



## **WEB1201 Project Report**

### **Planning Report For**

### **Constructing an e-commerce website named “Papa Potato” for the sale of Chips**

by

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Project title : Planning Report for constructing an e-commerce website named “Papa Potato” for the sale of Chips.  
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## **Abstract**

This project entails the creation of an e-commerce website to offer self-branded potato chips to Malaysian citizens, primarily teens. The primary goal of this project is to develop a website with a user-friendly interface that allows consumers to easily order potato chips online whenever they think of it. The website will have a clean and uniform design, as well as simple and intuitive navigation. Even if users are visiting the website for the first time, the design will aid in their convenience.

The first half of the report presents the problem statement, main goals, objectives, the scope of work, and project plan of the project. Researches on some key issues of website development are discussed in this part along with solutions towards the problems.

The second half of the report presents the implementation of the website. The requirements, storyboarding and the methodology of approaching the outcome are described in this part to help readers better understand the rationale behind it. In addition, results and discussions of the final website outcome are included to indicate the functionalities of the website.

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# **1 Introduction**

## **1.1 Project Brief**

In this project, we design and develop a vendor-specific e-commerce website called Papa Potato. The products sold on the website will be packaged potato chips with a variety of flavours that are priced between RM6 to RM25. The e-commerce website intends to serve the citizens, primarily teenagers between 10 to 19 years old in Malaysia. We focus on the teenage market as people from this age group tend to consume more snacks than others on average. Besides that, a statistic [1] shows that the sales value of snacks products in 2019 was approximately 1.68 billion Malaysian ringgit, about 4 million higher than the previous year. The significant increase of sales value has proved that the demand for snack food is gradually increasing among the locals. Thus, Papa Potato is built with the goal of allowing consumers to easily order our products online whenever they have a craving for potato chips.

On the contrary, the objectives of the website are to produce a bug free website that has a clean and consistent interface with fast and simple navigation as well as a checkout process. In keeping with the objectives, the colour scheme used throughout the website will be a combination of yellow, orange, blue, black, and white to achieve a clean and consistent interface. In addition, a sticky navigation bar will be displayed on the top of every webpage to allow users to have a smooth browsing experience. If a user wants to purchase products on our website, only necessary information will be collected during the checkout process to provide user flexibility on ordering the products. The website will also be able to perform error prevention to ensure a quality service is delivered to the users. We believe that the website will improve the problems of lack of control on a company's operation, difficulties in gaining customers loyalty and lack of user flexibility.

## 1.2 Work Plan

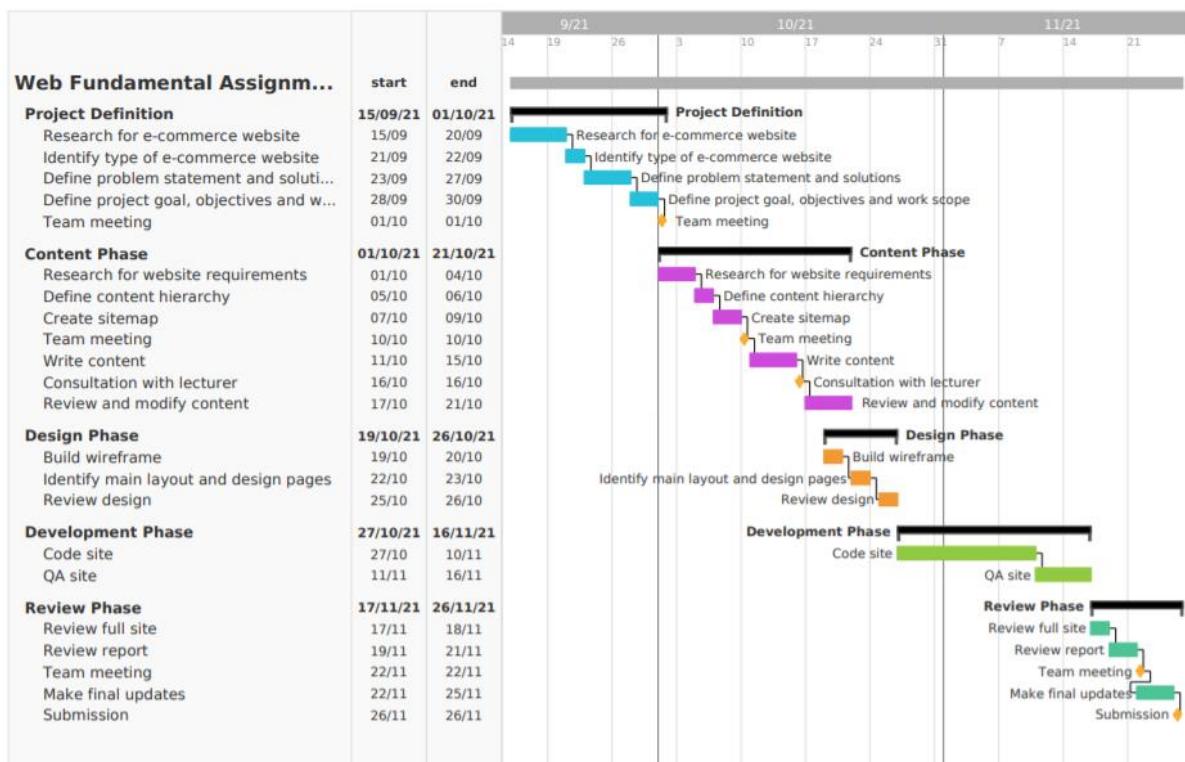


Figure 1: Work Plan

## **2 Problem statement, Literature review and Solution**

### **2.1 Problem Statement and Literature Review**

The lack of control over the company's business operations in online marketplaces such as Shopee and Amazon is the first problem that our website is designed to tackle. According to Dunne [2], business sellers agree to the marketplace's rules and limits by entering the marketplace, resulting in the marketplace's imprint overshadowing the brand. This is due to the fact that online marketplaces are frequently more concerned with products than with brands and vendors [3]. As a result, we will have very restricted possibilities for showcasing our brand presence if we offer our products on an online marketplace.

Furthermore, we believe that developing a website for our company will address the issue of gaining loyal clients through the marketplace. The consumer experience of people purchasing goods on a marketplace, according to Eisenberg [4], is more intimately related with the marketplace than with the supplier. Many clients who shop on marketplaces wrongly believe they are buying goods from that marketplace when they are actually making purchases from a brand. The buyer will remember the marketplace rather than the brand the next time they shop [5]. Thus, selling on product focused marketplaces makes developing brand awareness and familiarity, and ultimately differentiating our business incredibly challenging.

Aside from that, one of the goals of establishing a website for our company is to address the issue of our customers' lack of flexibility in terms of payment and delivery options.

Although customers can directly contact us via Instagram, which can build confidence and loyalty, it can also be time consuming because we must wait for our customers to respond and vice versa in order to complete transactions. As a result, selling on social media platforms like Instagram will only be appropriate if we are selling bespoke products that require more conversation, as opposed to selling products like snacks where it can be more straightforward and time saving.

### **2.2 Solution for the problems**

Based on all the challenges that we might face if we were to sell our product on an online marketplace, we decided to create a unique e-commerce website for our business. By having our own website, we will have the right and flexibility to determine the overall look of it and the presentation of products. The design and colours used of our business will be based on the colour and design theory for our target audience - teenagers to increase overall brand attractiveness. The website will be fully focused on our brand and product and have limited pop-up advertisements to avoid the case where customers are distracted by products of other brands.

In addition, to ensure a seamless checkout experience, our website will provide a variety of payment and delivery alternatives for our consumers. Customers will not have to worry about the security of their money or transaction because our website offers an authentic and secure payment service.

### **3 Project Goals**

Our goal for this project is to develop a user-friendly e-commerce website by the end of 2021 so that Malaysians, particularly teenagers who adore potato chips, can order our products in a few simple steps through the website whenever they have a craving.

### **4 Project Objectives**

- i) To produce an e-commerce website that can best represent our brand identity.
- ii) To produce an e-commerce website with clean and user-friendly interfaces. And also, to ensure that every page of the website will have a consistent look
- iii) To produce an e-commerce website with a fast and simple navigation / check out process.
- iv) Ensure that the website is bug free, robust and able to perform error prevention.

### **5 Scope of Work**

This project involves developing an e-commerce website with the objective of solving existing problems in general e-commerce websites. The scope of the project is limited to building an interactive e-commerce website that improves the functionalities of e-commerce websites. The user interface will be designed as part of the project to maximize users' experience when browsing the website. An e-commerce website will be built by the end of year 2021, where a variety of packaged snacks will be sold to snack consumers in Malaysia.

## 6 Storyboarding and Layout

### 6.1 Colour Scheme Determination



Figure 2: Colours used for our website

We decided to use a complementary colour scheme for our e-commerce website. The main colours are orange (#F45314), yellow (#FFB001) and blue (#0544E2). This is due to the fact that brilliant complementing colours can attract customers' attention and help our company to establish a powerful brand. Aside from that, yellow and orange are chief food colours. Since we sell chips on our website, it piques people's interest and boosts their desire. This combination has been claimed by the fast-food industry for a reason as it is effective [6].

Furthermore, employing blue in web design for optimism might help customers feel hopeful about our products and services, making them more likely to make a purchase. Although the majority believe it won't work for food packaging or websites because studies [7] show blue to be a natural appetite reducer, not everyone agrees. According to Schlintl and Scheinle's research [8], the background colour of a food website and food packaging had no effect on food desire or eating propensity.

We have also implemented black (#000000) and white (#FFFFFF) colours as the secondary colours of our websites. Both of these colours are sleek and neutral, and they signify modernity. Studies [9] have also found that late teens often have a predilection for black, which researchers believe is due to a psychological need for black during the shift from childhood innocence to grownup sophistication.

## 6.2 Navigation Structure of the Website

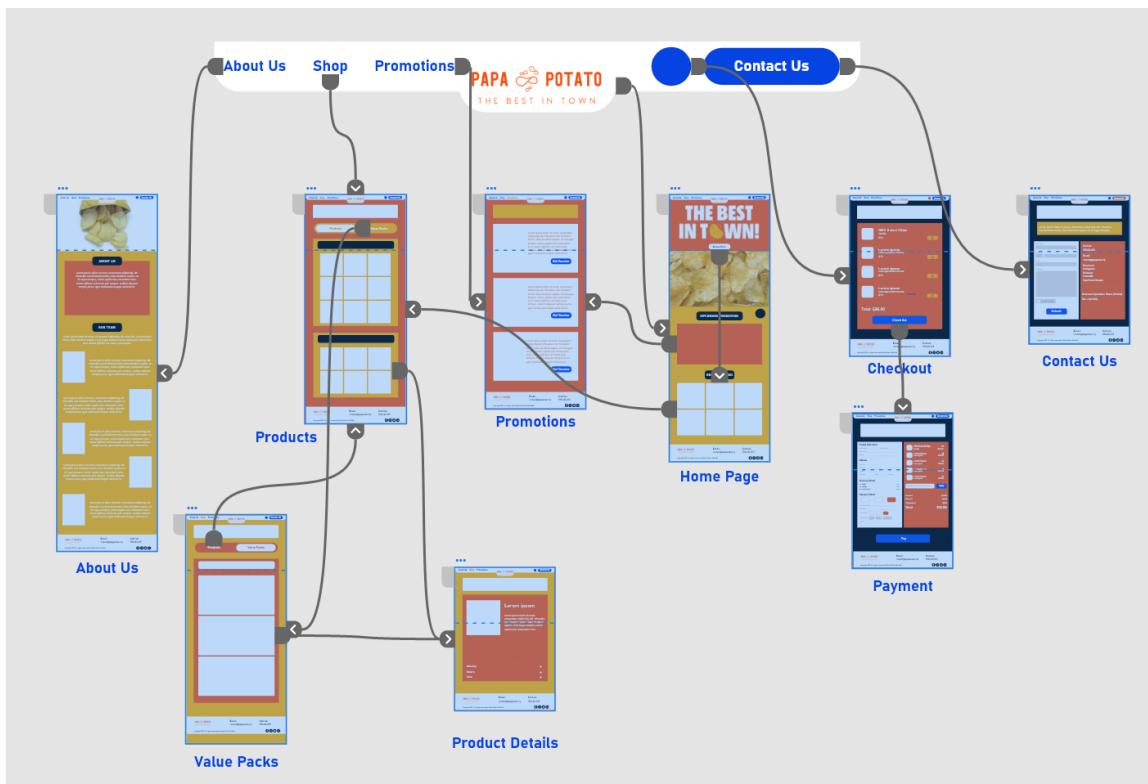


Figure 3: Website Navigation Structure

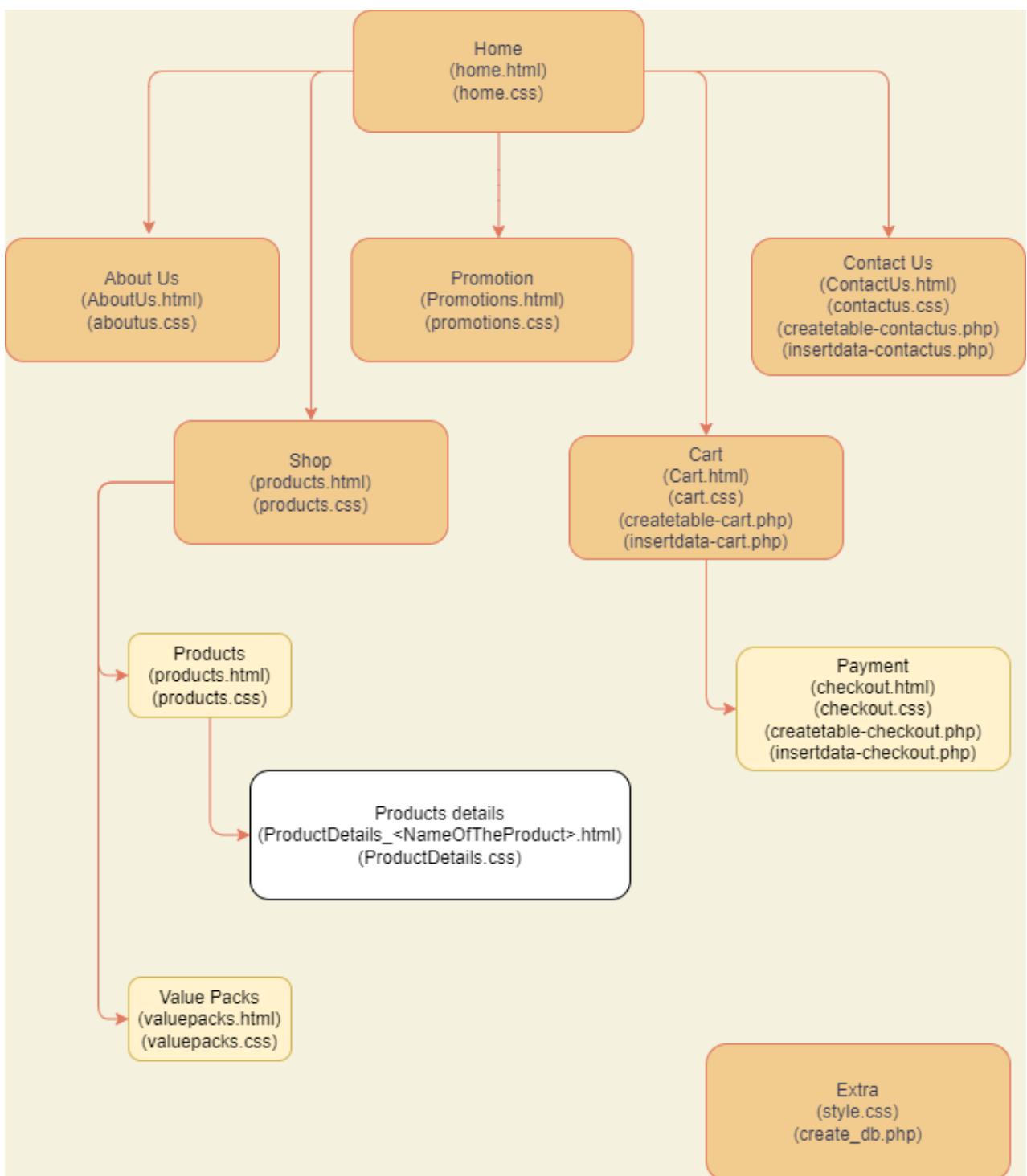


Figure 4: Pages/Files for the Website

### 6.3 Layout and Flow Plan Justification

#### 1) Home Page



Figure 5: Navigation Bar

On our e-commerce website, the same navigation bar and footer will be applied to all of the webpage to maintain the consistent look of the overall website.

According to a Baymard study [10], poor site navigation leads users to false conclusions easily and it might burden them with our offers. Since we are having only a few pages and limited products on our website, we decided to implement a simple and neat navigation bar with only a logo and a few titles of the page such as about us, shop, promotions, cart and contact us which can direct the user to another desired page.

We decided to centre the logo in the navigation bar to increase our brand awareness as it is the direct representation of our brand, products, and service.

The navigation bar will be fixed at the top of the website so that it will be always visible to the user for them to navigate to other web pages easily.



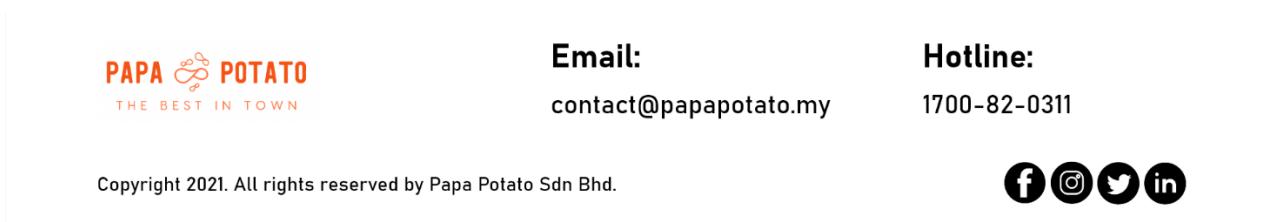


Figure 6: Footer

Footer will include the logo of our brand and our contact details such as phone number, email address, and social media accounts. The social media icons will link the users to our corresponding social media account. Since there will be a footer in every page of our website, it allows the user to check out our other social media platforms anytime instead of only including it in our contact us page. By doing this, it will help to increase our brand exposure.

*\*Since this project doesn't require us to create some social media accounts for our brand, we will link the social media icons on our website to the login page of the respective social media.*

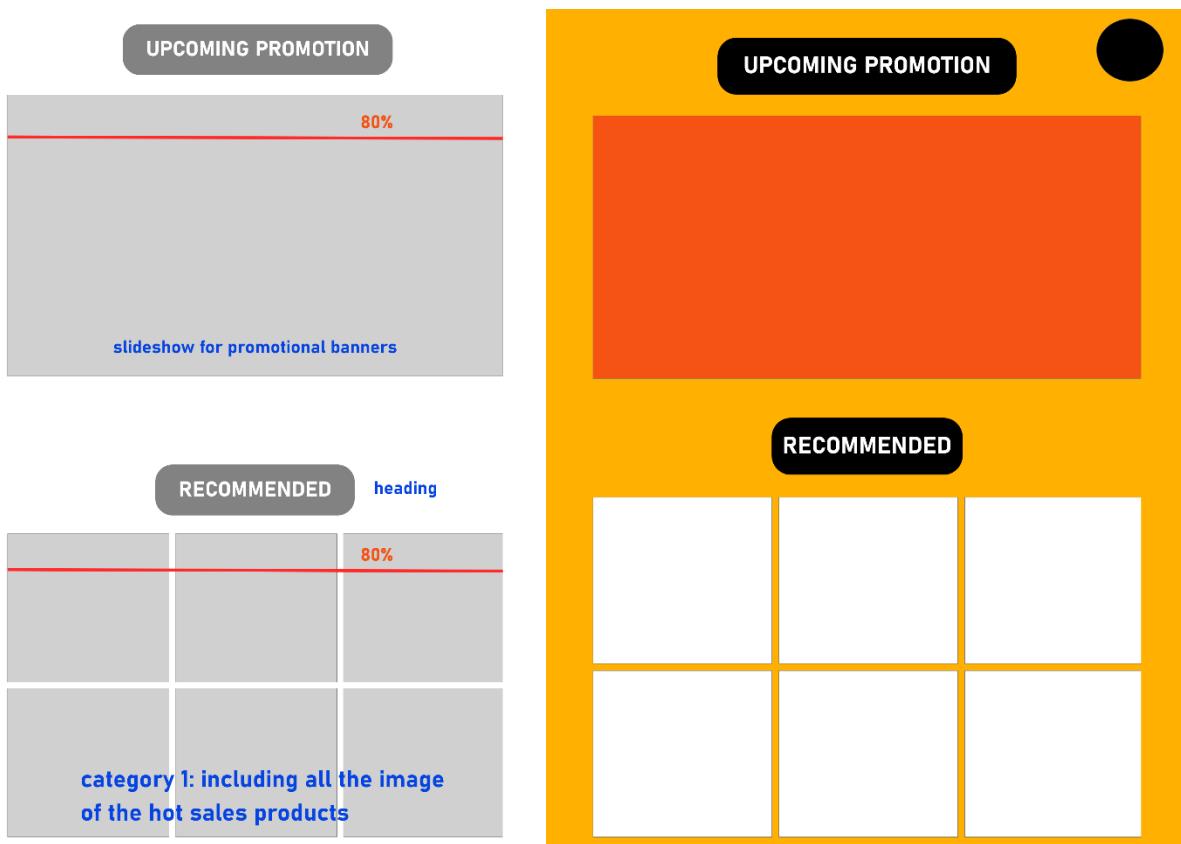


Figure 7: Promotion and Product Section

There will be a promotion section in our home page to give our customers an idea of what promotions that we are currently offering when they first click onto our website. We plan to display the promotion banners in a slideshow manner so that users will be able to cycle through the promotions one by one. Since it is an on-page animation element, it will also provide some interaction with user and make the website more interactive, playful and less boring.

There will also be a product recommendation to give users an idea of what to buy. When the user clicks into the image of the product, they will be directed to the product details page.

## 2) Product Page

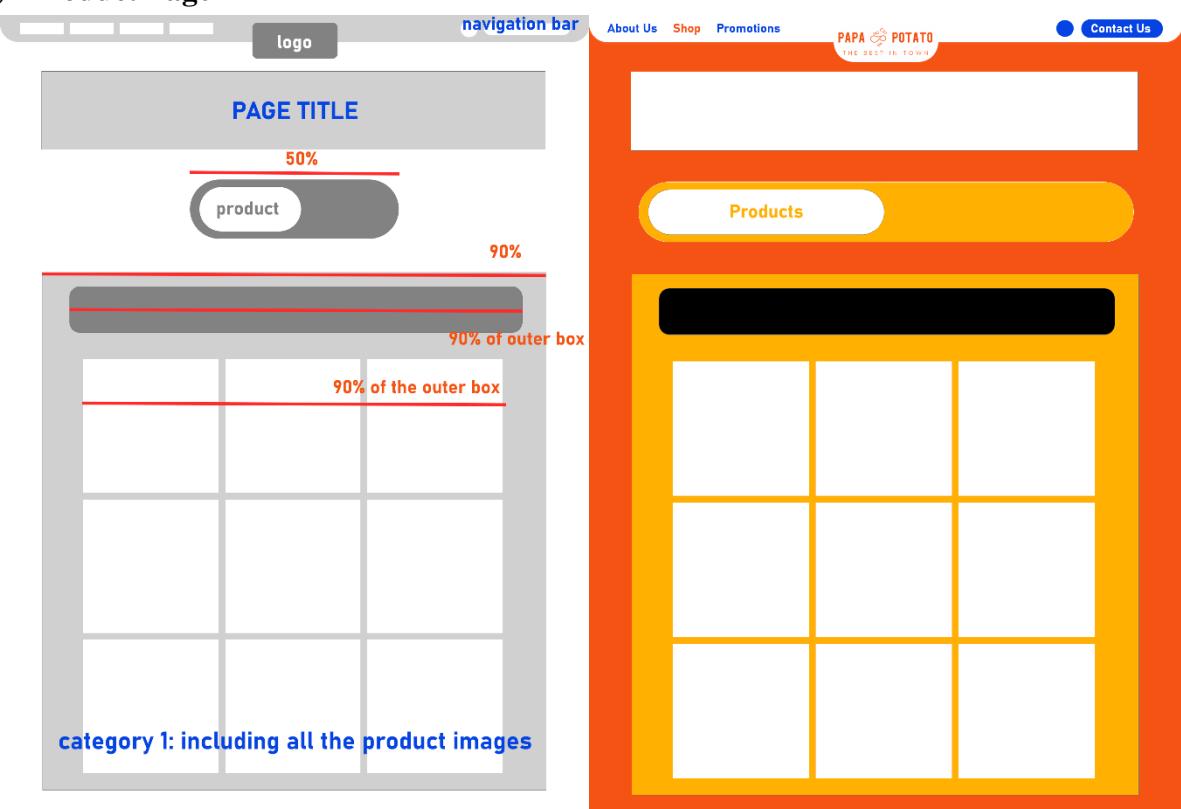


Figure 8: Product Page Layout

Our brand sells individual products and value packs on the website. Therefore, we will be having two pages for shop, one of the pages is for our individual products and the other one is for value packs to display all the products we sell.

All the products in the page will be displayed in grid structure as it is neat and well ordered. This allows the users to quickly find the information they need.

### 3) Product Details Page

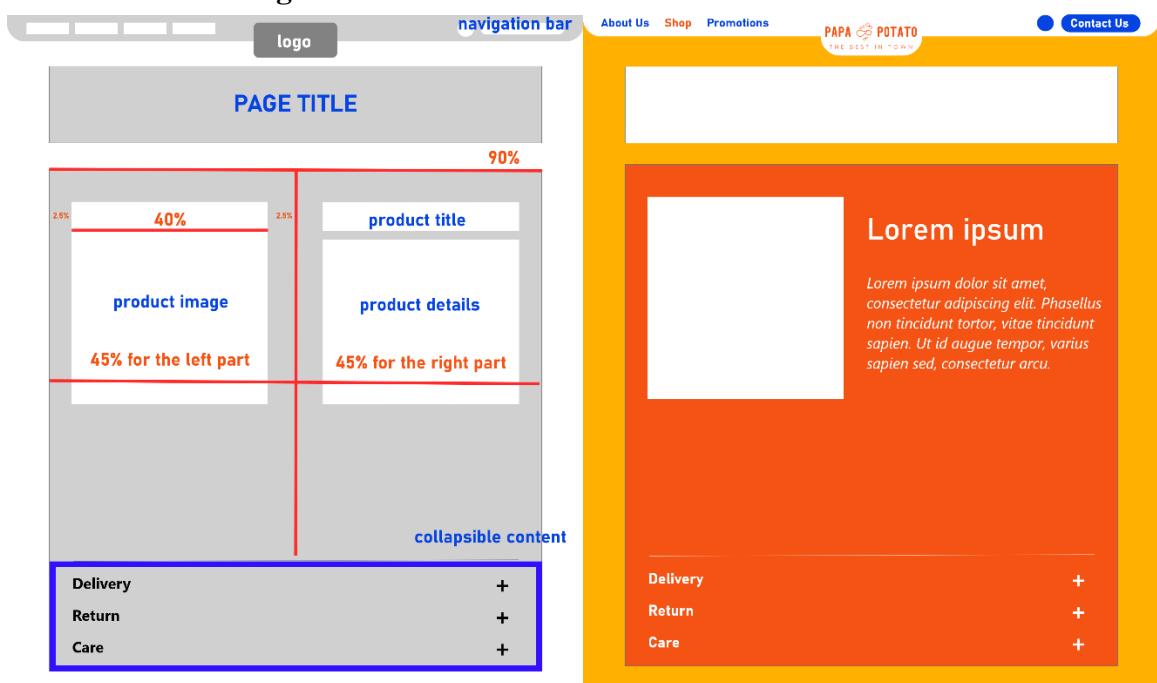


Figure 9: Product Details Layout

The product details page will include all necessary information for a specific product such as the product name, description, weight and price. There will also be 3 collapsible bars at the bottom part to allow the user to know more information before they purchase. The reason of adding all the information into a collapsible area is to hide the information by default to prevent information overload on the page and maintain a clear and minimalistic display screen when the users first click into the page. The information will only be display to the user if they are interested to know more by clicking the bar.

#### 4) Promotion Page

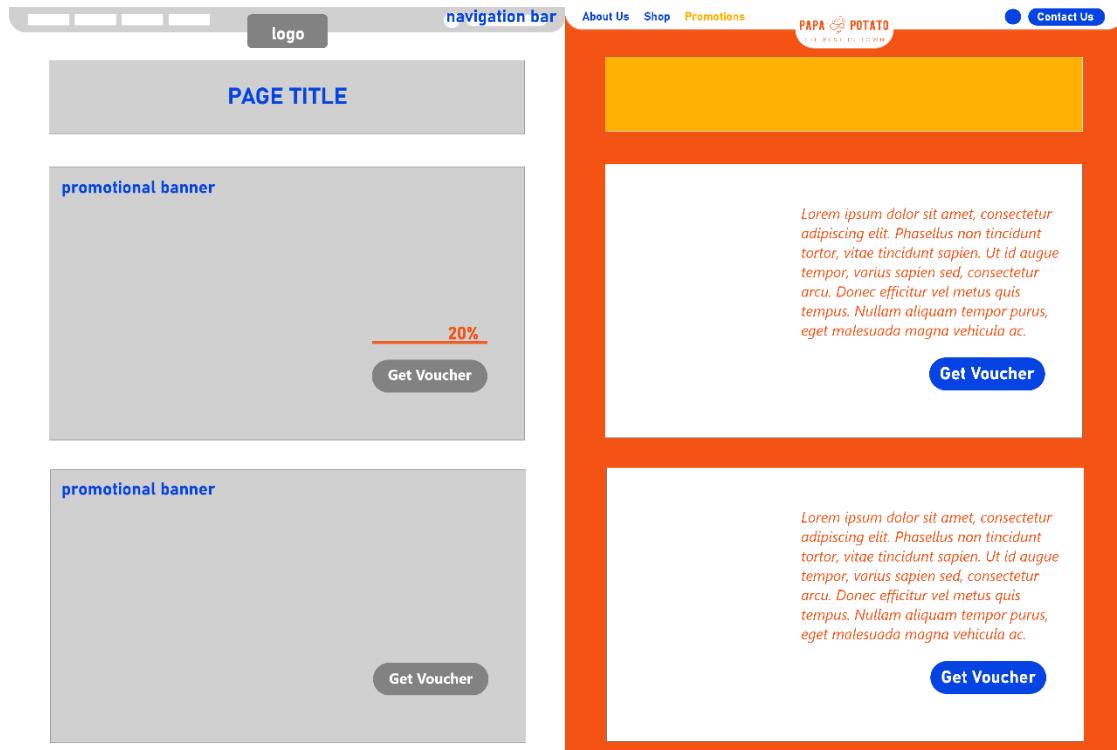


Figure 10: Promotion Page Layout

The promotion page will include all the detailed information of the offers that we are currently having.

## 5) Cart Page

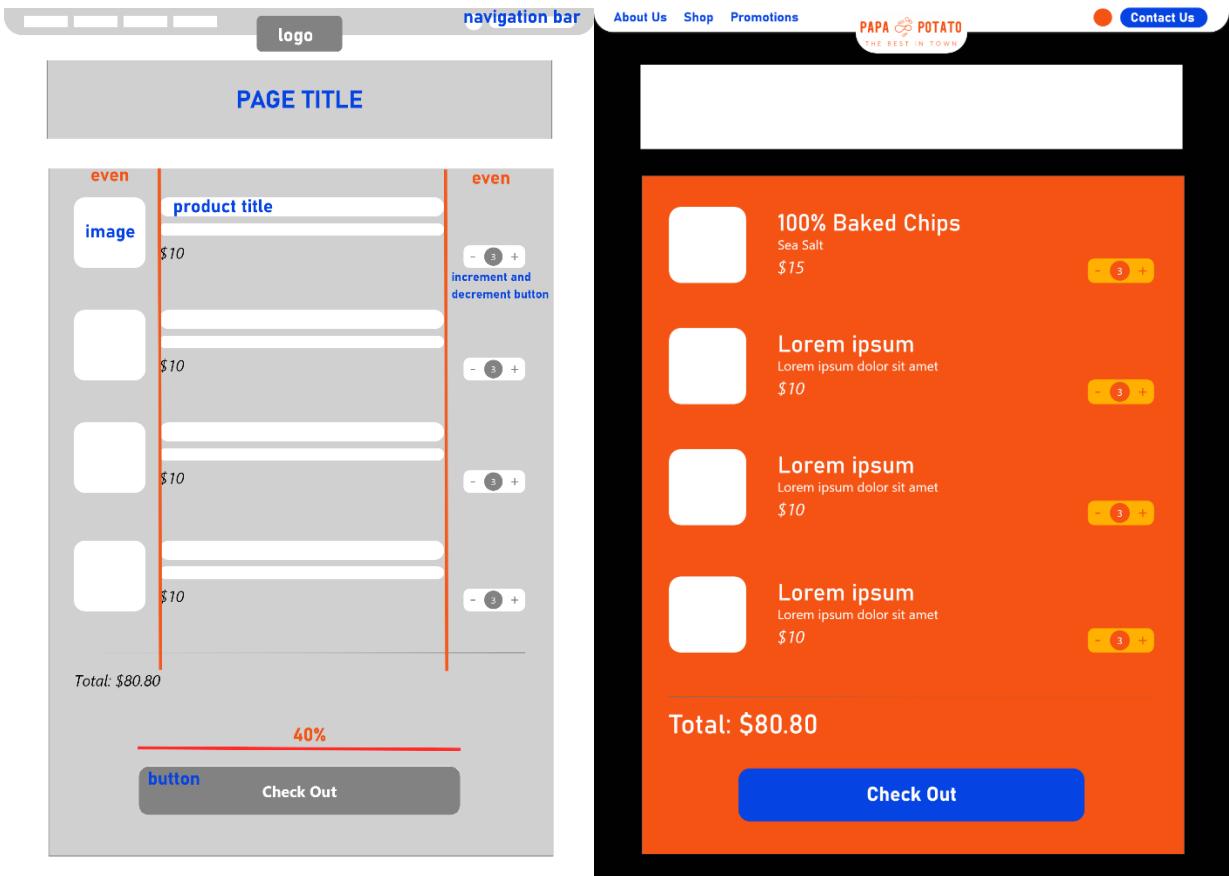


Figure 11: Cart Page Layout

Since our website is currently selling less than 15 products, we plan to list down all our products in the cart for the users to insert the quantity of each of the products they would like to purchase.

There will also be a check-out button at the bottom of the page to redirect the users to the payment page for check out. The colour of the button will be in blue so that it stands out from the overall page and increase the check-out call-to-action (CTA) conversion rate.

## 6) Payment Page

**PAGE TITLE**

**navigation bar**

**logo**

**payment form** 45% 45%

**Contact Information**  
First Name \_\_\_\_\_ Last Name \_\_\_\_\_  
Phone No. \_\_\_\_\_  
Email \_\_\_\_\_

**Address**  
Unit No. \_\_\_\_\_  
Street 1 \_\_\_\_\_  
Street 2 \_\_\_\_\_  
Postcode \_\_\_\_\_ State \_\_\_\_\_ Country \_\_\_\_\_

**Shipping Method**  
• FedEx Free  
• PostShuttle \$2.00  
• Lorem Ipsum \$5.00

**Payment Method**  
Name on Card \_\_\_\_\_  
Card No. \_\_\_\_\_  
Card Type \_\_\_\_\_  
Expiry Date \_\_\_\_\_  
CVV \_\_\_\_\_

**button**

**About Us** **Shop** **Promotions** **PAPA POTATO** **Contact Us**

**Pay**

Figure 12: Payment Page

In the payment page, we design a single-page check out form at the left column of the page for the users to insert all their relevant contact and personal information such as name, phone number, house address, preferred shipping method and preferred payment method. By putting all the required fields in one page, this will make the check-out process faster and less tedious to avoid cart abandonment.

## 7) Contact Us Page

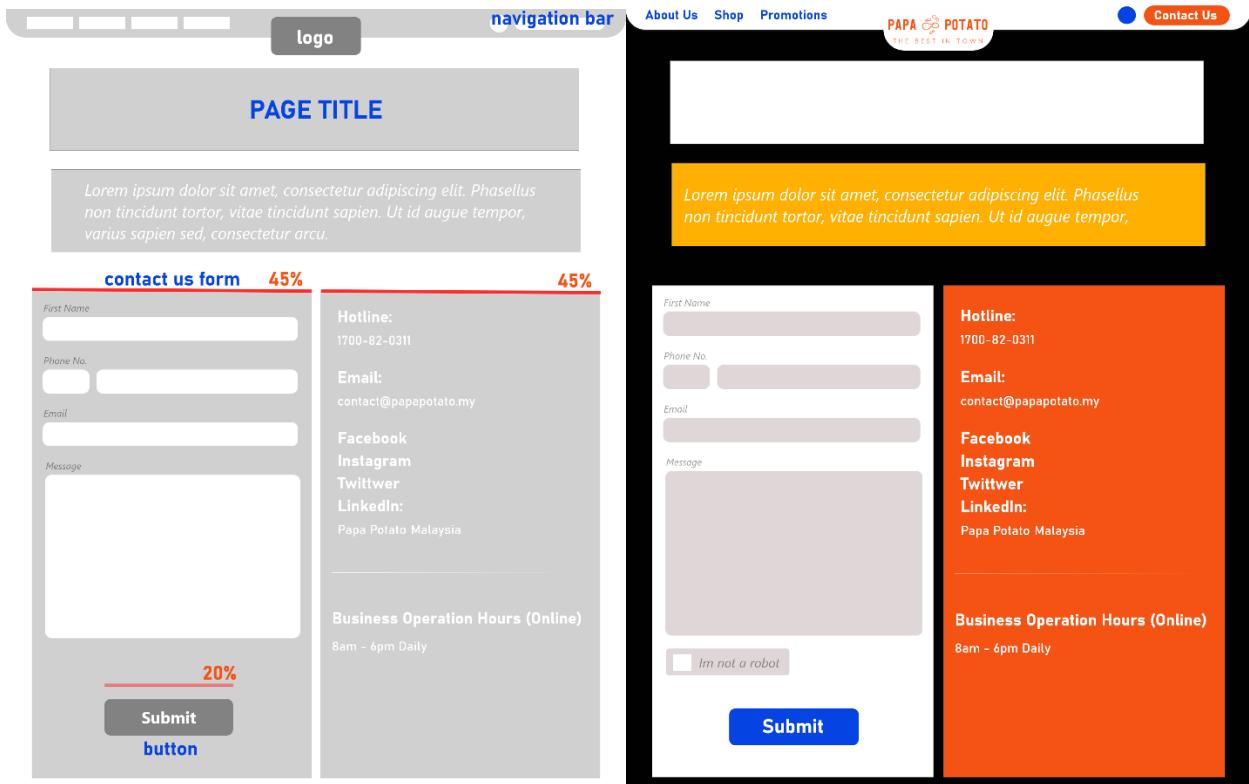


Figure 13: Contact Us Page

In the contact us page, we designed a form at the left column for the users to drop us a message. By having a contact form on our website, this will make us to look more reachable. The form will also allow us to keep track on the inquiries we have received from our customers as the information in the submitted forms will be stored in our database.

On the other hand, the right column of the contact page will include our business operation hours and all our contact details such as phone number, email address, and social media accounts. This is to provide the users with more alternative ways on how they can get in touch with us.

## 8) About Us Page

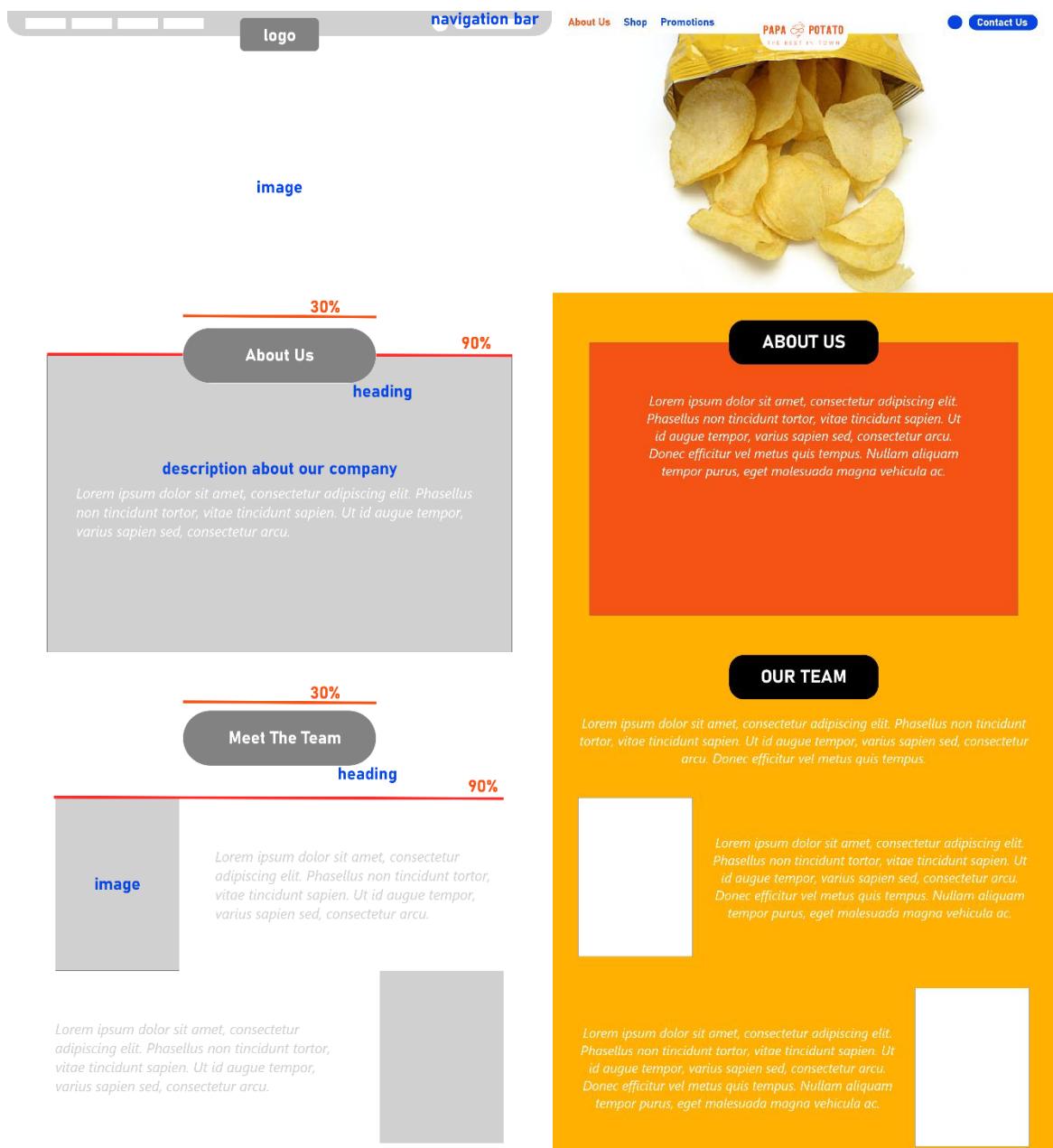


Figure 14: About Us Page

We plan to implement an About us page because this page is often one of the most visited pages on e-commerce websites. Since we are only doing our business online, some of the customers would want to know more about who the people are behind the company.

The about us page will contain a brief summary of our brand's history and what is all our brand about, followed by the introduction of our team.

## 7 Methodology and Requirements

### 7.1 Requirements of the website based on objectives

#### i) The website must have clean and consistent interfaces.

Teenagers hate to read much on the internet as they have got enough of it at school. [11] They are also particularly despising small font sizes on websites because it forces them to pause and spend more time trying to comprehend the material. In fact, most of the people will just scan through the paragraph content of an e-commerce website instead of reading it word by word. Therefore, the first requirement of our website is to have a clean layout with appropriate amount and size of content according to the design principles. Text content will be replaced with visual elements such as graphical images and on-page animations whenever it is possible.

#### ii) The website must have fast and simple navigation and check out process

We decided to limit the items in the navigation bar of the website so that users' eyes are less likely to skip over vital information. The labels in the navigation bar must be as explicit and clear as possible, so that users could predict the content inside each label before they click into it.

Besides that, the website must also be able to support a guest checkout option where the customers may make purchases without having to create an account. To avoid a lengthy checkout procedure that may result in increased shopping cart abandonment on our website, a single page checkout form with only a few fields that collects the required information will also be implemented on our website.

#### iii) The website must be bug free, robust and able to perform error prevention

As is known to everyone, a bug free website will leave a bad impression for the audience. To ensure a universally optimal experience, the e-commerce website must be able to load fast and display all information correctly on all major browsers like Firefox, Chrome and Internet Explorer.

Apart from this, error prevention is the #5 criteria in the 10 Nielson's heuristics of usability. This is to better prevent the users from making mistakes in the first place. Therefore, our e-commerce website must be able to perform error prevention such as supporting undo and able to validate user input before the user proceed to the next step and before storing the input into our database.

## 7.2 Methodology

In order to achieve our first and second objective which is to ensure that the website that we produce can best represent our brand identity with minimal, consistent and user-friendly interfaces, we managed to display clean and consistent layouts with an appropriate amount of content throughout the website. The font size and font family used in each section of the webpages were the same. The domain colours of our brand - white, black, blue, yellow, and orange are also the only colours that were used on the website.

Besides that, we have applied JavaScript to hide the extra information. Therefore, each webpage will only display vital information and some visual elements by default to avoid information overload happening at first glance. To ensure that the website is user interactive and fun, we have also added in some on page animation such as slideshow banner using JavaScript.

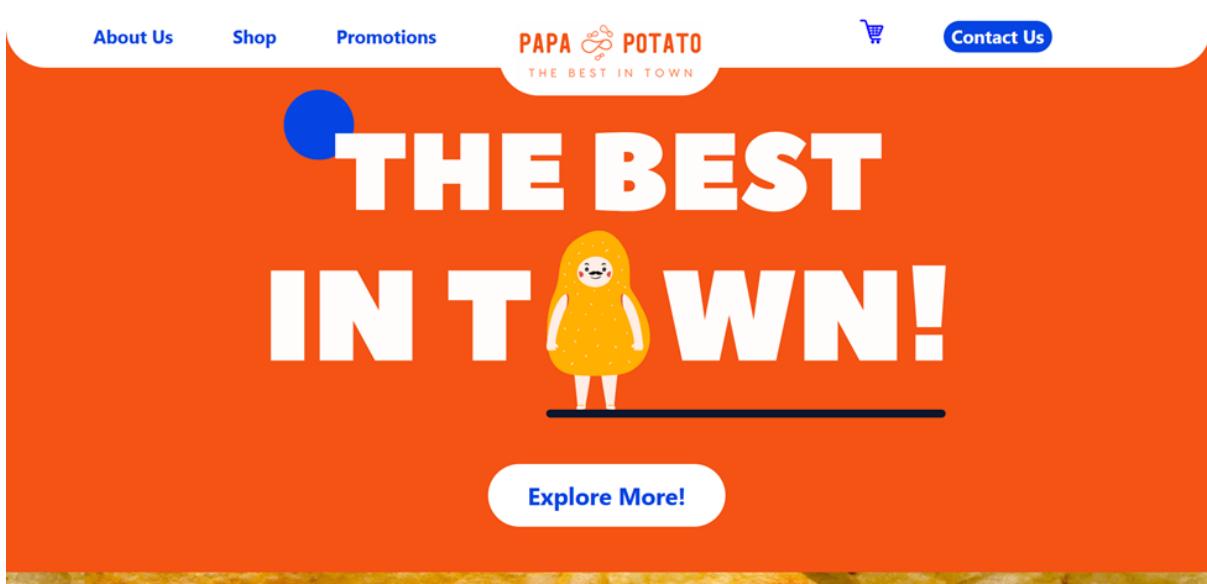


Figure 15: Web Page with domain colours and visual elements

Secondly, to achieve the objective of producing a website with fast and simple navigation, the navigation bar included in every webpage is stuck at the top of each page. This means that even if users scroll down to the bottom of the webpage, the navigation bar will still be displayed at the top of the viewport. Thus, when users want to visit another webpage on the website, they could click on the labels, icons, or buttons on the navigation. A single click on the items will direct them to that particular page with a link to that webpage instantly.



Figure 16: Fast and simple navigation bar

In addition to achieve the third objective which is to ensure an effective check out process on our website, we have also excluded account sign-up/log-in process on the website to allow the users to browse through the website freely and conveniently as a visitor. They will only be required to fill in their personal details when they are ready to check out. The single page check-out form will only collect users' necessary information such as contact details, shipping details and payment details to prevent lengthy checkout. This will make the overall check out process faster and less tedious.

A screenshot of a single-page checkout form for "PAPA POTATO". The form is divided into several sections: "Contact Information" (with fields for First Name, Last Name, Phone No., and Email), "Address" (with fields for Unit No., Street 1, Street 2, Postcode, State, Choose State, and Country - set to Malaysia), "Shipping Method" (with options for GedEx (selected), Postlaju, and Lalamove, each with associated costs: Free, RM10.00, and RM15.00), and "Payment Method" (with options for Cash On Delivery (selected), TNG eWallet, and Debit / Credit Card). The background of the page is orange on the right side and black on the left side.

Figure 17: Single page checkout form

After the design and layout of the website is successfully implemented, we performed cross-browser testing on the major browsers, such as Firefox and Chrome. We have ensured there is no broken link found on our website and the contents are correctly displayed on the website. In addition, we also performed data validation checks for form submissions. If users did not fill up the required fields in the form, a pop-out error message will be shown on the fields to remind them to enter an input. If users submit a form with inappropriate data, an error message about the reason for the failed submission will be displayed. Thus, this achieved our fourth objective which is to build a bug free and robust website that is also able to perform error prevention.

The screenshot shows a contact form on a website for 'PAPA POTATO'. The form includes fields for Name, Phone Number, Email, and Message. A validation error message 'Please fill out this field.' is displayed over the 'Message' input field. The right side of the page features the Papa Potato logo and contact information: phone number 1700-82-0311, email contact@papapotato.my, and social media links for Facebook, Instagram, Twitter, and LinkedIn. It also lists business hours from 8am to 6pm daily.

**About Us**   **Shop**   **Promotions**

**PAPA POTATO**  
THE BEST IN TOWN

Name: xyz

Phone Number: +60 12345678

Email: 123@gmail.com

Message:

Please fill out this field.

Submit

Business Operation Hours: 8am - 6pm Daily

Figure 18: Error prevention message

## 8 Implementation and Result

### 1) Page layout

**Description:** There will be a navigation menu on top of each page which will allow users to navigate through the pages that they wish to go to easily. This will give all the pages a consistent look. The navigation menus will always stick on the top and are always accessible to the user even if the user decides to scroll down.

**Implementation:** the top sticky navigation is implemented by using [position: sticky; top: 0; z-index: 999999;]. The navigation menu is made of one flex container with three divisions inside. The right and left divisions have an unordered list of about us, products, and contact us and the middle division has the logo picture. Which is implemented by using:

```
<div class="nav_container">
  <nav>
    <div class="left_menu">
      <ul class="menu">
        <li><a href="AboutUs.html">About Us</a></li>
        <li><a href="products.html">Shop</a></li>
        <li><a href="Promotions.html">Promotions</a></li>
      </ul>
    </div>

    <div class="logo_menu">
      <a href="home.html" class="logo" id="logobutton"></a>
    </div>

    <div class="right_menu">
      <ul class="menu">
        <li><a href="Cart.html"></a></li>
        <li><a href="ContactUs.html" id="contactUsbutton">Contact Us</a></li>
      </ul>
    </div>
  </nav>
</div>
```

Figure 19: Coding for the Navigation menu

When each of them is clicked, the user will be directed to a different page. For example, if the logo picture is clicked, the home page is displayed using:

```
[<a href="home.html" class="logo" id="logobutton"></a>
```

They will each change colour when the user hovers over them. This is done by menu li a:hover{color: #FFB001;}.

There is also a footer with one flex container and two divisions inside. The first division has three division inside for the logo, email and hotline. The second division has two divisions, one for the copyright which is inside a p tag and the other division for the social media icons which is an unordered list of 3 images.

Since each page has a different look, there are two different .css files in each page using the external css method. One is for the general style of the pages like the navigation and the footer. The other one is unique for each page. This is implied by using:

```
<link rel="stylesheet" href="style.css" type="text/css">
<link rel="stylesheet" href="products.css" type="text/css">
```

Figure 20: example of using the external css method

The body of all the pages have the background color of #F45314 and across all the pages only the colors of #FFFFFF, #FFB001, #0544E2, #000000 have been used to give all the pages a consistent look.

### Result:



Figure 21: Navigation menu



Figure 22: Footer

## 2) Home page

There is a slide show which will display the images of the promotions in the homepage to attract the users, this is done by using the codes below using JavaScript:

```
<script>
var slideIndex = 1;
showSlides(slideIndex);

// Next/previous controls
function plusSlides(n) {
    showSlides(slideIndex += n);
}

// Thumbnail image controls
function currentSlide(n) {
    showSlides(slideIndex = n);
}

function showSlides(n) {
    var i;
    var slides = document.getElementsByClassName("mySlides");
    var dots = document.getElementsByClassName("dot");
    if (n > slides.length) {slideIndex = 1}
    if (n < 1) {slideIndex = slides.length}
    for (i = 0; i < slides.length; i++) {
        slides[i].style.display = "none";
    }
    for (i = 0; i < dots.length; i++) {
        dots[i].className = dots[i].className.replace(" active", "");
    }
    slides[slideIndex-1].style.display = "block";
    dots[slideIndex-1].className += " active";
}
</script>
```

Figure 23 : JavaScript Code for slideshow

There is a list of recommended products at the bottom of the page.

Result:



Figure 24: Slideshow Section

### 3)Products page

**Description:** There is a heading of blue color “Products” in the products page. Below that there is a button named “Value Packs” on the left which will allow users to go to the value packs easily when they click on the button. Next, there are two sections for the products. The first section is the “Thick cut chips” which has 6 different flavours of chips. The second section is the “Wavy chips” which also includes 6 different flavours of chips. Each section has 2 rows with 3 columns each. Each of the columns have a picture of a product. When a product is clicked, the user will be directed to the product details page.

**Implementation:** the top heading of “Products” is displayed in a h1 tag with a white padding using: h1{ background-color: white; color: blue; text-align: center ; padding: 20px; }.

The value packs button on the top left of the page is in a division with a class of .orangeButtonBox that has width: 95%; border-radius:70px; background-color: #FFB001; margin: 4% auto 4% auto; text-align: center; then the button is inside an unordered list using:

```
<div class="orangeButtonBox">
<div style="padding: 1% 0%;">
    <ul class="menu" style="margin: 0% 44% 0% -7%;" > <!-- White Value Packs Button-->
        <li style="width: 89%;">
            <a href="valuepacks.html" id="valuepacksbutton" style="padding: 3%;>Value Packs</a>
        </li>
    </ul>
</div>
</div>
```

Figure 25: Coding for the Value packs button

The heading of each section is inside a h1 tag with a style of :

```
h4{
background-color: black;
color: white;
border-radius: 15px;
margin: auto;
padding: 25px;
width: 80%;
margin-top: 30px;
text-align: center;

}
```

Each of the two sections of products is a division which is a flex container (display: flex) with a class of "products\_container" for 6 flex items :

```
.products_container{
background-color: orange;
display: flex;
```

```
margin: 3rem auto;
padding: 3rem;
flex-wrap: wrap;
justify-content: space-between;
margin-top: 0;
}
```

There are 3 flex items per row with a white padding, this is done by setting the flex-wrap: wrap; and setting each flex item to have a class of:

```
.product{
background-color: white;

padding: 6px 6px 0px 6px ;
border-radius: 4px;
margin-bottom: 20px;
text-align: center;
flex-basis: 30.5%;

}
```

The product name is inside a h5 tag that has the style of :

```
<h5 style="color: black; margin-top: 0px; ">product name</h5>
```

### Result:



Products

Figure 26: Products heading



Value Packs

Figure 27: Value pack button

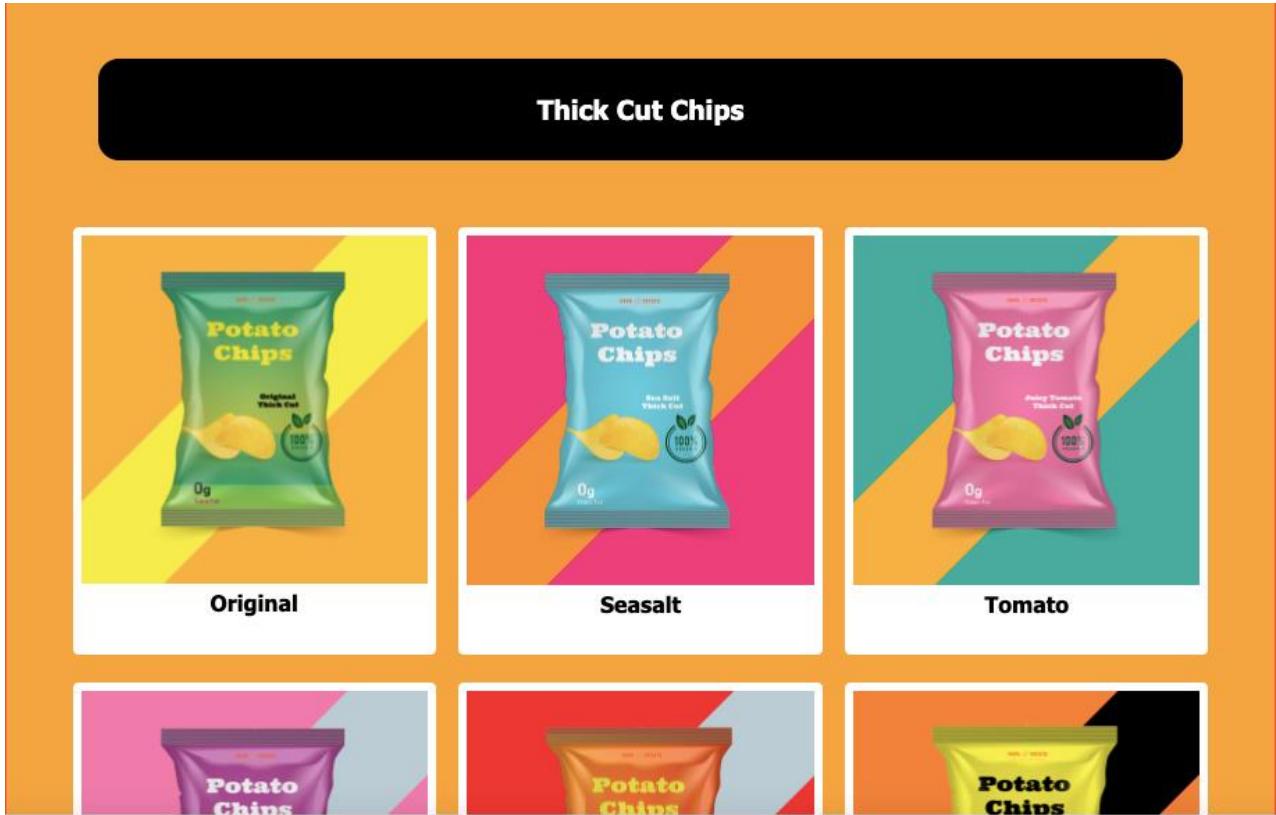


Figure 28: Products

#### 4) Product details page

**Description:** There is a product details page for each product, the user will be directed to the product details page when the click on a product in the products page. The product details page have an orange heading of “Product Details” with a white background. Below the heading, is the product image on the left and its description on the right. Below the image and image description, are three collapsible buttons of “Delivery”, “Refunds and Replacement” and “Care”. This will allow users to click on each button for more information.

#### Implementation:

There is a section tag with one main flex container with 5 flex items inside. The left division has the image of the product, and the right division has the description of the product. The image division has a class of:

```
.right-col img{
    width: 60%;
    margin: 50px 100px;
}
```

The product description division has a class of :

```
.left-col{
    flex-basis: 50%;
    text-align: justify;
}
```

Next, there are 3 divisions for each button at the bottom of the flex container. the cursor will change to a pointer when each button is clicked, this is done by using [cursor: pointer;]. The button will also change its colour to hsl(20, 100%, 48%), and its background colour to rgb(255, 251, 251), when it is clicked or hovered over by the user. This is done by using the class:

```
.active, .collapsible:hover {
background-color: rgb(255, 251, 251);
color:hsl(20, 100%, 48%);
}
```

Each button will display another division for its description. When it is clicked by the user, below is the coding used for buttons:

```
<button class="collapsible">Delivery</button>
<div class="content">
<p>Orders are shipped 2 or 3 Day with either GedEx, Lalamove or PostLaju, depending on your preferred shipping option.  
The order placing cut off is Wednesday at 1:00pm MYT to receive delivery the same week.  
Deliveries are made during weekdays only, no exceptions.</p>
</div>
<button class="collapsible">Refunds and Replacements</button>
<div class="content">
<p>Due to the perishable nature of our products, we do not accept returns.  
In the event you are dissatisfied with your purchase, you must contact us within 5 days from receiving your order.  
We reserve the right to limit refunds and replacements, and we can only offer one replacement per consumer.</p>
</div>
<button class="collapsible">Care</button>
<div class="content">
<p>Please keep the products away from the sun upon receiving. We are committed to using only the highest quality ingredients.  
Our products have no artificial preservatives or coloring and properly stored in shaded areas will remain fresh and delicious for approximately nine months. </p>
</div>
<br>

<script>
var coll = document.getElementsByClassName("collapsible");
var i;

for (i = 0; i < coll.length; i++) {
  coll[i].addEventListener("click", function() {
    this.classList.toggle("active");
    var content = this.nextElementSibling;
    if (content.style.maxHeight){
      content.style.maxHeight = null;
    } else {
      content.style.maxHeight = content.scrollHeight + "px";
    }
  });
}
</script>
,
```

Figure 29: Coding for the Collapsible buttons

## Result:



### BBQ Thick Cut

**Description**

It all starts with farm-grown potatoes, cooked and seasoned to perfection. Then we add the spicy sweetness of BBQ sauce. So every Papa Potato's® potato chip is perfectly crispy and full of fresh potato taste. Happiness in Every Bite.®

**NET**

90g

**Price**

RM 6

**Delivery**

Orders are shipped 2 or 3 Day with either GedEx, Lalamove or PostLaju, depending on your preferred shipping option. The order placing cut off is Wednesday at 1:00pm MYT to receive delivery the same week. Deliveries are made during weekdays only, no exceptions.

Figure 30: Example of Product details page

## 5) Value packs page

**Description:** There is a heading of blue color “Value packs” in the value packs page. Below that there is a button named “Products” on the right which will allow users to go to the products page easily when they click on the button. Below the button are two images of different value packs.

**Implementation:** there is a flex container with 3 flex items, the first flex item is a division for the value packs’ information. The next two flex items are the images of the value packs.

**Result:**



Figure 31: Value packs page

## 6) Promotions page

**Description:** There is a heading of blue color “Promotions” in the Promotions page. Below that are three different promotions images and their descriptions.

**Implementation:** There are 3 flex containers with style of:

```
.white-container {  
    margin-top: 3.5%;  
    display: flex;  
    flex-grow: 1;  
    flex-direction: row;  
    flex-wrap: nowrap;  
    background-color: #ffffff;  
    height: fit-content;  
    width: 98%;  
    padding: 1%;  
}
```

Each of the containers have two flex items. The flex item on the left has the image of the product with the style="padding: 4.5% 0% 4% 4.5%;". While the flex item on the right have the details of each promotion.

## Result:



Get RM10 OFF when you first purchase on Papa Potato's website! Available from January 2022 Onwards.



Get 40% OFF when you spend RM100 or more in one order. Available from January 2022 Onwards.

Figure 32: Promotions page

## 7) Contact us page

**Description:** There is a contact us page to let the users get in touch with us easily through the form. Users will have to insert all their relevant contact information such as name, phone number, email, and the message that they would like to drop us at the left column of the page.

**Implementation:** There are two divisions in this page. In the left division, there is a form with the type of method and action = "insertdata-contactus.php" with different input types like:

```
html class="form">


<label for="name">Name</label>
    <div>
        <input type="text" id="name" name="user_name" maxlength="50" class="user_input" required>
    </div>
</div>


```

Figure 33: Name division with input type of “text”

All the data input by the user in every field will then undergo data validation and sanitization before storing into the database using php once they click the submit button at the bottom. The right division displays contents like the hotline, email and social media accounts, etc. each content will be in a h4 tag and its description in a p tag.

## Result:

The screenshot shows a contact form on the left and a sidebar on the right. The form fields include Name, Phone Number, Email, and Message, each with a placeholder text area. To the right, there is a red sidebar with contact information: Hotline (1700-82-0311), Email (contact@papotato.my), and social media links for Facebook, Instagram, Twitter, and LinkedIn, all pointing to Papa Potato Malaysia. At the bottom of the sidebar, it says Business Operation Hours (Online) from 8am - 6pm Daily.

Name	1700-82-0311
Phone Number	contact@papotato.my
Email	Facebook / Instagram / Twitter / LinkedIn: Papa Potato Malaysia
Message	Business Operation Hours (Online) 8am - 6pm Daily

Figure 34: Contact us page

## 8) About us page

**Description:** There is a about us page to let the users know more about our team and the job for each member. There is an image of one for our products at the top of the page. Below that is a small about us. Then there is an image of each member and a small description about him/her.

**Implementation:** The top image has a width="100%". The about us is in a p tag inside a division with the style of:

```
.aboutus{background-color: #F45314;  
color: #FFFFFF;  
padding: 40px;  
margin: 8%;  
margin-top: 0;  
text-align: center;}
```

there is a division with 5 divisions inside. Each division has a style of:

```
member{display: inline-flex;
margin: 20px;
margin-bottom: 40px; }
```

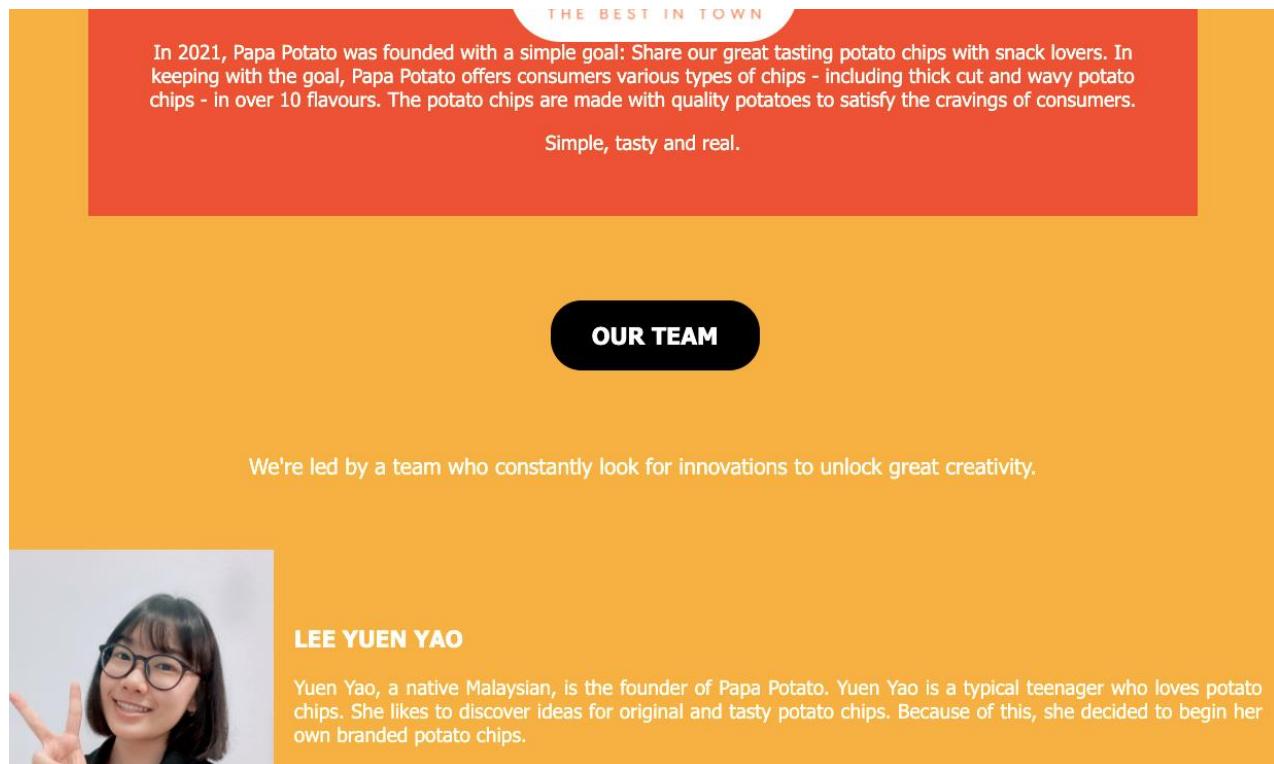
each of these divisions also have two divisions inside. One division has the image of each member and the other division has the description of the member:

```
<div class="member">
<div class="image">

</div>
<div class="about">
<h3>HAR KAI YUN</h3>
<p>The "Director of Taste", Kai Yun is a university student. She is interested in exploring snack foods around the world. Her input on new and unusually flavors helps create descriptions that include details that may resonate with the Malaysian snack lovers.</p>
</div>
</div>
```

Figure 35: Coding for the image and description of each member

## Result:



The screenshot shows the 'About Us' section of the Papa Potato website. At the top, there's a yellow header bar with the text 'THE BEST IN TOWN'. Below it is a red section containing the company's history: 'In 2021, Papa Potato was founded with a simple goal: Share our great tasting potato chips with snack lovers. In keeping with the goal, Papa Potato offers consumers various types of chips - including thick cut and wavy potato chips - in over 10 flavours. The potato chips are made with quality potatoes to satisfy the cravings of consumers.' Underneath this, in white text on a red background, is the slogan 'Simple, tasty and real.' A black button labeled 'OUR TEAM' is centered below the red section. The main content area is yellow and features a portrait of a woman named Lee Yuen Yao. Her name is displayed in bold capital letters above her photo. Below her photo is a short biography: 'Yuen Yao, a native Malaysian, is the founder of Papa Potato. Yuen Yao is a typical teenager who loves potato chips. She likes to discover ideas for original and tasty potato chips. Because of this, she decided to begin her own branded potato chips.'

Figure 36: About us page

## 6)Cart page

**Description:** To make the checkout process easier for the users, all the products with their price are displayed in the cart, so the users will only need to increase the amount of each product they wish to purchase. Their amounts are initially set to zero. After they have chosen the products that they want, for the total amount to be displayed, they must click on the total amount button. There is a reset button next to the total amount button which will reset all the inputs to zero. After clicking on the checkout button, the user will be directed to the checkout page.

**Implementation:** All the products are inside a form with the post method. The image of the products are all in a division tag. The images have a height="150" and are left aligned using ALIGN="left". The product name and the price are each in a span tag. The product quantity is a table inside a division with a style of:

```
.quantity{
    align-items: right;
    margin-left: auto;
    margin-right: auto;
    float: right;
    line-height: 10px;
}
```

The input type is number and the value is set to 0. Below is the coding used for each product:

```
<div></div>
<span class ="productName">BBQ Thick Cut</span> <br><br>
<span class ="productPrice" ALIGN="left"> RM 6</span>
<div class ="quantity">
<table><tr>
| | <td><input type="number" id="display" name="BBQThickCut" width="20" value="0"></td>
</tr></table></div>
```

Figure 37: Coding for each product in the Cart

The total amount button, the quantity and the reset button are all individual cell elements inside a table. The total amount button is implemented by using a java script that calculates the total amount:

```
<td><a id="totalamountbutton" href="javascript:sumInputs()">Total Amount (RM):</a></td>
```

The quantity cell element has an input type of number and the value is set to 0:

```
<td><input type="number" id="total" width="20" name="TotalAmount_RM" value="0"></td>
```

The reset button has a type of reset and once it is clicked the total amount will be set back to zero:

```
<td><input type="reset" onclick="resetInput(total)" value="Reset"></td>
```

At the bottom of the page there is a checkout button with the type="submit" , which is implemented using:

```
<input type="submit" value="Check Out">
```

### Result:

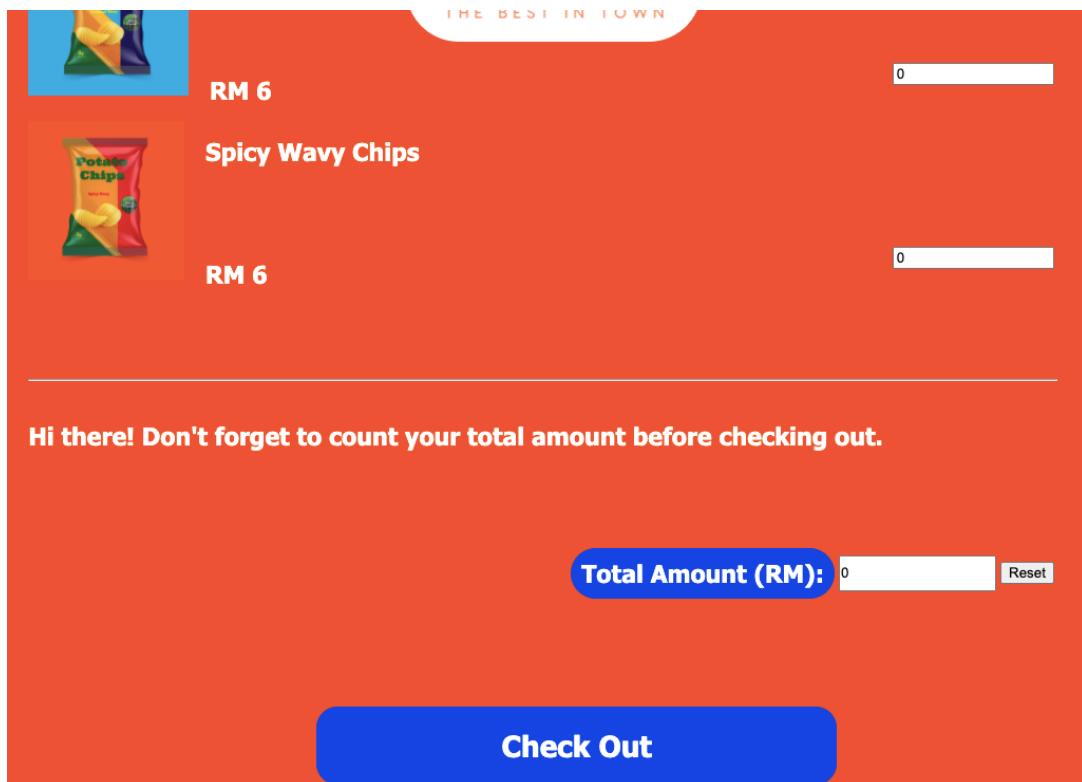


Figure 38: Cart page

### 7)Checkout page

**Description:** After the user have clicked on the checkout button in the cart page, they will be directed to the checkout page. The checkout page includes a form that the user have to fill. The users will have to insert all their relevant contact and personal information such as name, phone number, house address, preferred shipping method and preferred payment method at the left column of the page before completing the checkout and pressing the pay button.

**Implementation:** There are two division in the checkout page that have the float: left. The left division consists of the form for the user contact information. The form has action ="insertdata-checkout.php" and method="post". Each of the required information is in a separate division with a different input type such as:

```

<div class="display">
<input type = "text" id="Fname" name="user_Fname" maxlength="30" class="user_input"
required>
</div>

```

There are 3 payments method with input type of radio inside a division. If the payment method of Debit\Credit card or TNG wallet is selected, the divisions for each id such as the phone number and the 6-digit code will be displayed using:

```

<input type="radio" name="payment" id="GroupName2" value="TNG eWallet" onclick="ShowRadioButtonDiv('GroupName')"/>
<label for="GroupName2" style="width: 30%;">TNG eWallet</label>
<input type="radio" name="payment" id="GroupName3" value="Debit / Credit Card" onclick="ShowRadioButtonDiv('GroupName')"/>
<label for="GroupName3">Debit / Credit Card</label>
</div>

<div id="GroupNamelDiv" style="display:none;"> </div>
<div id="GroupName2Div" style="display:none;">
<div class="form">
<div class="display" style="width: 30%;">
<label for ="TNG">Phone Number</label>
</div>
<div class="user_contact" style="width: 10%;>
<p>+60</p>
&nbsp;
</div>
<div class="display">
<input type="number" id="TNGphone_num" name="TNGphone_num" value="TNGphone_num" class="user_input">
</div>
</div>
<div class="form">
<div class="display" style="width: 30%;">
<label for="TNG">6 Digits Code</label>
</div>
<div class="display">
<input type="number" id="TNG_code" name="TNG_code" value="code" class="user_input">
</div>
</div>
</div>

```

Figure 39: Example of coding for each payment method

When the pay button is clicked, the data will be sent to the data base:

```

<div class="paybutton">
<input type="submit" value="Pay"></div>

```

## Result:

Street 2 \_\_\_\_\_ THE BES

Postcode \_\_\_\_\_ State Choose Country Malaysia

**Shipping Method**

<input checked="" type="radio"/> GedEx	Free
<input type="radio"/> Postlaju	RM10.00
<input type="radio"/> Lalamove	RM15.00

**Payment Method**

**Cash On Delivery**  **TNG eWallet**  **Debit / Credit Card**

Phone Number +60 \_\_\_\_\_

6 Digits Code \_\_\_\_\_

**Pay**

Figure 40: Checkout form

## 9 Software Testing

### 9.1 Test Plan

To ensure that our website is bug free and able to perform data validation check before storing the user data into our database, we have performed some technical test. The table below shows our test plan. Since we have went through large amount of validation test, we will only include the summary testing result in part 9.2 of our report.

Table 1: Test Case for Contact Us Page

<i>General Data</i>		<i>Test cases</i>
<i>Contact Us Page</i>		
Contact Details	Name	
		<b>Test Case 1</b> Verify the name text field by entering the only alphabets. <b>Test Case 2</b> Verify the name field by entering numbers. a) Decimal ie."0.1" b) Integer ie."1" <b>Test Case 3</b> Verify the name field by entering symbols. <b>Test Case 4</b> Verify the name field by entering the blank space between the name ie."Peter Parker" <b>Test Case 5</b> Verify the name field without entering the blank space between the name ie."PeterParker" <b>Test Case 6</b> Verify the message field by entering different languages ie."彼得帕克", "پیتر پارکر", "Peter Parker" <b>Test Case 7</b> Verify the name field without entering anything ie. " "

Contact Details	Phone Number	<p><b>Test Case 1</b>            Verify the mobile number text field by entering the valid 10/11 digit mobile number ie."0121231234".</p> <p><b>Test Case 2</b>            Verify the mobile number field by entering the Less than 10 digit mobile number ie."123456789".</p> <p><b>Test Case 3</b>            Verify the mobile number field by entering the more than 11 digit mobile number ie."012345678900".</p> <p><b>Test Case 4</b>            Verify the mobile number field by entering the blank space between the number ie."012 134 1234"</p> <p><b>Test Case 5</b>            Verify the mobile number field by entering symbols ie." &amp; % \$"</p> <p><b>Test Case 6</b>            Verify the mobile number field without entering anything ie." "</p>
-----------------	--------------	---

Contact Details	Email	<p><b>Test Case 1</b>            Verify the email text field by entering the valid email ie."peterparker@gmail.com".</p> <p><b>Test Case 2</b>            Verify the email field by not entering the '.' ie."peterparker@gmailcom".</p> <p><b>Test Case 3</b>            Verify the email field by not entering the '@' ie."peterparkergmail.com".</p> <p><b>Test Case 4</b>            Verify the email field by not entering the '.' &amp; '@' ie."peterparkergmailcom".</p> <p><b>Test Case 5</b>            Verify the email field by entering duplicated '.' &amp; '@'.            a)peterparker@@gmail.com            b)peterparker@gmail..com            b)peterparker@@gmail..com</p> <p><b>Test Case 6</b>            Verify the email field by not entering username ie."@gmail.com"</p> <p><b>Test Case 7</b>            Verify the email field by entering '.' at the start ie.".peterparker@gmail.com"</p> <p><b>Test Case 8</b>            Verify the email field without entering anything ie." "</p>
-----------------	-------	--

Contact Details	Message	<p><b>Test Case 1</b>            Verify the message text field by entering the only alphabets ie."Hello World"</p> <p><b>Test Case 2</b>            Verify the message field by entering numbers.            a)Decimal ie."0.1"            b)Integer ie."1"</p> <p><b>Test Case 3</b>            Verify the message field by entering symbols.</p> <p><b>Test Case 4</b>            Verify the message field by entering the blank space between the name ie."Hello World"</p> <p><b>Test Case 5</b>            Verify the message field without entering the blank space between the message ie."HelloWorld"</p> <p><b>Test Case 6</b>            Verify the message field by entering different languages ie."你好世界", "مرحبا بالعالم",</p> <p><b>Test Case 7</b>            Verify whether there's a limit for the message field.            1)&gt;50words            2)&gt;100words            3)&gt;150words</p> <p><b>Test Case 8</b>            Verify the message field without entering anything ie. " "</p>
-----------------	---------	---

Table 2: Table for Payment Page  
***Payment Page***

Contact Information	Name First Name Last Name	<p><b>Test Case 1</b>            Verify the name text field by entering the only alphabets.</p> <p><b>Test Case 2</b>            Verify the name field by entering numbers.            a) Decimal ie."0.1"            b) Integer ie."1"</p> <p><b>Test Case 3</b>            Verify the name field by entering symbols.</p> <p><b>Test Case 4</b>            Verify the name field by entering the blank space between the name ie."Peter Parker"</p> <p><b>Test Case 5</b>            Verify the name field without entering the blank space between the name ie."PeterParker"</p> <p><b>Test Case 6</b>            Verify the name field by entering different languages ie."彼得帕克"            "پیٹر پارکر"</p> <p><b>Test Case 7</b>            Verify the name field without entering anything ie. " "</p>
Contact Information	Phone Number	<p><b>Test Case 1</b>            Verify the mobile number text field by entering the valid 10/11 digit mobile number ie."0121231234".</p> <p><b>Test Case 2</b>            Verify the mobile number field by entering the Less than 10 digit mobile number ie."123456789".</p> <p><b>Test Case 3</b>            Verify the mobile number field by entering the more than 11 digit mobile number ie."012345678900".</p> <p><b>Test Case 4</b>            Verify the mobile number field by entering the blank space between the number ie."012 134 1234"</p> <p><b>Test Case 5</b>            Verify the mobile number field by entering symbols ie." &amp; % \$"</p> <p><b>Test Case 6</b>            Verify the mobile number field without entering anything ie. " "</p>

Contact Information	Email	<p><b>Test Case 1</b>            Verify the email text field by entering the valid email ie."peterparker@gmail.com".</p> <p><b>Test Case 2</b>            Verify the email field by not entering the '.' ie."peterparker@gmailcom".</p> <p><b>Test Case 3</b>            Verify the email field by not entering the '@' ie."peterparkergmail.com".</p> <p><b>Test Case 4</b>            Verify the email field by not entering the '.' &amp; '@' ie."peterparkergmailcom".</p> <p><b>Test Case 5</b>            Verify the email field by entering duplicated '.' &amp; '@'.            a)peterparker@@gmail.com            b)peterparker@gmail..com            b)peterparker@ @gmail..com</p> <p><b>Test Case 6</b>            Verify the email field by not entering username ie."@gmail.com"</p> <p><b>Test Case 7</b>            Verify the email field by entering '.' at the start ie.".peterparker@gmail.com"</p> <p><b>Test Case 8</b>            Verify the email field without entering anything ie. " "</p>
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Address	Unit No	<p><b>Test Case 1</b>            Verify the Unit No field by entering the valid Unit No ie."31".</p> <p><b>Test Case 2</b>            Verify the Unit No field by entering different types of numbers.            a)Decimal ie."0.1"            b)Integer ie."1"</p> <p><b>Test Case 3</b>            Verify the Unit No field by entering the more than 4 digit ie."12345".</p> <p><b>Test Case 4</b>            Verify the Unit No field by entering the blank space between the number ie."3 1"</p> <p><b>Test Case 5</b>            Verify the Unit No field by entering symbols            ie." &amp; % \$ /"</p> <p><b>Test Case 6</b>            Verify the Unit No field without entering anything            ie." "</p>
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Address	Street 1	<p><b>Test Case 1</b>            Verify the Street text field by entering the only alphabets ie."Street"</p> <p><b>Test Case 2</b>            Verify the Street field by entering only numbers.            a)Decimal ie."0.1"            b)Integer ie."1"</p> <p><b>Test Case 3</b>            Verify the Street field by entering symbols            ie." &amp; % \$ /"</p> <p><b>Test Case 4</b>            Verify the Street field by entering the blank space between the name ie."Street 1"</p> <p><b>Test Case 5</b>            Verify the Street field without entering the blank space between the Street ie."Street1"</p> <p><b>Test Case 6</b>            Verify the Street field by entering different languages ie."地址 1"            ،"عنوان"</p> <p><b>Test Case 7</b>            Verify whether there's a limit for the Street field.            1)&gt;20words            2)&gt;40words            3)&gt;60words</p> <p><b>Test Case 8</b>            Verify the Street field without entering anything            ie. " "</p>
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Address	Street 2	<p><b>Test Case 1</b>            Verify the Street text field by entering the only alphabets ie."Street"</p> <p><b>Test Case 2</b>            Verify the Street field by entering only numbers.            a)Decimal ie."0.2"            b)Integer ie."2"</p> <p><b>Test Case 3</b>            Verify the Street field by entering symbols            ie." &amp; % \$ /"</p> <p><b>Test Case 4</b>            Verify the Street field by entering the blank space between the name ie."Street 2"</p> <p><b>Test Case 5</b>            Verify the Street field without entering the blank space between the Street ie."Street2"</p> <p><b>Test Case 6</b>            Verify the Street field by entering different languages ie."地址 1"            ،"عنوان"</p> <p><b>Test Case 7</b>            Verify whether there's a limit for the Street field.            1)&gt;20words            2)&gt;40words            3)&gt;60words</p> <p><b>Test Case 8</b>            Verify the Street field without entering anything            ie. " "</p>
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Address	State	<p><b>Test Case 1</b>            Verify the state text field by entering the only alphabets ie."Selangor"</p> <p><b>Test Case 2</b>            Verify the state field by entering numbers.            a)Decimal ie."0.1"            b)Integer ie."1"</p> <p><b>Test Case 3</b>            Verify the states field by entering symbols            ie." &amp; % \$ /"</p> <p><b>Test Case 4</b>            Verify the state field by entering the blank space between the states ie."Kuala Lumpur"</p> <p><b>Test Case 5</b>            Verify the state is in the list of states in Malaysia            ie."Selangor", "Kuala Lumpur"</p> <p><b>Test Case 6</b>            Verify the state field without entering anything            ie. " "</p>
Address	Country	<p><b>Test Case 1</b>            Verify the country text field by entering the only alphabets ie."Malaysia"</p> <p><b>Test Case 2</b>            Verify the country field by entering numbers.            a)Decimal ie."0.1"            b)Integer ie."1"</p> <p><b>Test Case 3</b>            Verify the country field by entering symbols            ie." &amp; % \$ /"</p> <p><b>Test Case 4</b>            Verify the country field by entering the blank space between the country name ie."Kuala Lumpur"</p> <p><b>Test Case 5</b>            Verify the country field by entering another country other than Malaysia ie."Thailand"</p> <p><b>Test Case 6</b>            Verify the country field without entering anything            ie. " "</p>

Shipping	Shipping Methods	<p><b>Test Case 1</b>            Verify the radio button by clicking only one option ie."GedEx"</p> <p><b>Test Case 2</b>            Verify the radio button by clicking more than one option ie."GedEx" &amp; "Postlaju"</p> <p><b>Test Case 3</b>            Don't click on the radio buttons and see if clicking on the submit button generates error</p> <p><b>Test Case 4</b>            Verify if database gets updated with correct radio selection</p>
Payment	Payment Methods	<p><b>Test Case 1</b>            Verify the radio button by clicking only one option ie."Debit Card"</p> <p><b>Test Case 2</b>            Verify the radio button by clicking more than one option ie."Debit Card" &amp; "TNG eWallet"</p> <p><b>Test Case 3</b>            Don't click on the radio buttons and see if clicking on the submit button generates error</p> <p><b>Test Case 4</b>            Verify if database gets updated with correct radio selection</p>

Payment	Name on card	<p><b>Test Case 1</b>            Verify the name text field by entering the only alphabets.</p> <p><b>Test Case 2</b>            Verify the name field by entering numbers.            a) Decimal ie."0.1"            b) Integer ie."1"</p> <p><b>Test Case 3</b>            Verify the name field by entering symbols.</p> <p><b>Test Case 4</b>            Verify the name field by entering the blank space between the name ie."Peter Parker"</p> <p><b>Test Case 5</b>            Verify the name field without entering the blank space between the name ie."PeterParker"</p> <p><b>Test Case 6</b>            Verify the name field by entering different languages ie."彼得帕克"            "پیٹر پارکر",</p> <p><b>Test Case 7</b>            Verify the name field without entering anything            ie. " "</p>
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Payment	Card No.	<p><b>Test Case 1</b> Verify the Card No field by entering the valid Card No ie."3742454554001268".</p> <p><b>Test Case 2</b> Verify the Card No field by entering different types of numbers. a)Decimal ie."0.1" b)Integer ie."1"</p> <p><b>Test Case 3</b> Verify the Card No field by entering the more than 16 digit ie."12345678901234567".</p> <p><b>Test Case 4</b> Verify the Card No field by entering the less than 16 digit ie."1234567890".</p> <p><b>Test Case 5</b> Verify the Card No field by entering the blank space between the number ie."1234 1234 1234 1245"</p> <p><b>Test Case 6</b> Verify the Card No field by entering symbols ie." &amp; % \$ /"</p> <p><b>Test Case 7</b> Verify the Card No field without entering anything ie." "</p>
Payment	Card Type	<p><b>Test Case 1</b> Verify the radio button by clicking only one option ie."Visa"</p> <p><b>Test Case 2</b> Verify the radio button by clicking more than one option ie."Visa" &amp; "Mastercard"</p> <p><b>Test Case 3</b> Don't click on the radio buttons and see if clicking on the submit button generates error</p> <p><b>Test Case 4</b> Verify if database gets updated with correct radio selection</p>

Payment	Expiry Year	<p><b>Test Case 1</b> Verify the radio button by clicking only one option ie."21"</p> <p><b>Test Case 2</b> Verify the radio button by clicking more than one option ie."21" &amp; "22"</p> <p><b>Test Case 3</b> Don't click on the radio buttons and see if clicking on the submit button generates error</p> <p><b>Test Case 4</b> Verify if database gets updated with correct radio selection</p>
Payment	Expiry Month	<p><b>Test Case 1</b> Verify the radio button by clicking only one option ie."09"</p> <p><b>Test Case 2</b> Verify the radio button by clicking more than one option ie."08" &amp; "09"</p> <p><b>Test Case 3</b> Don't click on the radio buttons and see if clicking on the submit button generates error</p> <p><b>Test Case 4</b> Verify if database gets updated with correct radio selection</p>
Payment	CVV	<p><b>Test Case 1</b> Verify the CVV field by entering the valid CVV ie."235".</p> <p><b>Test Case 2</b> Verify the CVV field by entering decimal number ie."0.1"</p> <p><b>Test Case 3</b> Verify the CVV field by entering the more than 3 digit ie."1234".</p> <p><b>Test Case 4</b> Verify the CVV field by entering the less than 3 digit ie."12".</p> <p><b>Test Case 5</b> Verify the CVV field by entering the blank space between the number ie."1 2 3"</p> <p><b>Test Case 6</b> Verify the CVV field by entering symbols ie." &amp; % \$ /"</p> <p><b>Test Case 7</b> Verify the CVV field without entering anything ie." "</p>

## 9.2 Technical Test Results

### 9.2.1 Payment Page (Checkout Form Inputs)

#### i) First & Last Name

It accepts only English characters A-Z and spacing.

Inputting any type of numbers, Chinese characters(彼得帕克) or special characters (%,& etc.) triggered an error after pressing the submit button. This is because names should not consist any special characters.

#### Name Error:

Only alphabets and whitespace are allowed for First name  
English Characters Only.

Figure 41: Name Error Message in PHP

Not entering anything prints out an error saying “Please fill up this field.”. Customers must have a name that can be stored and referred to in the database. This field **works as expected**, as we want it to store only English characters (max 30 characters) and that it cannot be left empty.

The screenshot shows a web form with two fields. The first field is labeled "First Name" and contains the letters "La". Below this field is a validation message in a callout box: "Please fill out this field." with an exclamation mark icon. The second field is labeled "Phone No." and has the number "160" entered into it.

Figure 42: Invalid Form Input (Empty Field)

#### ii) Phone Number

It accepts only integers 0-9.

Nothing is entered when attempting to input any type of characters or special symbols such as %,&, etc. Phone number should have any special characters.

Entering more than 11 digits / less than 10 digits triggered an error after submitting. Malaysia's phone number only consists of up to 11 digits with the minimum of 10 digits.

**Phone number Error:**

1112345678901 is not within the legal range(min= 9digits max= 10digits)

Figure 43: Phone Number Error Message in PHP

Not entering anything prints out an error saying “Please fill up this field.”. Customers must have a phone that can be used to contact them and referred to in the database. This field **works as expected**, as we want it to store only integers and that it cannot be left empty.

**iii) Email**

It accepts all types of English characters. Nothing is entered when attempting to input any type of characters or special symbols such as %, &, etc.

Entering an email without the symbol @ triggered an error.

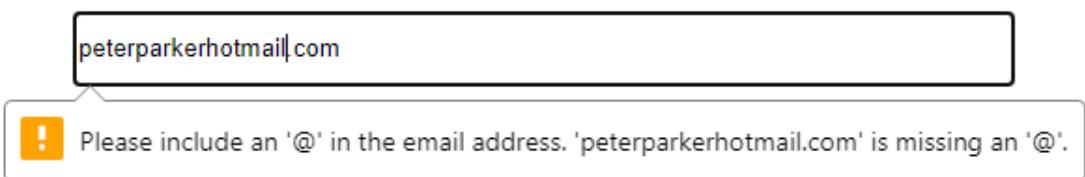


Figure 44: Invalid Form Input (@ is missing in an Email field)

Entering an email with Chinese characters also triggered an error.

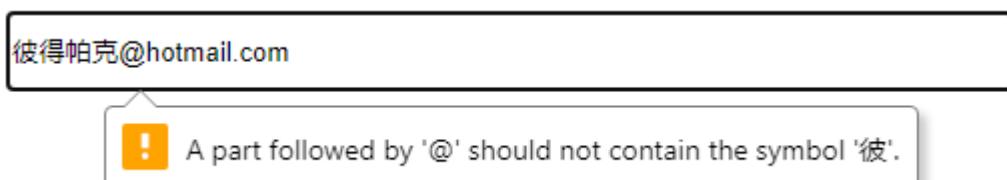


Figure 45: Invalid Form Input (Chinese Characters aren't allow)

Entering an additional “.” or “@” also triggered an error

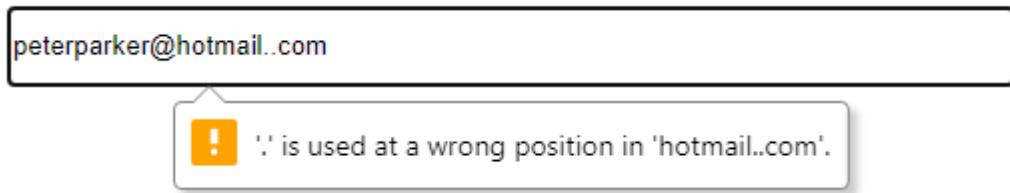


Figure 46: Invalid Form Input (Extra Symbol)

Not entering anything before the @ prints out an error saying the email is invalid, same goes to an empty input. Customer should have an email that can be used to contact them when other form of communication cannot be used.

This field **works as expected**, as we want it to store valid emails such as “peterparker@gmail.com”, and that the field not be left empty.

#### iv) Unit No

Same as Phone Number, this field accepts only integers 0-9. Nothing is entered when attempting to input any type of characters or special symbols such as %, &, etc.

Entering more than 4digits triggered an error after submitting.

#### **Unit number Error:**

**12222222 is not within the legal range(max= 4digits)**

Figure 47: Unit Number Error Message in PHP (Server Side)

Not entering anything prints out an error saying “Please fill up this field.”. Customers must have a unit number, this is for the delivery of their purchased product(s).

This field **works as expected**, as we want it to store only 4 integers max and that it cannot be left empty.

#### v) Street 1 & 2

Accepts only English characters 'A-Z', 'a-z', '0-9', '.', '-', '/' and spacing.

Inputting any type of numbers, Chinese characters (彼得帕克) or special characters (% , @, etc.) triggered an error after pressing the submit button.

#### **Street Error:**

**Only Characters such as['A-Z', 'a-z', '0-9', '.', '-', '/'] are allowed for Street1.  
English Characters Only.**

Figure 48: Street Address Error Message in PHP (Server Side)

Not entering anything prints out an error saying “Please fill up this field.”. Customers must have a street address, this is for the delivery of their purchased product(s). This field **works as expected**, as we want it to store only English characters (max 30characters) and that it cannot be left empty.

#### vi) Postcode

This field accepts only integers 0-9 and must be 5 digits. Nothing is entered when attempting to input any type of characters or special symbols such as %, &, etc. Entering more or less than 5 digits triggered an error after submitting.

**Postcode Error:**  
**1234 is not a valid Postcode in Malaysia(5digits)**

Figure 49: Postcode Error Message in PHP (Server Side)

Not entering anything prints out an error saying “Please fill up this field.” Customers must have a postcode, this is for the delivery of their purchased product(s).

This field **works as expected**, as we want it to store exactly 5 integers and that it cannot be left empty.

#### vii) State

This field consists of options containing all the states in Malaysia.

The default option is “Choose State”, not selecting one of the options in the given field resulted in an error asking to select an item from the list.



Figure 50: Empty Form Input

Nothing is entered when attempting to input any other type of data (A-Z, 0-9, &, etc).

This field **works as expected**, as we want it to store only the states in Malaysia and that it should display an error when left empty.

#### viii) Shipping Method

This field consists of 3 options (GedEx, Poslaju & Lalamove), with GedEx as the default option.

### Shipping Method

- |   |         |
|---|---------|
| <input checked="" type="radio"/> GedEx 15Days | Free    |
| <input type="radio"/> Postlaju 10Days         | RM10.00 |
| <input type="radio"/> Lalamove 10Days         | RM15.00 |

Figure 51: Shipping Method that are available

When other options (Postlaju & Lalamove) are not selected, the default value is stored. Customers must choose a shipping method, this is for the delivery of their purchased product(s). This field **works as expected**, as we want it to store only one of the 3 of the options and that there should always be a selected option.

### ix) Payment

This field consists of 3 options (Cash On Delivery, TNG eWallet & Debit/Credit Card), with Cash On Delivery as the default option.



Figure 52: Payment Options that are available

When other options (TNG eWallet & Debit/Credit Card) are not selected, the default value is stored. Customers must choose a payment method to decide whether we should store their TNG eWallet/Card details so that we can receive their payment.

This field **works as expected**, as we want it to store only one of the 3 of the options and that there should always be a selected option.

### x) TNG Phone Number

This field only opens up when “TNG eWallet” is selected. It accepts only integers 0-9.

Nothing is entered when attempting to input any type of characters or special symbols such as %, &, etc.

Entering more than 11 digits / less than 10 digits triggered an error after submitting.

**Phone number Error:**

1112345678901 is not within the legal range(min= 9digits max= 10digits)

Figure 53: TnG Phone Num Error Message in PHP (Server Side)

Not entering anything prints out an error saying “Please fill up this field.”. Customers must enter TnG phone numbers for us to store their TNG eWallet details so that we can receive their payment. This field **works as expected**, as we want it to store only integers and that it cannot be left empty.

**xi) TNG Code (6 digits)**

This field only opens up when “TNG eWallet” is selected. It accepts only integers 0-9, and input must be 6 digits.

Not entering a 6digits code triggered an error after submitting.

**TNG Code Error:**

12345 is not valid(6digits)

**TNG Code Error:**

1234567 is not valid(6digits)

Figure 54: TnG Code Error Message in PHP (Server Side)

Nothing is entered when attempting to input any type of characters or special symbols such as %, &, etc.

Not entering anything prints out an error after submitting the form.

**TNG Code Error:**

TNG Code is empty

Figure 55: TnG Code Error Message in PHP (Server Side)

Customers must enter their TnG Code for us to store their TNG eWallet details so that we can receive their payment. This field **works as expected**, as we want it to store only 6 integers and that it cannot be left empty.

**xii) Debit/Credit Card Name**

This field only opens up when “Debit/Credit Card” is selected. It accepts only English characters A-Z and spacing. Inputting any type of numbers, Chinese characters(彼得帕克) or special characters (%, &, etc.) triggered an error after pressing the submit button.

**Card Name Error:**

Only alphabets and whitespace are allowed for Card name.  
English Characters Only.

Figure 56: Card Name Error Message in PHP (Server Side)

Not entering anything prints out an error after submitting the form.

**Card Name Error:**

Card Name is empty

Figure 57: Card Name Error Message in PHP (Server Side)

Customers must enter a Card name for us to store their card details so that we can receive their payment. This field **works as expected**, as we want it to store only English characters (max 30 characters) and that it cannot be left empty.

**xiii) Card Number**

This field only opens up when “Debit/Credit Card” is selected. It accepts only integers 0-9, and input must be 16 digits. Not entering a 16digits card number triggered an error after submitting.

**Card number Error:**

12345678901234567 is not a valid card number(must be 16 digits)

Figure 58: Card Number Error Message in PHP (Server Side)

Nothing is entered when attempting to input any type of characters or special symbols such as %, &, etc. Not entering anything prints out an error after submitting the form.

**Card number Error:**

Card number is empty

Figure 59: Card Number Error Message in PHP (Server Side)

Customers must enter a Card number for us to store their card details so that we can receive their payment. This field **works as expected**, as we want it to store only 16 integers and that it cannot be left empty.

**xiv) Card Type**

This field only opens up when “Debit/Credit Card” is selected. It consists of 3options (Visa, Mastercard & American Express).



Figure 60: Card Method that are available

When nothing is selected, an error pops up after submitting the form.

**Card Type Error:**  
Please choose a Card Type

Figure 61: Card Type Error Message in PHP (Server Side)

This field works as expected, as we want it to store only one of the 3 of the options and that there must be one selected option.

#### xv) Expiry Date

This field only opens up when “Debit/Credit Card” is selected. When selecting a date that has passed, an error pops up.

**Expiry Date Error:**  
Card Expired

Figure 62: Expiry Date Error Message in PHP (Server Side)

When an expiry month/year is not selected, an error pops up.

**Card Type Error:**  
Please choose a Expiry Year

**Card Type Error:**  
Please choose a Expiry Month

Figure 63: Card Type Error Message in PHP (Server Side)

Customers must enter a Card expiry date for us to check if their card is expired so that we can store the valid card details to proceed with their payment. This field **works as expected**, as we want it to store cards that have not expired and that it cannot be left empty.

## xvi) CVV

This field only opens up when “Debit/Credit Card” is selected. It accepts only integers 0-9, and input must be 3 digits. Not entering a 3digits code triggered an error after submitting.

**Card CVV Error:**  
123456 is not a valid Card CVV(must be 3 digits)

Figure 64: Card CVV Error Message in PHP (Server Side)

Nothing is entered when attempting to input any type of characters or special symbols such as %, &, etc. Not entering anything prints out an error after submitting the form.

**Card CVV Error:**  
Card CVV is empty

Figure 65: Card CVV Error Message in PHP (Server Side)

Customers must enter a valid CVV for us to store their card details so that we can receive their payment. This field **works as expected**, as we want it to store only 3 integers and that it cannot be left empty.

**Payment Method**

**Cash On Delivery**

**TNG eWallet**

**Debit / Credit Card**

*Name on Card* \_\_\_\_\_

*Card No.* \_\_\_\_\_

*Card Type*

*Expiry Date*

*CVV* \_\_\_\_\_

Figure 66: Payment Method: Debit/Credit Card

### **Summary:**

The form produces the output that we have expected, it will only store all the data when all of the inputs are valid and the form only opens up the TNG or Debit/Credit card input section only when users have selected the respective payment method, just like what we wanted.

Same as the other fields, all the inputs will only be stored when the TNG eWallet or Debit/Credit Card fields have been fully entered. Failing to input the valid data will not be inserted and stored into the database

**Payment Method**

**Cash On Delivery**       **TNG eWallet**       **Debit / Credit Card**

Phone Number **+60** \_\_\_\_\_

6 Digits Code \_\_\_\_\_

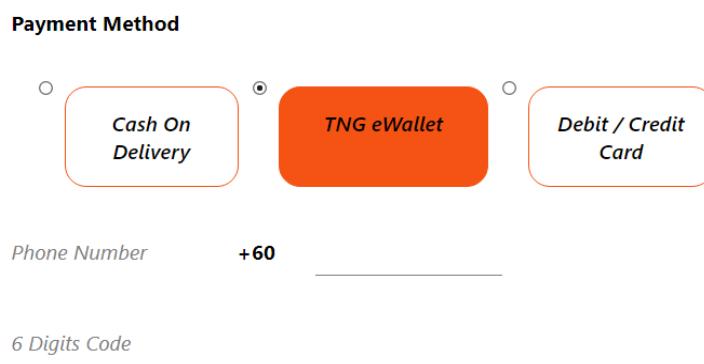


Figure 67: Payment Method: TnG ewallet

### **9.2.2 Contact Us Page (Form Inputs)**

#### **i) First & Last Name**

It accepts only English characters A-Z and spacing. Inputting any type of numbers, Chinese characters(彼得帕克) or special characters (%,&, etc.) triggered an error after pressing the submit button. This is because names should not consist any special characters.

#### **Name Error:**

Only alphabets and whitespace are allowed for First name  
English Characters Only.

Figure 68: Name Error Message in PHP (Server Side)

Not entering anything prints out an error saying “Please fill up this field.”. Customers must have a name that can be stored and referred to in the database. This field **works as expected**, as we want it to store only English characters (max 30 characters) and that it cannot be left empty.

The screenshot shows a web form with a 'First Name' input field. The field is empty and has a black border. A tooltip-like message box is positioned below it, containing an orange exclamation mark icon and the text 'Please fill out this field.'.

Figure 69: Empty Form Input

## ii) Phone Number

It accepts only integers 0-9. Nothing is entered when attempting to input any type of characters or special symbols such as %, &, etc. Phone number should have any special characters.

Entering more than 11 digits / less than 10 digits triggered an error after submitting. Malaysia's phone number only consists of up to 11 digits with the minimum of 10 digits.

### **Phone number Error:**

1112345678901 is not within the legal range(min= 9digits max= 10digits)

Figure 70: Phone Num Error Message in PHP (Server Side)

Not entering anything prints out an error saying "Please fill up this field.". Customers must have a phone that can be used to contact them and referred to in the database.

This field **works as expected**, as we want it to store only integers and that it cannot be left empty.

## iii) Email

It accepts all types of English characters. Nothing is entered when attempting to input any type of characters or special symbols such as %, &, etc.

Entering an email without the symbol @ triggered an error.

The screenshot shows a web form with an email input field. The field contains the text 'peterparkerhotmail.com'. A tooltip-like message box is positioned below it, containing an orange exclamation mark icon and the text 'Please include an '@' in the email address. 'peterparkerhotmail.com' is missing an '@'.'

Figure 71: Invalid Form Input (@ is missing in an Email field)

Entering an email with Chinese characters also triggered an error.

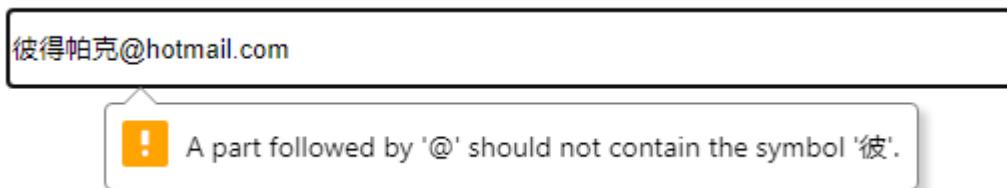


Figure 72: Invalid Form Input (Chinese Characters aren't allow)

Entering an additional “.” or “@” also triggered an error

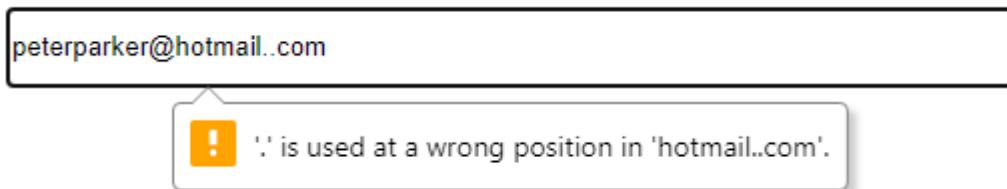


Figure 73: Invalid Form Input (Extra Symbol)

Not entering anything before the @ prints out an error saying the email is invalid, same goes to an empty input. Customer should have an email that can be used to contact them when other form of communication cannot be used.

This field **works as expected**, as we want it to store valid emails such as “peterparker@gmail.com”, and that the field not be left empty.

#### iv) Message

This field accepts all types of characters and special symbols. Not entering anything prints out an error saying “Please fill up this field.”. Customers must have a message that can be stored and referred to in the database.

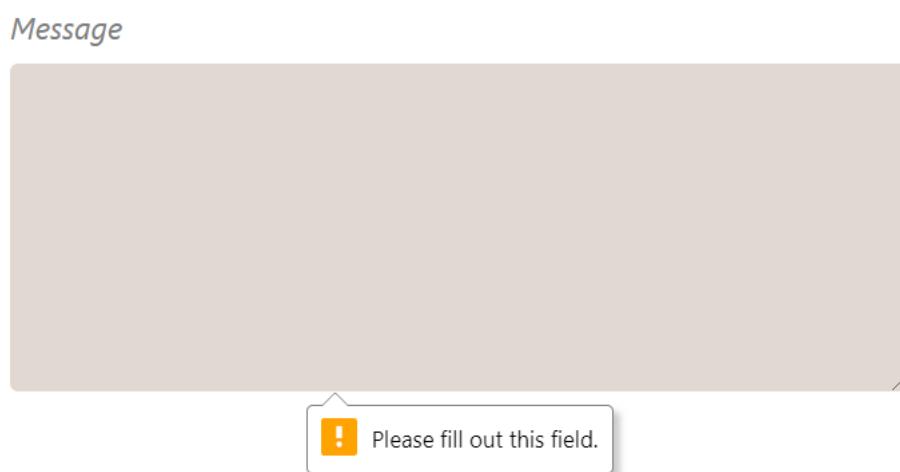


Figure 74: Empty Form Input

This field **works as expected**, as it cannot be left empty.

### 9.2.3 Cart Page (User Inputs)

#### i) Product Quantity

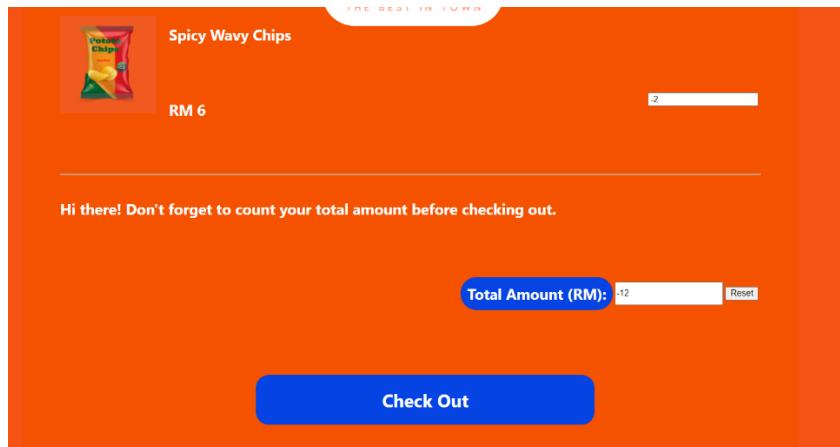
When the user would like to place an order, there must be at least 1 product in their cart. Proceeding with an empty cart will triggers an error after submitting, prompting the user to return back and try again.

##### **Empty cart:**

You must have at least 1 product in your cart to checkout.  
Please return back and try again.

Figure 75: Empty Cart Error Message in PHP (Server Side)

Furthermore, the quantity of the products cannot be negative. Proceeding with a negative quantity number will triggers an error after submitting, prompting the user to return back and try again.

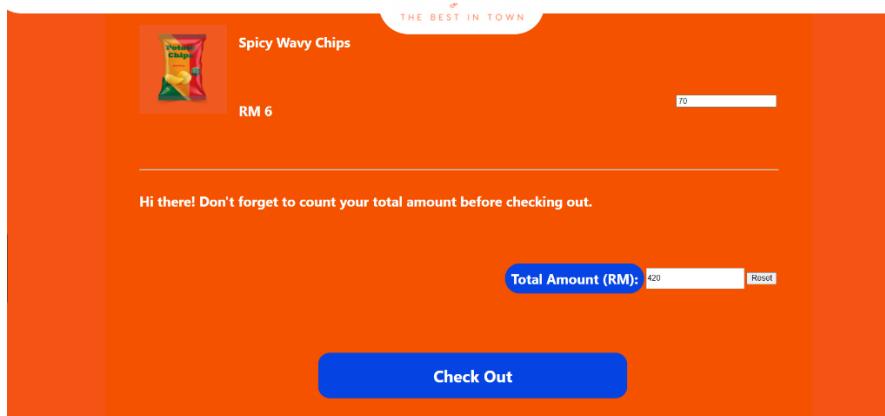


##### **Quantity Error:**

Product quantity cannot be a negative number  
Please return back and try again.

Figure 76: Quantity Error Message in PHP (Server Side)

To prevent the product out of stock, we limit the maximum check out quantity of each product to 60. Proceeding with any of the product quantity that is more than 60 will triggers an error after submitting, prompting the user to return back and try again.

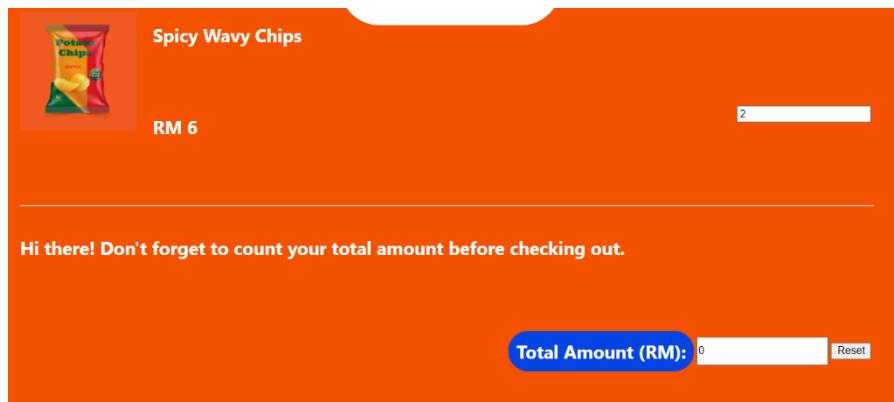


**Exceeded maximum amount of quantity:**

The maximum amount of each product is 60 per checkout.  
Please return back and try again.

Figure 77: Quantity Error Message in PHP (Server Side)

In order to ensure that the customers are aware of the total amount they need to pay before proceeding to the payment page, they need to click the “total amount” button to count their total amount. Failing to perform this will trigger an error after submitting, prompting the user to return back and try again.



**Empty Total Amount:**

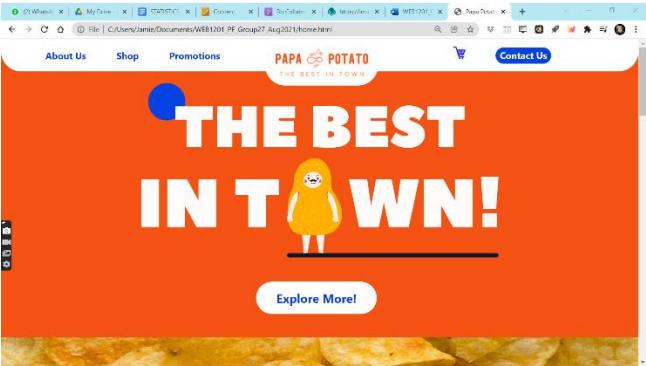
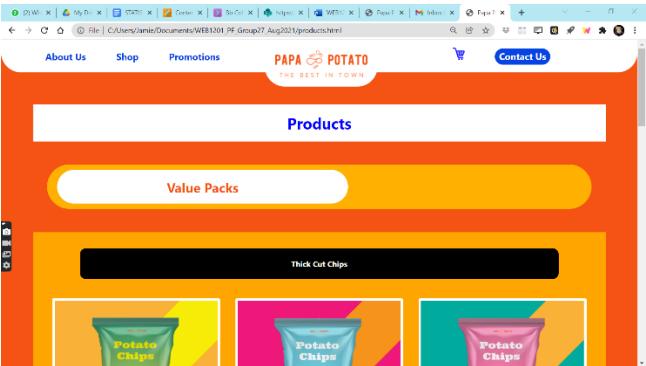
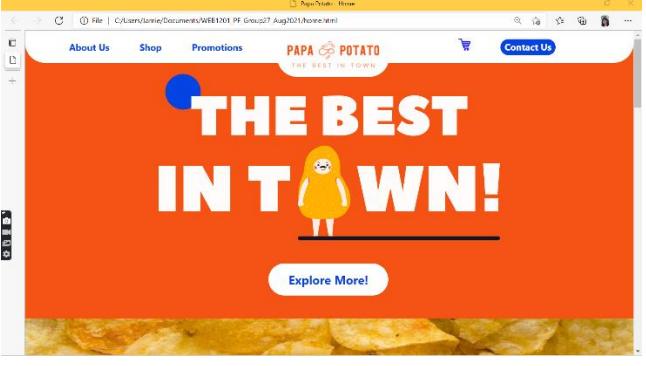
You must have at least 1 product in your cart to checkout.  
If there's already something in your cart, please click the 'Total Amount(R.M)' before checking out  
Please return back and try again.

Figure 78: Empty Total Amount Error Message in PHP (Server Side)

**Summary:** The form produces the output that we have expected, it will only store all the data into our database when all of the inputs are valid.

### 9.2.4 Cross Browser Testing

#### i) Overall appearance of the website

Browsers	Observation
Google chrome	All the pages of the website were tested in Google Chrome browser and all of the pages were displayed well as expected (attached with some of the screenshots). The navigation bar is also visible and remains a same look across the whole website and all the links on it are functionable and able to link to the respective page that we have set.
Figure 79: Google Chrome Home Page 	
Figure 80: Google Chrome Product Page 	
Microsoft Edge	All the pages of the website were tested in Microsoft Edge browser and all of the pages were displayed well as expected (attached with some of the screenshots). The navigation bar is also visible and remains a same look across the whole website and all the links on it are functionable and able to link to the respective page that we have set.
Figure 81: Microsoft Edge Home Page 	

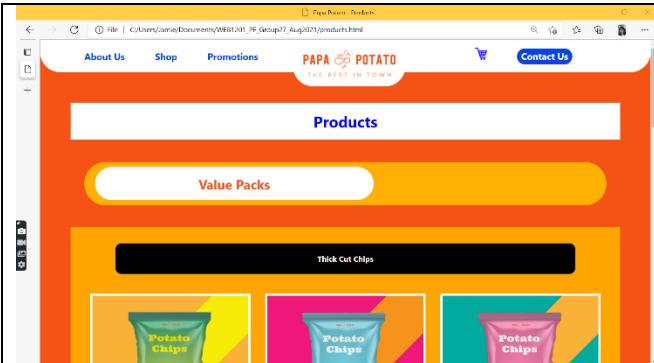


Figure 82: Microsoft Edge Product Page

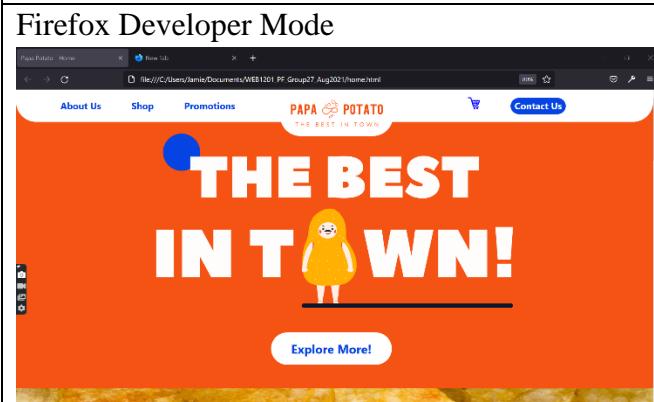


Figure 83: Firefox Home Page

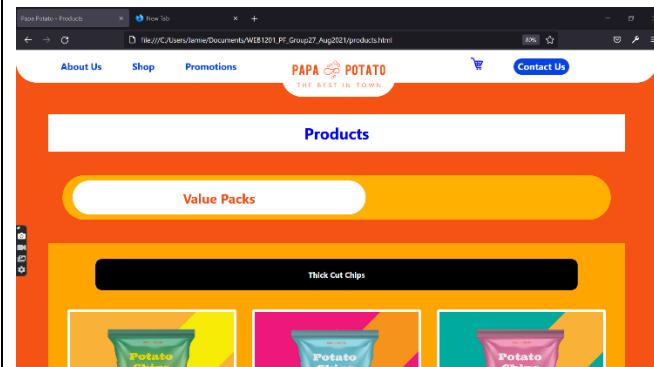
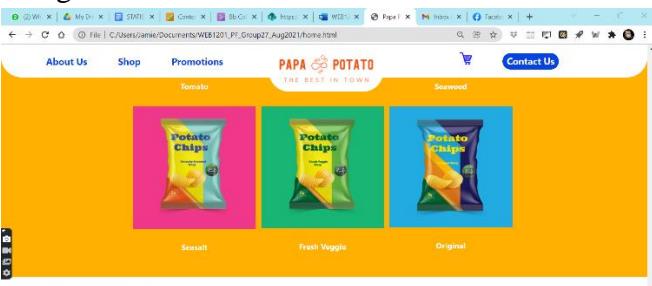
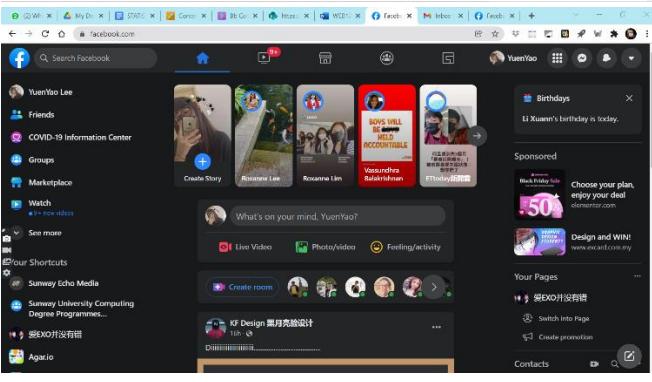
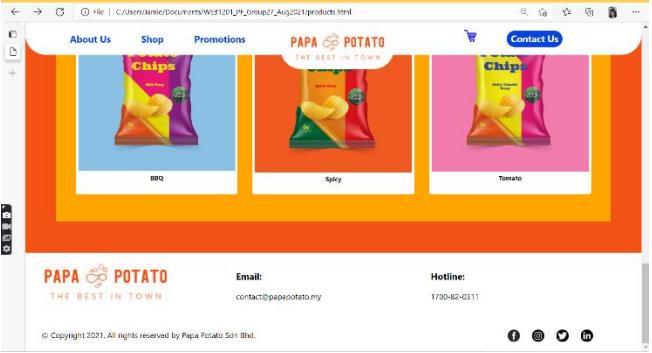


Figure 84: Firefox Product Page

All the pages of the website were tested in Firefox Developer browser and all of the pages were displayed well as expected (attached with some of the screenshots). The navigation bar is also visible and remains a same look across the whole website and all the links on it are functional and able to link to the respective page that we have set.

Conclusion: The website managed to achieve the same appearance across different browsers.

## ii) Hyperlinks

Browsers	Observation
<b>Google Chrome</b>  	All 4 hyperlinks at the footer section are able link to the respective social media pages that we have set.
<b>Microsoft Edge</b> 	All 4 hyperlinks at the footer section are able link to the respective social media pages that we have set.

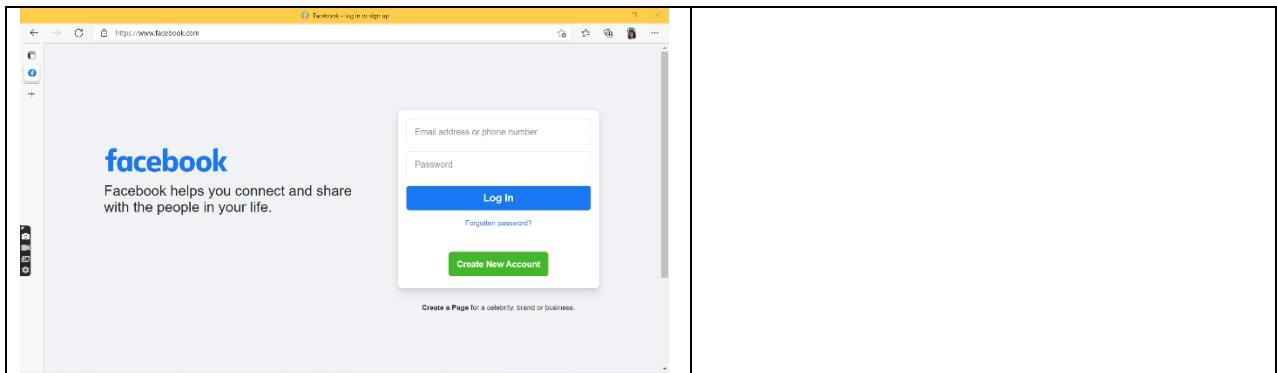
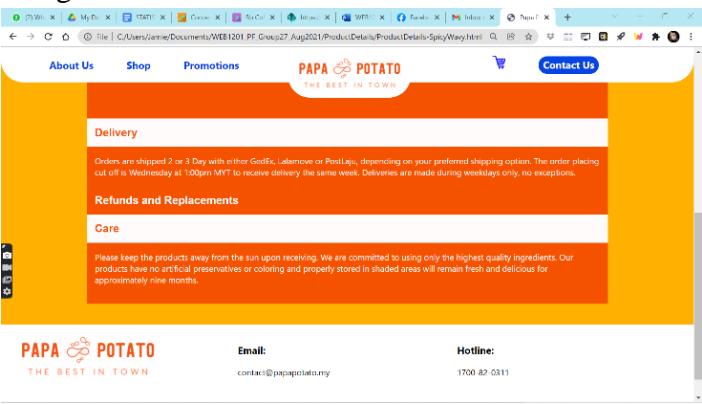
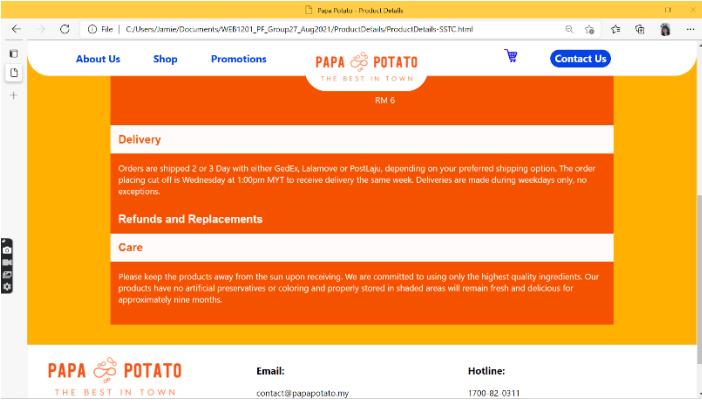
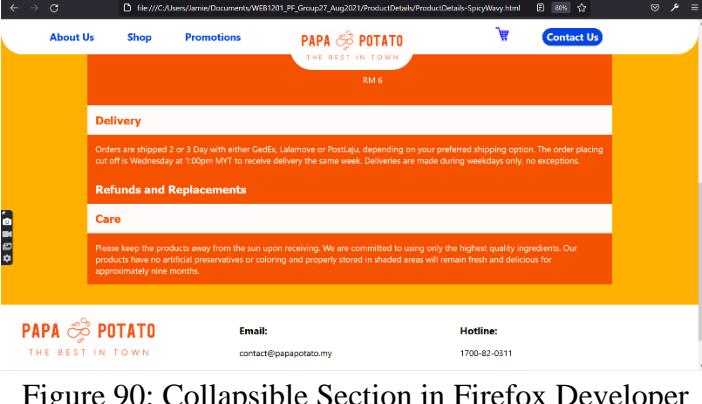


Figure 86: Facebook logo in the footer successfully linked to FB Page in Microsoft Edge

<p>A screenshot of the Firefox Developer Edition browser window. The title bar says 'Firefox Developer'. The main content area displays the Papa Potato website. The header features the 'PAPA POTATO' logo and the tagline 'THE BEST IN TOWN'. Below the header are three product cards: 'BBQ' (orange), 'Spicy' (red), and 'Tomato' (pink), each showing an image of a potato chip bag. At the bottom of the page is a footer section with the 'PAPA POTATO' logo, copyright information ('© Copyright 2021. All rights reserved by Papa Potato Sdn Bhd.'), contact details ('Email: contact@papapotato.my' and 'Hotline: 1700-82-0311'), and social media links for Facebook, Instagram, Twitter, and LinkedIn.</p>	<p>All 4 hyperlinks at the footer section are able link to the respective social media pages that we have set.</p>
<p>A screenshot of the Firefox Developer Edition browser window. The address bar shows the URL <a href="https://www.facebook.com">https://www.facebook.com</a>. The main content area displays the Facebook login page, identical to the one shown in Figure 86. It includes the 'facebook' logo, the login form with 'Email address or phone number' and 'Password' fields, the 'Log In' button, and the 'Create New Account' link. The layout is consistent with the Microsoft Edge version.</p>	
<p><b>Figure 87: Facebook logo in the footer successfully linked to FB Page in Firefox Developer</b></p>	

Conclusion: The links are able to function well as expected in different browsers.

### iii) Collapsible Section

Browsers	Observation
<b>Google Chrome</b> 	The collapsible section is clickable and able to display information clearly once it is being clicked. The section can also be closed and information is hide when the button is being clicked again.
<b>Microsoft Edge</b> 	The collapsible section is clickable and able to display information clearly once it is being clicked. The section can also be closed and information is hide when the button is being clicked again.
<b>Firefox Developer</b> 	The collapsible section is clickable and able to display information clearly once it is being clicked. The section can also be closed and information is hide when the button is being clicked again.

Conclusion: The collapsible section is able to function well as expected in different browsers.

#### iv) Form Input

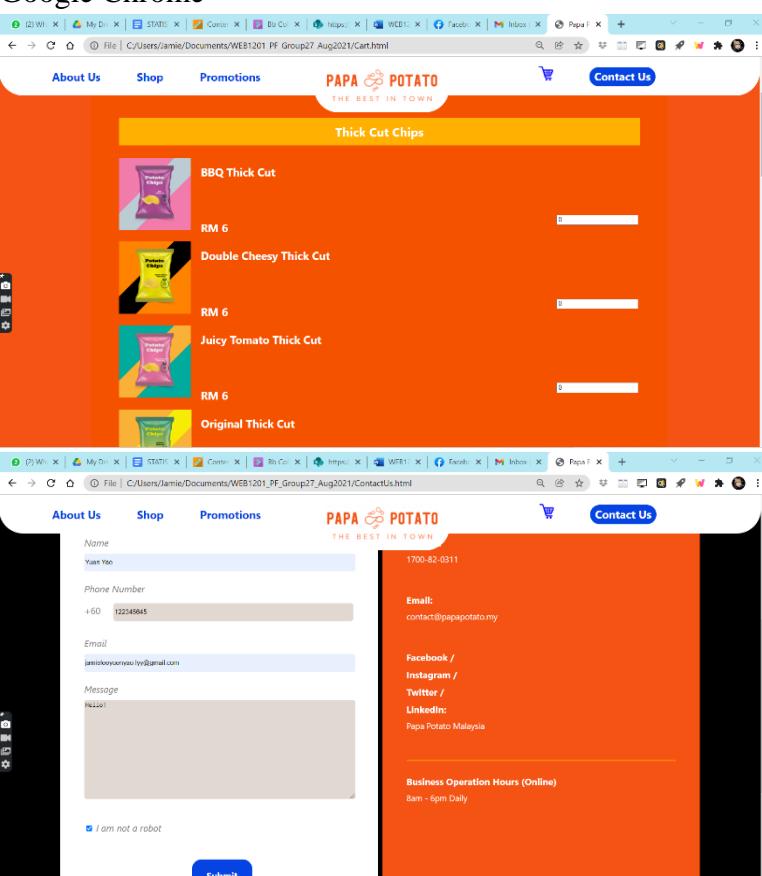
Browsers	Observation
<p>Google Chrome</p> 	<p>All input fields of the websites are able to display well and accept input that is supposed to accept. An empty or inappropriate input (such as putting negative value for the quantity of the products) will trigger an error. The input value testing has been performed in 9.1.1 to 9.1.3.</p>
<p>Microsoft Edge</p>	<p>All input fields of the websites are able to display well and accept input that is supposed to accept. An empty or inappropriate input (such as putting negative value for the quantity of the products) will trigger an error. The input value testing has been performed in 9.1.1 to 9.1.3.</p>

Figure 92: Form input test in Microsoft Edge

**Firefox Developer**

All input fields of the websites are able to display well and accept input that is supposed to accept. Although the input field is displayed differently as compared to Chrome and Microsoft Edge, it doesn't affect the function. An empty or inappropriate input (such as putting negative value for the quantity of the products) will trigger an error. The input value testing has been performed in 9.1.1 to 9.1.3.

The screenshot shows a contact form for 'PAPA POTATO'. The form includes fields for Name, Phone Number, Email, and Message, along with a 'Submit' button and a CAPTCHA checkbox. To the right of the form, there is contact information: a phone number (1700-82-0311), an email (contact@papapotato.my), and social media links for Facebook, Instagram, Twitter, and LinkedIn. Below this is a section for 'Business Operation Hours (Online)' with the text '8am - 6pm Daily'.

Figure 93Figure 92: Form input test in Firefox Developer

Conclusion: The form input is able to function well as expected in different browsers and accept what it is supposed to accept.

#### v) User Input

Browsers	Observation
 	<p>The flow from checkout page to payment page went smoothly throughout the testing. The pop-up message and php message at the end displayed well as expected. Data has been successfully stored into the database.</p>

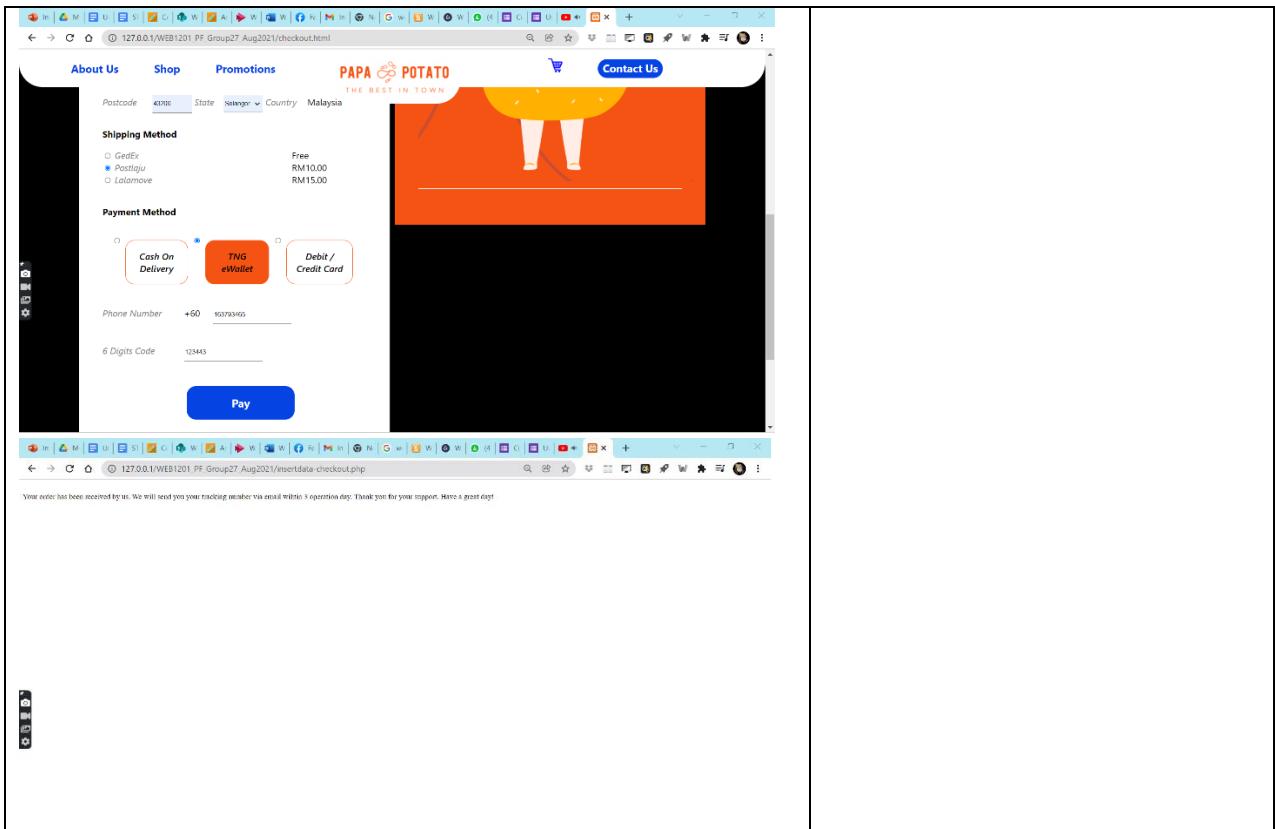


Figure 94: Checkout process in Chrome

ickCut	SeaSaltThickCut	SpicyThickCut	BBQWavy	CrunchySeaweedWavy	FreshVeggieWavy	JuicyTomatoWavy	OriginalWavy	SpicyWavy	TotalAmount_RM
0	0	0	0	0	0	4	3	42	
+ - T +									
<input type="checkbox"/>	<input type="checkbox"/>								
Edit	Copy	Delete	2	Yuen Yao	Lee	163793465	jamioloeyuemyao.lyy@gmail.com	12	Jalan Lagonda 15
									Taman Lagonda Mas
									43200 Solang

Figure 95: Data has been successfully inserted into database

### Microsoft Edge

The flow from checkout page to payment page went smoothly throughout the testing. The pop-up message and php message at the end displayed well as expected. Data has been successfully stored into the database.

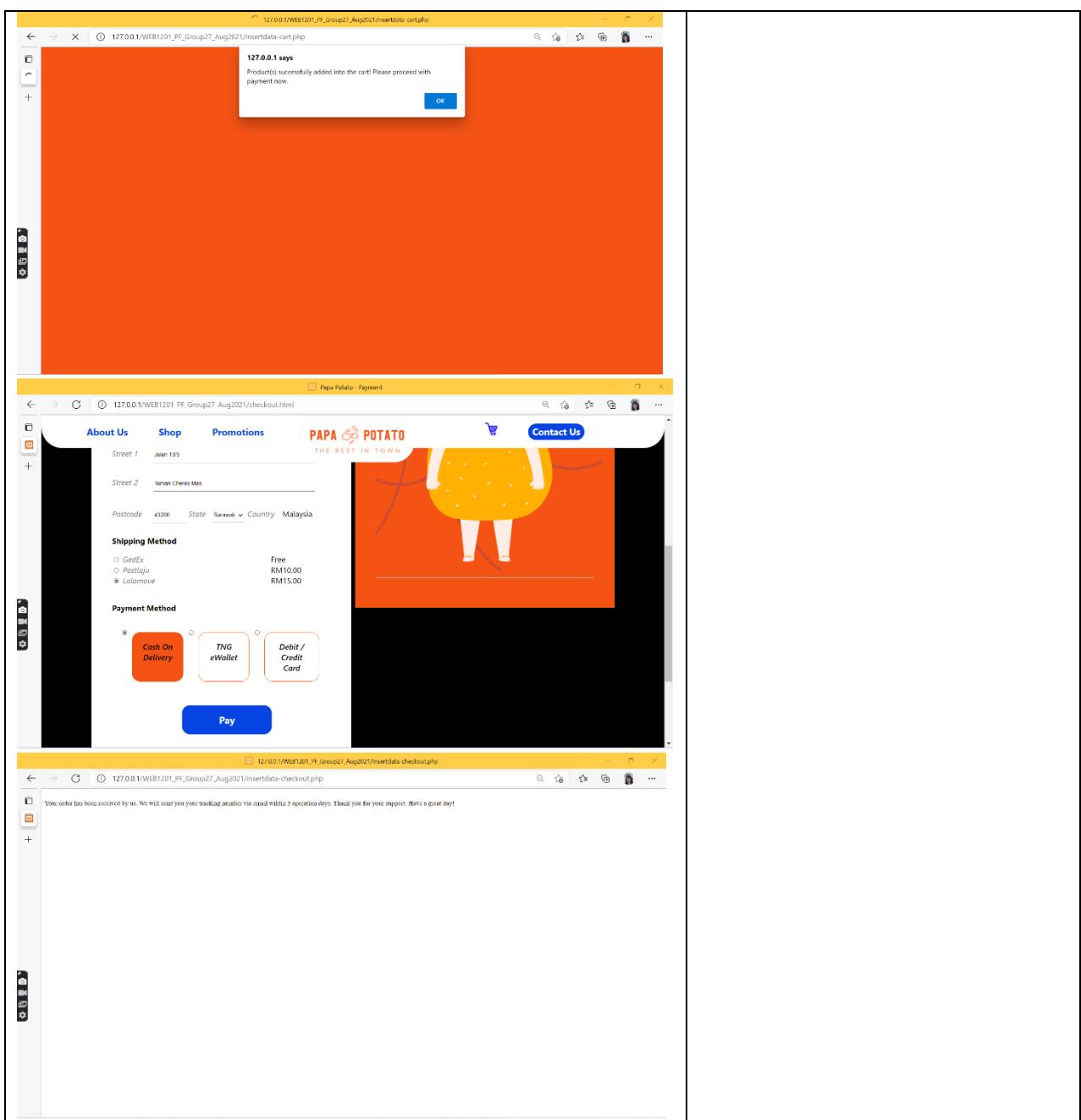


Figure 96: Checkout process in Microsoft Edge

<p>Figure 97: Data has been successfully inserted into database</p> <table border="1"> <tr> <td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>3</td><td>4</td><td>42</td></tr> <tr> <td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td>Jalan</td><td>Taman</td><td>Negeri</td></tr> <tr> <td>□</td><td>Edit</td><td>Copy</td><td>Delete</td><td>3 Jamie</td><td>Lee</td><td>Lagenda</td><td>Lagenda</td><td>Sembil</td></tr> <tr> <td></td><td></td><td></td><td></td><td>166012803</td><td>yylee@gmail.com</td><td>23</td><td>15</td><td>15</td></tr> </table>	0	0	0	0	0	0	3	4	42							Jalan	Taman	Negeri	□	Edit	Copy	Delete	3 Jamie	Lee	Lagenda	Lagenda	Sembil					166012803	yylee@gmail.com	23	15	15	<p>The flow from checkout page to payment page went smoothly throughout the testing. However, the pop-up message that we have designed when checking out from</p>
0	0	0	0	0	0	3	4	42																													
						Jalan	Taman	Negeri																													
□	Edit	Copy	Delete	3 Jamie	Lee	Lagenda	Lagenda	Sembil																													
				166012803	yylee@gmail.com	23	15	15																													

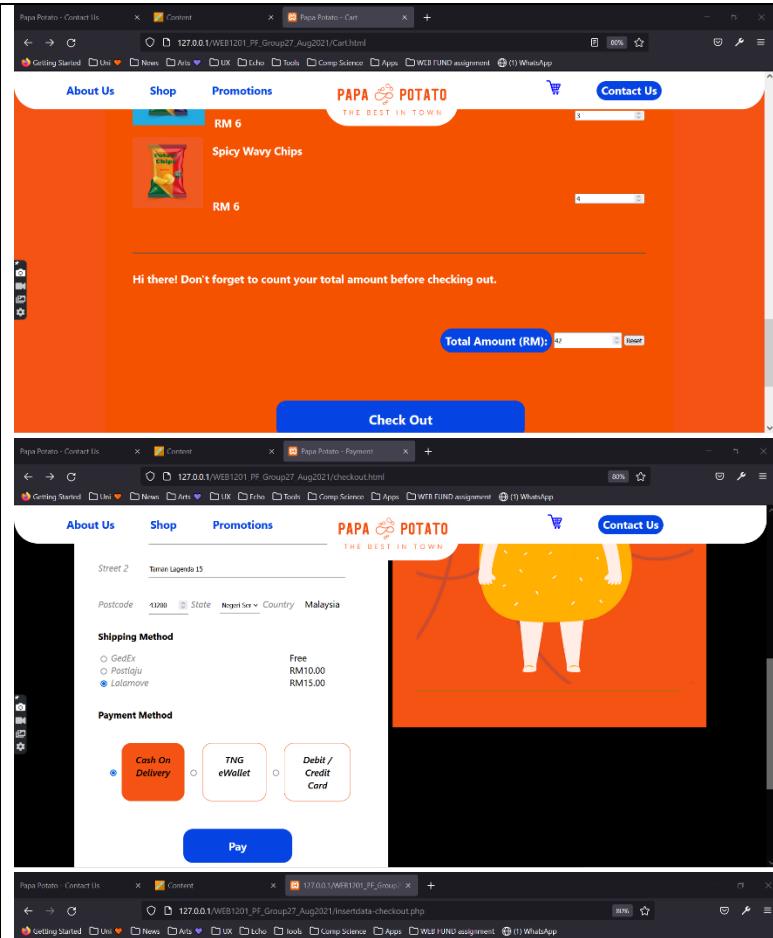


Figure 98: Checkout process in Firefox Developer

0	0	0	0	0	0	3	4	42
<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	4 YY	Lee	144344565	jamieleeuyenyao.lyy@gmail.com	1	Jalan 13/5 Taman Cheras Mas

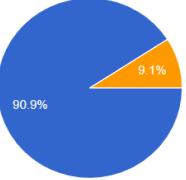
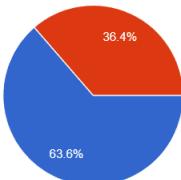
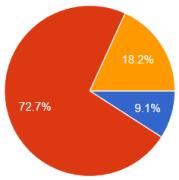
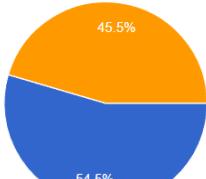
Figure 99: Data has been successfully inserted into database

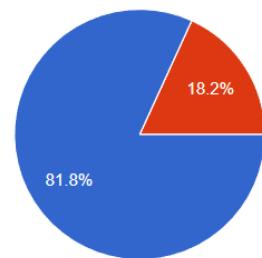
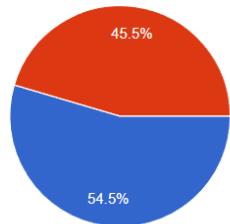
cart does not display. Instead, it straight away redirect the user to payment page after checking out. The php message at the end displayed well as expected. Data has been successfully stored into the database.

Conclusion: The overall check out process went smoothly in all browsers. However, the pop-up message that we have designed does not display on Firefox Developer browser, but this does not affect the process of checking out. All the data has been successfully stored into our database for future reference.

### **9.3 Non-technical Test Result**

A customer feedback form was distributed to our family and friends to test if the website fulfils the business and system requirements. The figures below show the responses collected.

<p>Will you be able to recognise our brand when you see the interface of our website next time?</p> <p>11 responses</p>  <table border="1"> <thead> <tr> <th>Response</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>90.9%</td> </tr> <tr> <td>Maybe</td> <td>9.1%</td> </tr> </tbody> </table> <p><b>Figure 100: Q1</b></p>	Response	Percentage	Yes	90.9%	Maybe	9.1%	<p>90.9% of the respondents agreed that our website interface would enable them to recognise our brand, while 9.1% of the respondents having doubt about it. None of the respondents answered that they will not be able to recognise the brand. This has achieved our objective on building an e-commerce website that can best represent our brand identity, but improvements need to be done to increase the brand awareness.</p>		
Response	Percentage								
Yes	90.9%								
Maybe	9.1%								
<p>Do you find it easy to navigate on Papa Potato's website? (5-Very Easy / 1-Difficult)</p> <p>11 responses</p>  <table border="1"> <thead> <tr> <th>Response</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>Very Easy</td> <td>63.6%</td> </tr> <tr> <td>Easy</td> <td>36.4%</td> </tr> </tbody> </table> <p><b>Figure 101: Q2</b></p>	Response	Percentage	Very Easy	63.6%	Easy	36.4%	<p>63.6% of the respondents responded that they find it very easy to navigate on our website, while 36.4% think it is easy to navigate. This has achieved our objective – include a fast and simple navigation in the website.</p>		
Response	Percentage								
Very Easy	63.6%								
Easy	36.4%								
<p>Did you come across any error/bug while you're browsing through our website?</p> <p>11 responses</p>  <table border="1"> <thead> <tr> <th>Response</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>No</td> <td>72.7%</td> </tr> <tr> <td>Yes</td> <td>18.2%</td> </tr> <tr> <td>Yes, but just some minor issues</td> <td>9.1%</td> </tr> </tbody> </table> <p><b>Figure 102: Q3</b></p>	Response	Percentage	No	72.7%	Yes	18.2%	Yes, but just some minor issues	9.1%	<p>72.7% of the respondents reflects that they did not came across any error or bug while browsing the website. 18.2% of the respondents reflects that they have come across some error or bug, while 9.1% of the respondents think that the error or bug they faced are some minor issues. Thus, we need to implement an in-depth testing to set up a fully bug-free website.</p>
Response	Percentage								
No	72.7%								
Yes	18.2%								
Yes, but just some minor issues	9.1%								
<p>Did you find the checkout process easy and less tedious as compared to the other e-commerce websites that you're familiar with?</p> <p>11 responses</p>  <table border="1"> <thead> <tr> <th>Response</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>54.5%</td> </tr> <tr> <td>Maybe</td> <td>45.5%</td> </tr> </tbody> </table> <p><b>Figure 103: Q4</b></p>	Response	Percentage	Yes	54.5%	Maybe	45.5%	<p>54.5% of the respondents agreed that the checkout process on the website is easy and less tedious than other e-commerce website, while 45.9% of the respondents are doubt about it. Therefore, changes need to be done in the checkout page to achieve a fast and simple checkout process.</p>		
Response	Percentage								
Yes	54.5%								
Maybe	45.5%								

<p>Do the functions on the website work as you expected?</p> <p>11 responses</p> 	<p>100% of the respondents think that the website work as they expected. This has met our goal of establishing a user-friendly e-commerce website that enables consumer to easily order potato chips online.</p>
<p>Does the website make you want to buy more snacks?</p> <p>11 responses</p> 	<p>81.8% of the respondents responded that the website will increase their snack-purchasing desire, while 18.2% of the respondents think it will not. Thus, the website has successfully attracted the consumers to purchase more items most of the time.</p>
<p>Does the website make you want to eat more snacks?</p> <p>11 responses</p> 	<p>54.5% of the respondents respond that the website makes them want to eat more snacks, while 45.5% of the respondents think the website does not make them want to eat more snacks. This means that the website is not effective on changing user's perception on snacks.</p>
<p>Were you informed of the promotions on the website?</p> <p>11 responses</p> 	<p>All respondents agreed that the promotions on the website are informative. Thus, we have achieved the target of ensuring users are informed about the promotions on the website.</p>

<p>Feedback on the website</p> <p>11 responses</p> <p>-</p> <p>All good! Love the colours of the website, it makes me want to buy more products from yall XD</p> <p>Well done, maybe cart can use grid structure as well so easier to see overall products</p> <p>would suggest to remove value packs page since it is still not available.</p> <p>one of the social media button didn't function well on home page. pls fix it~</p> <p>Colours are really nice. Love the design of the payment page</p> <p>The flow from cart to payment is smooth, overall is good</p> <p>The website display well on laptop but not mobile phone. But other than this everything works fine on laptop</p> <p>Colours are really nice and I can definitely recognise it when I see it next timme</p>	<p>Most of the respondents reflected that the website overall functionalities and designs are good, but some of them have commented on minor problems. Thus, we have already fixed the problems mentioned by them to meet the user's expectations.</p>
<p>Suggestions for improvement(s)</p> <p>5 responses</p> <p>-</p> <p>make it available on mobile phone also~</p> <p>make the website responsive</p>	<p>The respondents suggested us to make the website responsive and available on mobile phone. Therefore, this will be the improvement that we can consider in the future.</p>

Figure 109: Q10

## **10 Conclusion and Future Work**

We have managed to keep up with the schedule and completed the website just in time. Our knowledge on JavaScript and PHP was dense prior to creating the JavaScript for our website, so we had to do our own research, watch and refer back to our lab sheets and online sources to understand more about it in order for us to implement in on our website.

Furthermore, we have also managed to code out the website layout and content in accordance to our layout and flow plan with some slight changes using our knowledge on CSS and HTML to achieve what we have expected. Besides that, we have also done several user acceptance tests for the website to verify whether everything is working as expected.

To conclude, we have achieved all our objectives for the website and we have done everything we could to achieve the expected outcome.

There are still enhancements on the website that can be done in the future. In the future, we can standardize the way the website appears on different types of devices and screen sizes as our current website is only built for desktop (user's default screen size). Thus, displaying the website on other devices or screen sizes will result in a different layout arrangement which can be a hassle to navigate around website.



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## Appendix

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A.2. nextin, *Free Potato chips package design, foil bags with the original file in 3d illustration*. Vecteezy.



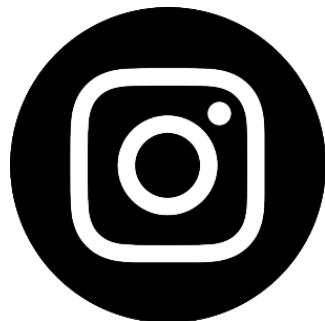
A.3. divya dutt, *The Lilypad: An Eclectic Eco Friendly Tiny Home*. Pinterest.

[https://br.pinterest.com/pin/422564377535934793/?amp\\_client\\_id=CLIENT\\_ID\( \)&mweb\\_unauth\\_id={{default.session}}&simplified=true](https://br.pinterest.com/pin/422564377535934793/?amp_client_id=CLIENT_ID( )&mweb_unauth_id={{default.session}}&simplified=true)



A

A.4. *Instagram icon.* Tampa Magazine. <https://tampamagazines.com/tampa-consultant-discusses-media-campaigns/attachment/1597748/>



A.5. K.Michelle. *Twitter Logo Vectors Free Download.* Pinterest.  
<https://www.pinterest.com/pin/274649277253964645/>



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