Faculty of Engineering and Technology

Electrical and Computer Engineering Department

Software Development for Android Devices

ENCS 539

Project #1

Downloading the Android SDK

Student Name: Mohammad Kabajah

ID: 1110600

Instructor's Name: Stephen Taylor

Section #:1

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Downloading and installing Java Development Kit (JDK):

Developing with android require Java environment so I download the JDK from ORACLE website and install the 64-bit version since my operating system is 64-bit, I downloaded the java 1.8 version and its working fine with the android SDK.

Downloading Android SDK:

Following the instructions on the website I downloaded the SDK that compatible with my device witch running Windows 7 64-bit. After download and extract the file I was able run eclipse and the SDK manager and download all the packages for Android 4.4.2 (API 19).

Testing the first application:

After creating the first android project eclipse automatically create the project than prints Hello world! On the screen, I modified the strings.xml file in the values folder to make the app print "Hello There this is my first android app" on the screen, and create another layout in Arabic and make it print "مرحبا" on the screen.
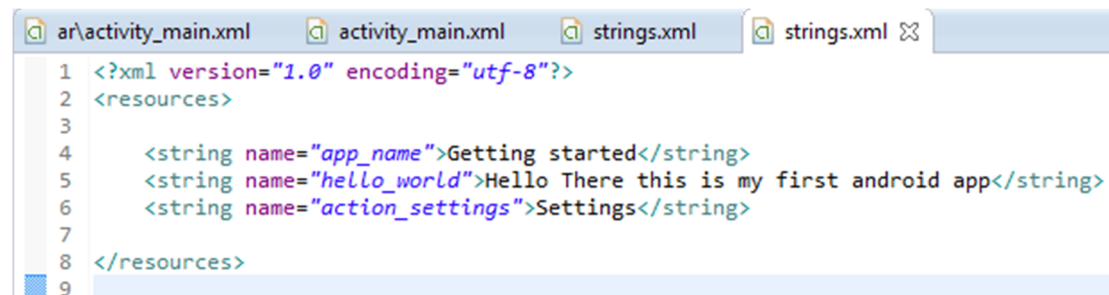
```
ar\activity_main.xml    activity_main.xml    strings.xml    strings.xml ⊠
1  <?xml version="1.0" encoding="utf-8"?>
2  <resources>
3
4      <string name="app_name">Getting started</string>
5      <string name="hello_world">Hello There this is my first android app</string>
6      <string name="action_settings">Settings</string>
7
8  </resources>
9
```

Figure 1

```
ar\activity_main.xml    activity_main.xml    strings.xml ⊠    a
1  <?xml version="1.0" encoding="utf-8"?>
2  <resources>
3
4      <string name="app_name">Getting started</string>
5      <string name="hello_world">مرحبا</string>
6      <string name="action_settings">Settings</string>
7
8  </resources>
9
```
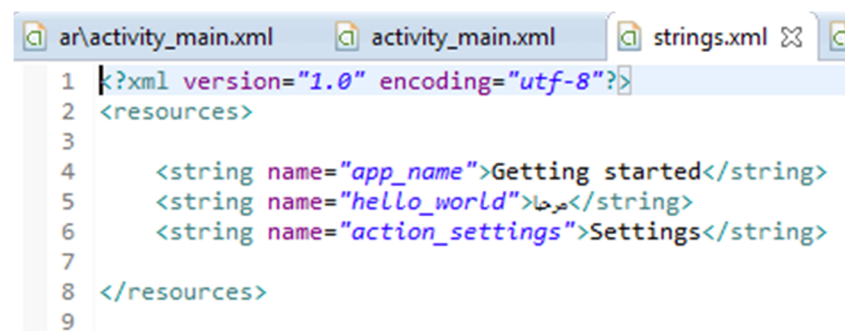
Figure 2

And when I try to test the app using the AVD it was very slow so I did the testing on my android smartphone which running Android 4.4.2, after installing the right drivers I manage to connect my device and install the app on it from eclipse and here some screen shots for the app from my phone
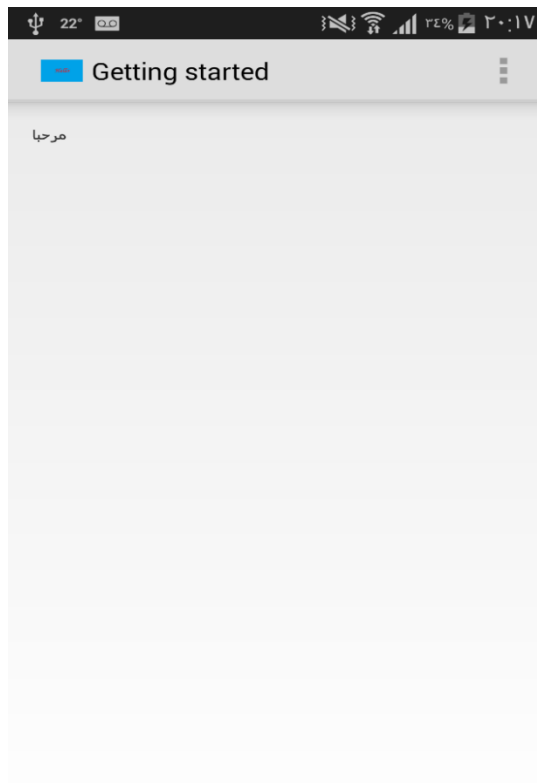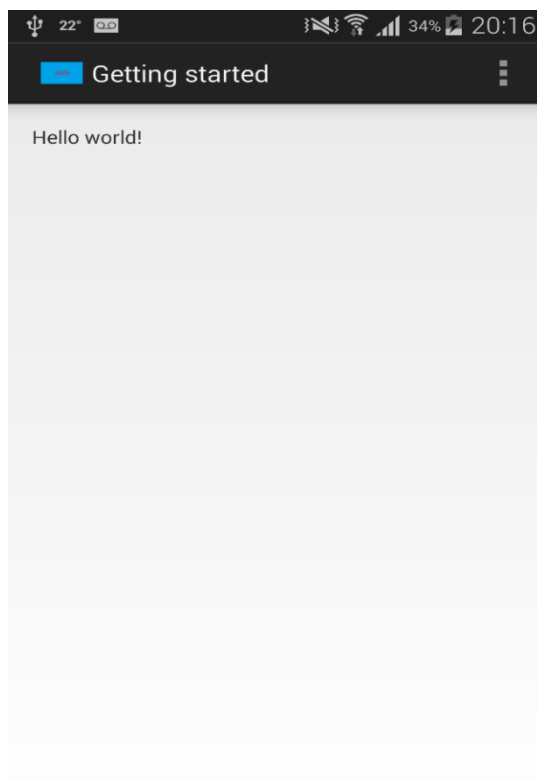
Figure 3

Figure 4