



**B.Sc. in Computing  
Web Development Client Side  
Mini-Project – 50%**

**Submission:**

- **Submission Date: Tuesday 16th April**
  - **Upload to Moodle a zipped file containing:**
    - All wireframe, HTML, CSS and JavaScript files and images
    - All CSS, JavaScript files and images should be in separate folders, eg css and js

**You must demo your project in a lab session.  
Failure to demo will attract zero marks.**

**You must work in teams of two for this project.**

**Learning Objectives**

The purpose of this assignment is for the learner to create a professional website.

It is an opportunity for you to showcase all (or most) of the practical skills that you have learned during the semester and integrate them in a cohesive manner.

**NOTE:**

All text in your website must have been written by you.  
Do not copy and paste text from any website into your HTML pages.

**Late Submission**

- A penalty of 10% will be applied to the project for each day it is late.
- The project will not be accepted after Sunday, April 21st, unless there are mitigating circumstances.

## Team Submission

The work must be divided evenly between the two team members.  
An example of the division of work is as follows:

Member 1

Home page, products page plus calculations and checkout detail.

Member 2

Shipping details form, jQuery form validation, JSON data/products page, gallery page.

Create one screen design document per project.

Both members should work together on the screen design.

## Assignment Brief

You have been asked as a Web Developer to create a web site that will provide an online presence for a given products company.

The products company may specialise in one of the following areas:

- Books
- Music
- Computer Games
- Computer Equipment
- Beauty Products
- Clothes
- Footwear

You may select your own area but please inform the lecturer about your choice.  
You may also use the topic of choice from Semester one(web development) assignment.

Your website folder (Assignment2) should contain the following:

- index.html (home page)
- all other .html files
- .doc (Word document containing your wireframes from mockflow)
- /images (folder directory for all the images)
- /css (folder directory for your CSS file(s))
- /js (folder directory for your JavaScript files)

#### Note

**Do not submit screen prints of the website for the design.**

**Take a screen print from mockflow or draw.io tool, ie you need to design the web pages using a mockflow tool.**

## Assignment Detail

### Screen Design

Before the coding process is started, a screen design process should be completed. This will provide a detailed plan for development showing the overall layout of the web site.

You are required to create a mock-up website that contains at least 3 pages using an online mock-up generation tool (eg mockflow.com or draw.io).

**Include the home page, product page and user details page for the screen design.**

The screen design should be based on the following specifications:

#### Note

The screen design of each page should show proof of using a mockup tool.

**Screen prints of the coded website will attract a zero mark.**

#### Home page

This page should be created using the grid layout.

It should contain a responsive menu with all navigation options, some detail about the company, at least one image and a footer with contact details.

#### Products Page

The products page should provide the user with the option to purchase five different products.

The product detail should include the following:

- product image
- short description
- price
- quantity purchased.

Use a web API to display the product image, description and price, ie use images etc from this API.

This will require the use of JSON to access the data.

If there is no description and/or price data on the API, it is acceptable to create your own description and/or price..

Refer to the rubric marking scheme for further details.

When the user selects 'checkout', it should provide detail about the total price plus shipping costs and the overall total.

Once the user is happy to purchase and clicks the 'confirm' button, another page should be displayed asking the user to enter the following shipping details:

- Name
- Address
- Contact number
- Email address.

Using jQuery validation, ensure that name and address are entered and that the email is a valid email address.

When the user selects the 'confirm' button a message is displayed 'Thank you for your order'.

### **Gallery Page**

Use a jQuery plugin to create a slideshow or a photo gallery that will display images about the products.

### **Web Coding**

Following on from the screen design, you are now required to complete the coding process. Build the requested web site using the above pages guide.

### **General requirements for the site include:**

- Use the project to demonstrate your knowledge of HTML5, CSS, JavaScript and jQuery.
- The entire web site should be a responsive web site, ie it should look good on all devices.
- Use media queries to enable a layout that changes dynamically based on screen size
- Site should exhibit strong design, user-friendly navigation, clear and consistent layout, and professional appearance.
- Site should exhibit proper use of background, font, and colors.
- Site should be free of grammatical/spelling errors.
- All images must have alt tags, be well placed, and working correctly.
- Ensure sizing of images is correct
- Each page must have an appropriate title.
- Each page must have a consistent navigation menu containing functional links to all other pages.
- All code should be commented and indented
- All styling should be done using an external style sheet.
- All JavaScript should be in an external file.
- All code should be validated using the validator for CSS and HTML5.

## Submitting your Finished Assignment

Create a zip file in the format <student no>-<Assignment2>  
On or before the due date (see above) upload the zipped file to Moodle.

The zipped file should contain the following:

- index.html (home page)
- all other .html files
- <product>.doc (Word document containing your mock-up design – proof of using a mockup tool should also be included)
- /images (folder directory for all the images)
- /css (folder directory for your CSS file(s))
- /js (folder directory for your JavaScript files)

## Marking Scheme

The rubric will be displayed when you enter the Assignment2 Upload section.

## Academic Honesty

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 according to the university's plagiarism policy.