**CS399 – Project 4**

**Android**

**Game app**

**Assignment**

* Create a game in Android
  + This project is “open-ended”, where the more functionality you put into the app as well as the quality of the app will determine the project grade.

**Steps and deliverables for this assignment:**

* **Design the game** – Define at a high-level the goals, rules, and objective of the game
* **Prototype the game interface** –Use the emulator or any tool to draw what the interface should look like.
  + **Required deliverable**: prototype screen(s) using any tool you wish. The depth of this assignment is up to you.
  + **Improved deliverable:** For a higher grade, review any existing game app on your computer or phone or the Internet for ideas. Examples include but are not limited to:
    - clear feedback (sound and/or visual) during operation
    - increasing “levels of difficulty”
    - exciting design elements such as sound, color, animation
    - anything else you can think of that is useful and interesting.
* **Develop the Android app.** – I want proof of app development.
* **Deliverable:** A demo in class on a SmartPhone. Be able to flip the game 90o.

Submit the APK for your app, along with the source code. If version control was

used, supply the link to the repository. The source code can be in a zip file (as you have been doing) or a link to the repository.

Notes:

* + - Specifically name your app something fun, e.g. “SuperGameApp”.
    - There are Android game apps on the web --- don’t plagiarize. However, you can reuse ideas and cite them as references to give credit for other’s creative solutions.
* **Observations.** – Your thoughts.
  + **Deliverable:** document your app features and observations for this project.
    - Prepare a table that is a ‘solution overview’, e.g. Introduction, Game Objective 1 done, Game Objective 2 done, game resolution (e.g. final score or you saved the world).
    - Consider levels of game proficiency, e.g. novice to advanced.
    - Include a description of:
      * what work you performed,
      * any difficulty regarding this assignment (e.g. challenges),
* **References** – Cite references (must be non-zero); include web sites accessed to complete this assignment. To receive 20 of 20 on this assignment, reference(s) need to be included.

Extra credit if you wish to make this a multi-player (i.e. 2), mobile game using your technology you may have easy access to, e.g. BlueTooth.

Upload into Blackboard Learn a copy of the report by the due date specified. Make sure the report in Word has your name, date handed-in, CS399, Prof. Steven Jacobs in the upper right corner. Use file-naming convention: Lastname\_Firstname\_Project4-game-app.docx or something similar.