**CISC3003-SemesterProject-Part2**

**Project Report**

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This project aims to develop a comprehensive e-commerce platform, including product display, shopping cart management, order processing and user interaction functions. By using HTML, CSS, JavaScript, PHP and SQL technologies, we have successfully implemented a user-friendly online shopping experience. Key achievements of the project include responsive web design, dynamic data processing, and efficient database operations.

**Project service list**

**Product browsing**

The provided code snippets include CSS for displaying products in a grid layout, ensuring products are visually appealing and easy to navigate. The PHP files contain functionality to fetch product details from a database, displaying them on the website for users to browse through.

**Shopping cart function**

The PHP scripts handle adding items to the shopping cart, updating item quantities, and removing items. The shopping cart's contents are dynamically displayed on the website, allowing users to see their selected items and make adjustments before checkout.

**Order management**

The code includes PHP scripts for processing orders, which involves collecting user input from forms, validating and sanitizing this data, and then storing order details in a database. There are also functionalities to view and manage these orders, including status updates.

**User account management**

While specific details are not provided in the snippets, user account management involves PHP sessions or cookies for tracking user login states, and SQL queries for retrieving and updating user information in the database, ensuring secure and personalized user experiences.

**Responsive layout**

CSS media queries are extensively used to ensure the website's layout adjusts appropriately for different device screens. This includes resizing text, adjusting layout grids, and ensuring interactive elements like buttons and forms are accessible on mobile devices.

**Project task list**

**Design and implement database models**

The database models are designed to handle various entities such as products, users, carts, and orders. Each entity likely has its own table with appropriate fields. For example, the ‘orders’ table include fields for user ID, product ID, quantity, and order status, which are crucial for tracking and managing orders efficiently.

**Develop front-end interface and interaction logic**

The front-end interface is developed using HTML, CSS, and JavaScript. CSS is used for styling and layout, ensuring the interface is visually appealing. JavaScript, as seen in the provided snippets, is used for adding interactive elements such as form validations and dynamic content updates, enhancing user experience.

**Implement back-end API and database interaction**

The back-end API is implemented using PHP, which handles form submissions, database interactions, and server-side logic. PHP scripts are used to fetch data from the database, process user inputs, and perform operations like adding to cart, updating orders, and managing user sessions.

**Project Accomplishments**

1. **view\_products.php**

* Displays products available in the store.
* Handles adding products to the shopping cart.
* Includes user interface elements like product images, names, and prices.

2. **view\_order.php**

 Displays details of a specific order.

 Allows users to cancel their orders.

 Shows product details, billing address, and order status.

3. **shopping\_cart.php**

 Manages the shopping cart functionality.

 Allows users to update quantity, delete items, or empty the cart.

 Calculates and displays the total cost of items in the cart.

4. **orders.php**

 Lists all orders made by a user.

 Displays order details including product information and order status.

 Provides links to view individual order details.

5. **checkout.php**

 Handles the checkout process.

 Collects shipping and payment details from the user.

 Processes placing an order and redirects to the orders page.

6. **add\_product.php**

 Provides a form for adding new products to the store.

 Handles file uploads for product images.

 Inserts new product details into the database.

**Project Incomplete**

**Advanced search and filtering features are not yet implemented.**

Currently, the codebase does not include advanced search or filtering functionalities. Implementing these would involve adding UI components for users to specify their search and filter criteria, and backend logic to process these inputs and return filtered results from the database.

**User review and rating systems are not integrated.**

User reviews and ratings are not integrated into the current system. To add this, you would need to design database tables to store reviews and ratings, create forms for users to submit their feedback, and display this data on product pages.

**Self-assessment Rubric**

Part 1 Project Setup under Eclipse IDE

|  |  |  |  |
| --- | --- | --- | --- |
| Assessment Items | Item Examined | Item Score | Score Earned by:  Student ID and Student Name |
| 1. Select your XAMPP workspace at localhost/htdocs/, where YourStudentID is your student ID (in lower case letters and digits, say, dc251924). | Test-run from Eclipse IDE | 1 | 1 |
| 2. Create your XAMPP project for this suggested exercise and name it " localhost\ CISC3003-SemesterProject-Part2\project". | Test-run from Eclipse IDE | 2 | 2 |
| 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

|  |  |  |  |
| --- | --- | --- | --- |
| Assessment Items | Item Examined | Item Score | Score Earned by:  Student ID and Student Name |
| 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 the Internal Web Browser of your Eclipse IDE, and also in an external browser (e.g., Chrome, Firefox, or Edge). | HTML visible from Eclipse editor, and Web browser | 10 | 10 |
| Score earned in Part 2 |  | 32 | 32 |

Part 3 Work Steps - Backend Design

|  |  |  |  |
| --- | --- | --- | --- |
| Assessment Items | Item Examined | Item Score | Score Earned by:  Student ID and Student Name |
| 1. Start editing the five HTML pages by following the 1-page design format with the responsive design. | HTML visible from Eclipse editor, and Web browser | 10 | 10 |
| 2. 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 |
| 3. 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 |
| 4. Create the “add\_product.php”, “checkout.php” and “order.php” for the post function in the website. Edit the php files and connect to corresponding “shop\_db” database. | Database visible from Xampp PhpMyAdmin Web Page with Web browser page visible | 9 | 9 |
| 5. Render your Web pages in the Internal Web Browser of your Eclipse IDE, and also in an external browser (e.g., Chrome, Firefox, or Edge). | HTML visible from Eclipse editor, and Web browser | 8 | 8 |
| Score earned in Part 3 |  | 44 | 44 |

Part 4 Test and Submission Steps

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| --- | --- | --- | --- |
| Assessment Items | Item Examined | Item Score | Score Earned by:  Student ID and Student Name |
| 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 | 12 | 12 |
| 2. 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 2023MAY03 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 |

Part 5 Contents and Look-and-Feel Design Score

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| --- | --- | --- |
| Item under Evaluation | Assigned Score | Earned Score |
| Add Product Page | 3 | 3 |
| View Product Page | 3 | 3 |
| Cart Page | 3 | 3 |
| Checkout Summary Page | 3 | 3 |
| My Orders Page | 3 | 3 |
| Responsive Design | 3 | 3 |
| Overall Style | 3 | 3 |
| Design of Navigation | 3 | 3 |
| Design of CSS files | 3 | 3 |
| Header and Footer in web pages | 3 | 3 |
| Images | 3 | 3 |
| Textual Information | 3 | 3 |
| Score earned in Part 5 | 36 | 36 |

Total Score - Student ID and Student Name -

|  |  |  |
| --- | --- | --- |
| 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 | 32 | 32 |
| Part 3 Assessment on Project Work Steps - Backend | 44 | 44 |
| Part 4 Assessment on Project Test and Submission Steps | 26 | 26 |
| Part 5 Assessment on Contents and Look-and-Feel Design | 36 | 36 |
| Total Score | 144 | 144 |
| 100 Scale | 100 | 100 |
| Classification on Quality of Work | Good | |