MHG420877

Coursework

Mobile & Ubiquitous Computing

Session 2016 - 2017

Plagiarism

Attention is drawn to the University regulations on plagiarism. Whilst discussion of the coursework between students is encouraged, the actual work has to be undertaken individually. Collusion may result in a zero mark being recorded for the coursework for all concerned and may result in further action being taken.

Bobby Law

Scenario

This coursework will test your ability to construct a mobile application.

Specification

The following minimum specification should be adhered to:

- A minimum of *three different* intents/layouts. The **MainActivity** *plus* **two** others.
- Parse an RSS feed from the internet.
- Read from a prepopulated database.
- Draw to the canvas
- Save the users preferences. (Showing the users preferences does not count as one of the intents/layouts)
- Include a menu.
- Include an *About* Dialogue.
- Display a suitable *map* with appropriate *markers* and *text*.
- Overall UI & layout consistency.

Extension

The above specification constitutes the core of the app. Extra marks (worth up to **15%**) can be gained by implementing ***more*** than ***one*** of the following suggested extension work:

Write to a database, change the map view, calculate the distance between two points on the map, use custom markers on the map, incorporate appropriate sounds, make use of the camera and/or other sensors etc.

Deliverables

The following should be submitted:

- Development Blog (15%) - must show the process of development from concept to fruition. Only visible to your Lecturer. (Use GCU Learn Journal/Blog facility)
- Use GitHub to create a code repository which should be visible to your Lecturer. GitHub can be found at https://github.com/ Also have a look at https://github.com/features/projects for GitHub features.
  - A cover page clearly stating: Name, Matriculation number, Course and the following disclaimer:

    I confirm that the code contained in this file (other than that provided or authorised) is all my own work and has not been submitted elsewhere in fulfilment of this or any other award.

    Signature.
- Documentation including:
  - An explanation of the code used to generate the app. This section should be written using a coherent paragraph structure and not bullet points (15%). Use your ***individual wiki page***.
  - All code should be *fully* commented.
  - Include a reference section indicating web sites, books etc used.
  - A set of wireframe UI layouts for the app. (10%)
- Create a short demo video of the app (no more than 5 minutes in length), which should be ***posted as your last blog entry***.
- Create an ***apk*** file for your app that can be tested on a mobile device

Submission

Part 1 – Wireframes

Submission of the wireframes should be made electronically via **GCU Learn Assigments** as a pdf document by **Thursday 3rd November 2016** no later than **17:00**. Late submissions will not be tolerated and will lead to the deduction of 10% of the total mark awarded.

Part 2 – Final Submission

Final submission of this coursework should be made electronically via **GCU Learn Assigments** (*zip* file of ***App*** and *separate zip* file of ***apk*** file) and **GitHub** by **Thursday 8th December 2016** no later than **17:00**. Late submissions will not be tolerated and will lead to the deduction of 10% of the total mark awarded.

For the GitHub submission of the coursework, you should create a branch called **MUC-Submission.**

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University regulations, codes & policies:
http://www.gcal.ac.uk/student/about/regulations/index.html

Plagiarism and cheating:
http://www.gcal.ac.uk/student/coursework/regulations/plagiarism.html

Marking Scheme

Marks for this coursework will be awarded on the following basis:

	Mark
Code	**Up to**
Intents/layouts	6
Read RSS Feed	5
Read from prepopulated Database	5
Draw to the Canvas	8
Save User prefs	3
Menus	5
About dialogue	3
Maps	5
Overall UI & layout consistency.	5
Sub Total	**45**
Documentation	
Code Explanation	15
Wireframe UI layouts	10
Development Blog	15
Sub Total	**40**
Extension Material	
Extension Material	15
Sub Total	**15**
Total	**100**