CSCI 322/522   **Assignment 4: Programmatic UI Coding**
100 points

This assignment follows what we learned in *3. Programmatic UI Coding*. It has two parts, each its own separate app.

Instructions

Part 1 – EmailChecker App (50 points)

Without using XML, write an app that has one text field, one label and one button. The user can enter his or hre email in the text field. When the user clicks on the button, the app checks if the email entered contains the @ character and a dot somewhere after the @ character. If it does, the label displays VALID, otherwise it displays INVALID in the label. The text field and the label should have their own separate style, each with a minimum of four attributes. Include a Model. Do not use any prewritten email checking code. Display *Email Validator* on the title bar of the app. Forced portrait orientation is acceptable.

Part 2 – PasswordValidator App (50 points)

Without using XML, write an app that has one text field and one label. The user can enter his or her password. The label displays, as the user types, WEAK or STRONG. For the purpose of this app, we define a weak password as having eight or fewer characters. A strong password is defined as having nine or more characters. Include a Model. Do not use any prewritten password checking code. Display *Password Validator* on the title bar of the app. Forced portrait orientation is acceptable.

What to Turn In

Document any Java classes as described in *322 & 522 Android Coding and Documentation Guidelines* and zip any apps separately.

Attach your zipped file(s) to your assignment submission on Blackboard.