



**CS5054NI Advanced Programming & Technologies**

**50% Group Coursework 1**

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**15 Credit Semester Long Module**

**Group Information**

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| --- | --- |
| **London Met ID** | **Student Name** |
| **23050347** | **Madan Shrestha (C9)** |
| **23050274** | **Abhinav Paudyal (C9)** |
| **23049027** | **Pratyush Badal (C9)** |
| **23050409** | **Dikshant Timsina (C9)** |
| **23048888** | **Rijan Buddhacharya (C9)** |

**Project Title:** Gaming and Pc E-Commerce site

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**Submitted to:** Mr. Prithivi Maharjan

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| **GitHub Link:** |  |

*I confirm that I understand my coursework needs to be submitted online via Google Classroom under the relevant module page before the deadline in order for my assignment to be accepted and marked. I am fully aware that late submissions will be treated as non-submission and a mark of zero will be awarded.*

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# 1. Introduction

OneZ is a fully dynamic web shopping site designed for gamers, tech enthusiasts, and corporate professionals. It has been built with JSP, HTML, CSS, JavaScript, tomcat and MySQL. Our website will be fully functional and responsive, offering the best possible experience to our users. With a special focus on UI/UX, we ensure that our website will be beautiful and aesthetically pleasing, offering the best shopping experience to the users.

OneZ offers a wide variety of products ranging from gaming peripherals to PC hardware. Our website will have everything that is needed to tech enthusiasts, so they do not need go searching multiple other websites to buy product. We will offer the best quality products from the best manufacturers all over the world, so our customers receive what they need and enjoy the best experience. With the effective UI/UX, we ensure people will have the best experience as they navigate and shop on our website. Our website also focusses on security. It comes with strong protection in the form of encryption to ensure customer data is safe. We also provide discounts from time to time to our user so they can buy their favourite product. The growing popularity of gaming and IT sectors is unmatched. To keep up with it our platform offers all the equipment needed for our customers to compete with and be the best in their field.

From business POV, we have given a special focus on UI/UX, so people prefer our platform to buy all products.

## Purpose

The purpose of our website, OneZ, is to provide individuals with all kinds of gaming accessories to enhance their gaming experience. This provides content creators, gamers, and students with an option to select their preferred budget-friendly products while being able to browse products and add them into the cart or Wishlist as their preference. Admins can manage the inventory, view the sales details, and for further improvements of the website, the admin can review customer feedback.

## Audience

Our target audience consists of individuals looking for PCs and gaming accessories.

OneZ e-commerce website is designed for customers who are looking for powerful gaming PCs and accessories. We serve all customers looking for affordable gaming PCs to gamers in search of high-end pc setups. Similarly, it also offers a variety of accessories, including a mouse, keyboards, mousepads, graphics cards, and processors, all available through our website.

Not only gamers, but we also serve to content creators and students who need powerful setups that fit their budget. By contacting to us, customers can build custom PCs based on their specific requests, offering quality components and ensuring better user experience. Similarly, a wide range of PCs and accessories, from basic to high-end are offered by us to suit customers’ requirements.

## Aim and Objectives

### 1.3.1 Aim

The aim of this coursework is to develop an ecommerce website with the help of Model-View-Controller (MVC) architectural pattern where customer can buy gaming product and pc accessories. This method is used to shape the codebase by separating them into model, view and controller components which make it easier to manage, update and scale.

### 1.3.2 Objective

1. To develop a user-friendly website that works on computers.
2. To createa secure login system that allows users to create accounts and log in.
3. Tocreate a system that add, update, and display gaming product and accessories with details and prices.
4. To add product toa shopping cart so the customer can easily purchase it.
5. To implementsecure payment methods such as fonepay, and online banking methods.
6. Toenhance the search and filters the options which helps users to find the products fast.
7. To manage orders efficiently and let customers to track their orders and receive updates.
8. To add a customer review section where buyers can give feedback and rate the products.
9. To provide an admin panel for managing products, orders, and users.

## Feature List

### 1.4.1 User Authentication

There are two sets of user’s admin and customer, each will get different access accordingly. The user’s will be able to register and then login.

### 1.4.2 Add to cart and Wishlist

With this feature customers will be able to add the items chosen to cart to either buy or view it later. Also, with the Wishlist the customers will be able to save products that are out of stock.

### 1.4.3 Search and filter product

Users will be able to search for the required products and filter out the products based on prices and popularity.

### 1.4.4 Payment

Customers will be redirected to various payment option after confirming the purchase of a product. Customers will be allowed to pay online or cash on delivery, for online they can pay via different online platforms.

### 1.4.5 Feedback

Customers will be able to give reviews and rating on the products bought on accordance to its prize and quality.

### 1.4.6 Inventory management

Admin can add, update or delete a product on the inventory. Also, the system will automatically alert the admin if any product stocks run low.

### 1.4.7 Dashboard

Admins can view the sales details in profit and loss. Also, they can see which items are top sellers.

### 1.4.8 Feedback review

Admins can view the feedback given by customers on their product and give feedback on their reviews making customers more comfortable with the customer service.

### 1.4.9 Discount offers

In occasion of festivals or anniversaries admins can add special discount to their products and customers can buy the discounted items.