
MOBILE APPLICATION DEVELOPMENT

COSC25423

Android Game

Assignment 2 (30 marks)

You are to implement an Android game and you have freedom to come up with your own game ideas. The game can be one of the following types: trivia, adventure, role playing, educational and puzzle and you need to complete the game proposal using the given template for approval of development. Your game needs to demonstrate the following functional, non-functional requirements and other requirements:

Functional Requirements:

- Must provide the player a menu option to change the setting or to pause game. (Be aware that some devices don't have the hard menu button)
- Must allow the user to save and resume the game
- Must have some AI (Artificial Intelligent) for enemies/obstacles
- Must have different levels of difficulty and the enemies need to be smarter after each round
- Must detect internet connection and turn it on when storing scores on the cloud

Non-Functional Requirements:

- Store scores on the cloud
- Use soft-button or touch or hardware sensors for navigation
- Apply one game engine for your game
- Sound and animation
- Your Target Android Version should be 4.0 (API Level 14) in order to test with real devices provided by the course.

Advanced Functionality (Bonus Marks)

To receive these bonus marks your application must provide the following additional functionalities:

- Multiplayer or social game

**Social games are a structured activity which has contextual rules through which users can engage with one another. Social games must be multiplayer and have one or more of the following features: turn-based, are based on social platforms for providing users with an identity and are casual.*

Other Requirements:

- A requirement of this assignment is to write a “How-to page” document of a challenging technology/technique or algorithm that you encountered and used while developing your game.

What is in a “how-to” page?

A “How-to” page explains with examples how to accomplish something with Android games or requisite tools. For example, explain and give an example (code or screenshots) on how to navigate a character using hardware sensors. Do not plagiarize!

Structure of a “How-to” page:

- Introduction
- When should you apply this? (Optional)
- Advantages & disadvantages
- Requirements
- Steps & Screen shots
- Reference

Additional Information:

- You will be able to borrow a phone for installing and testing purpose. Please register with Ms. Di through di.nguyen@rmit.edu.vn !

Submission Instructions

You must create a folder under the shared COSC2543 Google Drive folder <http://goo.gl/TghJRv>. Folder name should follow this format sXXXXXX(StudentName)_sXXXXXX(StudentName)_GameName.

What must be submitted?

- The approved game proposal
- Your project: should be implemented using eclipse and exported as a compressed .zip archive.
- A `notice.txt` file (Selected game engines & usage of code/algorithms/3rd party libraries)

Do not use any other compression formats - use of other formats (e.g. tar.gz, RAR, etc.) may lead to delays in marking and/or a deduction of assignment marks.

Important Regulations

- You can choose your preferred game engines but need to write it down in your `notice.txt` file
- Where you do make use of other references, please cite them in your work.
 - Any usage of code/algorithms/3rd party libraries should be included in a `readme.txt` file