**CMPE 137**

**Android Lab 1 – Login Screen**

**Introduction:** Implement a login activity with the following specifications.

**Objective:** Become familiar with Activity, layouts and UI elements.

**Requirements:**

1. The Login page should have a basic login UI.

2. There should be an option [‘show/hide’ button beside the password field] to make the password visible

3. After clicking on ‘Login’ with valid credentials, the user will be redirected to the activity created in Lab 0.

4. The Username is your SJSU ID and the password required is ‘CMPE#137’

5. Provide an error region below the password field that displays different messages such as:

* *Invalid Username*
* *Invalid Password*
* **Tip: show your creativity by validating the login screen as much as possible.**

6. Users should not be allowed to enter letters of the alphabet or symbols in the username field. This field should accept only numbers.

7. If the user enters the password in lower-case, i.e. ‘cmpe#137,’ provide an error message similar to: *“Try using upper-case!”***Do not show *“Invalid Password”* here.**

8. The system will show the following error if the user enters an incorrect password 3 consecutive times:

*“Too many attempts! Please try again after 30 Seconds”.*  Then grey out the password entry for 30 seconds.

**Grading standard:**

1. Correctness: **5** points

2. Layout, UI look and feel: **2** point

3. Coding structure and documentation/comments: **3** point

**Submission**:

Please upload your source code and resource files through Canvas.

Include the whole project folder, excluding the *bin* or *lib* subfolders if you use Eclipse. Do ***not*** include jars or compiled class files.

At the top directory level, you **must** include two files:

(1) README.txt with your name, student ID, email ID, and a brief instruction on how to build your app, and

(2) Your app binary, named loginScreen.apk.

You also need to submit a folder named *screenshots* that contains screenshots demonstrating how your login screen works.