

## **ICT101 Introduction to the Internet and Web Development**

### **Assignment 2: Website Design Project 1**

#### **Designing a Website using HTML5 and CSS**

## 1. Assignment Description

In this assignment, you are required to design and develop a website for a chosen organization. You must use basic and advanced HTML5 and CSS features in designing this website. The weekly class activities and exercises will help you to acquire the knowledge required to complete this assignment. It is highly recommended that you attend lectures and complete your exercises regularly.

## 2. Learning Outcomes

This assignment covers the following learning outcomes:

**LO3:** Develop simple web pages using and demonstrating basic aspects of HTML5, CSS3 and JavaScript.

**LO4:** Design effective and user-friendly simple web pages, embracing usability principles and adhering to style guides.

## 3. Submission Requirements

This is an individual assignment. You must discuss and finalize the chosen organization with the instructor in week 4. Do not start working on the assignment before taking approval from the instructor. Submit all your code files in a zip folder on Moodle. You can upload your website on any free hosting website and provide the link of the website in Moodle. The deadline for submission all files on the moodle is by week 9. The assessment carries 25% weightage and is marked out of 25.

## 4. Detailed Submission Requirements

You can design website for any organization e.g. hospital, bank, school, university etc. However, you must adhere to the following requirements when developing your website.

### 4.1 Home Page Requirement

- The filename for homepage should be “index.html”.
- It must contain a short introduction of your organization.
- Make this page more creative than the rest of your web pages. Add images and other media so that it is visually appealing.

### 4.2 Contact Page Requirements

- Give this page an appropriate filename, title, heading (and subheading if required).
- You should include relevant text with links to contact you such as email and social media.

- This page must have an HTML Contact Form using the <form> element: It must:
- Be well-designed and styled with CSS
- Use HTML5 built-in form validation
- Output error messages when there are user input errors.

### **4.3 Requirements of Four additional web pages**

- In addition to the home and contact pages, you are given creative freedom to design and develop the rest of your website by yourself.
- You need to design and develop four more web pages for your website that provide further details about your chosen organization.

### **4.4 General Requirements**

- Give appropriate filenames, titles, headings (and subheadings if required) related to the content. Use at least three pieces of media (image/video/audio).
- To identify the website as your chosen organization, provide a relevant heading / titlebanner and/or image/logo.
- There should be a clear, intuitive and consistent navigation structure on the website. You need to think about how you will provide navigation to the user, and whether some pages may be categorized together or not.
- An appropriate and intuitive footer must be included in your website.
- You are not allowed to use any existing templates, or frameworks such as bootstrap etc. You will receive a ZERO score for HTML5 and CSS marking criteria if you do so.
- You are expected to create your own website from scratch using HTML5 and CSS (Take help from lab exercises but do not use design or layout from lab exercises).
- Do not use any server-side scripting languages, such as PHP etc for this assessment.
- Your design should focus on design rules learned during this course such as
  - Rules of good visual design
  - Usability guidelines related to colour, typography, placement of objects, readability and balance.
  - A solid understanding of the use of other elements such as; contrast, white space, layout, alignment, etc.
  - All text should follow the rules of writing for the web.

### **4.5 HTML5 Requirements**

- All your html files must use HTML5 syntax.
- The structure of your website should be built using HTML5 tags styled with CSS where applicable.

- Any HTML <form> used on the site should be well-designed and styled with CSS. Functionality of such forms will be limited but they should be fully designed, and may contain data validation, error messages using built-in HTML5 form validation.

#### 4.6 CSS Requirements

- All content should be formatted and styled using an external CSS. A max of 2 external stylesheets are allowed.
- Must incorporate at least THREE of the CSS3 styles in a way that improves your web design: Transitions, Transforms (scale, skew, and/or rotate), Rounded Corners, Multi-Column, Opacity, Shadows, or Gradients.

#### Grading Rubric

| Criteria                                | Fail<br>(0-49%)   | Pass<br>(50-64%)  | Credit<br>(65-74%)   | Distinction<br>(75-84%)   | High<br>Distinction<br>(85- 100%)                              |
|---|---|---|--|---|--|
| Functionality<br>(10 marks)             | Website is barely functional with major errors or omissions | Website meets some of the functionality specified with more than one major error and/or more than one major omissions | Website meets most of the functionality specified with one major error and/or one major omission | Website meets most of the functionality specified with minor errors and/or minor missions | Website meets all the functionality specified                  |
| Layout and Navigation<br>(5 marks)      | The layout and navigation are confusing                     | The layout or navigation is confusing   | Good layout and navigation   | Very good layout and navigation, close to professional rules and standard                 | The layout and navigation are professional                     |
| HTML5 and CSS Requirements<br>(5 marks) | All HTML5 and CSS requirements are not met                  | Some of the HTML5 and CSS requirements are met with more than one major omissions                                     | Most of the HTML5 and CSS requirements are met with one major omission                           | Most of the HTML5 and CSS requirements are met with minor omissions                       | All HTML5 and CSS requirements are fully met with no omissions |
| <b>Total Marks out of 20</b>            |   |   |  |   |  |