A picture containing logo

Description automatically generated

Distance Learning Activity 2

ICTWEB441 Produce basic client-side script

ICTWEB518 Build a document using extensible markup language

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# 1. Instructions to Learners

## Purpose of this distance learning activity

This distance learning activity allows the learners to practice the lessons from week 2 by creating short XML documents and JavaScript codes.

## What you are required to do

For this distance learning activity, you are required to:

* create short, well-formed, and valid XML documents
* create short dynamic pages with JavaScript

## Resources

* Please refer to the learner guides.

## How to submit your Distance Learning Activity

**File naming convention**

When submitting your Distance Learning Activity, use the following naming convention

* Unit of Competency code (i.e., ICTWEB441\_518)
* ‘DLA’ followed by the week number (ie., 1)
* Your first name and initial of last name. Capitalise only the first letter of names. Then insert a dash, followed by submission attempt.

Hence as an example of incorporating the three points above your file name or subject line should appear this way: *ICTWEB441\_5187DLA 1 – JessieA #1*

Create a website project folder called using the naming convention specified above. This folder will be used to store the following

* This distance learning activity
* Other website project folder as required by the questions below

Once completed, compress the website project folder in zip format and then submit. Always submit your distance learning activity on time by the due date. Your completed distance learning activity must be uploaded onto Moodle by 11.55pm on Sunday of the current week.

**2. Questions**  
Answer the questions below using the space provided:

* Answer all parts of each question
* Follow further instructions below
* You may use various sources of information to inform your answers, including your resources provided by ACBI, books, and online sources. You must acknowledge and cite your sources.

## Part 1: JavaScript

Instructions: Create a webpage for each item. Use JavaScript as the programming language.Include screenshot of the output in the space provided.

| 1. **Create a web page that displays all first names of students in an array called “students”. For example:**   **Const student = [“Peter”, “Paul”, “Mary”];**  **The web page should display:**  **Student 1 is Peter.**  **Student 2 is Paul.**  **Student 3 is Mary.**  **Use for loop to display the names in the web page.** |
| --- |
| *Paste the output screenshot here.* |

| **2.Create a Bootstrap webpage with one button called “Submit”. When that button is clicked, a Bootstrap alert message with dismiss button should appear above the button that displays “Submit button clicked!”**   |  | | --- |   Note: For the alert message that can be dismissed, refer to this link:  https://getbootstrap.com/docs/5.0/components/alerts/ |
| --- | --- |
| *Paste the output screenshot here.* |

## Part 2: XML and JavaScript

Instructions: Express each of the following items into XML document with DTD. Show that you have validated the XML with DTD by including the screenshot of your validation below each item.

| **1. Website menu**   | **Page Name** | **url** | | --- | --- | | Home | index.html | | Products | products.html | | About | about.html | | Contact | contact.html |   Express the table into a valid XML document with DTD. Then create a web page with Bootstrap navbar having the menu items and url from the xml document. Refer to the link below for the Bootstrap navbar:  https://getbootstrap.com/docs/5.0/components/navbar/  When another menu item is added to the xml document, it should automatically appear in the navbar. |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *Paste screenshot of your validation here…* |