Report

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CHAPTER 1 – INTRODUCTION

In today's era of modern technology, many things are made easily accessible and possible. Because of the increasing popularity of fast fashion, our planet is suffering from its consequences. The phrase "fast fashion" has gained popularity in discussions of fashion, sustainability, and environmental awareness. In order to capitalize on current trends, the phrase is used to describe "cheaply produced and priced garments that copy the latest catwalk styles and get pumped through stores quickly." The term was first used at the beginning of the 1990s, when Zara landed in New York. "Fast fashion" was coined by the New York Times to describe Zara's mission to take only 15 days for a garment to go from the design stage to being sold in stores. The biggest players in the fast fashion world include Zara, UNIQLO, Forever21 and H&M. Even though fast fashion is a good business modal, there are uncountable repercussions to it. The three largest contributors to the industry's worldwide environmental impacts, according to Quantis (2020) , are dyeing and finishing (36%), yarn preparation (28%) and fiber production (15%). The study found that cotton farming has the greatest impact on freshwater withdrawal (water diverted or withdrawn from a surface water or groundwater source) and ecosystem quality, while the energy-intensive processes used in dyeing and finishing, yarn preparation, and fiber production have the greatest effects on resource depletion.

To help combat this serious issue, the website I have created will focus on spreading awareness of combating climate change. My website has implemented the 13th Sustainable Development Goal - Take urgent action to combat climate change and its impacts. I have decided to go for an educational and educational website. The rationale behind this decision is that users can be educated on climate change and SDG 13 while also being able to contribute to reducing carbon footprints by purchasing the sustainable items my website offers, and also to promote my sustainability brand. I believe that through my website, the public can be aware of our environment, and they will have a solid understanding of our environmental issues, which they can use to launch helpful projects in their house or community, improving our planet. By being sustainable, our society gains over time from better air and water quality, fewer landfills, and more renewable energy sources. Sustainable practices aid in changing society for the better. Following a sustainable lifestyle will lessen your carbon footprint and the amount of toxins released into the environment, thereby enhancing its safety. The entire world gains from a sustainability focus and gets to live in more hygienic, healthier conditions.

Next, I will give an overview of the website. Firstly, the name of the website is BeSus!, it means be sustainable, it is a name suitable for the content of the website. For the colour scheme of the website, it is in various shades of green. Since the website is spreading awareness of the environment it is appropriate to use this colour as it is the colour of nature.

Following that, I will talk about the requirements given for the website. It is required to use HTML for the website design and CSS for the styling and colours, which I did for my website. Besides that, labels, textboxes, dropdown lists, buttons, links and navigations are also compulsory. It is vital to include them because they help users to navigate through the webpage and to also build a website with a good user interface. According to Flavian et al. (2009), due to its impact on users' views and behavior as online consumers, web design is a crucial component for achieving

desired results. A website that has been designed with ease of use and navigation in mind offers users timely, accurate information in all its contents as well as a visually appealing design. The following Table 1 describes the functional requirements of the website.

Table 1: Functional Requirements of the Website

Functional Requirements	Description
a) Register Function	The website should have a user registration function to allow users to register with their email.
b) Login Function	The website should have a user authentication (login) function that allows the user to login with their username and password
c) Contact Form Function	The website should have a contact form function that allows users to send inquiries
d) Access Cart Function	The website should have an access cart function that allows users to see their items which have been added to their cart.

CHAPTER 2 – LAYOUT DESIGN

The layout of the website was initially drafted and sketched with pen and paper. After deciding the best layout, the following screenshots display the finalized layout design of the website with a description of each page.

2.1 Main Page
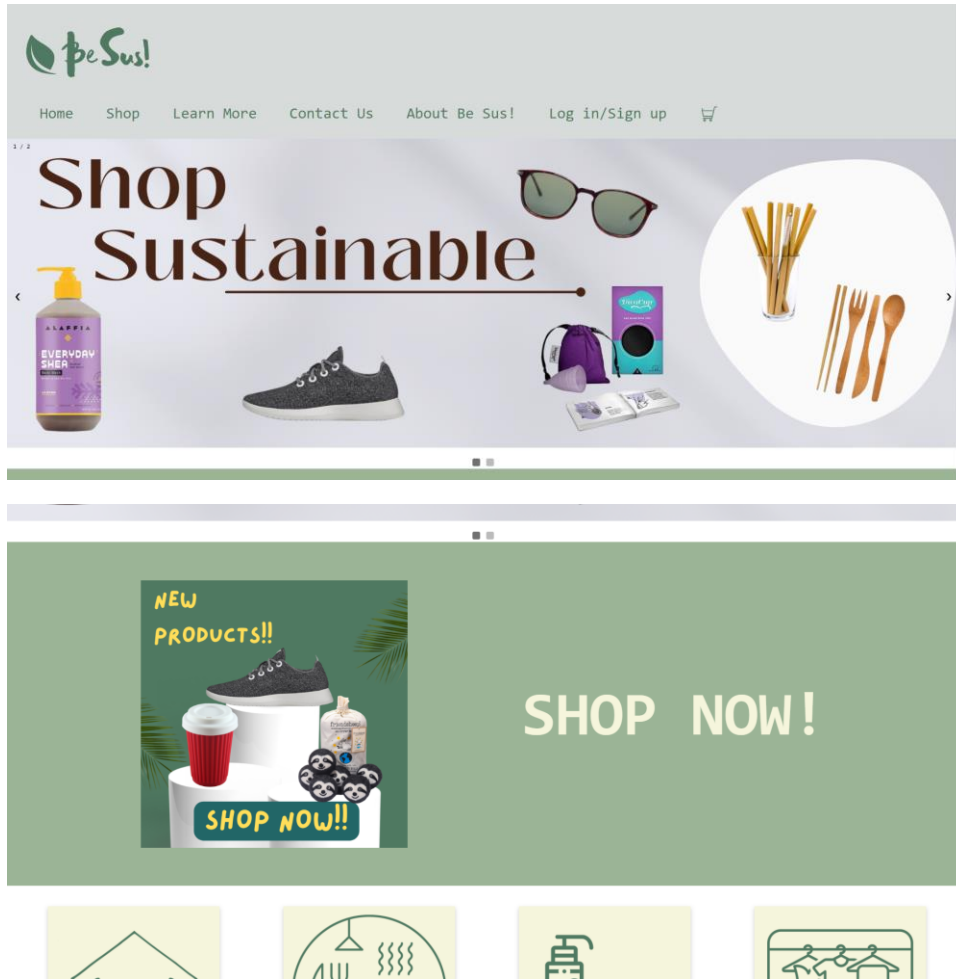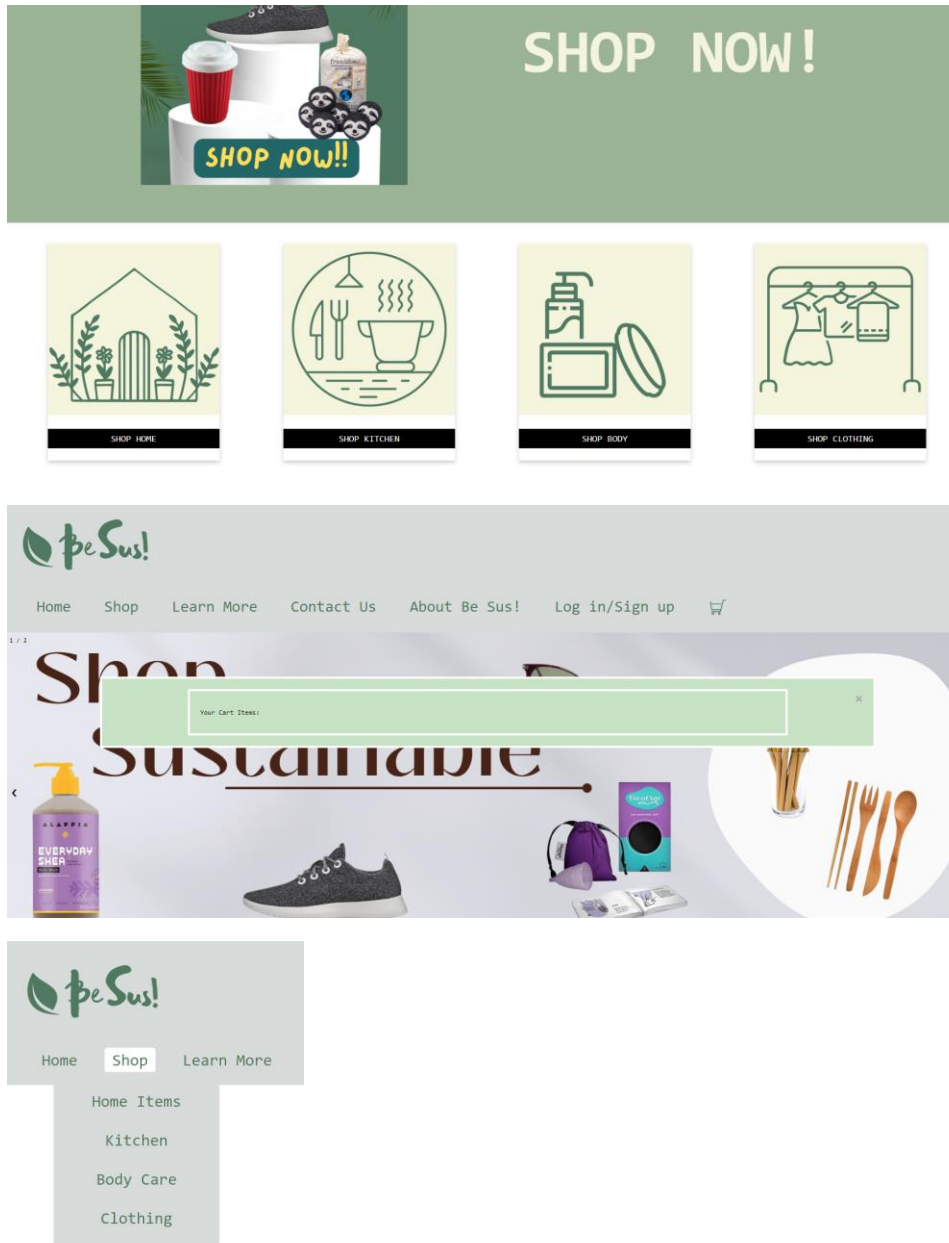
The screenshots above are the main page of the website. When a user visits the website, this will be the page that they will first see. The main purpose of this page is to let the users see the overview of the website. On the top of the webpage, there is a navigation bar that lets users browse through the website effortlessly. The navigation bar is on every page and when the users click on the logo on the upper left corner, they will be directed back to the home page. Below the navigation bar is a simple slideshow including products that the website offers, promoting sales. Next, it is followed by an image of the latest items on sale, along with a very noticeable "SHOP NOW!" button to attract user's attention, clicking on the link will bring them to the page to purchase items. And below that. It is accompanied by 4 cards that will bring users to the respective categories to shop

just by clicking on it. It is to show users what type of products we offer and to ease them in finding products. Furthermore, if users hover over the "SHOP" it will display a drop-down menu showing the different categories of products the website offers.

2.2 Shop

Home Items
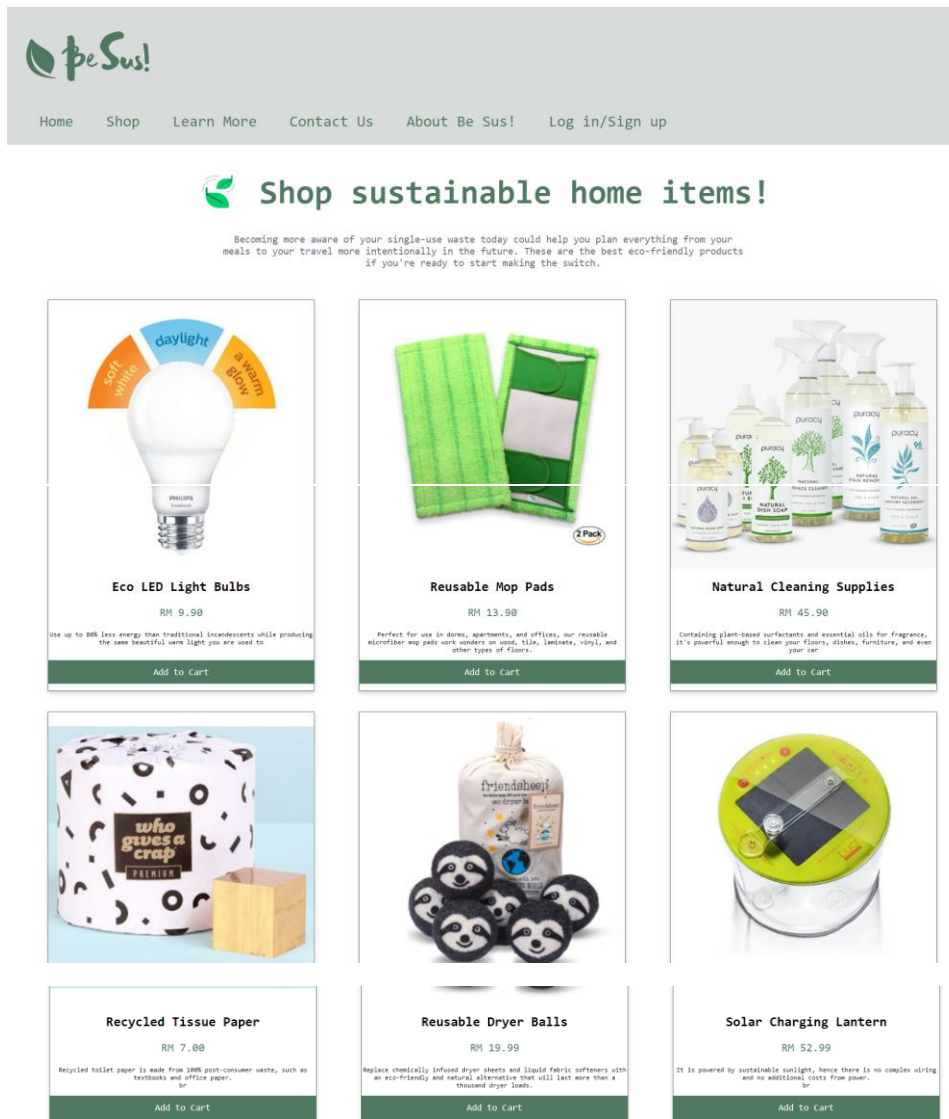
This is the page to purchase sustainable home items. There is a big title saying, "Shop sustainable home items!" so the users can know what category of products they are looking at. Below the title is a short description of the advantage of switching to sustainable items. The layout of the products is 3x2. The product container is big and inside is a picture of the product, the product name, product price and the product description. There is also a button to click to add the item into cart. The rest

of the categories, which are kitchen items, body care and clothing, also have the same layout as this.
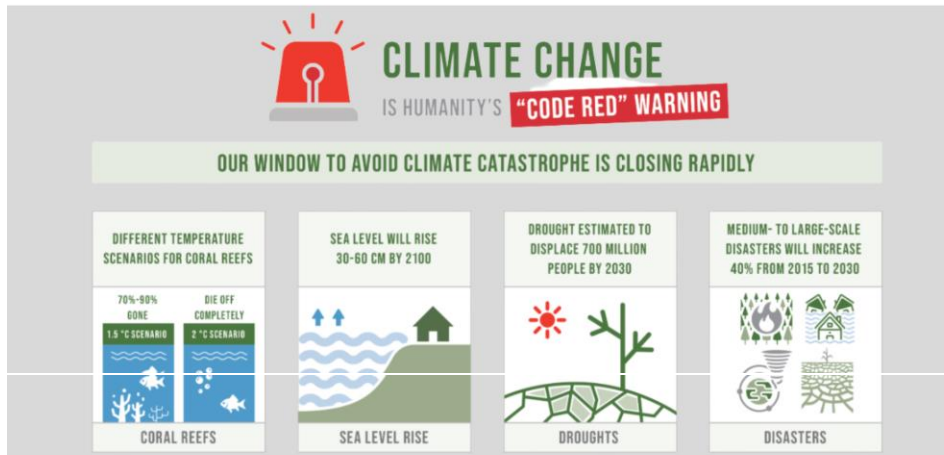
2.3 Learn More

The global temperature has already risen 1.1°C above the pre-industrial level, with glaciers melting and the sea level rising. Impacts of climate change also includes flooding and drought, displacing millions of people, sinking them into poverty and hunger, denying them access to basic services, such as health and education, expanding inequalities, stifling economic growth and even causing conflict. By 2030, an estimated 700 million people will be at risk of displacement by drought alone.

Taking urgent action to combat climate change and its devastating impacts is therefore an imperative to save lives and livelihood,and key to making the 2030 Agenda for Sustainable Development and its 17 Goals,a reality.

In 2020, concentrations of global greenhouse gases reached new highs, and real-time data point to continued increases. As these concentrations rise, so does the Earth's temperature. In 2021, the global mean temperature was about 1.1°C above the pre-industrial level (from 1850 to 1900). The years from 2015 to 2021 were the seven warmest on record.

To limit warming to 1.5° Celsius above pre-industrial levels, as set out in the Paris Agreement, global greenhouse gas emissions will need to peak before 2025. Then they must decline by 43 percent by 2030 and to net zero by 2050. Countries are articulating climate action plans to cut emissions and adapt to climate impacts through nationally determined contributions. However, current national commitments are not sufficient to meet the 1.5°C target.

CLIMATE CHANGE
IS HUMANITY'S **"CODE RED" WARNING**

OUR WINDOW TO AVOID CLIMATE CATASTROPHE IS CLOSING RAPIDLY

DIFFERENT TEMPERATURE SCENARIOS FOR CORAL REEFS	SEA LEVEL WILL RISE 30-60 CM BY 2100	DROUGHT ESTIMATED TO DISPLACE 700 MILLION PEOPLE BY 2030	MEDIUM- TO LARGE-SCALE DISASTERS WILL INCREASE 40% FROM 2015 TO 2030
70%-90% GONE — 1.5 °C SCENARIO / DIE OFF COMPLETELY — 2 °C SCENARIO			
CORAL REEFS	SEA LEVEL RISE	DROUGHTS	DISASTERS

How you can help

Sustainability improves the quality of our lives, protects our ecosystem and preserves natural resources for future generations. In the corporate world, sustainability is associated with an organization's holistic approach, taking into account everything, from manufacturing to logistics to customer service. Going green and sustainable is not only beneficial for the company; it also maximizes the benefits from an environmental focus in the long-term.
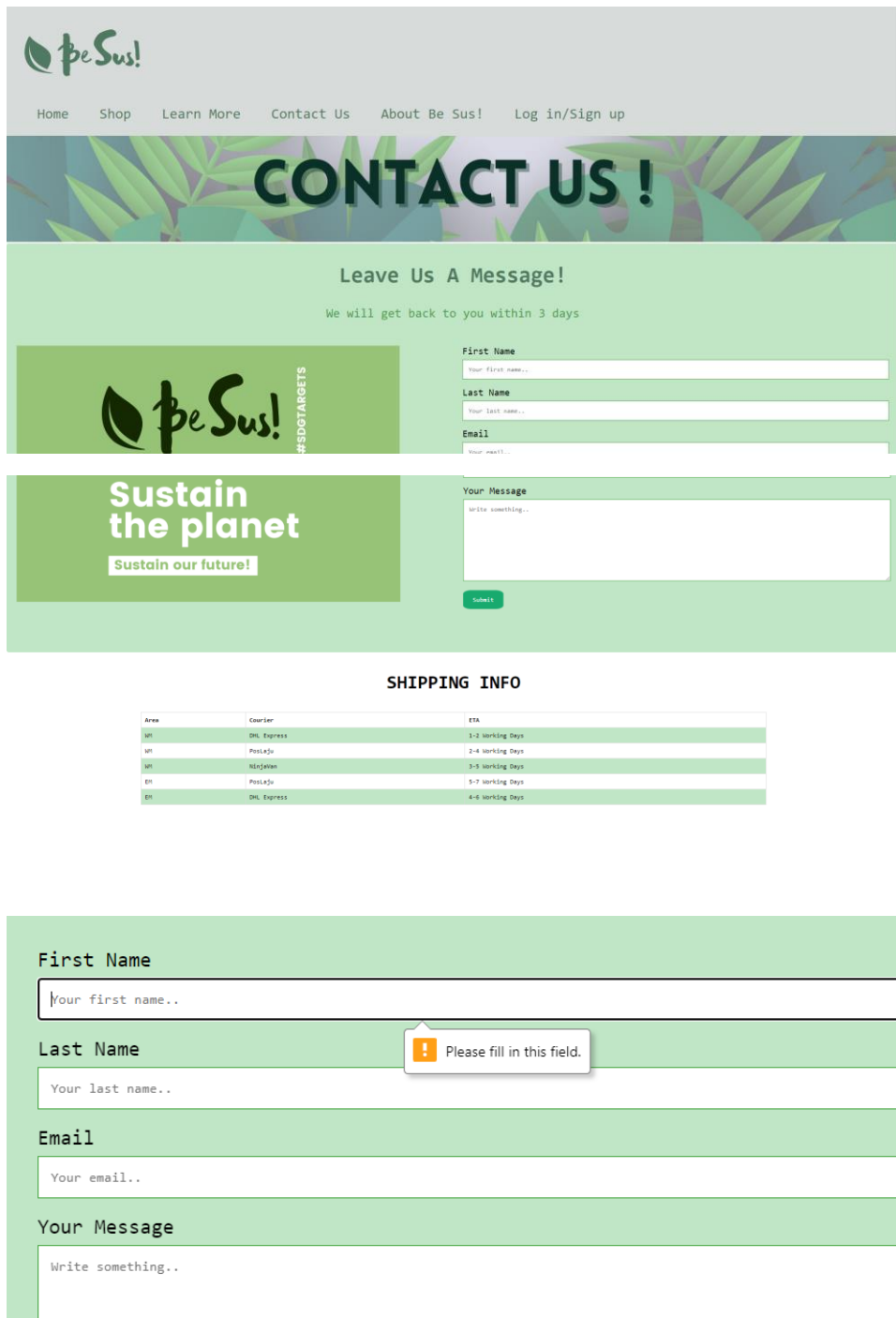
It's actually very easy to opt for sustainable products these days.Tons of companies make sustainability a priority. From clothing, to beauty brands, to food and energy companies. There are so many sustainable options to choose from. So choose brands that make sustainability a top priority. Choose brands that use recycled plastic or materials rather than brands that continuously add to the landfills. If you are a business owner yourself, careful planning across your business processes can help you stop sending waste to landfills. Businesses can take a lot of simple steps to achieve more sustainable practices, such as using bamboo instead of disposable plastic cutlery, replacing fluorescent tubes with LED bulbs, and hiring waste treatment contractors, etc.

This page is for users to know more about SDG13 and the environment. When they are at this webpage, they will see a title notifying them that it is about SDG13. Besides that, there is an SDG 13 banner and below the banner is a video on the topic. Following that is an infographic on how climate change is affecting our planet and below the infographic there is a paragraph that educates users on how they can help to combat this issue. And lastly, there is a poster on sustainability. The layout of this page is straightforward and easy to navigate through yet still being colorful and eye catching. This is let the users to not change to other webpages so quickly.

2.4 Contact Us

For this page, it lets users leave me a message through the contact form. Firstly, there is a big banner on the top labelled "CONTACT US!", this will let the users know which page they are on. Below that is a simple contact form. There is also an image that promotes sustainability beside the form. And below the form, there is a two-colored table to conveniently let users see the shipping info for the products they have purchased based on their area. The contact form is comprised of 4 sections, first name, last name, email and your message. There is a button in another shade of green

that is easily seen by the users to submit the form. In order to submit a message, a user must enter their name, email and their password and click on submit. Failure to fill in the form will result in a pop-up message notifying them to fill in the field. This page is designed to look simple yet being able to let users to do what they need to do, e.g., submitting a message or looking at the shipping info table.

2.5 About Be Sus!
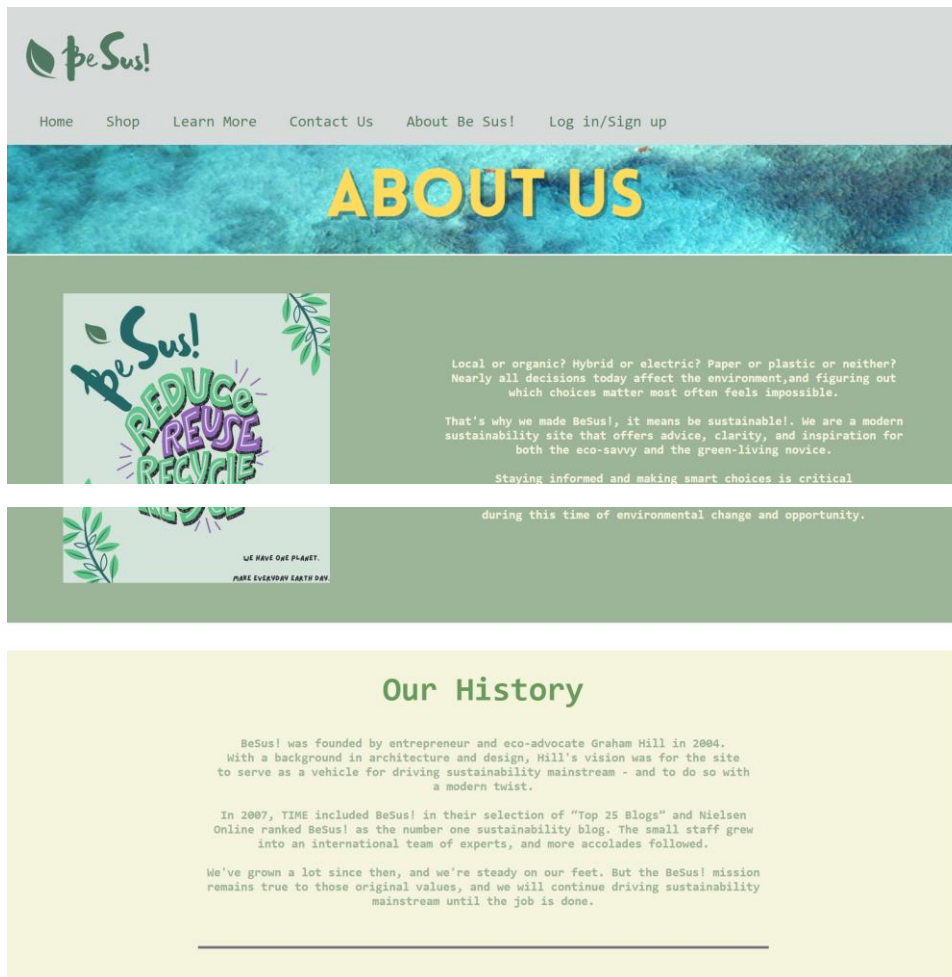
On this page, it is to introduce my brand to the users. Like the contact page, there is also big banner on the top labelled "ABOUT US!", this is to let the users know which page they are on. Below the banner is a section that talks about BeSus!. There is an image on the left and the explanation on the right. The colours used compliments to each other so it looks comfortable when we look at it. Below that is another section that explains the history of BeSus!. The colour used is the inverse from the previous section. The layout for this page is made simple as to not overcomplicate as there are already many texts and it might overwhelm some users.

2.5 Log in/ Sign up
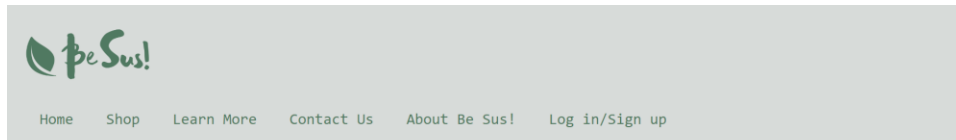
The first screen shot is the login page and the second page is the sign up page. They both have the same layout. There is a label on top, either Login or Sign Up Now as to not confuse the user. The log in page is used for users who already have an account. They have to enter their username and password to sign in. It is designed simply for a good user interface and to not overcomplicate the login/signup process. There is a button on the bottom of the form to submit it. And for the login page, it is easy for users with no accounts to register as it is obvious to see the sentence "Don't have an account? Sign up now! All the user has to do is to click on it and they will be directed to the sign up page. The user is then required to enter a username, their email and their password. Failure to fill up fields will result in a pop-up message to notify them to fill in the field.

CHAPTER 3 – TEST CASE

3.1 Invalid Email

Test Case ID	TC-01
Objective	Test if user can sign up with an invalid email
Condition	User has filled up username and password field in sign up page
Test Steps	1. User fills up all fields in the sign-up page 2. User fills in invalid email 3. User clicks on Sign Up button
Input Data	123email.com
Expected Results	The page will display "Please include an "@" in the email address. '123email.com' is missing an '@'"
Actual Results	Matches expected results
Test Results	Pass

3.2 No Input from User

Test Case ID	TC-02
Objective	Test if alert box pops up when there is no input from user
Condition	User must be at the log in page
Test Steps	1. User is on the log in page 2. User does not fill up any fields 3. User clicks on log in
Input Data	
Expected Results	The page will display a alert box "PLEASE FILL OUT ALL SECTIONS"
Actual Results	Matches expected results
Test Results	Pass

3.3 Cart

Test Case ID	TC-03
Objective	Test if users can see their carts when the cart icon is clicked
Condition	Users must be on the home page
Test Steps	1. User is on the home page 2. User clicks on the cart icon
Input Data	-
Expected Results	The page will display user's cart
Actual Results	Matches expected results
Test Results	Pass

References

Flavian, C., Gurrea, R., & Orús, C. (2009). Web design: A key factor for the website success. *Journal of Systems and Information Technology*, *11*(2), 168–184. https://doi.org/10.1108/13287260910955129

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