

IT6012 Web Fundamentals Project

Semester 1 2023 – 2024

Deadline: Sunday 15th of December 2023 **Time:** 11:55 PM **Weight:** 35%

Learning Outcomes Assessed:

1. Design and structure a multi-page website.
2. Implement consistent and maintainable styling and page structure for a website.
3. Provide user interactivity in a website.
4. Demonstrate knowledge of the fundamentals of website implementation.
5. Follow ethical and legal best practices in web design and development.

Project Overview

- Your task is to design and implement either educational, Informational, commercial or Institutional website.
- You must design and implement the entire website from scratch.
- **The use of web builders and/or templates, as well as AI-based tools for generating web sites and project narratives, is strictly prohibited.**
- You will create a mock-up designs accompanied with justifications for your design decisions.
- You will also write a critical reflection describing your experience throughout the project.

Project Description

In group of maximum four, you will design and implement a classified website to the following requirements:

1. You must have exactly 6 pages – No more, no less.
 - a. **Home:** this is your home page (landing page) with an overview of your chosen topic.
 - b. **[Sub-topic 1]:** this page will display content for your first sub-topic.
 - c. **[Sub-topic 2]:** this page will display content for your second sub-topic.
 - d. **[Sub-topic 3]:** this page will display content for your third sub-topic.
 - e. **Making of [website title]:** this page will contain your mock-ups and justifications.
 - f. **Our story:** this page will contain your critical reflection.
2. Your home page must contain an overview of the website requirements for the topic you have selected.

3. Your home page must also include a section/form called “Register Your Interest or Register your details”.
 - a. The form must include First Name, Last Name, Mobile No and E-mail input fields.
 - b. All fields must be validated against the following entries.
 - i) First Name and Last Name should have at least 3 characters
 - ii) Mobile No, must contain exact 8 digits
 - c. An appropriate confirmation message must be displayed to the user upon successful submission.
 - d. An appropriate error message must be displayed to the user should the form submission fails the validation.
 - e. The error message must clearly indicate what is wrong with/missing in the form submission.
4. Each [sub-topic] page must display different content along with user_name or First Name saved from first page, however their structure may remain the same.
5. Your “Making of” page must include all your mock-ups along with justifications for your design decisions. Your justifications must cover the following:
 - a. Impact of design and choice of colors on the delivered content
 - b. Impact of HTML, CSS, and JS code on maintainability of website
6. Your “Our Story” page must include a critical reflection (500 – 1000 words) covering the following:
 - a. A summary of the work you have completed for this project
 - b. Any challenges you faced and how these were overcome
 - c. What you learned about building websites by working on this project
7. You must credit the author(s) of each piece of text and/or media you include in your website.

Phase 1: Design

Discuss among your group the topic of your educational, Informational, commercial or Institutional website and agree on the content you would like to display. Once agreed, you will create low-fidelity mock-up designs that reflect your website’s overall design and structure. These mock-ups do not need to look identical to the final product, rather a basic representation of the structure – where and how each element will be placed. Most certainly, these mock-ups **MUST NOT** be screenshots of the final website and must not be done in HTML.

Recommended Tool: Google Drawing

Phase 2: Implementation

Start implementing your website based on your proposed designs. Ensure that you include all required pages within one folder with your website’s name, and that all images are inside a subfolder called “images”. Make sure that all pages are given appropriate and meaningful names.

Your final website will contain:

- Classified content (Your chosen topic – core content of website)
- Mock-ups & Justification (Separate dedicated page called “Making of [website name]”)
- Reflection (Separate dedicated page called “Our Story”)

Recommended Tool: Brackets / Notepad++

Submissions

The project will culminate in one final submission, which is your website folder.

Your submission must be a .zip file containing:

- Your website folder (named [your website’s title])
 - home.html
 - [sub-topic 1].html
 - [sub-topic 2].html
 - [sub-topic 3].html
 - making-of.html
 - our-story.html
 - css-file(s)
 - /images
 - All website images

Deliverables :

1: Website Design Page Mock-ups

CILO-1

A low fidelity mock-up page design is completed for each page in the proposed site. This component will be submitted and graded along with the completed project. (Note: as this is a design phase deliverable it should not be 'reverse engineered' by using screen shots of completed pages - this will attract a zero grade for this component.) **[20 marks]**

The maximum mark will be set if the following conditions are met

- The general information is effectively introduced and promoted
- The specific information within the general information category is effectively introduced and promoted
- How the site will encourage users to use and re-use it
- How the site will be designed to maximize developer maintainability for future upgrades
- The site effectively promotes the information by means of visually appealing design
- Navigation is consistent and easy to use

3. Completed Website

CILO-1,2,3,4,5

A folder containing required HTML files, a CSS file and image files. The folder should be uploaded to Moodle by one member of the group. **[75 marks]**

The maximum mark will be set if the following conditions are met

- All the pages are created and named appropriately
- Texts and images are effectively used
- Structure of pages does not look too empty or overloaded
- Consistent and easy-to-use navigation is provided
- Styling and scripting parts are placed appropriately (JavaScript code in the -section or separate .js-file, CSS-styling in the external .css-file)
- All user entries are parsed and displayed appropriately

4. Critical Reflection Document

CILO-4,5

Write a critical reflection which outlines the following using specific examples from the project:

- A summary of the work
- Any challenges you faced and how these were overcome
- What you learned about group project work by working on the project
- What you learned technically by working on the project

Word Count: Min: 500, Max:1000

[5 marks]

Total: [100 marks]

Important Notes: -

- Requests for extensions should be made before the deadline to Course Coordinator. Extensions will only be approved with valid reasons, up to a maximum of 2 calendar days. You are only permitted a maximum of one extension per course per semester.
- If the assessment is submitted late the maximum result the student can achieve is 60%
- The cut off time for submitting an assessment will be 3 calendar days after the assessment is due. A student submitting after 3 calendar days will get 0%.