**Unit 14 Lab – Introduction to Bootstrap**

**Exercise 1 – DC Comics**

Take the code for the DC Comics exercise of unit-5 (Making Layouts) and restructure the html to use Bootstrap html and CSS classes

This exercise primarily affects the html but you can also remove those CSS classes which are no longer required

1. Create a new folder called “unit 14” containing a folder called exercise-1-bs-dc-comics
2. Copy either your own solution code for exercise-1 of unit-5 or the solution code as provided
3. In the html page, add the relevant Bootstrap CDN links (CSS and JS)

A screenshot of a website

Description automatically generated

1. Update the html to include the follow:
   1. Container for the card and tables
   2. Container-fluid for the header, banner and footer
   3. Nav and navbar components for page navigation
   4. Card component for the four characters
   5. To make the cards equal height you will need to wrap the <img> tag in a <div> and set a custom ratio on it. See <https://getbootstrap.com/docs/5.0/helpers/ratio/> for details on custom ratios. For example;

<div class="ratio" style="--bs-aspect-ratio:calc(16\*100%/9)">

<img src="images/flash.png" class="img-fluid" alt="The Flash">

</div>

* 1. Table classes
  2. Remove any old classes which clash with the Bootstrap classes, e.g. card
  3. Try and minimise the use of custom CSS by using the provided Bootstrap utility and helper classes

1. Test the webpage

**Exercise 2 – Simple Layout**

Take the code for the simple-layout demo in unit-5 (Making Layouts) and restructure the html to use Bootstrap html and CSS classes

This exercise primarily affects the html but you can also remove those css classes which are no longer required

1. Create a new folder called exercise-2-bs-simple-layout
2. Copy either your own solution code for exercise-1 or the solution code as provided to the new folder
3. The final page should look like the images below. Use the instructions from exercise 1 if you’re not sure of what to do as these exercises are loosely “similar”
4. Test your code

**A close up of a sculpture

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**A screenshot of a web page

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**Exercise 3 – Simple to-do list**

Take the code for exercise-4-simple-to-list in unit-11 (Web Forms) and restructure the html to use Bootstrap html and CSS classes

The to-do items should be displayed in a table and the details displayed in a modal when the row is clicked on. The model should also allow the user to edit or delete the to-do item

1. Create a new folder called exercise-3-bs-to-do-list
2. Display the to-do items using a table component
3. Below the table add a “Add item” button which will display an empty form in a model
4. Clicking on a row in the table will display the item details in a modal component and allow the user to edit them
5. The final page should look like the images below
6. Test your code

A white background with purple border

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Clicking on the “Add item” button displays the modal

A screenshot of a computer

Description automatically generated

Adding the item details and clicking “submit” adds the details to the table

A screenshot of a computer

Description automatically generated

Clicking on the item details allows the user to edit the item

A screenshot of a computer

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