

Assignment: Mobile Applications Development

Due: April 30th 2015 17:00

Brief

The Irish Government's Department of Health has contracted you to create a cross-platform mobile application to help young professionals to track their daily calorie intake. They have two ideas about how the app might work. The first idea is that the app could simply display the calories in common everyday foods that young Irish adults eat. The second idea is that the app could let users input the amount of calories they are consuming. Of course, the app could use some combination of both ideas, and the Department of Health have indicated that they are even open to any new, innovative idea you might have for an app along these lines.

Setup

In order to begin this project you **must fork the GitHub repository** [ianmcloughlin/ionic-assignment](#). Here are the steps to do that:

1. Go to [GitHub.com](#) and log in using your username and password.
2. Once you're logged in, find the repository [ianmcloughlin/ionic-assignment](#). The quickest way to do this is to go to [github.com/ianmcloughlin/ionic-assignment](#).
3. Click the Fork button in the top right.
4. At this stage you have two options.
 - a. You can clone your forked repository to your own machine and work on it there. You use the git clone command to do this, together with the SSH link from your GitHub repository page.
 - b. You can download a zip file of the forked repository, and work on that copy of the project. You can do that by clicking "Download ZIP" at the bottom of your GitHub repository page.

How to submit

You should submit your project as a zip file to the Moodle upload link **for your group** by the deadline above. The zip file should be named using the format ID_NO.zip, where ID_NO is your GMIT student number. Note that your zip file will be many megabytes in size, and may take a while to upload. To avoid an extra-large file, ensure you do not add any platforms to your project. You can create your zip file in any of the following ways:

- You can zip your file in the normal way if you are developing in Windows.
- If you are developing using your virtual machine, you can sync your changes with GitHub and click the "Download ZIP" button on the bottom right of your GitHub repository page.
- Alternatively, you can zip your project directory using the "zip -r" command at the command line.

Plagiarism

All work submitted must be the students own or, where it is not, must be clearly referenced as being from an external source.

Grading scheme

The following is the grading scheme that will be used to mark your assignment. Students should seek a balance between each of the grading scheme categories, rather than trying trying to achieve a high mark in one category at the expense of the others.

Students can expect a grade of 20 out of 50, i.e. 40% for this project, if their submission is falls into the Acceptable column in all categories.

Category	%	Acceptable	Excellent
Comments	10	Each line of the code is written clearly and there are comments explaining what the code does. There is a README.md file in the project directory explaining what the app does.	The code is extremely well commented and clear. There are comments for every line, as well as more in-depth comments for each section of code. There is an in-depth README.md file in the project directory explaining what the app does and how it works.
Execution and performance	10	The code can be run as part of an ionic project using 'ionic serve', with no major issues.	The app is extremely quick and responsive, due to the elegant nature of the code and the insightful use of relevant design patterns.
User interface	10	The app is quite usable and it is clear how the user is meant to interact with it.	The user interface is easy to use and is visually appealing. Extensive use of styling technologies such as CSS or SASS is evident.
Difficulty	10	The app has some dynamic elements, allowing the user to interact with it.	The app makes use of a combination of advanced elements such as persistent data storage, tabs, side-menus, plugins and modal dialogs.
Source code management	10	There is evidence that the student has attempted to manage the development of their source code using standard tools.	A git repository was initialised in the directory of the project. Regular commits were made, and branches were used to add new features. The project is available on GitHub.
Total	50		