**Online Shopping System**

# 1.0 Summary

The project aims to develop a web based online shopping system to help a business who primarily manufacture and sell computers. The system should allow customers to view, select and purchase products directly from the manufacturers website. All products need to be categorised in three groups and they are 1. Servers 2. Desktops 3. Laptops. Customers can either purchase his desired product as they are presented on the frontend, or they can customize their order using the system if they wish to get different configuration. The system should alter the price of the product after calculating price of newly added components.

To complete the ordering process, the customer will be asked to provide payment details along with delivery address. The system must verify these credentials and if they are correct the order gets recorded, then the system will issue a confirmation email to the customer. The confirmation email will hold order details to track its status. Acceptable payment methods are credit card and cheques. Verification of these two payment methods are different, as a result the system should have separate flow of works for them.

After the payment verification is completed, the salesperson then forwards the order to the warehouse and prints invoice.

# 2.0 Requirement Analysis

## 2.1 Functional Requirements

1. The customer views the standard configuration of the chosen server, laptop or computer on the manufacturers online shopping webpage along with the costs.
2. Customer wishes to view details of the configuration and may have the thoughts of purchasing it default or changing the configuration to match their satisfaction. The costs will be calculated upon the customers requirement.
3. Customer either orders the required essential online or they may request to speak to a salesperson, so they are able to get the relevant details provided about the order and discussing prices before an order is ready to take place. It is evident that the salesperson will need an interface to record the order on behalf of the customer.
4. To place an order, an online form must be filled out by the customer along with the invoice address, method of payment ( credit cards, cheques) and shipment.
5. As soon as the customer’s order gets recorded onto the system, the salesperson will send an electronic request to the warehouse with the details of the ordered configurations.
6. The relevant purchase details that will be required by the customer such as the order number and the account number is mailed to the customers email address so that they will be able to check their order status online.
7. The invoice the salesperson sent is received by the warehouse and the required essentials are shipped out to the customer.

## 2.2 Use Case Modelling

2.2.1 Actors

Primary actors of the system are customer, salesperson and the warehouse.

Customer: Anyone using the web system to purchase a product.

Salesperson: Company employees who have access to the system.

Warehouse: Responsible for managing inventories and shipping products.

2.2.1 Use Cases

UC1 : View products detail - C

UC2 : (Remove and place it under UC1 flow) Lists products in category - C

UC3: Change components of a product - C

UC4 (Remove and place it under UC3 flow) : View updated product details - C

UC5: (Remove and place it under UC7 flow) Inserts shipping address - C

UC6: (Remove and place it under UC7 flow) Inserts payment method - C

UC7: Submits order - C

UC8: View order status - C

UC9: Request call back - C

UC10: View order status – SP

UC 11: Change components of a product - SP

UC12: Record Order – SP

UC13: Add discount to total price – SP

UC14: Update order status – SP

UC15: Print Invoice – SP

UC16: Send product request to warehouse - SP

UC17: View Product request from Salesperson – WH

UC18: Update Order Status - WH

## 2.2.2 Use Case Description

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| --- | --- |
| **Use Case** | **View Product Detail** |
| Brief Description | View Product Detail |
| Actors | Customer (Discuss if SP and WHY are also actors as they may need to view the product detail too, we are assuming they will view it using the same UI as customer which is why only Customer is assumed an actor) |
| Pre-Conditions | NULL |
| Main Flows | 1. Customer Visit the web page 2. System displays list of products on the webpage. 3. Customer selects the product. 4. Customer presses the view detail button. 5. Detail is presented. |
| Alternative Flows | 1. Customer visit the web page 2. No products are available to display 3. System displays “No Product Found” error message. |
| Post-Conditions | If the use case is successful, the user will be presented with a list of products which he can browse, view details and select. |