IS221 Assignment 2   **Semester 2, 2017**

Creating a Web Site using ASP.NET Technology

Due: 11:55 PM, Friday 19th May (All Submissions)   **Weight: 20%**

Aim: To develop a responsive, dynamic Web site using XHTML/HTML5, CSS and ASP.NET

Objectives

The assignment will allow you to demonstrate and exhibit that you:
- can analyze requirements and design a web site.
- have understood how to produce a responsive and dynamic site using XHTML/HTML 5 and ASP.NET.
- can apply cascading style rules to control the appearance of a Web site.
- appreciate how to lay out the code you have produced in a way that conforms to a provided standard.
- have understood the basic principles of website design and have applied these to this exercise.

What to do and submit:

In assignment 1 you/your group designed a website for a selected client.

In this assignment you/your group are to implement the website design submitted for Assignment1. The steps below outline what you/your group need to do for Assignment 2.

1. Your group will first create a PowerPoint presentation that summerises the **Web Site Specification report you did in Assignment 1** and this will be submitted via Moodle Assignment 2 Drop-Box. There will be one submission per team, that is, any one member of the team may submit the report using his /her own Moodle account. The report must be named: **Group##_WSSR.pptx** where **##** is your group number, for example, **Group01**, **Group02**, **Group03**, …, **Group14**, …, etc.

2. The content of your PowerPoint presentation will summerise your Assignment 1 and demonstrate how the website design is implemented. Any changes made to the website design in Assignment 1 will need to be stated together with reasons for such changes.

3. Your group will also need to submit an archived (zipped) version of your entire website. This will also be submitted through Moodle. The archive (**.rar** or **.zip**) file must be named **Group##_Site.zip.** Naming is similar to #1 above.

4. Your group will be required to prepare a 3 minute promotional video for your website. This video should capture the essence of your website and provide answers to questions such as:

    a. What is the website about?

    b. Why is the website important?

    c. Who is the website targeted towards?

   Your video should be uploaded to YouTube and the link to it provided in your PowerPoint presentation.

Website Content and Functionality:

The following are some broad areas of the content that your website **can** have. Your group is most welcome to **add** more areas of content. Your group will be responsible for producing the actual content to be placed on your website.

1. You must use the appropriate **name** on your Web site.
2. Visitors will only be able to see your Home Page and selected Web pages as you wish. To view the remaining Web pages on your site, one has to login or register first.
3. One of the pages should be about your group members, the developers:
   - Profile
   - Interests
   - Likes/dislikes

4. Resources – add **at least** 3 types of resources for which registered members can access.
   - Links to related resources and documents appropriate to your site.
   - Files for downloading, online viewing and so on.
   - Photos, videos upload or download and so on.

5. Add relevant functionality to your sites based on your assignment 1 website design.
   - Your Web site must have a **login**, **signup** or **registration**, **feedback** and **suggestion** features.

6. Feel free to add additional contents and functionality as you wish.

7. Supporting Database
   - Demonstration of the underlying database design to support implemented web forms

8. Responsiveness of the website
   - Your website must be designed and implemented using responsive web design

9. Website security
   - Discussion of identified potential security risks to your website and how to mitigate them

Technology:

- The entire web site must be developed using **ASP.NET** technology with **Visual Basic** as the programming language.

Marking Distribution:

Marking of this assignment will be mostly based on your presentation, video and website demo. Submitted work is used to confirm that you have completed your assignment.

Website specification PowerPoint Report and Presentation: [5%]
- Students will be required to summarize the Web Site Design in Assignment1 and demonstrate how it is implemented in a **PowerPoint** presentation.

Website promotional video: [5%]
- Students will be required to create a 3 minute promotional video that promotes their website and answers the questions: what is the website about, why is it important and who is the website targeting.

Web Site: [10%]
- This section will be assessed based on the marking guidelines below.

Marking Guidelines:

For your website, some of the things that will be considered for assessment are:
- Originality and creativity.
- Adhering to style guidelines learned in this course.
- Adhering to ASP.NET development guidelines.
- Navigation, ease of use, intuitive, meeting the site objectives, content appropriateness.
- Content (suits audience expectations, level of interest).
- Structure and Layout of pages (partitioning into sections/pages, links functioning, appropriate navigation between pages)
- Use of XHTML/HTML 5 and CSS (appropriate use of block-level and in-line elements, appropriate use of style rules, code validates correctly
- Database structure that supports required functionalities
- Security measures

Do not restrict yourself to the above list. Feel free to do **more**.

Web Site Specification PowerPoint Report Structure

1. **Introduction:** Brief introduction of your project.

2. **Content Goals:** Identify the content goal. Note that some sites may have more than one content goal. State any changes if any to the Content goals stated in Assignment 1. Include screenshots of the website features that demonstrate the content goal/s stated.

3. **Audience:** List the site's target audience and the needs of the different audiences. Describe the audience based on gender, age-group, and nationality.

4. **Site Content and Functional Requirement:** This may be done by answering questions such as:
   a) What pieces of content does the site offer? List the different web pages of your site and what content each page contains. State the reasons for having the web pages on your site e.g. Why does your site require a login page etc.
   b) What sorts of functionality are provided? State any changes made to functionalities stated in Assignment 1 and reasons for such changes.
   c) Any security measures that need to be taken into consideration for any of the site features/functionalities and reasons behind them.
   d) Explanations of how the functionalities work e.g. how does your login page work?

5. **Site Structure:** Include screenshots that demonstrate how your site implemented the site structure design stated in Assignment1. State any changes if any and reasons for such changes.

6. **Site Navigation:** With the aid of screenshots explain how your web site will allow the user to answer navigation questions such as:
   a) Where am I?
   b) Where can I go?
   c) How do I get there?
   d) How do I get back to where I started?

7. **Layout of your web site:** With the aid of screenshots, illustrate how the page template stated in Assignment 1 is implemented. State the areas of active/passive white space used. State any change/s made to your website layout from Assignment1 and reasons for the change/s

8. **Testing** – Test your website with different browsers. You should indicate the browsers your web site was tested with. Indicate the browser that bests works with your site. For browsers where your website does not appear properly, indicate the areas that are not displayed properly.

Assignment Clarification:

It is expected that students will seek clarifications regarding this assignment.
- For any such clarification, you may post a message on **Moodle Discussion Forums** under the **Assignment 2 Discussions Topic** only. Any message relating to the Assignment 2 placed under a different topic **WILL NOT** be looked at or answered.
- You are **not** allowed to share/discuss your Assignment on these forums. Students must refrain from placing their assignments on the discussion forum. Students found doing this will be referred to the Disciplinary committee and will also be awarded a mark of ZERO.
- Before posting a message on the forum, do check out earlier posting and see if what you are about to discuss or ask have been posted by somebody else. This is to avoid repetition of queries and discussion on the same topic. I suggest that you seek help first from us and only use the forum when you cannot find any of us (I and the tutors).

Plagiarism:

- Plagiarism is a common problem in written work at USP and this has serious implications to your work.
- We will be using **Turnitin** in Moode to check your Web site Specification report.
- Please take time out to read the **Assessment Regulations** in detail which are stated on the FSTE Teaching & Learning webpage. The FSTE Teaching & Learning webpage can be accessed using the URL: http://www.usp.ac.fj/index.php?id=6868.
- Any kind of plagiarism or cheating detected or found will lead to a **ZERO (0)** score **AND** your group will be subject to disciplinary action.
- Discussing is permitted however you must avoid giving your working copy or the final assignment files to anyone. This increases the risk of your assignment being cited as a plagiarized work.

NO <u>LATE</u> ASSIGNMENT – PRESENTATION, SUBMISSION WILL BE ACCEPTED OR ENTERTAINED.