**Technological University of the Philippines**

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**College of Science**

**Mathematics Department**

**Electronic Commerce Shop**

**In Partial Fulfillment of the Recruitments for the Bachelor of Science in Information System**

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1. **Background of the Study**

Electronic commerce, or commonly written and known as e-commerce or ecommerce is the trading or facilitation of products or services through the use of computer networks such as internet. Ecommerce is a tool that is very useful for the beloved customers because of many reasons like perhaps an online shop is available for 24/7 and with the use of internet that some establishments let us use for free (café, restaurants, and schools) unlike visiting a mall for shopping that requires time, travel and takes place during business hours only we can prove that online shopping is more convenient. The online shop also provides many useful details (specifications, reviews and manuals) about the product that the buyer was searching for, it helps the buyer know what the significance of buying the said item and that’s why e commerce is more discoverable. Shopping online also helps in searching for the right product, in just a click multiple results will pop and all you have to do is choose the right fit for you.

Online shopping also have disadvantage because of the modern world bad things is bound to happen some people uses fake accounts and stolen credit cards to have access with some online shop. Another disadvantage is that sometimes a customer tends to misunderstand the product details and makes a mistake in buying the product.

1. **Objectives**

* Bring products and services in just few clicks away.
* Make an accessible website that can help increase company’s assets.
* User friendly interface that everyone can easily understand and operate.
* Make a great shopping experience that every customer will be delighted.
* Safer and fraud-free online shop.

1. **Scope & Limitations**

The website will be having two servers, one for the customers and one for the admin. To lessen fraud the customer should log in using their emails after logging in they can now access the shop. In some cases, some of the customers are new, that is why creating an account also takes place in the website, all the customer should do is fill up the given form and feed it up with basic information. This store is sorted according to the category which is called a Product Catalog. This is where the consumers select their orders. It is packed with basic contents such as Product image, price, short description and a button for “More info”. In case they are looking for a specific product, a search section is provided. Once the consumer clicks the “More info” button, it will redirect them to a page for an elaborate description and more sample photos of the product they choose together with an “Add to cart” button. Ordering can be done just by clicking the “Add to Cart” button. The website automatically adds the item to the customer’s Shopping Cart as long as the product is available. If not, a message will be prompted. A Shopping Cart can be viewed in the right column of the home and store page or in a separate page wherein the consumer must input the quantity of the product. A default quantity is one (1). The Shopping Cart contains the summary of the orders such as Product Name, quantity, price, shipping fee and the total cost. If the customer wants to cancel the ordered items, they can easily remove a specific product off their Shopping Cart or simply click “Empty Cart”. If they choose to purchase the product selected all they have to do is to press the “Checkout” button. If they are already in the Checkout Page the process can be cancelled using the “Cancel” button until purchase is not paid. In paying for the products the consumer can do it using PayPal (requires debit or credit card). Once the payment is done the website will provide a receipt and order number so that the customer can track their orders.

The website will also include some processes that are accessible only for the Administrator. These server are mostly for managing, maintaining and monitoring website, orders, users and products. One of these modules is Products Inventory and Monitoring. This is where the Admin can view a summary of the products in-stock, out of stock. Below of the summary is a table of all Products containing the Product ID, Product Image, Product Name, Price, Number of Stocks, Category, Shipping Fee, Date Added and column for Edit and Archive buttons. To easily search for a product, filtering is available. Maintenance allows the Admin to add/update/archive products and categories. In order to add new items in the store, the Admin must input the required text fields such as Product Name, Selling Price, Shipping Fee, Short Description, Additional Information, Product Image thumbnail and select the appropriate category. Optional fields are Original Price and additional photos. Product name must not match the other available items in store. Price and shipping fee must be in Philippine Peso. Under maintenance interface is the site configuration. This enables the Admin to update the site information such as Company Address, Tel. No., Email and Shop Description. Aside from Maintenance module, Admin Panel also includes Order Management wherein it displays a table of all orders made by the clients. This table contains the Tracking ID, Customer’s Full Name, Order Status, Total Cost, Date Added, Date Modified and a column for Action (view or edit). Administrator can easily filter the table by Status, Tracking ID, Date or by Customer’s Name. The system will also provide a Report module which contains information about the Total sales of the Company daily, monthly or yearly. A summary of visitor count and number of registered members are also included in this module.

In making the website we are going to use wamp, MySQL, Code Igniter, HTML and many more.