### Abstract

This project report outlines the implementation of a web-based shopping application. The report covers various aspects of the project, including the setup process, database creation, and the functionality of different pages.

For Technology Stack, the project begins with the installation of XAMPP, an integrated suite of Apache, PHP, and MariaDB programs, enabling the creation of a PHP + MySQL web server on local computers. Once installed, Apache and MySQL services are started.Next, the shop\_db database is built using phpMyAdmin, and three tables—cart, orders, and product—are added to the database.

The multi-page website employs responsive design to cater to various screen sizes. For smaller screens, the navigation bar is transformed into a hamburger menu, while other inline divs are repositioned vertically. This ensures that users can easily navigate through the website and access content without any inconvenience. The responsive design enhances the user experience by optimizing the layout and readability, regardless of the device or screen size being used.

### Project List of Services:

Add Product Page:

* User input of product name, price, and image.
* Validation of form inputs and error handling for incomplete submissions.
* Storage of product information in the product list and database.

View Product Page:

* Presentation of detailed information for each product.
* Quantity adjustment for desired products.
* Addition of products to the cart or direct purchase from the checkout summary interface.

Checkout Summary Page:

* Form for users to input billing details.
* Validation of form inputs, including correct email format.
* Submission of orders and recording of order information in the database.
* Redirect to the "My orders" interface upon successful order completion.

My Orders Interface:

* Ability to view individual order details.
* Order cancellation functionality, including synchronization with the database.

Cart Interface:

* Display of all items added to the cart.
* Quantity adjustment for products and simultaneous calculation of subtotals and grand totals.
* Deletion of products from the cart and clearing of corresponding records.
* Emptying the cart and clearing all cart records.
* Redirect to the checkout summary screen for order completion.

Responsive Design:

* Implementation of a responsive design to ensure compatibility with different screen sizes.
* Transformation of the navigation bar into a hamburger menu on smaller screens.
* Vertical orientation of inline elements for improved user experience.

### List of Tasks:

Add Product Page:

* Development of a page allowing users to add product information.

View Product Page:

* Creation of a page displaying all available products.

Checkout Summary Page:

* Development of a page for users to review their selected products.

My Orders Interface:

* Implementation of a screen displaying all user orders.

Cart Interface:

* Creation of a page showing the user's shopping cart.

Responsive Design

### Project Accomplishments

|  |  |
| --- | --- |
| Add Product Page | Complete  add\_product.php  style.css |
| 1. Development of a page allowing users to add product information. 2. CSS for page design 3. PHP and JS for warning alert 4. PHP for backend connection |
|
| View Product Page: | Complete  view\_order.php  view\_products.php  style.css |
| 1. Creation of a page displaying all available products. 2. PHP for backend connection 3. CSS for page design |
| Checkout Summary Page: | Complete  checkout.php  style.css |
| 1. CSS for page design 2. Development of a PHP page for users to review their selected products. |
| My Orders Interface:   1. CSS for page design  * PHP for backend connection and implementation of a screen displaying all user orders. | Complete  orders.php  style.css |
| Cart Interface: | Complete  shopping\_cart.php  style.css |
| 1. CSS for page design 2. PHP for backend connection 3. JS and php for showing the user's shopping cart |
|
| Responsive Design | Complete |
| DB prepare | Complete  shop\_db.sql |

### Project Incomplete

Register an account

Login

Email for account verify

### Self-Assessment Rubric:

|  |  |  |  |
| --- | --- | --- | --- |
| Assessment Items | Item Examined | Item Score | Score Earned by:  DC027353 CAOYUTING |
| 1. Select your Eclipse workspace at D:\xampp\htdocs\CISC3003-SemsterProject-Part02\project. The file must exist within the "htdocs" folder of the server, and then the request will be "localhost/some-path/".(So file need to move to "htdocs" folder) | Test-run from Eclipse IDE | 1 | 1 |
| 2. Create your Eclipse project for exercise and name it "project " | Test-run from Eclipse IDE | 1 | 1 |
| 3. Create a folder under your project space and name it "images" and another folder for “videos” | Test-run from Eclipse IDE | 1 | 1 |
| 4. Move all the image files and video files for this project into the above "images" folder | Test-run from Eclipse IDE | 1 | 1 |
| 5. Create a folder under your project space and name it "css", another is named “js” | Test-run from Eclipse IDE | 1 | 1 |
| Score earned in Part 1 |  | 6 | 6 |

Part 2 Work Steps - Frontend Design

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| --- | --- | --- | --- |
| Assessment Items | Item Examined | Item Score | Score Earned by:  DC027353 CAOYUTING |
| 1. Start creating the six HTML pages by following the 1-page design format with the responsive design. | HTML visible from Eclipse editor, and Web browser | 12 | 12 |
| 2. Produce the different sections in your Web pages and corresponding css files, including the various styling rules for your different sections in your Eclipse HTML editor and CSS editor respectively. And put the css files in the folder "css" under the project space. | HTML/CSS files visible from Eclipse editors, and Web browser | 10 | 10 |
| 3. Render your Web pages in an external browser (e.g., Chrome, Firefox, or Edge). | HTML visible from Eclipse editor, and Web browser | 2 | 2 |
| Score earned in Part 2 |  | 30 | 30 |

Part 3 Work Steps - Backend Design

|  |  |  |  |
| --- | --- | --- | --- |
| Assessment Items | Item Examined | Item Score | Score Earned by:  Team01 |
| 1. Create the php files `add\_product.php` `checkout.php`  `orders.php`  `shopping\_cart.php`  `view\_order.php``view\_products.php`  And connect to DB. | HTML source code visible from Eclipse editor, and Web browser | 16 | 16 |
| 2. Start editing the 6 PHP pages by following the 1-page design format with the responsive design. | HTML visible from Eclipse editor, and Web browser | 32 | 32 |
| 3. Creating the database in Xampp PhpMyAdmin, and connect it to the php. Edit the database and insert the needed testing data. | Database visible from Xampp PhpMyAdmin Web Page | 5 | 5 |
| 4. Produce the needed sections in your Web pages and corresponding css files, including the various styling rules for your different sections in your Eclipse HTML editor and CSS editor respectively. And put the css files in the folder "css" under the project space. | HTML/CSS files visible from Eclipse editors, and Web browser | 12 | 12 |
| 6. Render your Web pages in an external browser (e.g., Chrome, Firefox, or Edge). | HTML visible from Eclipse editor, and Web browser | 2 | 2 |
| Score earned in Part 3 |  | 67 | 67 |

Part 4 Test and Submission Steps

|  |  |  |  |
| --- | --- | --- | --- |
| Assessment Items | Item Examined | Item Score | Score Earned by:  Team01 |
| 1. Firstly, test your pages with different sections by seeing if its presentation follows the 1-page format. Be sure to test the responsive design by resizing the windows, and observing the changes in screen appearance. Capture your screens to prove your media queries work. | HTML visible from Eclipse editor, and rendered in Web browser | 15 | 15 |
| 3. Include the screen shots from (1) and (2) in a) the Eclipse project space (under a folder called "My Screen Shots"), and b) in the sharing forum [CISC3003 Project Assignment Part 1 forum - Due on 2024MAY06 11:00 pm](https://ummoodle.um.edu.mo/mod/forum/view.php?id=3004581). | Screen shots captured and shared in the related forum | 12 | 12 |
| 3. Zip the folder (note the ".zip" extension is not part of the name | Do not use ".rar" format, but the ".zip" format) | Eclipse project space from your submission | 1 | 1 |
| 4. Submit your zipped file at [CISC3003 Submission Link for](https://ummoodle.um.edu.mo/mod/assign/view.php?id=3004584) this project | Submission Link | 1 | 1 |
| Score earned in Part 4 |  | 26 | 26 |

Total Score – CAO YUTING DC027353

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| --- | --- | --- |
| Item - Suggested Exercise 09 | Allocated Score | Your Earned Score |
| Part 1 Assessment on Project Setup under Eclipse IDE | 6 | 6 |
| Part 2 Assessment on Project Work Steps - Frontend | 30 | 30 |
| Part 3 Assessment on Project Work Steps - Backend | 67 | 67 |
| Part 4 Assessment on Project Test and Submission Steps | 26 | 26 |
| Total Score | 129 | 129 |
| 100 Scale | 100 | 100 |
| Classification on Quality of Work | Good | |