**Mobile\_Lesson1: Developing simple login applications for android**

# **Lesson Overview:**

Android is a mobile platform/OS that uses a modified version of the Linux kernel. It was initially developed by Android Inc., a firm later purchased by Google. It allows developers to write managed code in the Java language, controlling the device via Google-developed Java libraries. Today, we will learn how to create, build, run, and debug an Android Studio program.

# **Use Case Description:**

Hello World program for Android OS

# **Programming elements:**

Basics of Android (Activity)

# **In Class Programming (ICP):**

**Simple Login:** Create a basic login application

1. The main activity should contain username and password (make suitable changes for the login app!).
2. Create the 'Login' button on the login screen
3. When clicked on the 'Login' button, the screen should navigate to the welcome screen if the login credentials are valid. Otherwise, the app should display an appropriate message to the user
4. Create the 'LOGOUT' button on the welcome screen
5. When clicked on the 'LOGOUT' button, the screen should navigate to the login screen

# **ICP Submission Guidelines**

1. ICP submission is an individual or Group contribution.
2. Submit your source code (comment your codes) and documentation to GitHub and represent the work through the report accurately (at least 250 words) (submit your screenshots as well. The screenshot should have both the code and the output)
3. Comment your code appropriately
4. Present your work to the TAs before you leave
5. Submission after the due date is considered a late submission. (Check the 'Late Submission Policy on Assignments' in the syllabus)
6. Use the related Canvas assginement submission; Assignments => ICP#

# **ICP Rubric Details**

You can find ICP Rubric Details in the Syllabus.

**Note:** Cheating, plagiarism, disruptive behavior, and other forms of unacceptable conduct are subject to strong sanctions under university policy. See detailed description of university policy at the following URL: <https://catalog.umkc.edu/special-notices/academic-honesty/>