Programming Assignment #1

CIS 436 – Mobile Application Development – Winter 2019 University of Michigan - Dearborn Prof. John P. Baugh

Due:	March 8, 2019 at 11:59 p.m.

Objectives

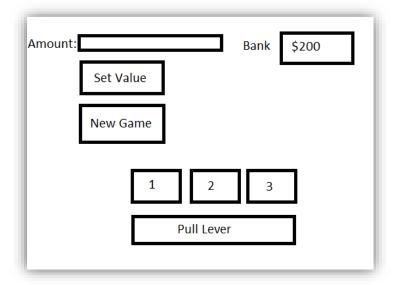
Points:

- To create a basic user interface
- To create event listeners and handlers for UI components
- To create a basic test plan

Instructions

You are charged with the responsibility of creating a basic app, giving the user the ability to *play a slot machine*. It is assumed you will use good software engineering practice throughout, including the following:

- Use comments (useful comments), including your name, instructor's name, class you are in, and which project this is at the top of your Main Activity Java file
- Give appropriate ids to your widgets
 - o Buttoni, buttoni, etc. will result in loss of points



	uld ensure your program and assignment adhere to the following (In fact you could use the g, keeping the above instructions in mind also, as a check list):
	You will allow the user to enter any numeric value from 100 to 500 (inclusive) into the editable text field O You must make sure only the numeric soft keyboard appears when the user focuses on the editable text field O You must also make sure that a Toast displays indicating an error if the values are not
	within the range 100 to 500 (inclusive.)
•	Once the user enters the numeric value, they should be able to click a button labeled Set Value , which will cause both the button and the editable text field to become deactivated (i.e,
	you cannot type in the text field and/or click the button) There should also be a New Game button, which will reset the bank to o, and disable the slot machine controls until the user selects a new amount and presses Set Value
	Playing the Game: • Each time the user presses the Pull the Lever button, \$5 is removed from his/her
	 account Three TextView widgets display a number from 1 through 5 (inclusive Hint: See the Java Class Framework's Random class
	 https://docs.oracle.com/javase/7/docs/api/java/util/Random.html If none of the numbers match, the user doesn't get anything
	 If two of the numbers match, the user gets \$10 If three of the numbers match:
	 If the number that matches is less than 5, the user gets \$40 If the number is 5 through 8 (inclusive), the user gets \$100 If the number is a in all throughout the user gets \$100
ŀ	• If the number is 9 in all three slots, the user gets \$1000 If the user's bank ever equals or exceeds \$1000, a Toast should pop up and tell the user they have cleared out the slot machine, and the program should then reset (the same as if the user had clicked New Game
	If the user's bank ever equals o, the game should display a Toast that tells the user they've lost all their money, and the game should reset (as if the user had clicked New Game)
	 You must create a basic test plan for each of the above features and fill it in Use the example text plan on Canvas Use Microsoft Excel (preferred), or Apache OpenOffice Calc, or LibreOffice Calc for the workbook with the Test Plan If you use OpenOffice Calc or LibreOffice Calc, please generate a PDF and turn that in – do not turn in the native formats of these open source programs

Deliverables

Zip your entire Android project, with the **test plan stored at the top level of the project**

Upload the entire zip file to Canvas on or before the due date