Rich Web Applications : Assignment 1

(50%)

**Given on: Thursday 2nd October**

**Deliver on: Thursday 6th November**

**Learning Objectives**

The purpose of this assignment is for the learner to create a professional and engaging web application that will enhance the user experience when using this app. The technologies used to achieve this goal are HTML, CSS, JavaScript, jQuery and XML/JSON.

**Assignment**

**Summary of Brief**

You are asked to create a web application from an area that you are interested in such as surfing, football, music, dancing, games, etc. or just simply provides information about a particular hobby.

**Marks will also be given for a real-world application.**

**Detailed Brief**

The following is a brief of what is required from a user’s perspective:

The web application should be designed using wireframing and the jQuery Themeroller. You also need to take into account various design features such:

* Who is target audience?
* What is the message?
* What are the specifications of the project?
* 8 design principles
* Creative direction, colours, fonts, website designs, brand name etc.
* Features that are applicable to your application

The user would like details summarised in a list like fashion with some subshading. All documents such as Word and email should have links.

Any data shown in tables should be shown in a professional manner.

Your web site should be accessible to all users including those with poor eyesight. You should also demonstrate how you would display items in a compact space such as table of contents or an accordion widget.

Images should be rotated. It should also be possible to view an enlarged image where an image is selected. Mouse-over tooltips should be included.

Use Google maps to identify the location of your business

Show a marker for your business which includes a description of the business and an image. Allow the user to get directions from one location to your business by customising Google maps, ie avoid using a direct link to Google maps.

Demonstrate the use of AJAX to read a JSON file, ie show how only part of the page is updated using AJAX.

Include 4 features from jQuery UI library including the themeroller.

Use various features from the jQuery library that will enhance your application, such as the navigation bar etc.

MARKS WILL BE AWARDED FOR ALL FEATURES DESCRIBED IN THE ABOVE PARAGRAPH.

**Report:**

* Write a report that includes the following:
  + Abstract
  + Design of application – How you went about designing the web site, including screen design, etc.
  + Wireframing that includes the basic illustration and structure of items on the web pages.
  + Describes how this application works and in particular how the required features are included in this application.
  + Include some screen prints in the report.
  + What you have 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), presenting the project, the report and creating a project that is a real-world application.

**Deliverables:**

1. Create a folder in the format <student no>-<surname>-<Assignment1>.
2. Copy the report and source code into the folder.
3. On or before the due date upload the folder to Moodle
4. SUBMIT A HARD COPY OF THE REPORT TO ORLA ON THURSDAY 6TH NOVEMBER

**DEMO**

Each person must present their application in the lab week beginning 10th November

**MARKS WILL BE LOST FOR LATE DELIVERY OF ASSIGNMENT – 10% FOR EACH DAY LATE.**

**NO ASSIGNMENT WILL BE ACCEPTED AFTER THURSDAY 13th NOVEMBER.**

## 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.***