



Assignment

BSc (Hons) Computer Science, OUBs033

COHORT 7 - Year 2 Semester 1

Module: Server-Side Web Technologies - OUBs033211

Tutor: Mr. Parwez Neeamuth

INSTRUCTIONS TO STUDENTS

The marks for this assignment would account for 30% of the total assessment marks for this course.

Submission date: **13th October 2024 @ 23 55 hrs (Late submission will be penalised)**

POINTS TO REMEMBER WHEN SUBMITTING YOUR ASSIGNMENT

Plagiarism will be heavily penalised and may result to non-award of marks.

Mode of submission: Please submit **softcopy (Zip file)** on the space provided for submission of Assignment on **Blackboard platform**.

The Open University of Mauritius will not hold itself responsible or liable for the non-award of marks if you fail to submit the assignment as per the required mode of submission.

Assignment question (30 marks)

Introduction:

The objective of this assignment is to assess your understanding and practical application of web technologies including PHP, MySQL, JavaScript, jQuery, Ajax, sessions, and cookies. You are required to develop a dynamic website that facilitates product sales using the specified technologies. The website should be functional and demonstrate your proficiency in the mentioned technologies.

Website Functionality:

Registration and Login:

- Implement a registration form that collects user details such as first name, last name, etc.
- Fields such as Name, Username, Password, and Email Address should be mandatory.
- Ensure email addresses are in the correct format (e.g., example@email.com).
- Phone numbers should only include numbers.
- Use Ajax to check if the chosen username and email address already exist without reloading the page.
- Implement a login form with fields for username and password. Use sessions for user authentication.

Product Management:

- Include functionalities to add, edit, and delete products.
- Each product should have details such as name, description, price, and quantity.
- Ensure proper error handling and validation during product addition and editing.

Shopping Cart:

- Implement a shopping cart functionality where users can add products for purchase.
- Users should be able to view their cart contents, update quantities, and remove items.
- Utilize sessions to store cart information for each user.

Search and Retrieve Products:

- Include a search feature or apply filters to search and retrieve specific products from the database.
- Users should be able to search by product name, category, or price range.
- Implement pagination or infinite scroll for browsing large product catalogues.

Important Notes:

- You have the freedom to choose the types of products to sell on your website.
- Use PHP for server-side processing and MySQL for database operations.
- Ensure proper error handling and validation throughout the website, including registration, login, and product management.
- Include comments in your code for better understanding.

Submission:

Zip your entire project folder, including the MySQL database (.sql file), and submit it via the provided submission link before the deadline. Ensure that you follow the submission guidelines provided at the beginning of the assignment.

Grading Criteria:

- Functionality (10 marks)
- Correct implementation of technologies (5 marks)
- User interface and design (5 marks)
- Code quality, organization, and comments (5 marks)
- Error handling and validation (5 marks)

Important Dates:

Assignment Release Date: 19th August 2024

Submission Deadline: 13th October 2024

Note:

Late submissions will not be accepted.

Try to be original and creative! Please do NOT copy from the Internet. **You will be penalised for plagiarism.**