

Module Title:	Web and Mobile Technologies
Module Code:	B9IS124
Module Leader:	Ehtisham Yasin
Stage (if relevant):	9
Assessment Title:	Develop a hybrid mobile application
Assessment Number (if relevant):	2
Assessment Type:	Practical
Restrictions on Time/Length : +/- 10%	N/A
Individual/Group:	Individual
Assessment Weighting:	70%
Issue Date:	03/12/2019
Hand In Date:	22/12/2019 (6:00pm)
Planned Feedback Date:	4 weeks after submission
Mode of Submission:	Online via Moodle

Students must submit their assignments on Moodle.

Assignment Objectives:

1. To develop a hybrid mobile application

Details of assignment brief

For this assessment you have to build a mobile application for a business of your choice. Your mobile application should be built using several familiar web technologies such as HTML5, CSS and Javascript and then seamlessly deploy it to platforms such as iOS, Android, and Windows Phone. This application should be touch friendly and provide actual functionality which users can take advantage of. You are allowed to use a UI framework like jQuery Mobile, Sencha Touch, Kendo UI or any other platforms discussed in the module.

The application must be implemented for at least one of the following platforms:

- iOS
- Android
- Windows Phone

NOTE: Your project must be your work. It is not enough to simply follow an online tutorial or another submission where your contribution cannot be validated. Your project idea must be unique.

Assessment Task (100 Marks) – Weighting (70%)

Your assessment will be assessed based on the following components:

- A completed hybrid mobile application, using the technologies discussed in the lectures. This must have all the necessary configurations and folder structures
(20 Marks)
- Include at least TWO appropriate plugins in your mobile app available from the plugin repositories discussed in the class. Examples of the plugins could be:
 - Geolocation
 - Camera
 - Device Orientation
 - Vibration
 - Contacts
 - File Manager

The plugins listed above are just a sample of those available. You should include plugins that are appropriate for your application and its purpose. The splash screen would not count for this requirement.

(24 Marks)

- Add a Splash Screen to your app suitable for your chosen platform
(12 Marks)
- Add icons to you app suitable for your chosen platform
(12 Marks)
- Using the frameworks discussed in the class, prepare a build for the mobile application platform that you've chosen. Deploy and test the resulting build file on an actual device or an emulator
(22 Marks)
- The application should be user friendly, consistent, error free and touch friendly when installed on a mobile platform or viewed on an emulator
(10 Marks)

Instructions for Submission

- Create a folder named with the module code, and include your student number e.g. ModuleCode_StudentNumber
- Include the final version of code (before build), and the resulting build file
- Compress your folder into .zip and submit using moodle link

Assessment Criteria:

Criteria/Mark	<40	40-49	50-59	60-69	70+
Mobile Application: 100 Marks (50%)					
Mobile App	Poor folder structure. Little or no attempt to include plugins, and missing other requirements	Some folder structure with some use of appropriate plugins with some basic splash screen/icons. Missing some requirements	Fair and consistent folder structure implemented. Majority of plugins and requirements completed appropriately.	Good folder structure and app build. Majority of plugins and requirements met to a good standard.	Excellent folder structure and use of the technologies discussed in the class. All plugins and additional requirement integrated in an excellent way.

General Assessment Submission Requirements for Students:

1. Online assignments must be submitted no later than the stated deadline.
2. All relevant provisions of the Assessment Regulations must be complied with.
3. Extensions to assignment submission deadlines will be not be granted, other than in exceptional circumstances. To apply for an extension please go to <http://www.dbs-students.com/Registrar/> and download the Assignment Extension Request Form.
4. Students are required to retain a copy of each assignment submitted, and the submission receipt.
5. Assignments that exceed the word count will be penalised.
6. Students are required to refer to the assessment regulations in their Student Guides and on the Student Website.
7. Dublin Business School penalises students who engage in academic impropriety (i.e. plagiarism, collusion and/or copying). Please refer to the attached referencing guidelines for information on correct referencing.

What is referencing and why is it necessary?

Please follow this link to the Harvard Style Referencing Guide - all referencing is required in this format.

http://issuu.com/dbslibrary/docs/harvard-referencing-guide/1?mode=a_p

The School of Arts generally use APA Referencing , information is available under DBS library guides on www.library.dbs.ie.