

Embedded Mobile and Wireless Systems (EWireless) 2016/2017

Assessment 2 Guidelines



Assessment 2 mark will be based on both oral assessment and online submission. You can use online feedback given on Learn for Assessment 1 in order to improve the quality of the submission.

Timeline

- Oral assessment will be carried out during Friday session on week 11 (7th April 2017).
- Online submission will be on Monday 4pm of week 12 (10th April 2017) through the Dropbox link on Learn. In order to give you time to incorporate further feedback you have received during the oral assessment into your online submission.
- Create two folders one for the application and the other for the guide. Copy the complete project file into the application folder. Add a word/pdf file of the guide into the guide folder. The simplest way will be to place these two folder into another folder and zip this. Upload this zipped folder.

Please Note that the Dropbox system is for submission only at the date set for online submission. It cannot be used for accessing your code at any time as this system is controlled centrally by the ETO.

Oral Assessment Component

Please make sure you have your application is already downloaded on a phone ready for demonstration to your assessor. Please also have your code displayed on a computer screen. The oral assessor will need to see a demo that will include the features that you have developed. The assessor will then proceed to ask you questions about your implementation with reference to your code to check your understanding. You will also be given feedback on the code so that you can improve your online submission. The oral assessment marking criteria is as follows:

1. Demonstration and presentation of your developed sensor based applications 35%
Demonstrating key features of the application addressing its key and distinct features. Addressing any distinct features that set the application aside from others developed by researchers or available in the market. This should not last more than 5-10 minutes. Imagine presenting your application to a customer or an investor.
2. Technical discussion on how the application was developed 30%
Mention any specific sensors used and any APIs used, explain how these were used to build the application. Mention any sensors or APIs that distinguish your system and sets it aside.
3. Quality and Originality of the mobile software developed 20%
Have you used any original design and /or techniques in your code that demonstrates innovation?
How did you address issues such as test?
4. Independence, research, and problem solving ability 15%

Online Submission Assessment Component

The online submission criteria are listed below:

5. Code quality 50%
 - Good use of comments overall the code for improved reusability and understanding by different software engineers for possible integration into larger applications.
 - Good code structure should consider the Methods, naming, spacing, etc.
 - Introduction to the main function in the top. State key APIs used.

- Elaborate within the body of the code on key functions. State any fixes used with a reference.
6. User/Programmer's guide 50%
- The following points should be covered and explained in your guide:
- Part 1 - For Users:
 - An easy and straight-forward guide on how to use the application and experience its full features and functionality.
 - Part 2 - For Programmers:
 - Application Interface and functionality introduction Sensors used and their implementation Sensor data processing and any algorithm used to achieve function. Principal methods/listeners implemented in the code
 - Extra performance (if applicable) and its realization should be explained for marking purpose only
 - Please add references.
 - Be contained on 4-5 pages of A4, flexible layout, within reason.
 - Any number of words, but font size not smaller than Times size 10. 5 pages of A4 cannot be exceeded, anything beyond will be discarded before marking.
 - Graphs / Charts / Tables can be incorporated – but EVERYTHING has to be contained within page limit.
 - Word processed documents most welcome, equivalent word-processed forms acceptable.

The final mark will be calculated out of 100% and the grade you will be given will be according to the following Grade Guide.

Grade Guide:

90-100	A1
80-89	A2
70-79	A3
60-69	B
50-59	C
40-49	D
30-39	E
20-29	F
10-19	G
0-9	H