**Title: E-commerce Platform**

**Group number: 12**

**Student name 1: Lee Qian-Er                                                         ID: 1803374**

**Student name 2: Ong Zi Xin                                                       ID: 2000424**

**Student name 3: Chia Soon Tock                                               ID: 2003924**

**Student name 4: Soon Chyi Phing                                              ID: 2101988**

**Student name 5: Chai Yi Kai                                                      ID: 1502602**

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| **Criteria** | **Poor** | **Below Average** | **Average** | **Good** | **Excellent** | **Marks** |
| **Construct static web pages**  **(30 marks)**  **[CO1]** | **0-6**  **Little or no understanding of HTML and CSS; pages lack structure and design; visual elements are poorly aligned and unattractive.** | **7-12**  **Basic understanding of HTML and CSS; pages are mostly structured and visually appealing, but with some issues.** | **13-18**  **Good understanding of HTML and CSS; pages are well-structured and visually appealing, with some minor improvements possible.** | **19-24**  **Excellent understanding of HTML and CSS; pages are highly structured and visually appealing, with a clear understanding of design principles.** | **25-30**  **Exceptional understanding of HTML and CSS; pages are expertly structured and visually stunning, with a mastery of design principles.** |  |
| **Build dynamic web pages using event-driven client-side scripts**  **(30 marks)**  **[CO2]** | **0-6**  **Little or no understanding of client-side scripting languages; pages are static and lack interactivity.** | **7-12**  **Basic understanding of client-side scripting languages; pages have some interactivity and respond to user input, but with some issues.** | **13-18**  **Good understanding of client-side scripting languages; pages are highly interactive and respond well to user input, with minor improvements possible.** | **19-24**  **Excellent understanding of client-side scripting languages; pages are very interactive and highly responsive to user input, with a clear understanding of event-driven programming techniques.** | **25-30**  **Exceptional understanding of client-side scripting languages; pages are expertly interactive and highly responsive to user input, with a mastery of event-driven programming techniques.** |  |

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| **Develop server-side and database-driven web applications**  **(40 marks)**  **[CO3]** | **0-8**  **Little or no understanding of server-side scripting languages and databases; web applications are non-functional, insecure, and not scalable.** | **9-16**  **Basic understanding of server-side scripting languages and databases; web applications are functional, but with some security and scalability issues.** | **17-24**  **Good understanding of server-side scripting languages and databases; web applications are functional, secure, and scalable, with some minor improvements possible.** | **25-32**  **Excellent understanding of server-side scripting languages and databases; web applications are highly functional, secure, and scalable, with a clear understanding of validation and error-handling mechanisms.** | **33-40**  **Exceptional understanding of server-side scripting languages and databases; web applications are expertly functional, secure, and scalable, with a mastery of validation and error-handling mechanisms.** |  |
| **Total: \_\_\_\_\_\_\_\_\_\_\_\_\_** | | | | | | |

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**1.0 Introduction**

Nowadays, the demand for e-shopping was become increasingly increasing and this triggered us to develop this e-commerce website that allows different categories of products to be displayed on our websites. In this report we will briefly explain our e-commerce website built and its features as well the storyboard and flowchart that introduce the flow of the whole system. Besides, we will ensure the security of the system to avoid customer information being expose.

**1.2 Project Background**

This project is response to the growing demands of online shopping solution. The goal of this project is to design and develop a user friendly and easy to user e-commerce websites.

To develop a responsive website, the following tools are used:

* HTML 5
* CSS
* JavaScript
* Bootstrap
* JQuery
* Font Awesome (JavaScript API)
* Microsoft edge browser

All frameworks are imported as CDN form because the service provider always provides the latest version of framework features. Therefore, there is no need for downloading framework files.

**Functional Requirement**

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| --- | --- |
| **ID** | **Requirement** |
| FR1 | The system shall allow users to login or register. |
| FR2 | The system shall allow users to navigate to the home page. |
| FR3 | The system shall allow users to view all products. |
| FR4 | The system shall allow users to view specific category products. |
| FR5 | The system shall allow users to search products with names. |
| FR6 | The system shall allow users to sort items by name or price. |
| FR7 | The system shall allow users to add items to cart. |
| FR8 | The system shall allow users to view their cart list. |
| FR9 | The system shall allow users to check out their products. |
| FR10 | The system shall allow users to increase or decrease the quantity of items in the cart list. |
| FR11 | The system shall allow users to contact the administrator through contact us function. |

**Non-Functional Requirement**

|  |  |
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| **ID** | **Requirement** |
| NFR1 | The system will not allow unregister and not logged in user to enter cart and use add to cart function. |
| NFR2 | The system will have preloaded on home page to avoid high volumes of request on websites. |
| NFR3 | Invalid user email and password in login page are considered as not logged in users. |

**2.0 Flow Chart**

**Diagram

Description automatically generated2.1 Main**

**2.2 Cart**

Diagram

Description automatically generatedDiagram

Description automatically generated

**2.3. Home**

Diagram

Description automatically generated

**2.4 Product ListDiagram

Description automatically generated**

**2.5 Product Details**

Diagram

Description automatically generated

**3.0 Story Board**

**3.1: Login/ Registration**

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| Graphical user interface  Description automatically generatedScreen 1: Login Page  When this button clicked, it will stay on screen 1 (Login Page)  When this button clicked, it will switch to registration page (screen 2)  When this button clicked, will lead to home page. |

A3

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| Screen 2: Register page  When this button clicked will go to home page  When this button clicked, will switch to login page.  When this button clicked will stay on screen 2 |

**3.2: Navigation**

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| When this button clicked will go to login/ register page  When this button clicked will go to product list where corresponds to search keyword  When user mouse on hover will show the list of categories, by clicking these buttons will go to product list where corresponds to each category.  When this button clicked will go to contact us page  When this button clicked will go to homepage category tag  When this button clicked will go to product list page  When this button clicked will go to home page |

**3.3: Home Page**

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| Screen 1: About us |

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| Screen 2: Categoric    When this button clicked will go to product list page  When these buttons click will go to product list page and display corresponds categoric items only  When this button click will go to product list page |

**3.4: Product List**

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| **Screen 1 ： Product List**  When this item clicked will go to product details page that display the specific product details  When this button clicked will go to sort products page |

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| When these buttons clicked will go to specific page of product list  When this button clicked will go to next page of product list  When this button clicked will go to previous page of the product list |

**3.5: Product details page**

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| When this button clicked will add the item into cart list and go product details page |

**3.6: Cart/Wishlist Page**

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| Screen 1: Cart Products  When this button clicked will remove the products from cart list  When this button clicked will increase the quantity of cart list item  When this button clicked will decrease the quantity of cart list item |

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| Screen 2:    When the button clicked will go to checkout page |

**4.0 Conclusion**

In conclusion, the effort to create e-commerce software has been successful in its goal of giving companies a comprehensive way to administer their online stores. The team project was work closely between each member to produce the user friendly and easy to use e-commerce website. The security of the software is being ensure and data of customer information can be kept safely and secure.

**5.0 Workload Summary**

Ong Zi Xin

Participate in early-stage planning and provide useful information to assist other teammates to perform smoothly in their respective part. Besides, design most websites with user friendly and easy to use as the first aim. After that, implement the login/register function as well the search product and sorting product function. Besides, develop a Wishlist and cart to allow users to add items into the cart and make payment. Lastly, perform integration testing on the whole system to ensure.

Soon Chyi Phing

Generated ideas in the early brainstorming stage and helped define the nature of the Web Application. Next, draw the flowchart of the Web App. Moreover, created the footer for the Web App. Lastly, I searched a handful of products with descriptions to be added into the database.

Lee Qian-Er

In the planning stage, provide ideas and follow instructions to perform my own task.  In the development stage, participate in parts of develop and design the page (login page, register page, contact us page, about us page). Besides, I am involved in drawing flowchart of Web Applications. Help Ong Zi Xin to find and categorize the product image, name, price, description. Lastly, perform testing on every function as a user side.

Chan Yi Kai

Participate in planning and brainstorming of the outline and feature the web application. Besides, determine which tool to be used and help to create the storyboard of the web application. I have also helped in researching a few useful features and functions to improve our web application. I also create the description of us in the web application and help in creating the database.

Chia Soon Tock

Participated in the brainstorming section and was assigned the job of creating the storyboard of the contact page and coding the contact page. Besides, provide the product information such as id, description, image, and price for creating the database. Lastly, provide feedback on the completed website such as design style and bugs.