A picture containing logo

Description automatically generated

Distance Learning Activity 3

ICTWEB519 Develop complex web page layouts

ICTWEB520 Develop complex cascading style sheets

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Version: 22.1

Date Modified: December 2022

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# 1. Instructions to Learners

## Purpose of this distance learning activity

This activity requires the learners to code in HTML and CSS based on the following topics:

* Tables
* Forms
* Image Gallery
* Navigation Bar
* Validate CSS
* BrowserStack
* AChecker
* WAVE browser extension

## What you are required to do

For this distance learning activity, you are required to answer questions and create small web pages.

## 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., ICTWEB519\_520)
* ‘DLA’ followed by the week number (ie., 5)
* 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: *ICTWEB519\_520* *DLA 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**

| **Question 1. Tables**  Create the table below as shown with the following specifications:   1. Each rows should have alternate colors: light grey and white as shown. 2. When hovering a row, the color of the entire row will be #ddd |
| --- |
| | **Company** | **Contact** | | **Country** | | --- | --- | --- | --- | | **First Name** | **Last Name** | | ACBI | John | Doe | Australia | | Apple | Maria | Anders | USA | | Island Trading | Hellen | Bennet | UK | | Centro comercial Moctezuma | Francisco | Chang | Mexico | | Paris spécialités | Marie | Bertrand | France | |

| **Question 2. Responsive Form**  Create the table below as shown with the following specifications:   1. First Name and Last Name are required fields 2. The country has a drow down button with at least three countries of your choice 3. When the screen is less than 600px wide, make the two columns stack on top of each other instead of next to each other. |
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| **Question 3. Image Gallery**  Create an image gallery with at least 15 images with an example shown below. The image should be landscape. The width of each image should be at least 200px. The gallery should be responsive. |
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| **Question 4. Navigation Bar**  Create a horizontal navigation bar with links below:   * Home * Products * Register * About   Below are the specifications:   * Background-colour: any shade dark grey * Font-colour: white * When hovering on a menu item, the background-color should be black. |
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| **Question 5. Transform**  Create a blue square that is rotated to 45 degrees. |
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| **Question 6. Validate CSS**  Using a web browser navigate to the [W3C CSS validator](https://jigsaw.w3.org/css-validator/).  Validate a CSS file that you have saved on your device to see if there are any CSS validation errors. Then check a web page for a live website of your choice to determine if there are any CSS errors for that web page.  Provide one screenshot of your validation below. |
| --- |
| Validate CSS from Question 2      Validate CSS of live website <https://www.w3schools.com/> |

| **Question 7. Use BrowserStack**  Navigate to [BrowserStack](https://www.browserstack.com/) and sign up for a free account.  Practice using a variety of emulators for a live website of your choice, and for a local web page that you have developed previously.  Provide one screenshot of your activity below. |
| --- |
| Test Gmail website |

| **Question 8. Use AChecker**  Using a web browser navigate to [AChecker](https://achecker.ca/checker/index.php).  Select the Web Page URL test method, and then test a live web page of your choice to WCAG 2.0 (Level AA) compliancy to determine how web accessible the web page is.  If the web page has accessibility issues, review the issues in the report to determine what guideline(s) are involved and the way that the issues could be fixed.  Provide one screenshot of AChecker result below. |
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| **Question 9. Use WAVE Browser Extension**  Using a web browser navigate to the [WAVE browser extensions](https://wave.webaim.org/extension/) page. Install the WAVE web browser extension for either Chrome or Firefox.  Once installed run an accessibility test for a web page that you have developed to determine if there are any accessibility issues. If there are any issues, review the issues, and then resolve these until the web page has no web accessibility issues.  Provide one screenshot of your test result below. |
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