Since our project consist of Webpage side and Android App side, this documentations is going to be divided into two parts:

Webpage:
- **installation instruction**
  - **Installation instruction of pgAdmilll**
  - Assuming you have Django 1.5.4 installed.... [This is kind of important]
  - 1. Google PostGres and download and run the installer.
  - When it prompts for different settings, you can use whatever you'd like.
  - Be sure to remember what password you provided, though.
  - 2. Open up pgadmin.
  - 3. On the tree view, navigate to Servers->PostGreSQL <<blah blah blah>>. Right click PostGreSQL <<>> and click connect.
  - 4. Create a New Login Role by right clicking PostGreSQL <<blah blah blah>>, and clicking New Object->New Login Role
  - 5. Set the user name (role name) of the new user to django_login and the password to 12345. Click OK
  - 6. Navigate to Servers->PostGreSQL <<blah blah blah>>->Databases
  - 7. Right click on the Databases node and click New Database
  - 8. Set up the New Database with the following settings: Name: django_db, Owner: django_login.
  - 9. Try to call manage.py syncdb
  - 10. Try call to manage.py runserver like usual.("manage.py runserver")

  - If you get an exception in 9 or 10 like that a module can't be imported, you should do the following:
  - Go to http://www.lfd.uci.edu/~gohlke/pythonlibs/#pip
  - 1. Download/Install Setuptools and pip (you might also need to install psycopg2 if pip refuses to install it).
  - 2. Ensure <<python 2.7 directory>/scripts is in your path
  - Restart cmd/shell
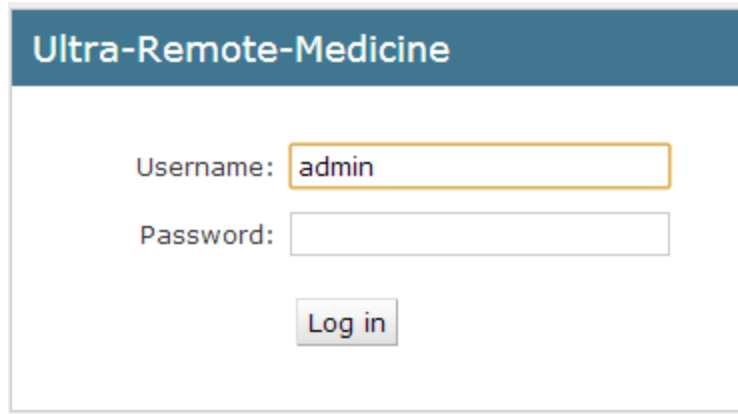 - 3. on the command line, use: pip install <<whatever-it-says-is-missing>
  - 4. Repeat (3) until sqldb and runserver work.
  - **Installation Instruction of Webpage**
    - There is no installation required for the website, the only thing the user needs to do getting a stable server to support the website if the user wants to make the website work continuously in the future.

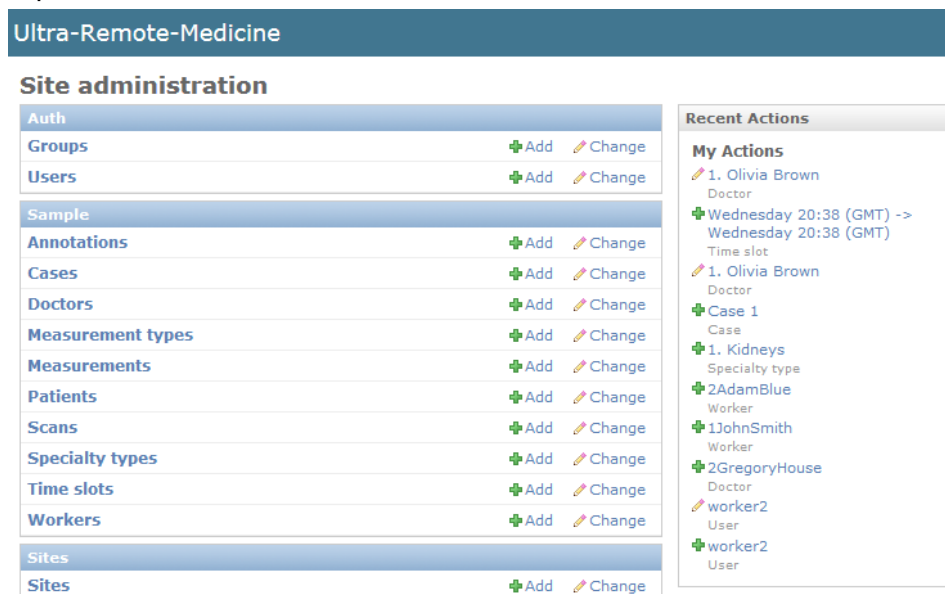- **User operation of product**
  Here is the Login page only for administrator, fieldworkers and doctors do have privilege to log in from this page, you will be directed to it by adding "/admin" after the website:

Ultra-Remote-Medicine

Username: admin

Password:

Log in

The administrator's account is created on pgAdmin, you will get a notice to create new account once you build up a new database. The format of the username and password would be less or equal to 30 characters that may contain letters, digits and @/./+/-/_ only. B

The following image is the page for administrator to perform the basic manipulations such as adding new doctor's account, adding new fieldworker's account, adding new patient, deleting expired accounts and so on.

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

Note: the user is not allowed to create the account with the username that is existing.

Login page only for fieldworkers and doctors, the administrator does have the privilege to log in from this page:

Ultra-Remote-Medicine

| Username | Username |
| Password | Password |

Log in

The accounts of fieldworder and doctor are created by administrator, and the format for the username and password is as same as the administrator's.

Doctor's page:

Ultra-Remote-Medicine   Dashboard   Options ▾

                                                                    Profile

                                                                    Log Out

Dashboard: john chen

Cases

Show 10 ▼ entries   Search: [   ]

Patient Name ▲	Case ⇕	Date ⇕	Reviewer ⇕	Priority ⇕	Status ⇕
Jonny, Loose	2	Nov. 30, 2013	None	High	Open
Olivia, Brown	1	Nov. 30, 2013	None	High	Open

Showing 1 to 2 of 2 entries   First Previous 1 Next Last

The cases are mostly passed by the fieldworkers and administrator. Each patient' name or case number is the link to the other page, the doctor can view more patient's information by clicking the link . The headers of each column of the table are the buttons for sorting, you can sort the column's content either in ascending or descending order.
For the searching bar, user could be able to use it to search any keyword that he/she want to find on the current page, and it provides an efficient way for user to keep track on the case or

patient he/she want to focus on.

On the navigation bar, the doctor could find the button called "profile" to edit his/her personal information, and it will direct the doctor to a new page with information displayed. On the left side of the navigation bar, there is a button called "dashboard", we used it as "go back" button for the web page.

Doctor's profile page:

Doctor john chen
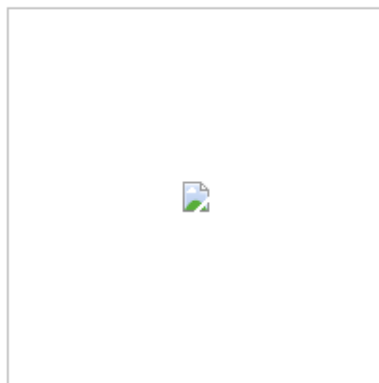
First Name: john
Last Name: chen
Phone Number: 123456
Address: 1231fasdf
Registration Time: Nov. 29, 2013, 4:20 p.m.
Specialties: Kidneys
Schedule: Saturday 19:32 (GMT) -> Saturday 19:32 (GMT)

Edit Profile

Doctor john chen

First Name: john
Last Name: chen
Phone Number: 123456
Address: 1231fasdf
Profile picture:
Choose File No…n

Submit Changes   Cancel

The doctor is available to change his/her basic information by clicking "profile".
The specialties, registration time, and schedule are created by administrator, and the doctor does not have the privilege these three informations.
The input of last name ,and first name: 30 characters or few, letters.

The input of Phone number: 30 characters or few, digital numbers.
The input of address: The string contains letter and numbers, with length of 30 characters or few.
The input of image maybe choose from the local folder in .jpg or .png format.

Here is the field worker page:

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 Patient by clicking the button below the Case List Table, and it will direct the user to the other page.

The page displayed by clicking "Add New Patient":

Except the input of GPS Coordinates, Email, Photo Link, the other inputs are required the same format as described above.
The input of Date of Birth: it should be written in MM/DD/YY for the time current century, or
MM/DD/YYYY for the specified year.
The input of GPS Coordinates: The format similar to "N 37 23.516, W 122 02.625"
The input of Email: The format similar to "example@live.ca" which contains @ notation.
The input of picture should be in jpg, or png format.

By clicking the patient's name on the table, you will be directed to this page:

Patient: Jonny Loose

Name: Loose, Jonny
U.R.M Patient ID: 22
Sex: Male
DOB: Dec. 3, 1988
Regional Health ID:
GPS Coordinates:
Address:
Phone:
Email:

Cases

Show 10 ▾ entries   Search: [   ]

Patient Name ▲	Case ⬍	Date ⬍	Reviewer ⬍	Priority ⬍	Status ⬍
Jonny, Loose	2	Nov. 30, 2013	None	High	Open

Showing 1 to 1 of 1 entries   [First] [Previous] [1] [Next] [Last]

[Add New Case]

The basic the information of that patient will be displayed on the top the that table.

By clicking the case number, the you will be directed to this page:

Patient: Loose, Jonny
U.R.M Patient ID: 1
Gender: Male
Regional Health ID:
Priority: High ▼
Case Holder: None
Case Status: Open

Scans

Comments

(Submitter)

Worker

: Nov. 30, 2013 at 8:04 p.m. GMT

test Reply

Worker

Post Your Comment

Add a scan:
[Choose File] No...n

[Submit Changes]

On this page, the viewer(doctor/fieldworker) can get the case information of the current patient, and the comments that are provided by the submitter at specified time.In addtion, the viewer could add new comments with scans for this case , or reply the comments that are provided by the submitter. When the viewer submit the new comment, he/she can also choose to provide the comments along with the scans in the local folder.(Note: the source of the scan images are downloaded under the header"Scans", after finishing the annotation by using your local editing tools, you can upload it by clicking " choose File" and the image will be displayed beside the comments you submit)

The priority has three options: High, medium, Low, and it could be changed by submitter.
The length of comment's content has be set to acceptable length which is up to 200 words.
The format of the scan could be in png or jpg format.

Go back to the patient's page and click " Add New Case", you will go to the following page:

Open new case

Patient: 22

Priority: High ▾

Comments:

Patient Scan:
Choose File No...n

Submit

Similar to the previous input of comments, the comment could be submitted along with scans, meanwhile you can change the priority with specific patient's id.
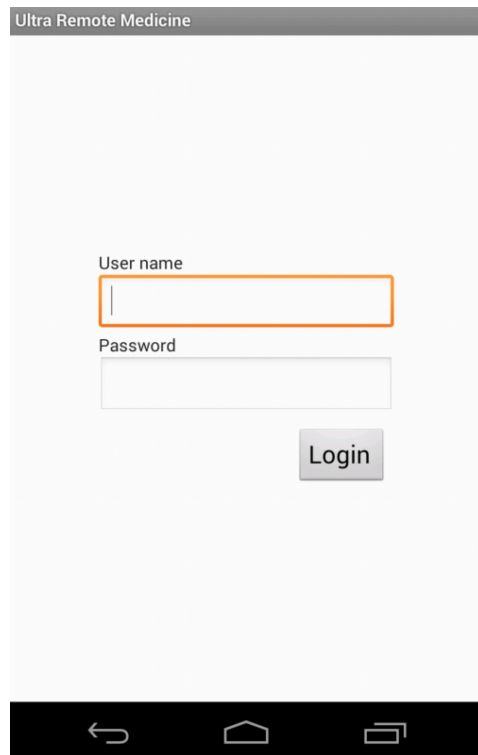
Android app:
- **installation instruction**

  -Install android SDK from https://developer.android.com/sdk/installing/index.html

  -Connect the android phone to the computer using the micro usb connector - usb 2.0

  -If the eclipse is not available then use adb tool into the phone adb -d Path_To_Your_APK_File

  -If eclipse is available then run the application

  -Export the package and sign it.

  -Run the android and go to its applications
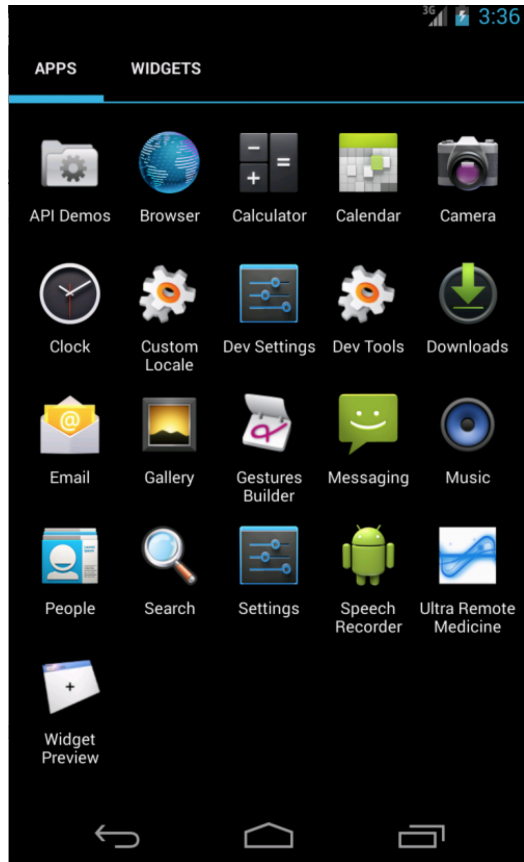
There you should see an icon called Ultra Remote Medicine and click on it.

- **User operation of product**
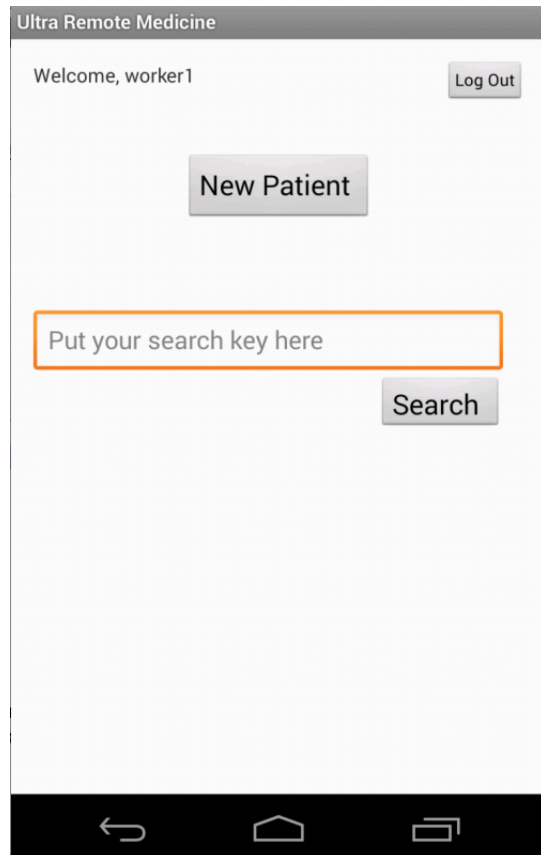
then you log in with your username and password.

From here you have an option of creating a new patient or just search a patient. In order to create a new patient. Press the new patient button.

From here you can fill out the data of the patient. Remember for the date of birth have slashes between months and day and year. Once you fill out the form click "Send". (Note: the input requirements is as same as those on webpage above.)

and there you have a patient. And then you could click create case by clicking on create a case.

You have an option to upload an image from the phone. Simply by just tapping on the scan image and you have a possibility to change the priority and write the comments and send it.

If you want to go back then click the back button on android and then you can search the patient by simply just typing in and you can select the patient by just tapping the desired patient. (note: text you enter in the searching bar could be any keyword that exists in the database, otherwise no result will be display after you press "search")

Here is the page that displays the results by entering keyword "e", each row contains basic information of patient
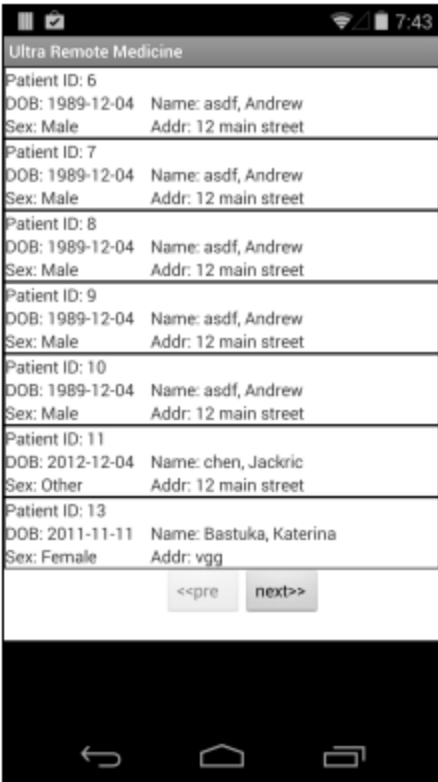
If you want to know more detail about the patient, just simply click the row and you will see:

You can add more cases again.

In order to log out you simply go back and you can click on "log out" from the top right hand corner to log out.