

CS478: Software Development for Mobile Platforms

Project #1

Due time: 9:00 pm on 2/5/2015
Submit using Blackboard web site

Total points: 60

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This is a multi-part project. Please complete all the items below.

1. Download and install the latest version of the Eclipse IDE on your computer. This is version 4.4 aka Luna. You may skip this step if you already have this version of Eclipse installed on your computer
2. Using the instructions provided in the first set of slides, download and install the “ADT Plugin” from the web site <https://dl-ssl.google.com/android/eclipse/>.
3. After restarting Eclipse, open the SDK Manager and download the following items: (1) Under the “tools” directory, the latest version of Android SDK tools, (2) and the latest version of the SDK Platform-tools, (3) Under the “Android 4.4.2 (API 19) directory, the SDK Platform, (4) Samples for SDK, (5) ARM EABI v7a System Image, (5) and Google APIs, (6) Under the Android 2.3.3 (API 10) directory, the SDK platform, (7) and Google APIs, and (8) under extras the Android Support Repository and (9) Android Support Library.
4. Close the SDK manager and open the Android Virtual Device manager. Create two virtual devices, a Nexus 5 running Android version 4.4.2 (API 19) and a Nexus S running version 2.3.3 (API 10). Make sure that both devices include a 32 MB SD card, otherwise use the default configurations.
5. Design and implement the following app. The app contains a text editor window and a button. When the user opens the app, the text editor window is empty. The user then types some text. Embedded in the text could be a phone number in the following format “(xxx) yyy-zzz”. When the text (possibly containing a phone number) is complete, the user will press the button. Now your app will look for a phone number embedded in the text typed by the user. If a phone number conforming to the above format is found, your app will open a dialer window with that phone number showing in the corresponding window. The user may or may not decide to dial the number; however, under no circumstances your app will dial the number automatically.

You must work alone on this project. Submit the entire Eclipse project as a zip archive t using the submission link in the assignment’s page on Blackboard. No late submissions will be accepted.