Android Guidelines

Installing the Android SDK:

http://developer.android.com/sdk/installing.html

Make sure that you download all the required platforms and create at least one AVD (with a target greater than or equal to Android 2.1)

PLEASEx: Do this as soon as possible. There are MANY potential issues that could occur while installing the SDK and AVD and it is crucial that you troubleshoot as early as possible if you want a finished Android application.

Eclipse:

For this assignment you will be operating only in Eclipse, an integrated development environment (IDE) that allows us to write code. This is similar to DrJava, except for one thing: it is much more powerful. However, with great power comes great confusion. The nuances of Eclipse and how to manipulate it's environment are well outside the scope of this course, so please don't worry too much. Mostly, you should be using it to write your code, navigate through files, and run the Android simulator (much as you did earlier programs in DrJava). However, if you have questions there are two resources you should take full advantage of:

▲ The TAs, many of whom have used Eclipse extensively
▲ The Eclipse documentation (http://www.eclipse.org/documentation/)

Helpful Hints:

◆ In Eclipse, Command-Shift-o (for Mac users) or Ctrl-Shift-o (for PC users) will import the libraries needed by your project.
  ● For instance, when you declared a class Scanner, you needed to explicitly import java.util.Scanner. Hitting this keystroke will do that for you automatically (and help reduce the number of Google lookups you need to do)
◆ Make sure that you make a copy of your original GuitarHero assignment before modifying and extending it so that your previous work is not completely lost.

Android API:

As we learned in class an API is an Application Programming Interface. In order to interact with the Android platform we use the Android API, just as we previously used the StdDraw, StdIn, and StdOut libraries. The full list of possible packages can be found here:


It would benefit you to take a look through this writing and get situated with what the documentation looks like, however, for the assignment we will direct you to relevant portions of the API for implementation.