Rich Web Applications : Assignment 2 Group Assignment (35%)

Given on: **Thursday 6th November**

Deliver on: **Thursday 4th December**

Learning Objectives

The purpose of this assignment is for the learner in groups of two to create a professional mobile application using the desktop application that was deployed in assignment 1.
The technologies used to achieve this goal are HTML, CSS, JavaScript, jQuery for mobile and XML/JSON.

Assignment

The owner of <anyname> is now very impressed with the upgraded web site.(I hope..) However given the recent increase in the use of smart phone technology, he/she would now like to make this site more mobile friendly.
You (in your selected groups of 2) are now requested to create a mobile application from one of the web applications that you have created in assignment 1.
You may also select a different topic or create your own app.
However it must include the features listed below.

Detail

- Decide on what features from Assignment 1 should be included in the mobile version.
  You as a team should decide on the features and be in a position to defend your decisions during the presentation.
- Ensure that all features that are deployed are mobile friendly.
- Implement jQuery Mobile Page Architecture including page transitions
- Include Headers, Footers, Navigation Bar, Buttons, Button Icons
- Include some content as follows:
  - Modify some of the content so that it includes lists.
  - Include an information page using dialog.
  - Include display of content using a JSON feed, you can use Wordpress, blogs etc.

- Deploy the **two** of the following APIs
  - YouTube
    - Select various videos related to your topic (or create your own and upload to YouTube).
    - Extract the data using a JSON feed
    - Read in the feed and display data about it in a grid format.
    - Create a video page so that a video can be played directly without linking to the YouTube site.

  - flickr
    - Upload some photos relating to the topic to flickr.
    - Extract the data using a JSON feed
    - Display the photos in grid format on your application
    - Ensure photos are clickable to larger versions

  - Twitter
    - Include relevant twitter feeds on your site

- Implement a Facebook link and like…..

- Create an icon for your application.

Hosting Your Site

- You need to host your site using a domain name from digiweb or an alternative provider, http://www.digiweb.ie/studentoffer/
- You should have a home site for the desktop version and if selected from mobile, it should direct to the mobile version.

Report:

- Write a report that includes the following:
    - Abstract – Project Summary
    - Design of the mobile application
        - How you went about designing the mobile application especially the transfer from desktop to mobile.
        - What features you decided to implement from assignment 1 and why.
    - Working application
        - Describes how this application works and in particular how the required features are deployed in the application.
    - Who Did What
        - Provide a summary describing the features that each team member implemented
    - Screen prints.
    - What you learned from this project
- The report should have a title page, table of contents, page numbers etc.

Marking

Marks will be allocated for the design, coding (including the features listed), presentation of the project and the report.

Deliverables:

1) Create a folder in the format <student no>-<surname>-<Assignment2>.
2) Copy the report and source code into the folder.
3) On or before the due date upload the folder to Moodle.
4) You only need to upload one version per group to Moodle

DEMO

Each group must present their application in the lab week beginning 8th December.
This will involve presenting the application on a hosted site or using an emulator.

MARKS WILL BE LOST FOR LATE DELIVERY OF ASSIGNMENT – 10% FOR EACH DAY LATE.
NO ASSIGNMENT WILL BE ACCEPTED AFTER THURSDAY 11th DECEMBER.

Academic Honesty

*You may help each other freely to complete labs, as the purpose of the labs is to increase your understanding. This, however, this does not mean that someone else can do your lab work for you, or that you can do someone else's work for them. Any work that you submit for continuous assessment or assignments must contain a significant contribution by you. Any help you receive from someone **must be acknowledged** in the work submitted. Failure to acknowledge the source of a significant idea or approach is considered plagiarism and not allowed.*
Academic dishonesty will be dealt with severely.
At a minimum, you will receive a mark of zero for the assignment.