



UNIVERSITI TUN HUSSEIN ONN MALAYSIA

BIW10203: WEB APPLICATION

**PROJECT TITLE: CAFFEINE & CALORIES BY GASTRO
SCHOLAR ORDER COFFEE SYSTEM**

GROUP 4

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1.0 Company background

The Caffeine and Calories café shop which is known as C&C, also recognized as A Coffee Shop Cafe' Business, founded by Gastro Scholar, established itself as a captivating coffee sanctuary within Ground Floor Lobby, Research Management Centre, Universiti Tun Hussein Onn Malaysia, Parit Raja, Batu Pahat, Malaysia, 86400 since its inception in 2019. Its goal is to improve local coffee experiences through embedding passion, knowledge, and a constant commitment to taste into every cup. C&C's journey reflects Gastro Scholar's commitment to creating outstanding coffee blends and providing a welcoming environment for both enthusiasts and casual customers. Every visit becomes a rewarding experience because of the welcoming atmosphere and the enticing smell of freshly made coffee, which creates an environment where relationships naturally develop and conversations flourish. At C&C, quality is important. This is demonstrated by the careful selection of responsibly sourced beans, the skilful roasting of those beans, and the baristas' work, all of which come together to create a harmonious blend of tastes with each drink.

In addition to serving excellent coffee, C&C is a fully involved part of the wider community. It does this by putting on interesting events and giving to community groups to create a welcoming environment that benefits both the immediate and larger communities. In the future, C&C hopes to become more than just a coffee shop; instead, it wants to become a centre for meaningful conversations, innovation, and cross-cultural interaction. Accepting innovation, C&C aims to create memorable experiences for its passionate customer base, expand its menu selections, and experiment with new coffee blends.

1.1 Selection of Tool and Justifications

A careful selection of tools was arranged in the building of our online coffee shop website to properly meet our project's requirements. With its adaptable design elements, grid system, and CSS classes, Bootstrap leads our front-end development toolkit and makes building mobile-first websites quick and easy. At the same time, the power of JavaScript is unleashed, improving user interactions, managing form validations, and introducing dynamic content to produce an interesting and captivating user interface. Xampp is our preferred option for database administration and local server deployment since it smoothly integrates the Apache Web Server and MySQL Database, guarantees effective data management, and offers a path for server-side scripting if needed. As our main text editor, Notepad++ plays a crucial role. It is a lightweight, capable environment designed especially for HTML, CSS, and JavaScript scripting. Its unique

features, like auto-completion, syntax highlighting, and a wide range of plugins, significantly improve our coding productivity and speed up the development process. By colorizing different script parts, making error discovery easier, and encouraging well-structured code, syntax highlighting contributes to code clarity. Code is intelligently suggested and completed using auto-completion, which minimizes errors and speeds up coding operations. Furthermore, Notepad++'s functionality is further enhanced by the flexibility of plugins, which provide tools for formatting, code validation, and smooth version control integration. This combination of capabilities enables our team to easily navigate the complexities of code, resulting in a smoother and more productive development process. Furthermore, Chrome DevTools or Firefox Developer Edition are valuable resources that act as essential tools that improve our development process. These browser-based tools include several features that are essential for developing and streamlining our virtual coffee shop website. Our team can easily identify and resolve code faults thanks to the built-in debugging features, delivering a seamless and error-free user experience. We can make exact changes and adjustments to our web pages' structure to reach the required layout and functionality thanks to element inspection features.

All these carefully chosen tools—Bootstrap, JavaScript, Xampp, Notepad++, and other browser developer tools like Chrome DevTools or Firefox Developer Edition—combine to create a single and each-encompassing group. This combination works perfectly with the technology we have selected, giving our team the resources and tools, they need to create an online coffee shop website that is both aesthetically pleasing and entertaining. We can modify every element of our website's performance, functionality, and design thanks to the cooperative interaction of these technologies, making sure it meets user expectations and corporate goals.

1.2 Roles and Responsibilities of Each Team Members

Name	Roles and Responsibilities
Puteri Nur Fathimah Binti Radzin	<p>a) Web Developer</p> <p>-Design tracking page for the website by using different kinds of languages such as PHP for backend logic, Hypertext Markup Languages for structuring the content of front-end design, and Cascading Style Sheets to style the elements.</p> <p>b) Content Creator</p> <p>-Finding suitable background color, icon, and text that fit website's theme and searching for related content through a variety kind of sources as guidance to produce content and design on the website.</p> <p>c) Writer</p> <p>- Creating content of the report for Chapter 4 by providing conclusion and future recommendation in Chapter 4 including references.</p>
Nazlia Afniza Binti Jamaluddin	<p>a) Web Developer</p> <p>-Various kinds of languages such as PHP, Hypertext Markup Languages, and Cascading Style Sheets have been used for designing payment pages for the website.</p> <p>b) Writer</p> <p>-Providing comprehensive explanation of the report for functionalities and modules for each page of the website except pages related to admin and user which had been mentioned in Chapter 3 followed by screenshots also including references to ensure the accuracy of</p>

	<p>the sources.</p> <p>c) Content Manager</p> <p>- In Charge of monitoring and assessing the content of the website so it makes certain that the material complies with the goals, target market, and prevailing trends of the website.</p>
Tan Gui Mei	<p>a) Web Developer</p> <p>-Create coffee menu page, frappe menu page, non-coffee menu page with Hypertext Markup Languages and Cascading Style Sheet same goes for the coffee description page, frappe description page, and non-coffee page with JavaScript so that the price of each item can function well, admin and user login form, admin dashboard page also been done for the website.</p> <p>b) Art Director</p> <p>-Finding suitable pictures for each of the products in categories of coffee, non-coffee, and frappe for the website so that the website can have an aesthetic look and match what we have planned for our product.</p> <p>c) Writer</p> <p>-Writing the content for Chapter 1 about the roles and responsibilities of each team. Besides that, drawing the flowchart for each module and functionalities in Chapter 2 of the report. At the same time, creating comprehensive content for Chapter 3 which explains the functionalities and modules of the admin panel with screenshot also including references.</p>
Ooi Xin Ru	a) Web Developer

	<p>-Design user registration form, user profile page for the website by using variety kind of languages such as PHP, Hypertext Markup Language, Cascading Style Sheets, JavaScript.</p> <p>b) Content creator</p> <p>-Finding suitable descriptions of each product on our website so that the customer can have a better picture of the products which are been sold on our website.</p> <p>c)Writer</p> <p>-Creating content for the report for Chapter 1 about the company background, selection of tools and justifications. In addition, drawing flowchart in each functionality and modules of our website in Chapter 2 and with roles of the user. However, explaining functionalities and modules for user login and registration form also user profile with screenshot also including references.</p> <p>d) Process Analysis</p> <p>-Ensure that every process is in the correct logic so that the website can run smoothly with error-free and let the customer easily understand what things can be done on our website.</p>
Khor Hwee Shian	<p>a) Web Developer</p> <p>-Creating the homepage, about pages and contact us pages by using Hypertext Markup Languages and JavaScript. Besides that, redesign the appearance of the coffee menu page, frappe menu page, non-coffee menu page by using Cascading Style Sheet same goes for</p>

	<p>the coffee description page, frappe description page, and non-coffee page.</p> <p>b) Team Leader</p> <p>-Foster effective communication and collaboration among team members by providing regular project updates and dividing the part of the website for each group members. Moreover, providing effective solutions and guidance when a member is facing difficulties on their own part.</p> <p>c) Writer</p> <p>-Responsible for designing the cover, table of contents, label the list of tables and figures, and list of references in the report.</p> <p>d) Coordinator</p> <p>-Arrange all the source code in Google Drive that has been provided and link all the pages in the websites with the databases by using PHP languages so that the website can have the proper functionality when an individual is dealing with it.</p> <p>e) Content creator</p> <p>-Searching for relevant information related to our website themes such as menu, icon, video that suit our website.</p>
Nurul Nadiah Binti Ridzuan	<p>a) Web Developer</p> <p>- Design the shopping cart pages with variety of languages such as Hypertext Markup Languages, Cascading Style Sheet and JavaScript.</p>

	<p>b) Presentation Specialist</p> <p>-Create visually appealing and impactful slides for presentation to ensure it is concise, professional, and effectively communicates the project's key point.</p>
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Table 1 Member Role and Responsibilities

2.0 Flow charts

2.1 Flow Charts of Each Function

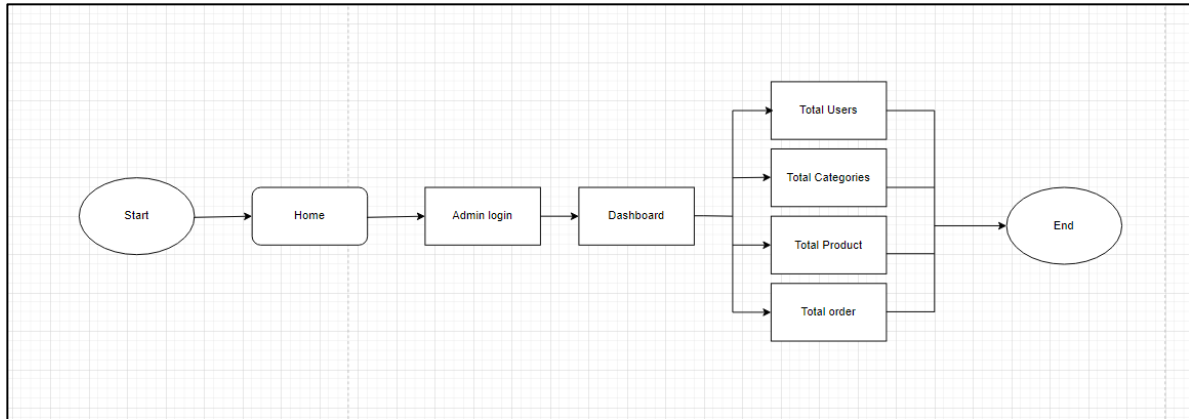


Figure 1 Flow charts of Dashboard in Admin Login

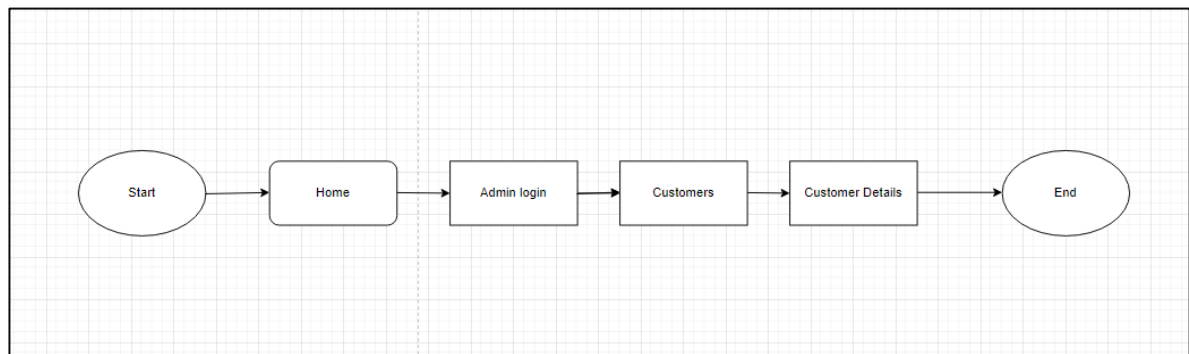


Figure 2 Flow charts of Customers in Admin Login

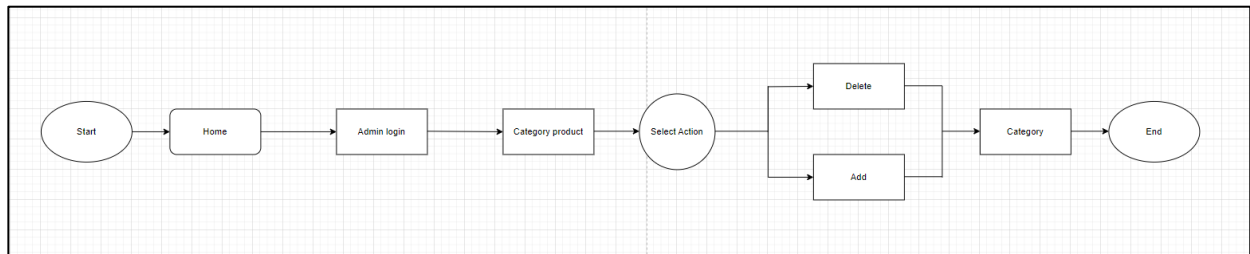


Figure 3 Flow charts of Category Product in Admin Login

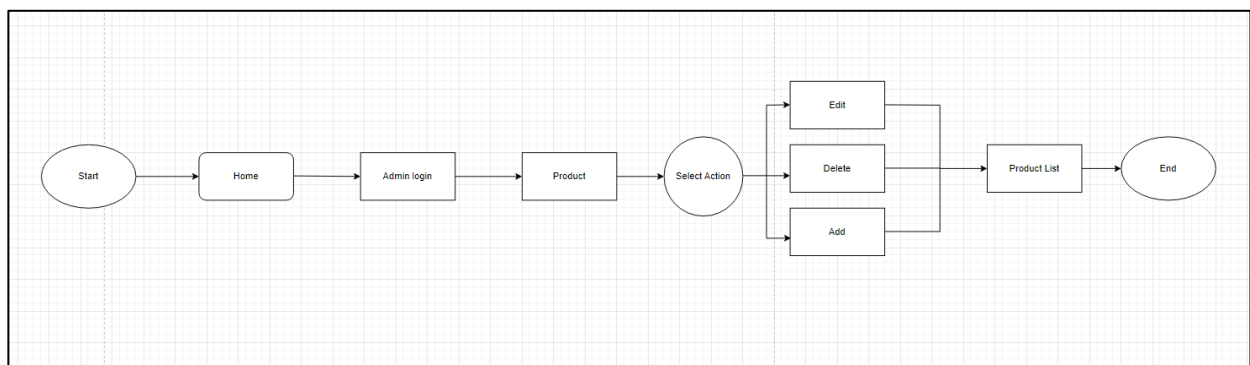


Figure 4 Flow charts of Product in Admin Login

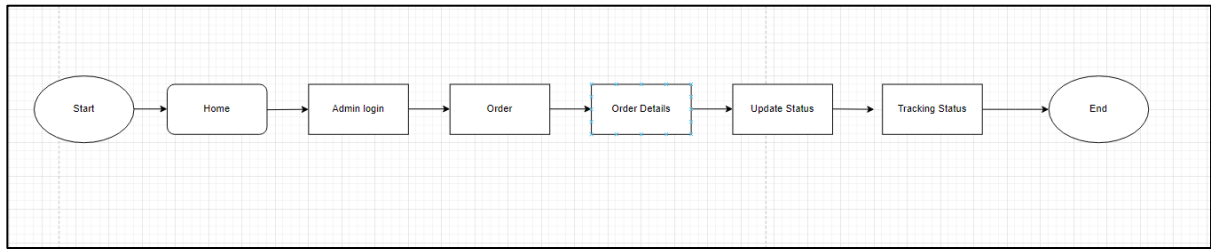


Figure 5 Flow charts of Order in Admin Login

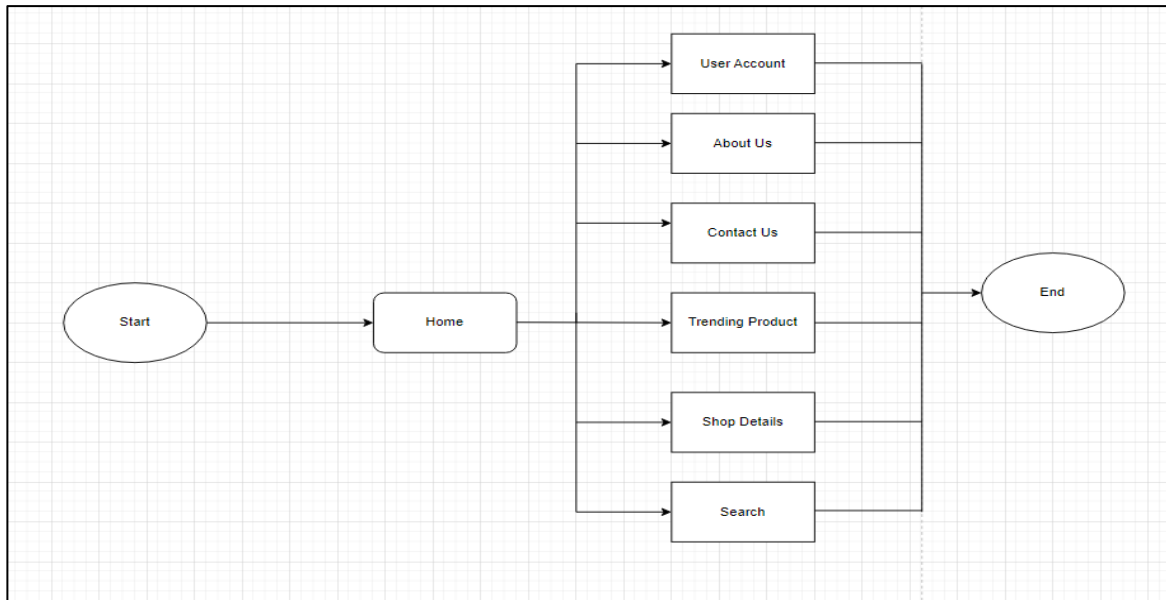


Figure 6 Flow charts of Home

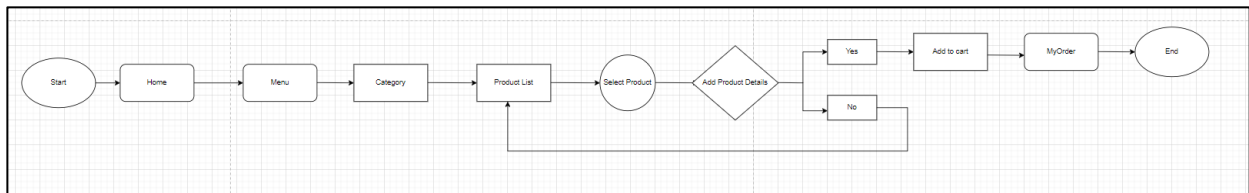


Figure 7 Flow charts of Menu

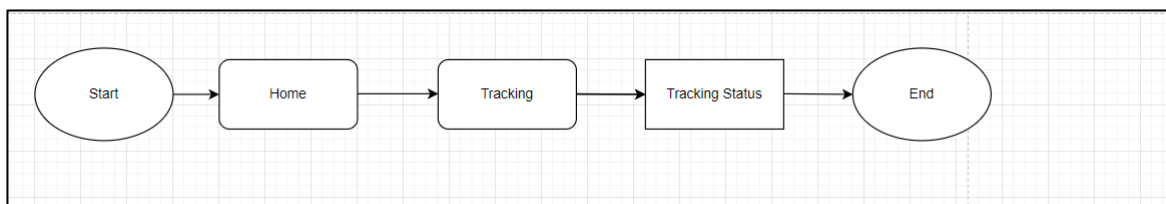


Figure 8 Flow charts of Tracking

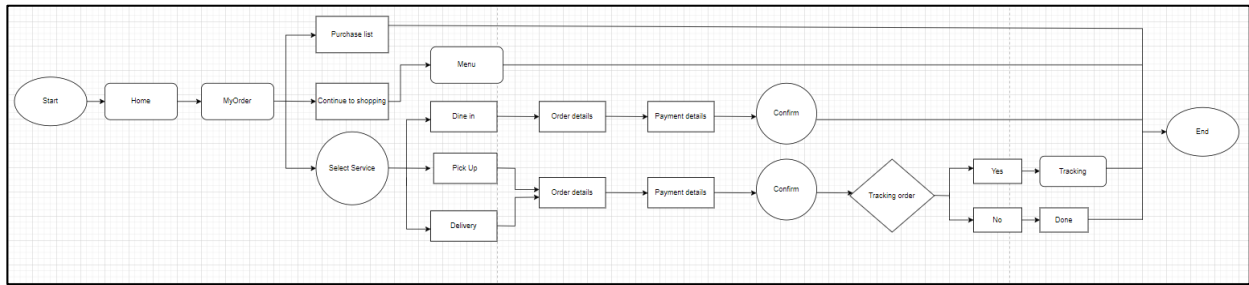


Figure 9 Flow charts of MyOrder

2.2 Roles of User and Admin

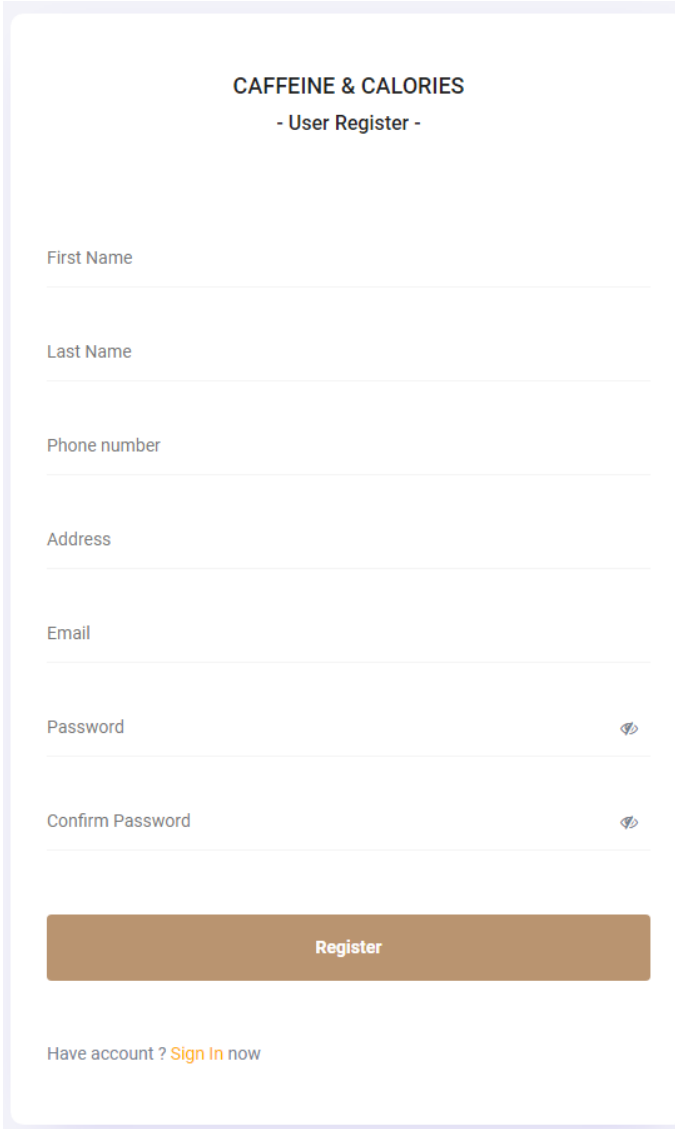
Users experience an effortless process on the café's website, with easy-to-use and convenience-driven features. Users are met with an easily navigable interface as soon as they visit the website, which has all the necessary information about the café's location, services, hours of operation, and more. Users may easily navigate through a variety of menu categories. This browsing experience remains when customers dive deeper into customizing their orders and showing their preferences, be it choosing the drink's kinds and sizes, enhancing with flavor shots, or decorating drinks with optional extras like syrups or whipped cream. After users choose what they want, the simplified method adds these options to their cart with ease, giving them a detailed view of their order, quantity, and total cost. During the checkout process, users are given the option to select delivery or pickup, and they are provided with clear details about the cost of delivery and the projected time of arrival. As the journey continues, users enter the secure payment platform, where they can make payments through credit/debit cards, guaranteeing a safe and secure transaction experience while protecting the privacy of their financial information. Following the transaction, users receive timely order confirmations that include tracking information. Users can track the real-time status of their orders during this post-payment period, regardless of whether they are being prepared, picked up, or delivered. With this extensive order tracking tool, users will feel confident and in charge of the fulfillment process while also ensuring transparency and convenience.

The admin of the coffee shop website has a wide responsibility, with great oversight over a range of functions. Using a customized dashboard, the administrator obtains detailed information, tracking major data that includes the total number of users, categories, products, and orders. Most importantly, following a user's creation of an account on the coffee shop website, the admin can examine that user's information but is not authorized to change any user login information. Additionally, the admin has control over the product catalog and can add, update, or remove product listings to enable smooth management. This also applies to categories, enabling the administrator to have an organized system of products. The admin may update and monitor order

statuses to make sure consumers receive timely delivery updates by having access to detailed order information, including tracking status. At the same time, the customer can be notified whether the payment has been made. This essential function guarantees the performance of the website, the accuracy of the product information.

3.0 Explanation on functionalities

3.1 Explanation on Admin Functions

The image shows a user registration form titled "CAFFEINE & CALORIES - User Register -". The form contains several input fields: "First Name", "Last Name", "Phone number", "Address", "Email", "Password", and "Confirm Password". Each field has a corresponding label and a text input area. The "Password" and "Confirm Password" fields include an eye icon to toggle visibility. Below the input fields is a large brown "Register" button. At the bottom, there is a link that says "Have account ? Sign In now".

CAFFEINE & CALORIES

- User Register -

First Name

Last Name

Phone number

Address

Email

Password

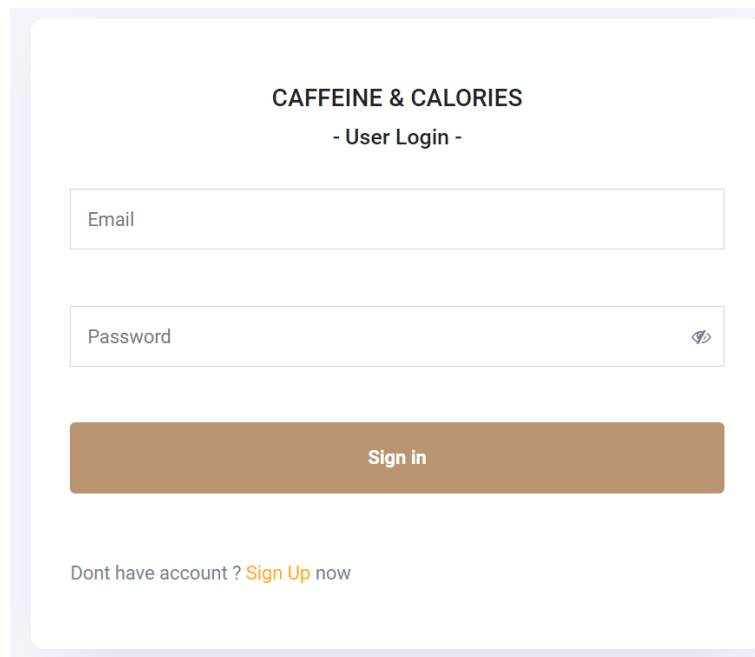
Confirm Password

Register

Have account ? [Sign In now](#)

Figure 10 User Register Page

On the register page, a user must enter their personal information such as name, email, password, address, and phone to create an account. The "Confirm Password" function makes sure users type their password correctly by making them repeat it. To reduce login troubles caused by mismatched passwords, this step improves password accuracy and minimizes errors during account registration.



The image shows a user login page for an application titled "CAFFEINE & CALORIES". The page has a light purple border. At the top, the title "CAFFEINE & CALORIES" is centered in bold, followed by the subtitle "- User Login -". Below this, there are two input fields: "Email" and "Password". The "Password" field has a small eye icon on the right side. Below the input fields is a large, solid brown button labeled "Sign in". At the bottom of the form, there is a link that says "Dont have account ? Sign Up now", where "Sign Up" is in orange and "now" is in grey.

Figure 11 User Login Page

Once the user has registered and successfully created an account, they can log in through the login page. If a user doesn't register first, they cannot log in to their account.

CAFFEINE & CALORIES

- Admin Register -

First Name

Last Name

Select Position

Email

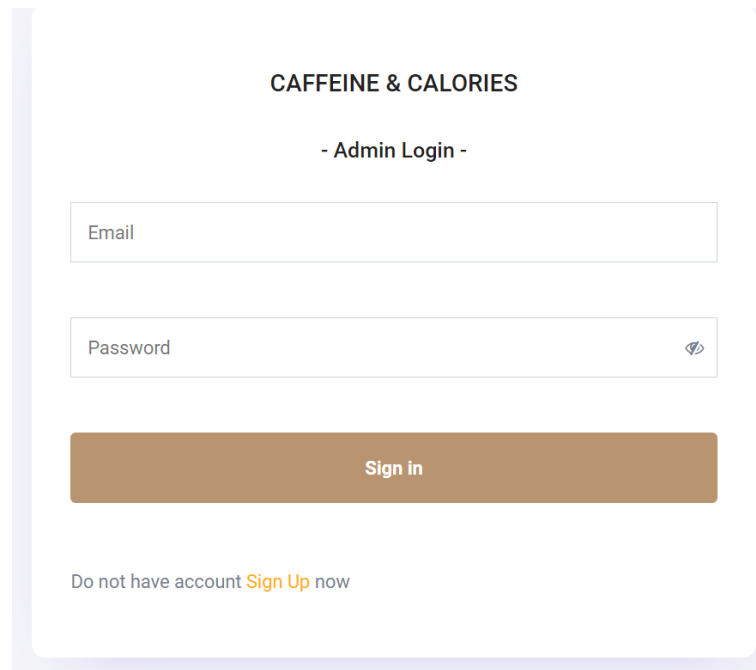
Password

Confirm Password

Register

Have account ? [Sign In](#) now

Figure 12 Admin Register Page



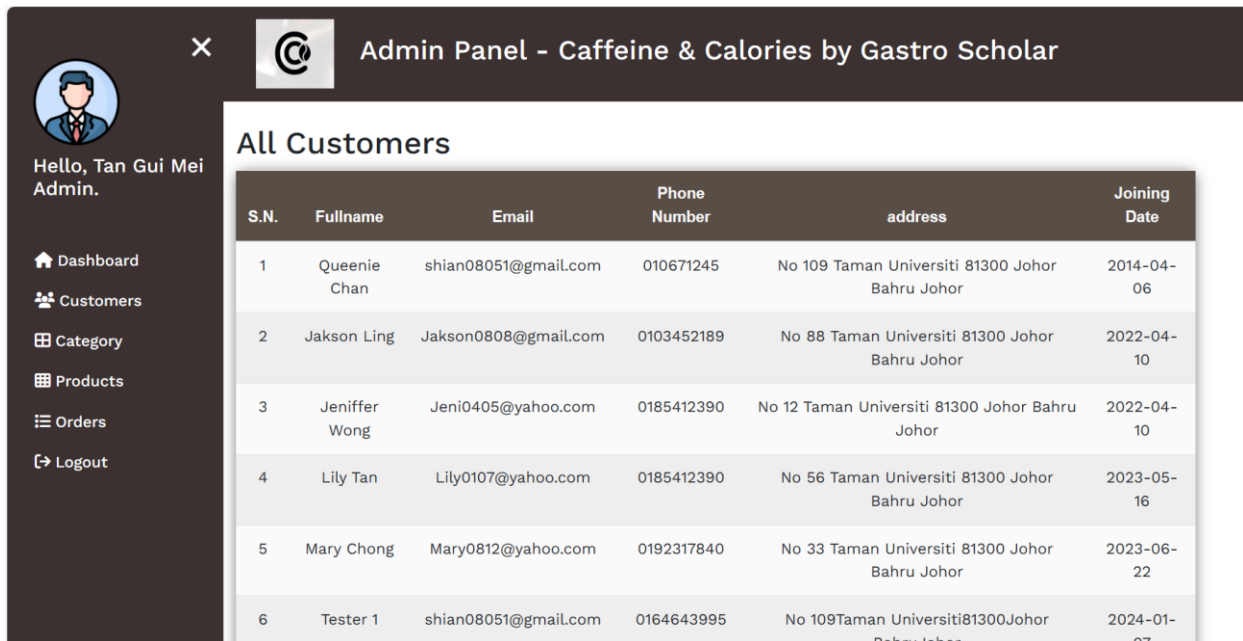
The image shows a web form for admin login. At the top, it says "CAFFEINE & CALORIES" in bold. Below that is "- Admin Login -". There are two input fields: "Email" and "Password". The "Password" field has a toggle icon (an eye) to its right. Below the input fields is a large orange button labeled "Sign in". At the bottom, there is a link that says "Do not have account [Sign Up](#) now".

Figure 13 Admin Login Page



Figure 14 Dashboard Page of Admin

The admin role is critical to the management of the website because it provides access to a dashboard that provides valuable insights into key data. The admin can view important data on this dashboard, such as the overall number of users, categories, items, and orders. When there are any changes in the part of the customer, category, products, and orders, the dashboard will automatically update with the latest information.

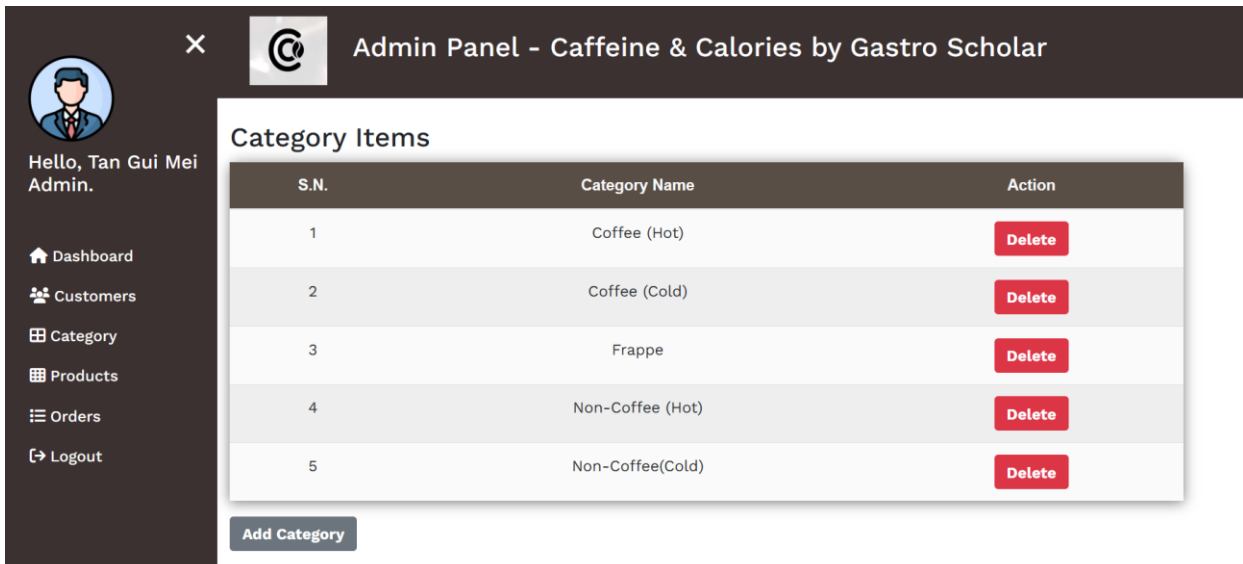


The screenshot shows the 'All Customers' page of the admin panel. On the left is a sidebar with a user profile (Hello, Tan Gui Mei Admin.) and navigation links: Dashboard, Customers, Category, Products, Orders, and Logout. The main content area is titled 'All Customers' and contains a table with 6 columns: S.N., Fullname, Email, Phone Number, address, and Joining Date. The table lists 6 customers with their respective details.

S.N.	Fullname	Email	Phone Number	address	Joining Date
1	Queenie Chan	shian08051@gmail.com	010671245	No 109 Taman Universiti 81300 Johor Bahru Johor	2014-04-06
2	Jakson Ling	Jakson0808@gmail.com	0103452189	No 88 Taman Universiti 81300 Johor Bahru Johor	2022-04-10
3	Jeniffer Wong	Jeni0405@yahoo.com	0185412390	No 12 Taman Universiti 81300 Johor Bahru Johor	2022-04-10
4	Lily Tan	Lily0107@yahoo.com	0185412390	No 56 Taman Universiti 81300 Johor Bahru Johor	2023-05-16
5	Mary Chong	Mary0812@yahoo.com	0192317840	No 33 Taman Universiti 81300 Johor Bahru Johor	2023-06-22
6	Tester 1	shian08051@gmail.com	0164643995	No 109Taman Universiti81300Johor Bahru.Johor	2024-01-07

Figure 15 Customers Page of Admin

The admin can see the full list of people who have registered once users have finished the registration process and created accounts. The information of customers included full name, email, phone number, address and joining date. With this access, user accounts may be managed and overseen effectively, guaranteeing accuracy and enabling quick fixing of any difficulties that may arise.



The screenshot shows the 'Category Items' page of the admin panel. On the left is a sidebar with a user profile (Hello, Tan Gui Mei Admin.) and navigation links: Dashboard, Customers, Category, Products, Orders, and Logout. The main content area is titled 'Category Items' and contains a table with 3 columns: S.N., Category Name, and Action. The table lists 5 categories with their respective details. Below the table is an 'Add Category' button.

S.N.	Category Name	Action
1	Coffee (Hot)	Delete
2	Coffee (Cold)	Delete
3	Frappe	Delete
4	Non-Coffee (Hot)	Delete
5	Non-Coffee(Cold)	Delete

Add Category

Figure 16 Category Page of Admin

The admin leads product categories and can add or remove them as needed. Admin may be guaranteed structured and useful product categorization because of this control, which enables the management and improvement of the product assortment with serial number, category name and

action.

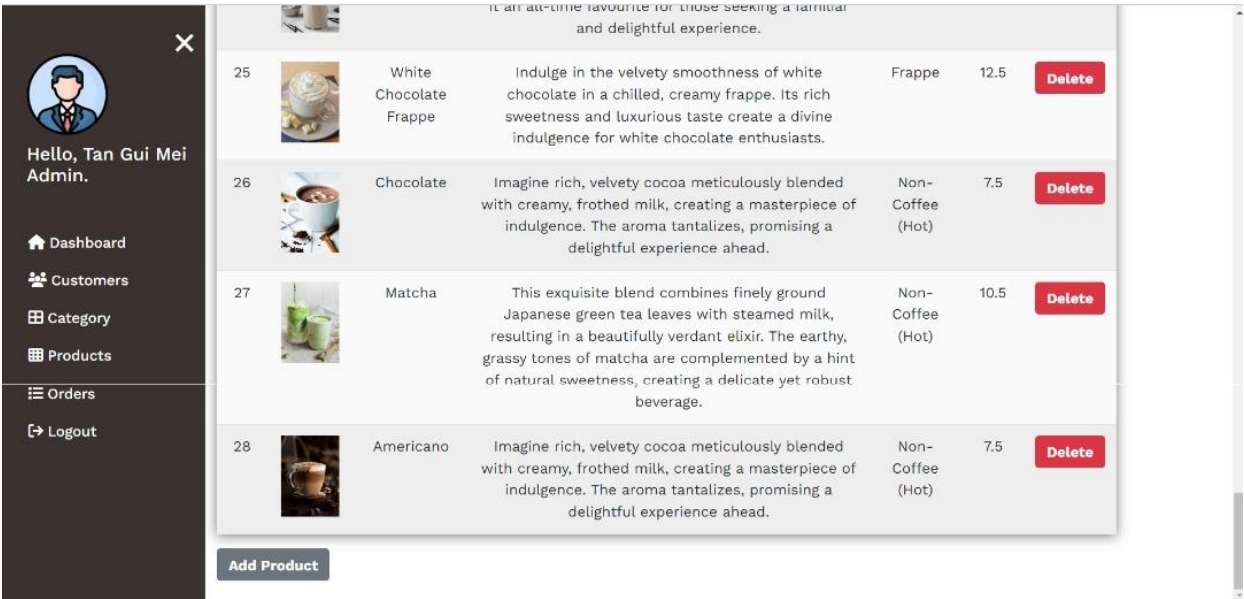


Figure 17 Products Page of Admin

The admin has complete control over product management. The admin can add new products and remove out-of-date ones. It makes sure that product details are correct and up to date, gets rid of outdated stock, and brings in new products. This control system ensures that the product catalog is flexible and user-focused, meeting changing customer demands.

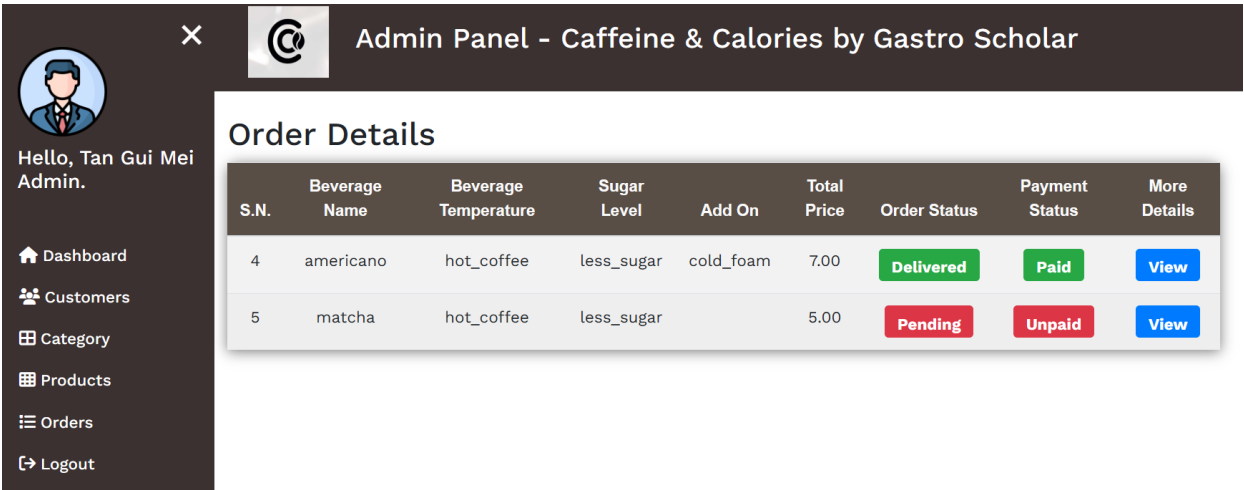


Figure 18 Order Page of Admin

The admin can examine every transaction because they have access to all the information users have put in their orders such as beverage name, beverage temperature, sugar level, add on and total price. Admin can also actively update these orders' tracking status, giving customers real-time access to the status of their deliveries. At the same time, the customer can know the status of

payment which has been informed by the admin. Admin can also view more details on orders which is customer name, phone number, address and email. This feature makes the buying process easier and provides timely, accurate updates, which raises consumer satisfaction levels all around.

3.2 Explanation on Main Interface

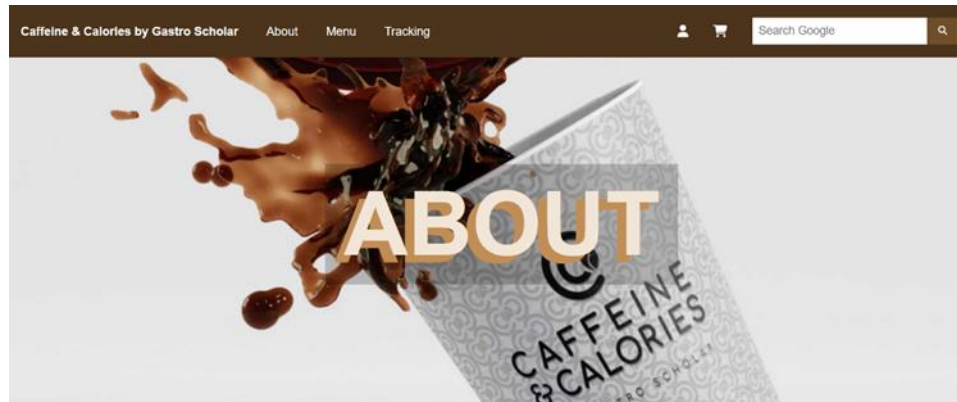


Figure 19 About Us Page Part 1

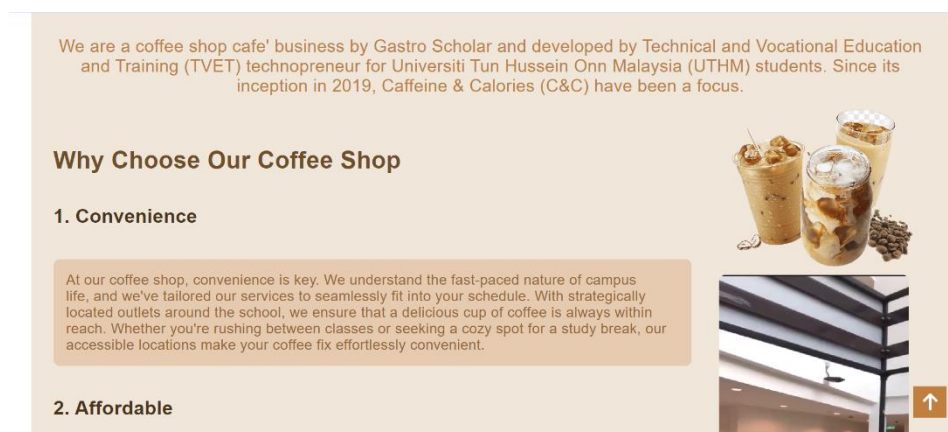


Figure 20 About Us Page Part 2

This web page aims to present and clarify to our valued customers numerous reasons why our coffee shop is the best option for their caffeine fix. Through an extensive demonstration of our distinctive products, first-rate service, and constancy to excellence, we hope to clarify the unique features that distinguish us and emphasize the reasons why customers ought to select us as their go-to location for a delightful and unmatched coffee experience.



Figure 21 Menu List Part 1

By clicking on the menu button, customers can easily place their coffee orders. This will reveal a dropdown menu with a variety of drink categories for them to select from.

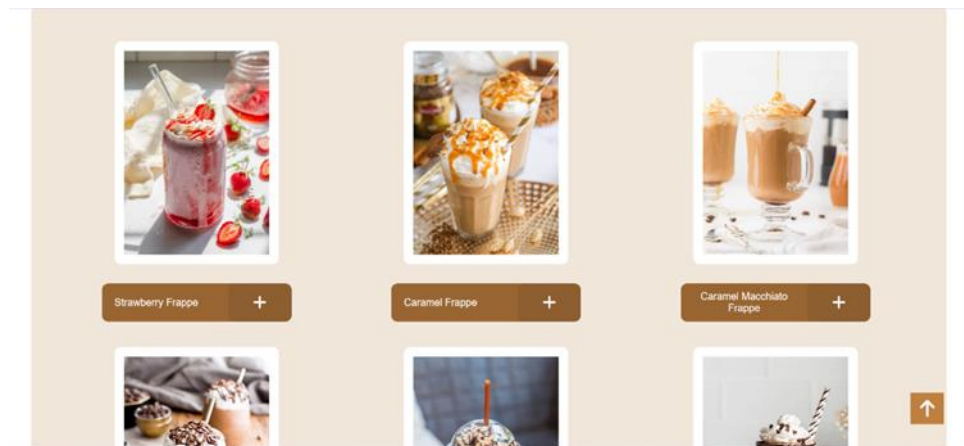


Figure 22 Menu List Part 2

Customers can proceed with their order by clicking the "+" sign.

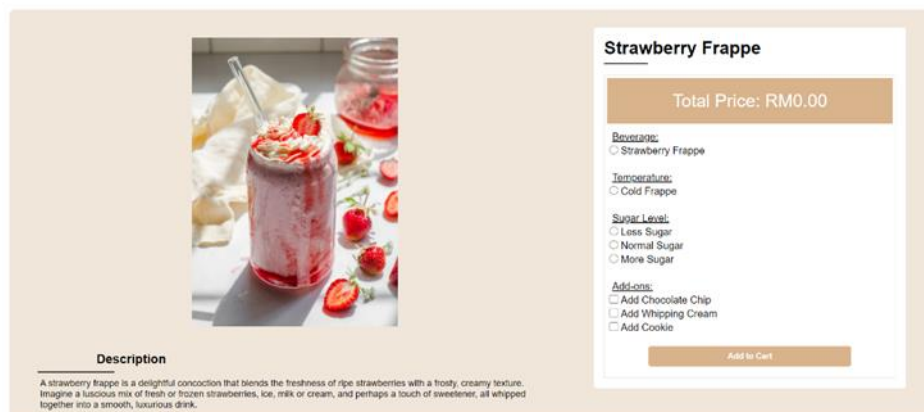


Figure 23 Order Page

Customers can customize their order by ticking selections in each section and clicking the "Add

to Cart" button to finalize their choices and place the order in the cart section.

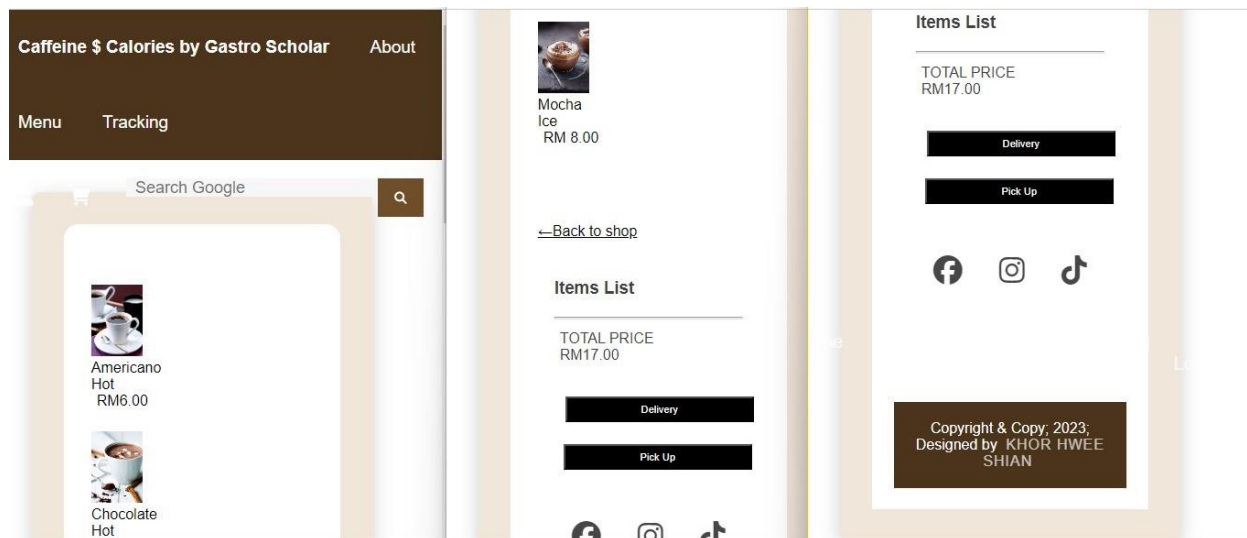


Figure 24 Add to Cart Page

The "Add to Cart" page is where customers land after clicking the shopping cart icon. Here, it displays a clear list of all selected items along with their total price. Customers have the option to continue shopping by adding more items or proceed to checkout. At this stage, they can choose between delivery and pickup options for their order. This page serves as a concise summary of the chosen products, providing a seamless transition for users to review and manage their selections before finalizing their order.

Figure 25 Payment Page

After the customers have chosen whether to pick up or deliver their order, they will go to the payment page. Customers can choose their preferred payment method from various options like debit/credit card, online banking, PayPal, eWallet and cash. The payment details section

dynamically adjusts based on the selected payment method, displaying the relevant fields for input. Upon completing payment details, customers can click the Proceed button, initiating the payment processing integration.

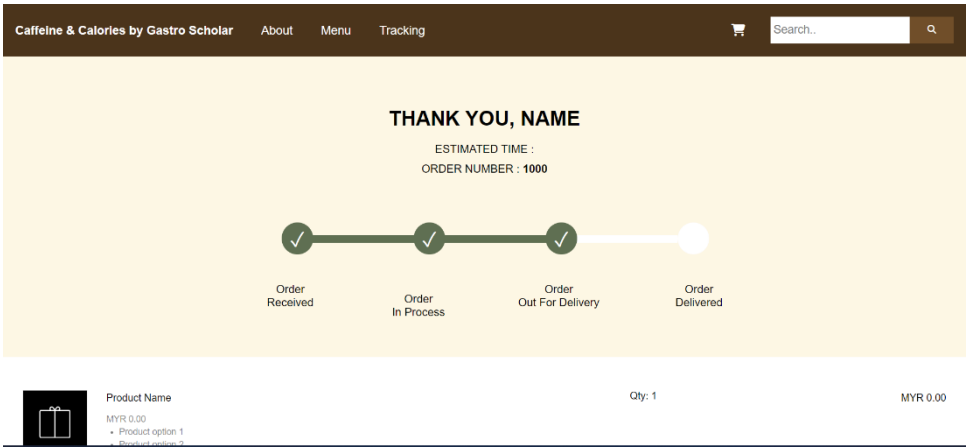


Figure 26 Tracking Delivery Page

Upon completing the payment process, customers can track the progress of their order by visiting the tracking page, where they will find real-time updates on the status and the progress of their purchase. The tracking page will display the customer's order prominently above, accompanied by the corresponding receipt, providing a comprehensive overview of their purchase details.

4.0 Conclusion

4.1 Conclusion

In conclusion, the Caffeine and Calories café, often known as C&C, has established itself as a recognized coffee escape since its inception in 2019. The organization formed by Gastro Scholar and located on the Ground Floor Lobby of the Research Management Centre, Universiti Tun Hussein Onn Malaysia, Parit Raja, Batu Pahat, Malaysia, has been on a continual goal to upgrade local coffee experiences. C&C's main objective is to infuse every cup with passion, expertise, and unwavering devotion to taste, creating an environment that embraces both coffee lovers and casual customers.

The consistent focus on quality is a symbol of C&C's dedication to perfection. This dedication is shown in the careful selection of organic beans, the use of professional roasting procedures, and the knowledge of its committed baristas. As a result, each drink has a symphony of tastes, providing consumers with a holistic and pleasurable experience. C&C constantly participates with the community in addition to its quest for great coffee. The café hopes to become a focus for meaningful talks, innovation, and cross-cultural contact in the future through different events and initiatives.

Looking ahead, C&C is not thrilled with its recent accomplishments. Instead, the café is ready to welcome innovation, with hopes of creating outstanding encounters for its loyal customers. The ambition involves growing menu options, experimenting with new and fascinating coffee blends, and always pushing the limits of what a coffee shop can provide. C&C stands as an honor to the growth of the coffee culture, changing the local coffee landscape with each cautiously prepared cup, with a long history of attention to quality and a future focused on innovation.

4.2 Future Recommendations

Countless strategic paths can support the expansion and long-term prosperity of Caffeine and Calories (C&C) as it deals with its future. These suggestions include a range of topics, including sustainability initiatives, technology developments, and community involvement. Regarding community involvement, C&C can think about organizing frequent events or working with neighborhood groups. The café may establish itself as a lively community center by planning events like coffee tastings, live music evenings, or themed get-togethers. Partnerships with local organizations and entrepreneurs may bring a diverse and lively vibe to the café, drawing in more customers and encouraging a feeling of unity.

Innovation and improvement are possible in technology. Establishing a strong loyalty program may be an effective strategy for building client loyalty. C&C can enhance the whole customer experience by offering exclusive deals, special discounts, or point-based systems that incentivize customers to return. Creating a specialized mobile app may also improve accessibility and consumer engagement by streamlining the purchase process, providing specific recommendations, and offering exclusive rewards.

An enhanced user experience can also be facilitated by interactive elements on the website. C&C may create significant virtual connections with customers by implementing virtual coffee tastings, customer surveys, or a coffee customizing tool. This simulates the friendly and inviting vibe of the actual café while also including a digital element that suits a range of tastes. Within the context of sustainability programs, C&C has the chance to switch to environmentally friendly methods. Global sustainability goals are met by introducing reusable cups, using biodegradable packaging, and buying coffee beans from sources that practice environmental responsibility. These methods not only support environmental preservation but also appeal to the increasing number of customers who are concerned about the environment.

To sum up, these suggestions offer C&C an extensive guide for navigating the changing coffee culture. In addition to maintaining its status as a well-liked coffee shop, C&C may develop into a multipurpose center that benefits the environment and the community by embracing sustainability practices, technology advancements, and community involvement.

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