Special Instructions - FHIR Ball.pdf

Team FHIR Ball

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Topic: Improving Medication Adherence at the Community Level
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For this project we have designed and built an Android application.

In addition to having the source code available in the GaTech GitHub repository, we have submitted the application to Google Play Store (available at https://play.google.com/store/apps/details?id=edu.gatech.health.fhirball) as well made a prebuilt .apk Android binary.

With the latter method we are sure the graders are be able to test the application by side-loading and run the .apk file on their Win/Mac/Linux emulator. You can find the instructions on how to get the binary (located in "`Final Project/Final Application/Application/app-release.apk`") onto the emulator bellow:

Step A)
If not already installed, please install Android Studio and SDK with the Emulator, found at:
https://developer.android.com/studio/index.html

Step B)
Differs depending on the platform -> see OS dependant sub steps bellow:

Windows:

1. Execute the emulator (SDK Manager.exe->Tools->Manage AVDs...->New then Start)
2. Start the console (Windows XP), Run -> type **cmd**, and move to the **platform-tools** folder of **SDK** directory.
3. Paste the *APK* file in the 'android-sdk\tools' or 'platform-tools' folder.
4. Then type the following command.
   adb install [.apk path]

Linux:

1. Copy the apk file to `platform-tools` in `android-sdk linux` folder.
2. Open **Terminal** and **navigate to platform-tools** folder in **android-sdk**.
3. Then Execute this command - `./adb install your-path-to/Improving-Medication-Adherence-FHIR-Ball/Final\ Project/Final\ Application/Application/app-release.apk`
4. If the operation is successful (the result is displayed on the screen), then you will find your file in the launcher of your emulator.

Mac:

1. Open terminal, write

```
PATH=$PATH:~/Library/Android/sdk/platform-tools
```

2. Run the emulator
3. In Terminal type the following: `cd Library/Android/sdk/platform-tools`
4. Execute the following in your terminal: `adb install your-path-to/Improving-Medication-Adherence-FHIR-Ball/Final\ Project/Final\ Application/Application/app-release.apk`

4.1. if you get the following error message: error: no devices found - waiting for device - follow the step 5.

5 Run your emulator from Android Studio, once emulator active then repeat step 4, you will see the success message on your terminal.

Special notes regarding demo data

The default public server we are using for demonstration purposes:
http://52.72.172.54:8080/fhir/

Patient id used: "`2019307`"

To view the record for the patient we've created for the purposes of testing the application see:
http://52.72.172.54:8080/fhir/search?serverId=home&resource=Patient&param.0.qualifier=&param.0.0=2019307&param.0.name=_id&param.0.type=string&sort_by=&sort_direction=&resource-search-limit=

To view the pre-filled MedicationOrders for this patient see:
http://52.72.172.54:8080/fhir/search?serverId=home&resource=MedicationOrder&param.0.0=2019307&param.0.name=patient&param.0.type=id&sort_by=&sort_direction=&resource-search-limit=

(these are also viewable as JSON text files in the directory "`Final Project/Final Application/Server Prefilled Data Records`"*)*

Finally, to view the MedicationStatements that the app records/writes to the server based on user action see:
http://52.72.172.54:8080/fhir/search?serverId=home&resource=MedicationStatement&param.0.0=2019307&param.0.name=patient&param.0.type=id&sort_by=&sort_direction=&resource-search-limit=