

# Module title: DEVELOPING WITH WEB FRAMEWORKS

# Module code: COMP60008

# Module leader: Jan Lawton

# Assignment: 2

## Module Learning Outcomes (LO)

On completion of this module, you will be able to:

# 1. Design, create and test a web application using current technologies, frameworks and libraries to produce apps that are fit for purpose

# 2. Reflect on the development process for web applications and analyse potential tools and techniques for web applications development, selecting the most appropriate options for a given situation

# 3. Critically review the functionality that is delivered by web application frameworks to enhance user experience

# 4. Create web applications that consume data from various sources

|  |  |  |
| --- | --- | --- |
| Deadline | Weighting | Assessed LO |
| Dates available on Blackboard | 35% | 1, 2, 4 |

## **University Regulations**

* **University Regulations regarding exceptional circumstances and academic misconduct will apply.**
* **Please ensure that you are familiar with these regulations.**
* <https://www.staffs.ac.uk/students/course-administration/academic-policies-and-regulations/home>

## **Submission rules**

* **late submissions attract 0 marks for that section**
* **failure to submit on Blackboard may forfeit your opportunity to present or demonstrate your work**
* **failure to attend the presentation or demonstration on time may result in 0 marks for that component of assessed work**

**Any questions about the assessment should be directed to the module leader**

# Assignment specification

* **you need to submit the following via Blackboard:**
  + **a zipped file containing your application code (not framework files) in .zip format NOT .rar**
  + **test document**
* **you need to attend:**
  + **a 20-minute demonstration**

## Scenario

Jack Pet Supplies have come back to you as they have now heard about server-side frameworks and libraries and would like to see how these can be used and whether they maintain a good user experience.

They have changed their requirements and would like the web application to:

1. Promote the pet shop
2. Promote the rescue dog centre and the dogs to be adopted
3. Provide an online shopping cart for products
4. Highlight discounted products that are either end-of-line or reaching their sell-by dates
5. Show seasonal products they have on offer

You are required to build the web application that meets the criteria in the marking scheme.

## Marking scheme

|  | **Marks** |
| --- | --- |
| * show your skills in server-side frameworks by building:   + either a WordPress site with your own theme using ACF   + or a Laravel site using Blade components, linked to a MySQL database | 20 |
| * show your ability to use an eCommerce plugin or library for the shopping experience | 20 |
| * show at least 5 of the following eCommerce features:   + payment handling   + stock management   + shipping costs   + refunds   + coupons and vouchers   + downloadable products   + favourite products and ratings   + sale items   + seasonal / promoted items   + any other eCommerce feature **agreed with tutor first** | 10 |
| * show the JSON output containing data from the database using WordPress API or Laravel APIs, that could be consumed by client-side technologies for 2 endpoints | 10 |
| Testing – a test document showing   * accessibility test results * performance tests results * suggestions as to how you could improve your results | 20 |
| Discretionary   * conformance to Jack Pet Supplies' requirements * real content – no dummy images or lorem ipsum * good practice in web design * suitable content for the web application * fitness for purpose for the users of the application * your ability to answer questions about your application * robustness of the final application | 20 |
| **TOTAL** | 100 |

## Mark allocations

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | unsatisfactory | satisfactory | good attempt | very good attempt | excellent attempt |
| marked out of 10 | 0 - 3 | 4 | 5 | 6 | 7 - 10 |
| marked out of 20 | 0 - 7 | 8 - 9 | 10 - 11 | 12 - 13 | 14 - 20 |