

**SCHOOL OF ENGINEERING AND**  
**TECHNOLOGY ACADEMIC SESSION**

**AUGUST 2022;**

**WEB1201 WEB FUNDAMENTALS**

**DEADLINE: 25<sup>TH</sup> November 2022 (FRIDAY), 5:00 PM**

**STUDENT NAME: Lester Koon Zhy Min (20068813)**

**NRIC/PASSPORT NO: 020919101789**

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**INSTRUCTIONS TO CANDIDATES**

- This final assessment will contribute 50% to your final grade.
- This is an individual assignment.

**IMPORTANT**

The University requires students to adhere to submission deadlines for any form of assessment. Penalties are applied in relation to unauthorized late submission of work. Coursework submitted after the deadline will be subjected to the prevailing academic regulations. ~~Please check your respective programme handbook~~

**Academic Honesty Acknowledgement**

"I .....Lester Koon Zhy Min...(20068813).....(Name) verify that this paper contains entirely our own work. I have not consulted with any outside person or materials other than what was specified (an interviewee, for example) in the assignment or the syllabus requirements. Further, I have not copied or inadvertently copied ideas, sentences, or paragraphs from another student. We realize the penalties (*refer to the student handbook diploma and undergraduate programme*) for any kind of copying or collaboration on any assignment."

## **1. Introduction**

### **1.1 About the website**

This website is created based around the theme of the popular game franchise “Pokémon”, more specifically the Trading Card Game (TCG). It aims to provide users with information surrounding the game as well as provide the users with a reliable platform to purchase these cards.

Why was this website created? Over the past few years, the Pokémon franchise has seen a large resurgence in popularity with adults and children alike gaining interest in it. Given its sudden rise in the global eye during the Covid-19 pandemic and with the launch of the new games in the upcoming weeks, it is safe to say that the Pokémon Trading Card Game is as popular as ever. However, In Malaysia, even though most have played or at least heard of the game, there is a severe lack of platform for people to purchase the cards and share interest with other like-minded people both online and physically. Thus, this website was created with hopes to solve this problem.

### **1.2 Background on the topic**

Pokémon cards are collectible trading cards that were first released in 1996. They are available in a variety of languages and are used to play the Pokémon Trading Card Game. The Pokémon Trading Card Game is a card game based on the Pokémon series of video games, where players use their own deck of 60-cards to battle against each other. The Pokémon Trading Card Game is an outgrowth of the Pokémon card game, which was first released in Japan in 1996. It is a collectible card game where players use their own deck of 60-cards to battle against each other. The initial release contained 49 different cards that were not based on any games; however, it later received new cards for the first and second generation of video games. In 1999, Nintendo's "Pokémon" franchise began and new expansions were created to accompany the Players can buy or sell their cards online, or trade them with friends. The games were originally sold as individual decks of cards, with most of the cards featuring artwork by Ken Sugimori. Some of the later expansions have had additional artists such as Hidaka, Kusanagi and Itagaki-Tsukasa.

### 1.3 Functional Requirements

Functional Requirements	Description
a) Login function	This website should have a user authentication function that allows the user to login with their name and function
b) Sign up function	This website should have function to allow users to register for a new account with their e-mail address
c) Mail Listing	This website should have function which allows users to subscribe to the newsletter by entering their e-mail
d) Shop function	This website should have a shop function to allow users to view and discover its products
e) Purchase function	Users should be able to purchase the products they are interested in.
f) Additional information function	Users should be able to discover additional, relevant information both within and outside the website
g) Contact function	This website should have a contact function which allows the users to contact support by submitting a form.

### 1.4 Non-Functional Requirements

Non-Functional Requirements	Description
a) Accuracy	The website should be able to accurately identify the users' inputs to avoid any problems as the website requires the users' information and can be used for commercial use.
b) Security	The website should be able to prevent unauthorized users to enter the website and to view other users' information
c) Understandability	The website should be straightforward and comprehensive to allow users to easy navigate throughout the website with minimal digital literacy
d) Scalability	The website must be able to be viewed on all viewport sizes without any leakages or overlaps

## 2. Website Design

### 2.1 Link to the website

[Click Here](#)

### 2.2 Webpages

#### 2.2.1 Login / Sign Up page

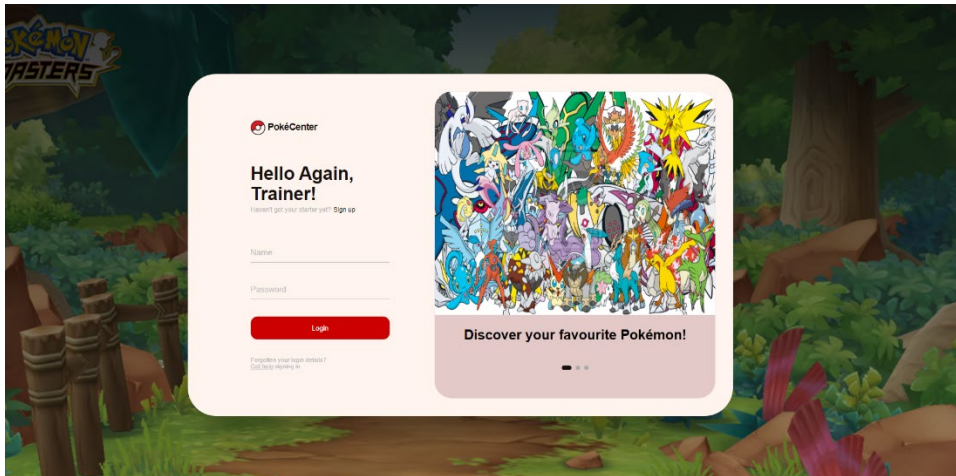


Figure 1 Log in Page

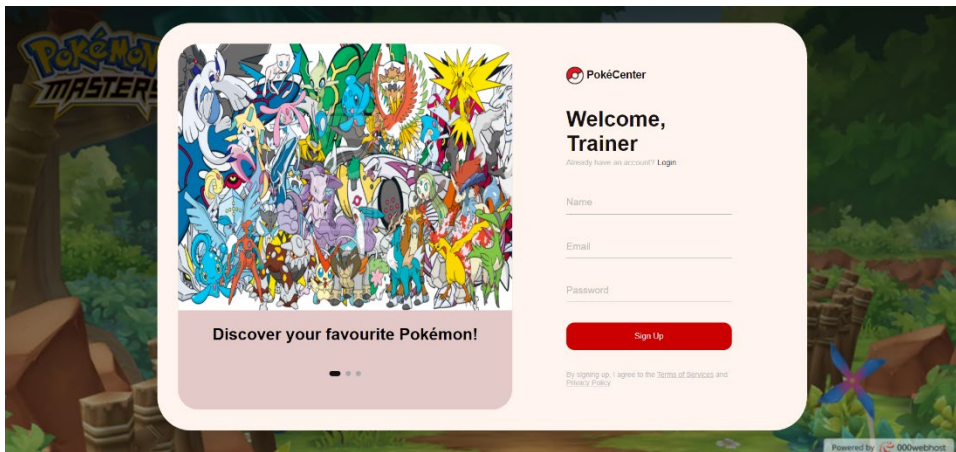
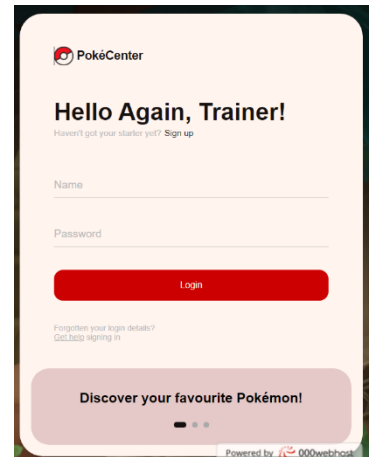
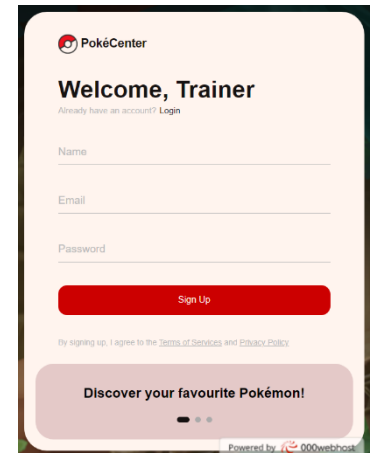


Figure 2 Sign up Page



2.2.2 Successful Login / Sign Up



Figure 3 Successful Log in Page

2.2.3 Header

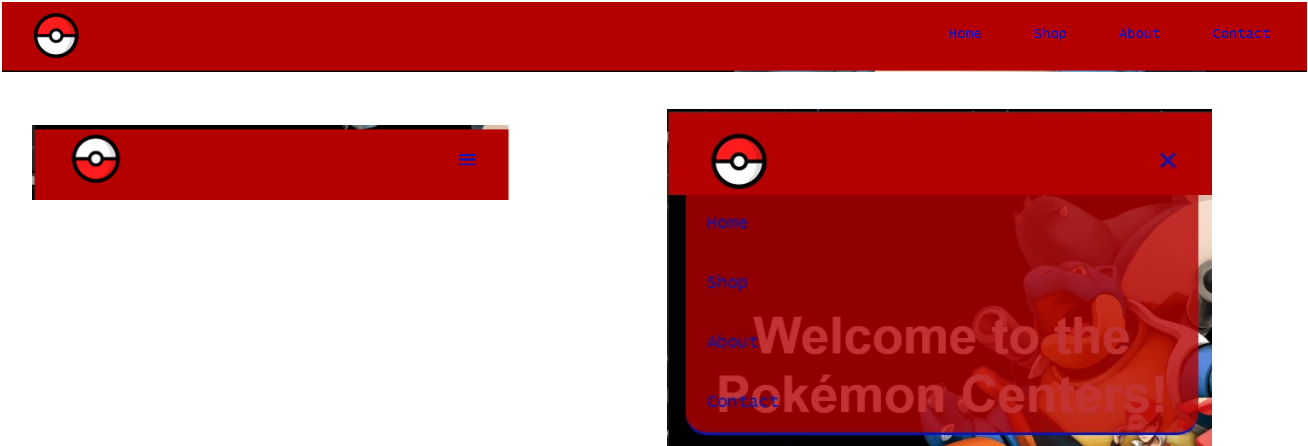


Figure 4 Website Header

2.2.4-Footer



Figure 5 Website footer

2.2.5 Homepage

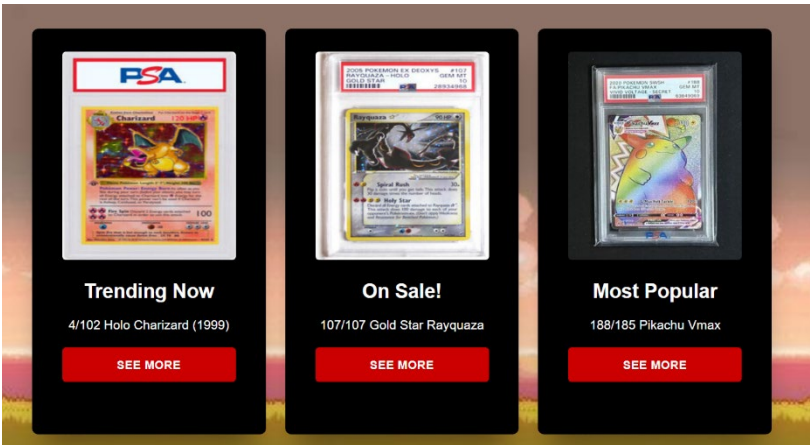
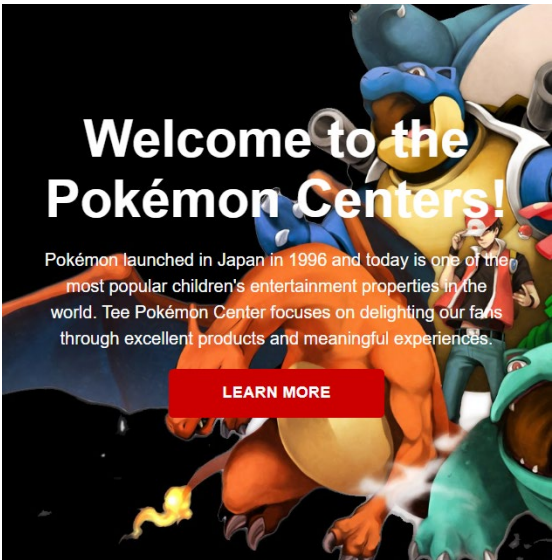


Figure 6 Homepage



2.2.6 Shop page

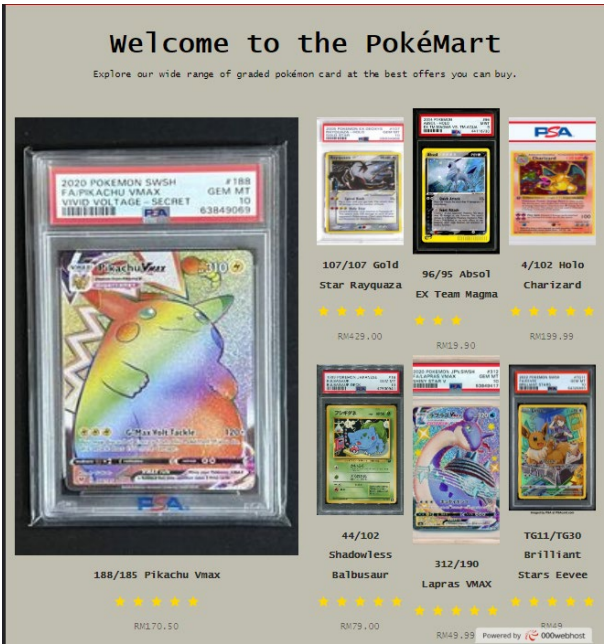
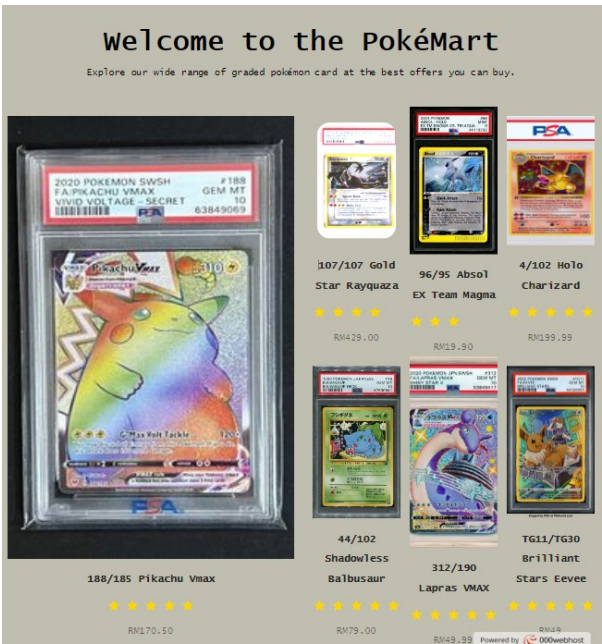


Figure 7 Shop page



2.2.7 About page

## The Complete Guide to Pokémon Cards

with the sudden boom in the Pokémon franchise over the past years, mainly during the peak of Covid-19. This store aims to attract new players as well as allow veterans to relive in the nostalgia of one of the biggest part of the Pokémon franchise, which is the... "Pokémon Trading Card Game"

The Pokémon Trading Card Game is a collectible card game based on the Pokémon video game series. The game was developed by Media Factory and originally released in Japan in October 1996.

The Pokémon Trading Card Game is played between two players, each with their own deck of 60 cards. Players take turns drawing cards from their decks and placing them face-down onto the playing field, which consists of six to eight "prize cards" (the opponent's goal). When both players have no more cards to draw, they each flip over one of the face-down cards on the playing field and compare it to their opponent's card. If they match, that player wins both prizes; if not, they flip over another card from the playing field until they find a match or run out of cards. The player who collects all six prizes first wins the game.

## The Complete Guide to Pokémon Cards and How They are Disrupting the Toy Industry

GET STARTED

100 + million players  
An exponentially rising number of players of the Pokémon franchise

~369 Different Cards  
Explore our wide range of products

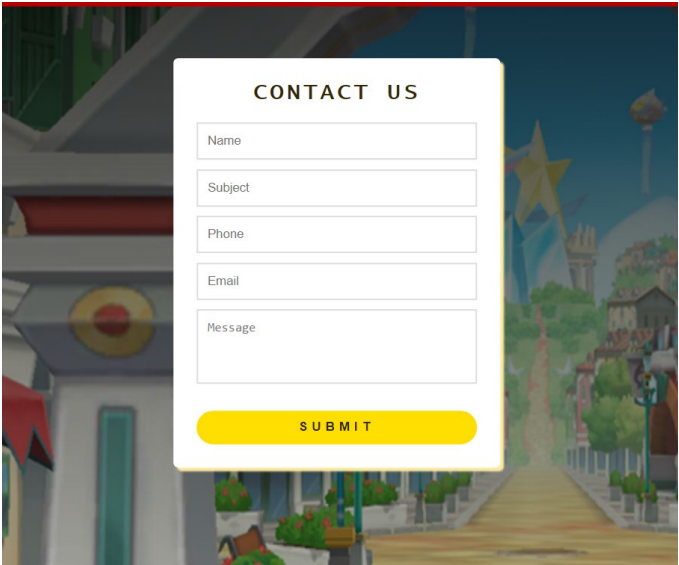
4000 + Products Sold  
Cards sold to satisfied customers

24/7 Support  
Our team can help you anytime and anywhere

Powered by 000webhost

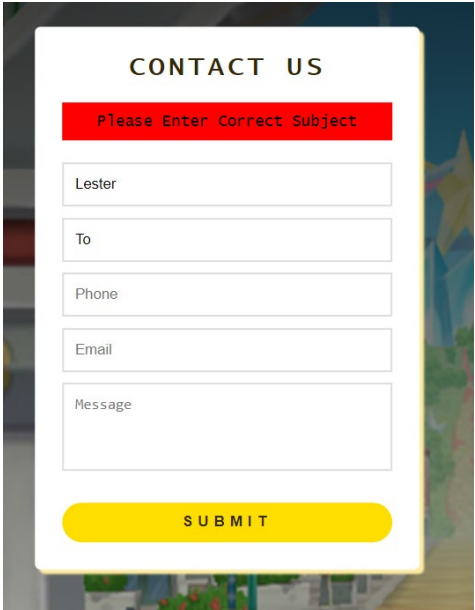
Figure 8 About Page

2.2.8- Contact page



A contact form titled "CONTACT US" is displayed over a background image of a stylized city street. The form contains five input fields: "Name", "Subject", "Phone", "Email", and "Message". A yellow "SUBMIT" button is located at the bottom of the form.

Figure 9 Contact form



A contact form titled "CONTACT US" is displayed over a background image of a stylized city street. A red error message "Please Enter Correct Subject" is shown at the top. The form contains five input fields: "Lester" (pre-filled in the "Name" field), "To" (pre-filled in the "Subject" field), "Phone", "Email", and "Message". A yellow "SUBMIT" button is located at the bottom of the form.



## 2.3 Navigation Graph

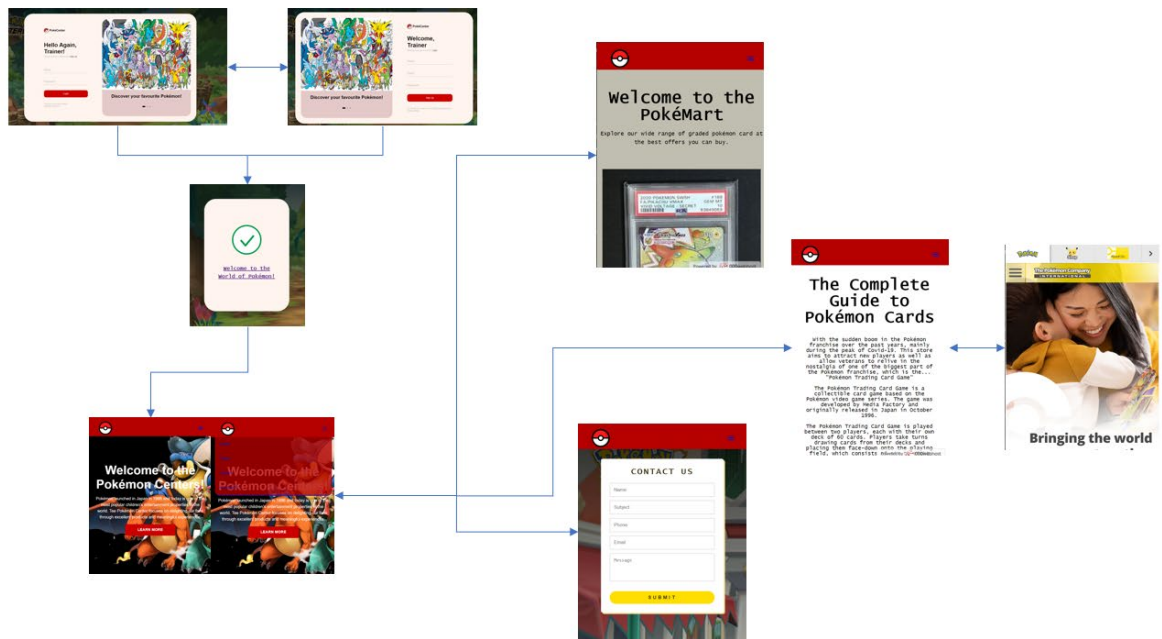
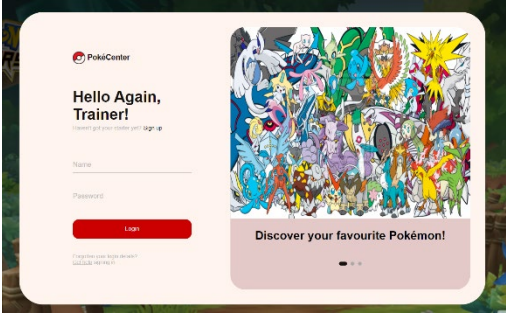
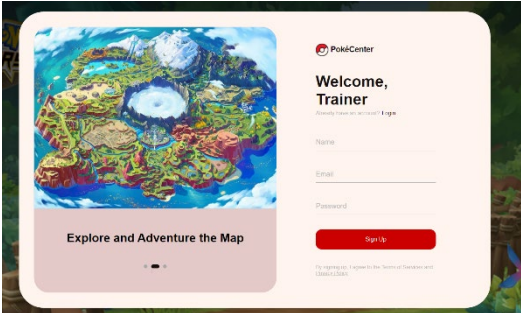

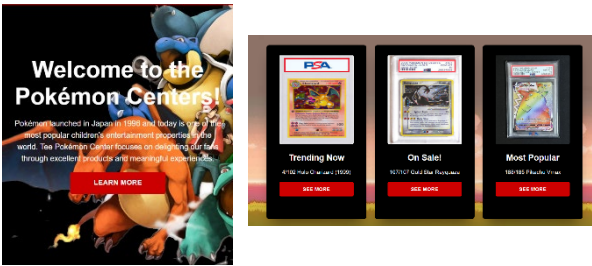
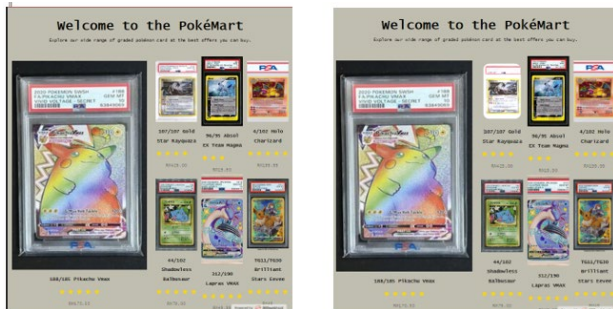


Figure 10 Navigation diagram of the website

## 2.4 UI design

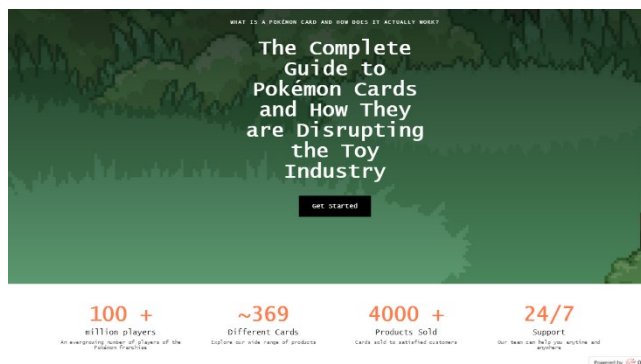
UI Design	Description
<p>i. Login U</p> 	<p>This is the first page of the websites it prompts the user to enter their relevant information if they already have an existing account. It also provides new users the opportunity to create an account by pressing “Sign up”. Relevant additional information is also provided. There is also a gallery carousel to make the page look more attractive.</p>
<p>ii. Sign in UI</p> 	<p>The sign in page is interchangeable with the login page and have identical UI design.</p>
<p>iii. Successful login UI</p> 	<p>This UI display a big check mark in the center which indicates that the user has successfully login / sign up and is able to enter the website</p>
<p>iv. Homepage UI</p> 	<p>The homepage UI is the main UI of the website. It starts with a big title in the center which welcomes the users and provides a brief information about the site. There is a “Learn More” button which entice the user to click it for additional information. The cards which display the best and most popular products is placed on a flat background, thus the users’ attention is drawn to them</p>

## v. Shop UI



The shop UI is a simple design which focuses on the products. The most popular product is emphasized compared to the others. The images are highlighted once the user hovers over them, to indicate which product they are selecting

## vi. About page UI



The about UI is design while focusing on being informative, thus it only display summaries of the information while providing the bulk of the information on an external link. The statistical data is also design in a simple way by focusing on the numbers and providing the description below it

## vii. Contact form UI

The contact form is design with intuitive prompts which helps the users fill it in. There is also little objects surrounding it to avoid distracting the users when they are submitting the form as it is an important feature.

## 2.5 Video Presentation

[Click Here](#)

### 3. Test Case

#### 3.1 Login Validation

Test Case ID	T-001
Objective	Test if the user is able to enter invalid login data
Condition	User inputs invalid information in the login field and tries to login
Steps	User fills the Name and Password field User clicks the “Log In” button
Input Data	Name: 12 Password: Bob
Expected Results	The website will prompt the user to input valid data into the relevant fields
Actual Results	The website prompted the user to input valid data which meets each field requirements into the relevant fields
Test Result	Pass

#### 3.2. External Link Button Validation

Test Case ID	T-002
Objective	Test if the button successfully redirects the user to an external site
Condition	User clicks the “Get Started” button, to gain more detailed information about the specified section
Steps	User clicks the “Get Started” button
Input Data	User click
Expected Results	The button will successfully redirect the user to the external website
Actual Results	The button successfully redirects the user to the external website
Test Result	Pass

#### 3.3 Mailing List E-mail Validation

Test Case ID	T-003
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Objective	Test if the button will successfully accept the users' e-mail
Condition	User enters their email to subscribe to the mailing list
Steps	Users enters their e-mail User clicks the "Submit" button
Input Data	Enter your email: paul@qos.com
Expected Results	The button will successfully submit the users' e-mail and clear the field
Actual Results	The button does nothing
Test Result	Fail

### 3.4 Contact Form Phone Number Validation

Test Case ID	T-004
Objective	Test if the form is able to detect if the users' phone number is valid or not
Condition	User inputs invalid information in the login field and tries to login
Steps	User fills the Name, Subject and Phone fields in the form User clicks the "Submit" button
Input Data	Name: Faith Subject: Cancellation Phone: 0111992
Expected Results	The form will ask the user to enter a valid phone number
Actual Results	The form prompts the user to "Please Enter valid Phone Number" once they click the "Submit" button
Test Result	Pass