitting the scans for patients with comments, so that the doctor would follow the case in time.

Since the App tasks are assigned to next sprint, we will its functionalities later. Currently we have designed the interface as following:
Log in page for field worker:

page for creating new patient:

First name

Last name

Sex

Date of Birth

Health ID

GPS Coordinates

Address

Phone Number

Email

Finish

page for adding new case:

Patient ID

Priority

Comments

Finish