**GROUP PROJECT FRONT SHEET**

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| **Qualification** | **BTEC Level 5 HND Diploma in Computing** | | |
| **Unit number and title** | WEBG301 - Project Web | | |
| **Submission date** |  | **Date Received 1st submission** |  |
| **Re-submission Date** |  | **Date Received 2nd submission** |  |
| **Student Name** |  | **Student ID** |  |
| **Class** |  | **Assessor name** | Nguyen Dinh Tran Long |
| **Student declaration**  I certify that the assignment submission is entirely my own work and I fully understand the consequences of plagiarism. I understand that making a false declaration is a form of malpractice. | | | |
|  |  | **Student’s signature** |  |

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**Grade**

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| **❒ Summative Feedback:                                                                 ❒ Resubmission Feedback:** | | |
| **Grade:** | **Assessor Signature:** | **Date:** |
| **Signature & Date:** | | |

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# User requirements

## User Stories

|  |  |  |
| --- | --- | --- |
| No | User story | Functional/Nonfunctional |
| 1 | As a customer, I want to be able to create an account so I can put products into a cart and checkout with them | Functional |
| 2 | As a customer, I want to be directed to the login page if I happen to click on the "Cart" button when I am not logged in | Functional |
| 3 | As a customer, when I click on the "Checkout" button, I want a receipt to be generated based on the items I have added into my cart and the information on my account | Functional |
| 4 | As a customer, when I hover over the picture of a product, I want brief information about the product to be displayed | Functional |
| 5 | As a customer, when I click on a product, I want to be taken to a detail page that presents all of the product's information along with a "Add to cart" button | Functional |
| 6 | As the operation manager, I want the website to have aesthetics that suit the store's theme, which is artistic hand-made crafts | Non-Functional |
| 7 | As a system admin, I want additional links to appear on the navigation bar when an admin is logged into the website | Functional |
| 8 | As a system admin, I want to be able to perform CRUD on different information of the database without having to directly interact with the database | Functional |
| 9 | As the operation manager, I want the system to encrypt the login information when a new user is created in order to protect the information of everyone | Non-Functional |

## Use-case diagram

Diagram

Description automatically generated

# System Design

# Implementation

## Source code

### MVC design pattern

Model-View-Controller (MVC) design is a practice where the developers split up the code into multiple files. Each file handles a number of certain tasks.

Controller is what the client would be directly interacting with. It determines what data, what file is delivered to the client, and what input to take from them. It modifies the View component to display appropriate information to the client and creates/modifies data based on the logical design provided by the Model.

View is the User Interface design for the user/client to look at and interact with visually. The View file takes data from the Controller to display to the user and takes the data from the user and passes it to the Controller

Model is the component where the structure of the data is defined. It also contains methods that allow access to modify or view its data so that it can be called by either the View or the Controller.

In this project, the Model is used to define each entity

### Website design

To design the front-end of the website, a design language called “Neu Brutalism” is applied. Neu Brutalism is a design language that is trending in recent years. One of the most notable characteristics of Neu Brutalism is its contrast using solid borders and bold text, making everything pop.

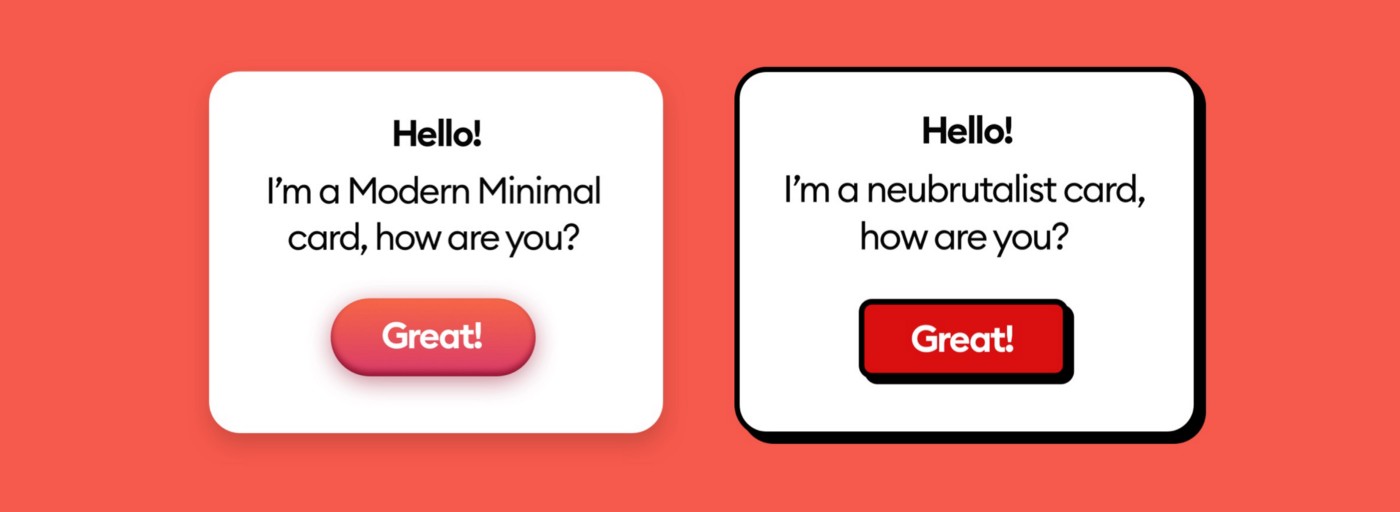


Figure 1 Modern Minimal and Neubrutialist design (Malewicz, 2022)

To come up with the final design decision for the website, many online stores have been studied as a reference and some of their components are recreated using Bootstrap 5, a CSS and JavaScript library free for everyone. The websites studied are <https://negativecollection.bigcartel.com/>, and <https://paulinamocna.bigcartel.com/>.

Graphical user interface, text

Description automatically generated

Figure 2 Negative Collection

Graphical user interface, website

Description automatically generated

Figure 3 Paulina Mocna

These two websites were chosen because they followed the Neubrutalist design, which is the goal for this project. After they were studied, an html interface is created using an application called Bootstrap Studio 6. Bootstrap Studio is a tool that visualizes the process of creating a website design in order to help the developer create a layout more easily and mitigate human error while trying to design a website.

A screenshot of a computer

Description automatically generated with medium confidence

Figure 4 Bootstrap Studio

## Screenshots

Graphical user interface, text

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# Conclusion

# References

**There are no sources in the current document.**