

BEYOND EDUCATION

TUNKU ABDUL RAHMAN UNIVERSITY COLLEGE

Faculty of Computing and Information Technology

WEB APP WITH SQL DATABASE ON AZURE

RDS3

Group 3

Practical Assignment

BAIT3273 Cloud Computing (202105)

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Grading Rubric for Practical Assignment (Form 2)
Levels of Assessment

Criteria/Marks Allocation	Excellent (9-10)	Good (6-8)	Average (4-5)	Poor 1-3	Comments by Lecturer (if necessary)	Score
1. Able to deploy resource group including server (with security features), database, web app and application plan.						
2. Organized Database design (table and field)						
3. Attractive GUI Design						
4. Well written SQL codes						
5. GUI codes with connection string						
6. Successful Web Hosting						
7. Organized report with adequate content						
8. Proper snippet and log activities on report						
9. Able to analyze, configure, troubleshoot and work independently with minimal guidance						
10. Demonstration Session and Student Effort						
STUDENT NAME		Comments by Lecturer		Score	TOTAL (100%)	
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	2. Ong T'nsam			
	3. Kow Yee Hui			
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	5. Leong Yit Wee			
	6. Lim Ming Jun			

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1 Introduction

In this project, we have been appointed to implement a web application for the SyasyaDesign online shop. The name of the e-commerce Web app is SyasyaDesign and it is a web application that can be utilized by SyasyaDesign's owner, staff and online customers. The owner and staff of SyasyaDesign will use the web application to manage the stock, monitor customers' orders and review customers' cancellation requests. On the other hand, the online customers of SyasyaDesign will use this web application to purchase apparel from the SyasyaDesign online shop. By developing this web application, it is easier for the owner and staff to manage the online shop. Additionally, it is more convenient for the customers to buy the apparel from the SyasyaDesign online shop and less time is required.

2 Web Page URL

[SyasyaDesign – Just a rather intelligent e-commerce site](#)

3 Screenshot of Resources Deployed

The screenshot shows the Microsoft Azure Resource Group Overview page for the group "Assignment2-Group".

Essentials:

- Subscription (change) : Azure for Students
- Subscription ID : 6edd1f95-705a-425e-9281-0a65ef6a070a
- Tags (change) : Click here to add tags
- Deployments : 5 Succeeded
- Location : Southeast Asia

Resources:

Name	Type	Location	Actions
ASP-Assignment2Group-a3a4	App Service plan	Southeast Asia	...
limchiachung	Azure Database for MySQL flexible server	Southeast Asia	...
limchiachung	App Service	Southeast Asia	...

Filtering and Grouping:

- Filter for any field... (Type == all)
- Show hidden types
- No grouping
- List view

Page Navigation:

- < Previous
- Page 1 of 1
- Next >

Figure 1: Resource Group Screenshot

4 Services Used

4.1 App Service

The screenshot shows the Microsoft Azure portal interface for an App Service named 'limchiachung'. The left sidebar contains navigation links for Home, Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Security, Events (preview), Deployment (Quickstart, Deployment credentials, Deployment slots, Deployment Center), and Settings (Configuration, Authentication, Application Insights, Identity, Backups, Custom domains). The main content area displays the 'Essentials' section with details about the resource group (Assignment2-Group), status (Running), location (Southeast Asia), and various connection strings. It also features three cards: 'Diagnose and solve problems', 'Application Insights', and 'App Service Advisor'. Below these are three line charts showing 'Http 5xx' errors, 'Data In', and 'Data Out' metrics over time.

Microsoft Azure

Search resources, services, and docs (G+/-)

limchiachung@...
DEFAULT DIRECTORY

Home > limchiachung

Overview

Docker Hub is changing its quotas for public containers on November 1st which will affect your app's performance. Click to learn more →

Resource group (change) : Assignment2-Group

Status : Running

Location : Southeast Asia

Subscription (change) : Azure for Students

Subscription ID : 6edd1f95-705a-425e-9281-0a65ef6a070a

URL : https://limchiachung.azurewebsites.net

Health Check : Not Configured

App Service Plan : ASP-Assignment2Group-a3a4 (B1: 1)

FTP/Deployment username : No FTP/Deployment user set

FTP Hostname : ftp://waws-prod-sg1-057.ftp.azurewebsites.windows.net/site/wwwroot

FTPS Hostname : https://waws-prod-sg1-057.ftp.azurewebsites.windows.net/site/wwwroot

Tags (change) : Click here to add tags

Diagnose and solve problems

Application Insights

App Service Advisor

Http 5xx

Data In

Data Out

Figure 2: App Service Screenshot

4.2 Azure Database for MySQL

Azure Database for MySQL compatible with the latest community editions which provides maximum control and flexibility for database operations. In our web application, we used Azure Database to store all the transactions, products, customers, order cancellation requests and staff records.

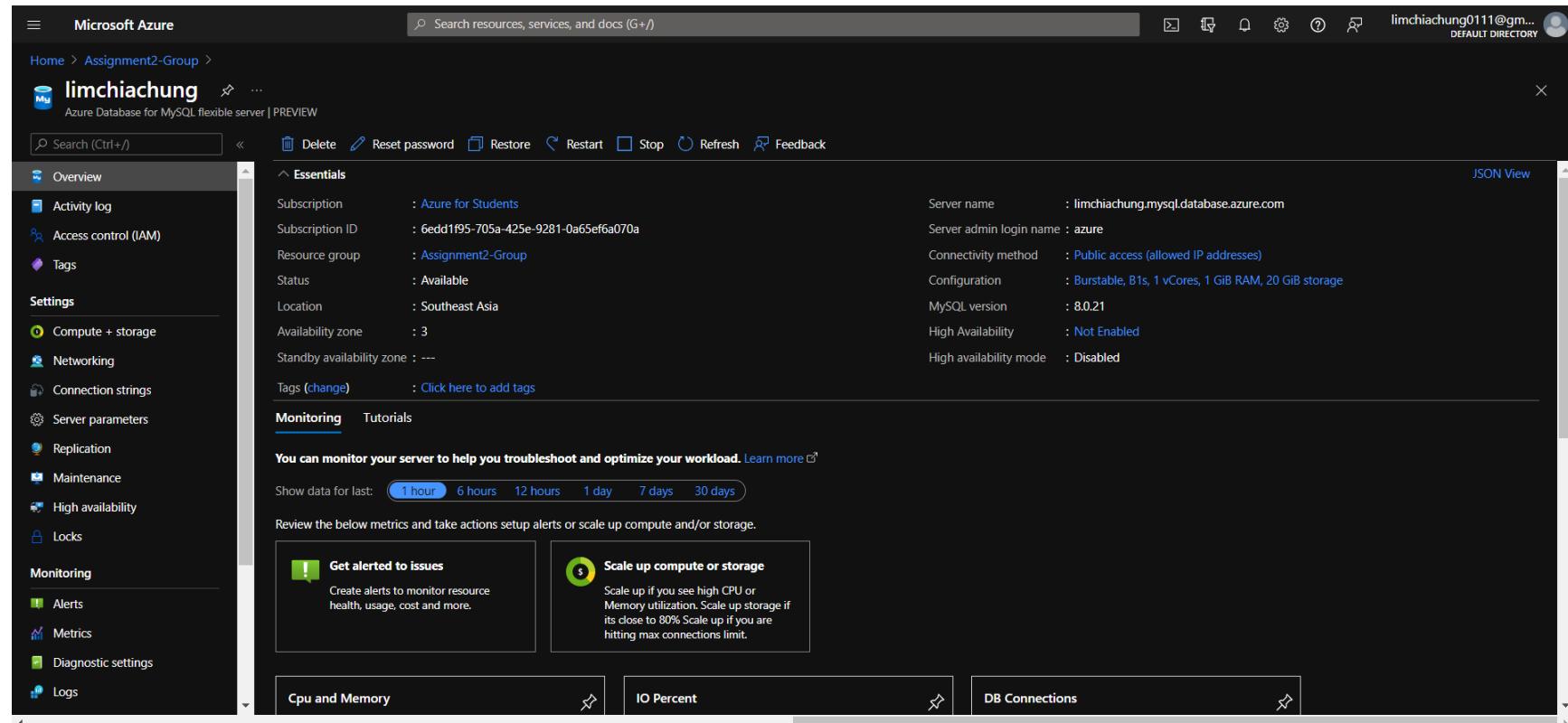


Figure 3: Azure Portal Screenshot

4.3 HeidiSQL

HeidiSQL is an open source software and easy for new users to get started. HeidiSQL allows us to view and edit structures and data from databases by running MySQL query. In our web application, we used HeidiSQL to run the create table and insert statements.

The screenshot shows the HeidiSQL application interface. The left sidebar displays the database structure for 'Azure DB\wordpress\customer'. The 'customer' table is selected, and its details are shown in the main pane. The 'Basic' tab is active, displaying the SQL code for creating the table:

```
CREATE TABLE `customer` (
    `custID` INT(10) NOT NULL AUTO_INCREMENT,
    `custName` VARCHAR(50) NOT NULL COLLATE 'utf8mb4_0900_ai_ci',
    `phoneNo` VARCHAR(50) NOT NULL COLLATE 'utf8mb4_0900_ai_ci',
    `email` VARCHAR(50) NOT NULL COLLATE 'utf8mb4_0900_ai_ci',
    `address` VARCHAR(200) NOT NULL COLLATE 'utf8mb4_0900_ai_ci',
    `custPassword` VARCHAR(50) NOT NULL COLLATE 'utf8mb4_0900_ai_ci',
    PRIMARY KEY (`custID`) USING BTREE
)
```

Below this, the 'Columns' section shows the table structure with columns: custID, custName, phoneNo, email, address, and custPassword. The 'Datatype' column includes 'INT', 'VARCHAR(50)', 'VARCHAR(50)', 'VARCHAR(50)', 'VARCHAR(200)', and 'VARCHAR(50)' respectively. The 'Collation' column for all columns is 'utf8mb4_0900_ai_ci'. The 'Comment' column is empty for all columns except 'custID' which has 'AUTO_INCREMENT'. The 'Default' column is 'No default' for all columns except 'custID' which has 'AUTO_INCREMENT'. The 'Length/Set' column is '10' for 'custID' and '50' for the other five columns. The 'Unsigned' and 'Allow NULL' checkboxes are checked for all columns. The 'Zerofill' checkbox is checked for 'custID'. The 'Expression' column is empty.

At the bottom of the interface, there is a large text area containing a series of MySQL queries, likely generated by HeidiSQL for the current session. These queries include SELECT statements for EVENT_SCHEMA, SHOW INDEXES, and various information_schema queries related to the 'customer' table.

Figure 4: HeidiSQL Screenshot

5 Snippet

5.1 Web Page(s)

5.1.1 Customer's View

5.1.1.1 Home Page

On the ‘Home Page’ page, the customers are able to click the image button to access the ‘Menu Page’ page as illustrated in *Figure 5*. On the ‘Home Page’ as shown in *Figure 6*, the clothing style of SyasyaDesign will also be presented in interesting ways, such as the presentation of an image carousel. The latest and recommended styles will also be displayed to customers in the form of pictures as shown in *Figure 7*.

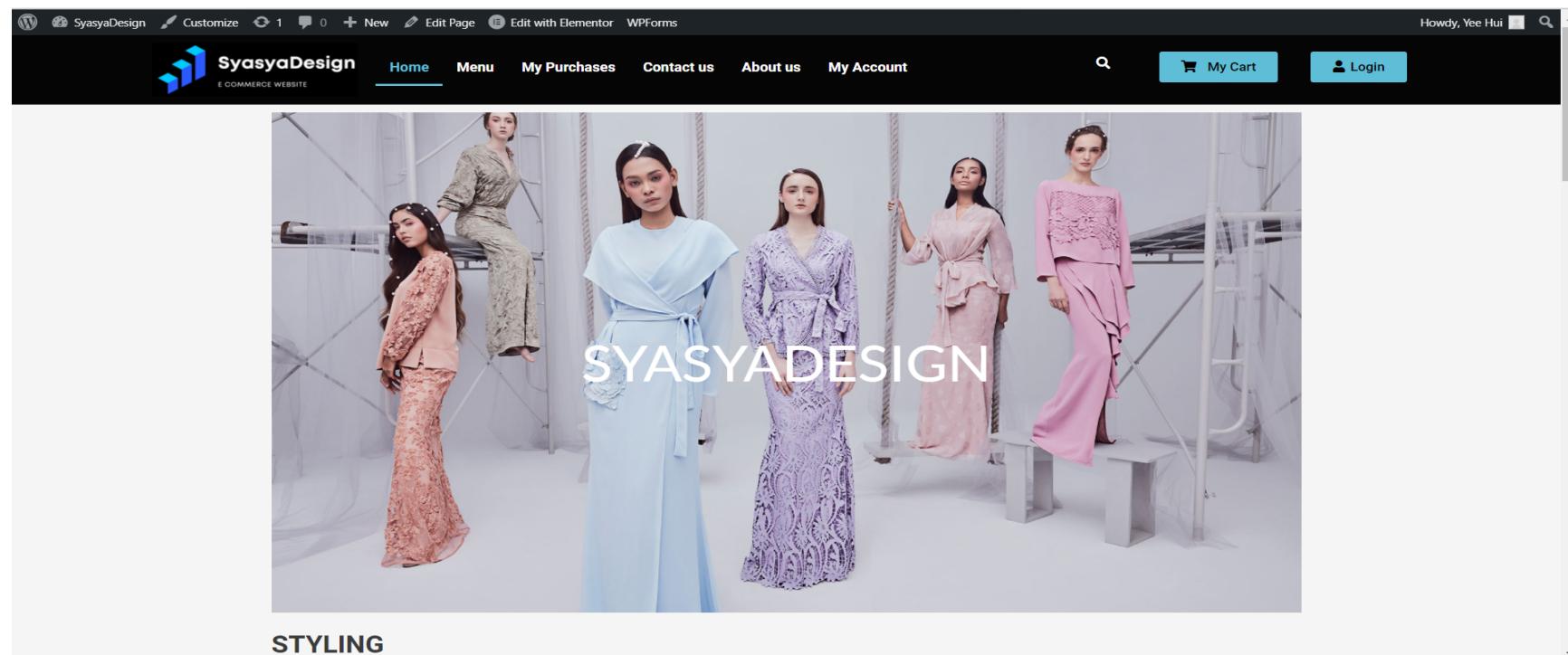


Figure 5: Image button to access the menu page.

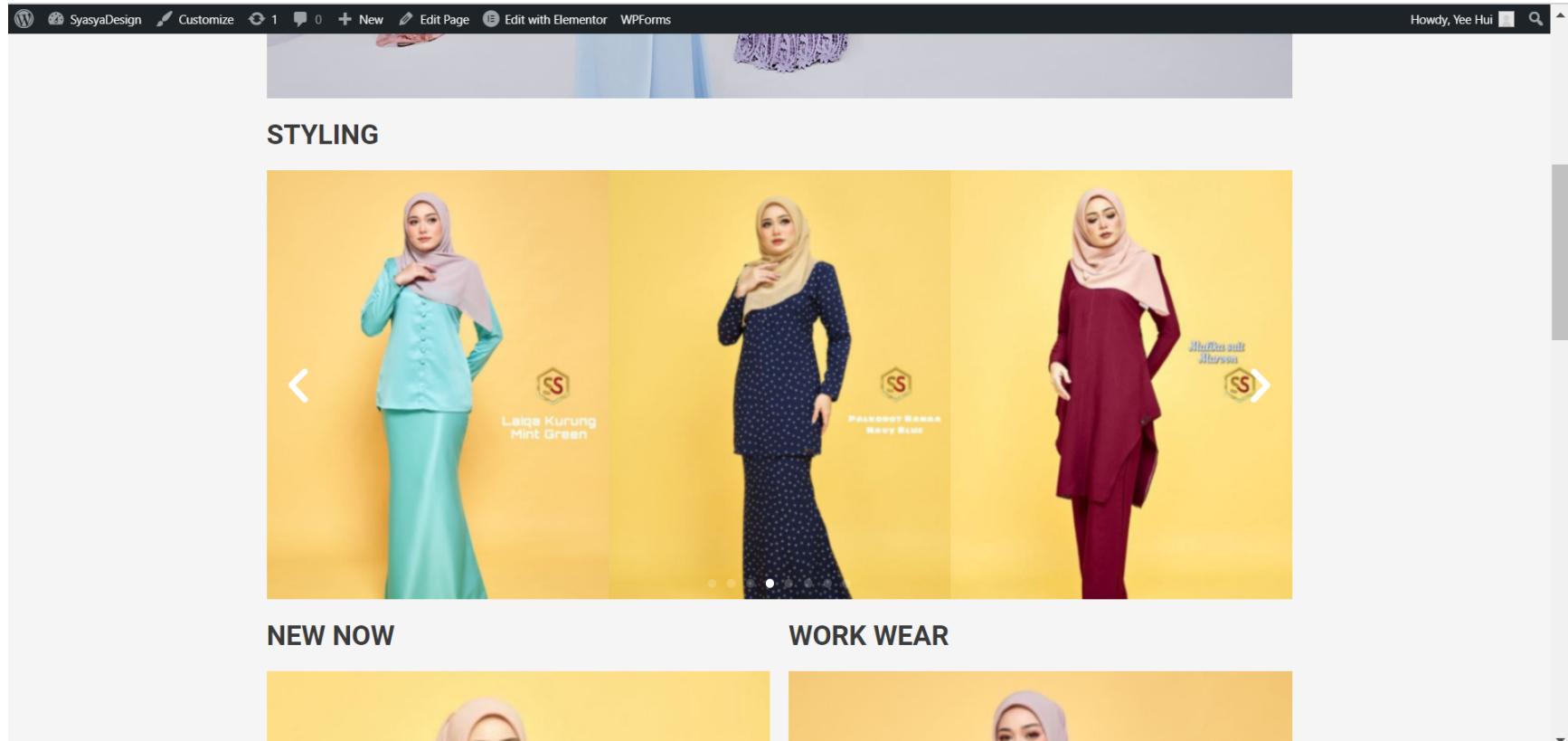


Figure 6: Clothing style of SyasyaDesign in the image carousel.

NEW NOW



A slightly loose and stylish tailored top with comfortable pant is your best choice

WORK WEAR



Long-sleeved black blouse with black long skirt are a classic combination of your

Figure 7: Latest and recommended styles.

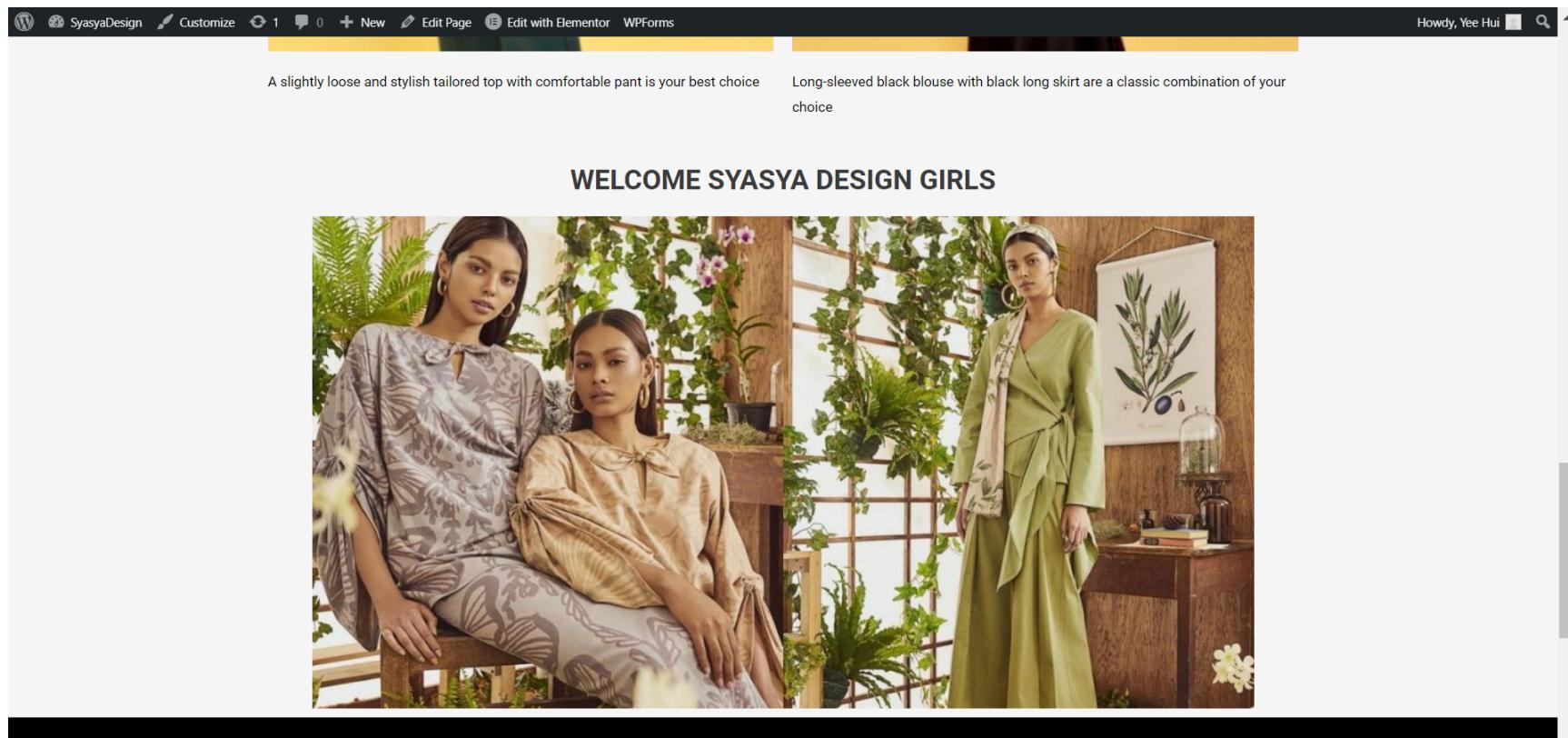


Figure 8: The picture at the bottom of the home page.

5.1.1.2 Register Page

When customers come to the registration page (*Figure 9*), they need to fill up all the required information during registration, namely customername, Phone Number, Email, Address and Password. Otherwise, customers are not allowed to register. As this personal information will be useful when making payment in the future. Once the customer has clicked on the ‘Register’ button, the web application will take the customer to our home page and the web application’s link will display the customer id (*Figure 10*) to indicate that the registration is successful and login to their account. On the other hand, this interface is mainly designed for customer registration, whereby staff is not allowed to register here.

The screenshot shows the SyasyaDesign e-commerce website's registration page. At the top, there is a black header bar with the logo 'SyasyaDesign E COMMERCE WEBSITE' on the left, followed by navigation links: Home, Menu, My Purchases, Contact us, About us, and My Account. To the right of these are a search icon, a 'My Cart' button, and a 'Login' button. The main content area has a white background and features the heading 'Create your SyasyaDesign Account.' Below this, there are five input fields with labels: 'Username' (containing 'Lim Chia Chung'), 'Phone Number' (containing '0129499233'), 'Email' (containing 'limchiachung0611@gmail.com'), 'Address' (containing 'A-18-20 PLANTINIUM LAKE CONDOMINIUM, JALAN DANAU SAUJANA 1'), and 'Password' (containing '*****'). At the bottom of the form is a large black 'Register' button.

Figure 9: Register page

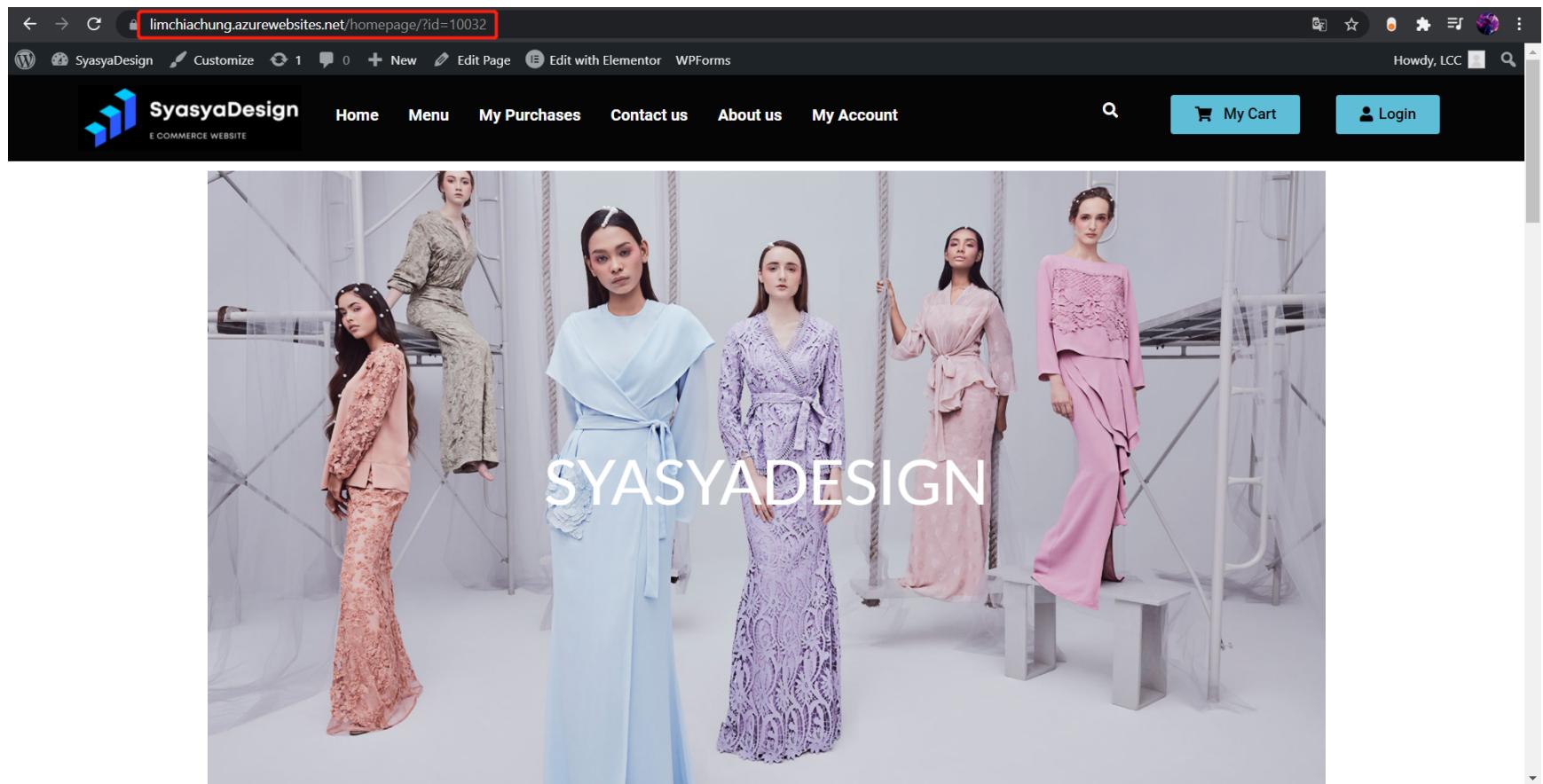


Figure 10: Web application's link with CustomerID

5.1.1.3 Login Page

A welcome message is displayed at the login page. The customer or staff is required to enter their email and password to login. If the customer would like to register an account, they are allowed to click the ‘Register’ button to proceed to registration. Once a customer is logged in, the web application will redirect the customer to the home page and the web application’s link will display the customer id (*Figure 12*) to indicate they are currently logged in.

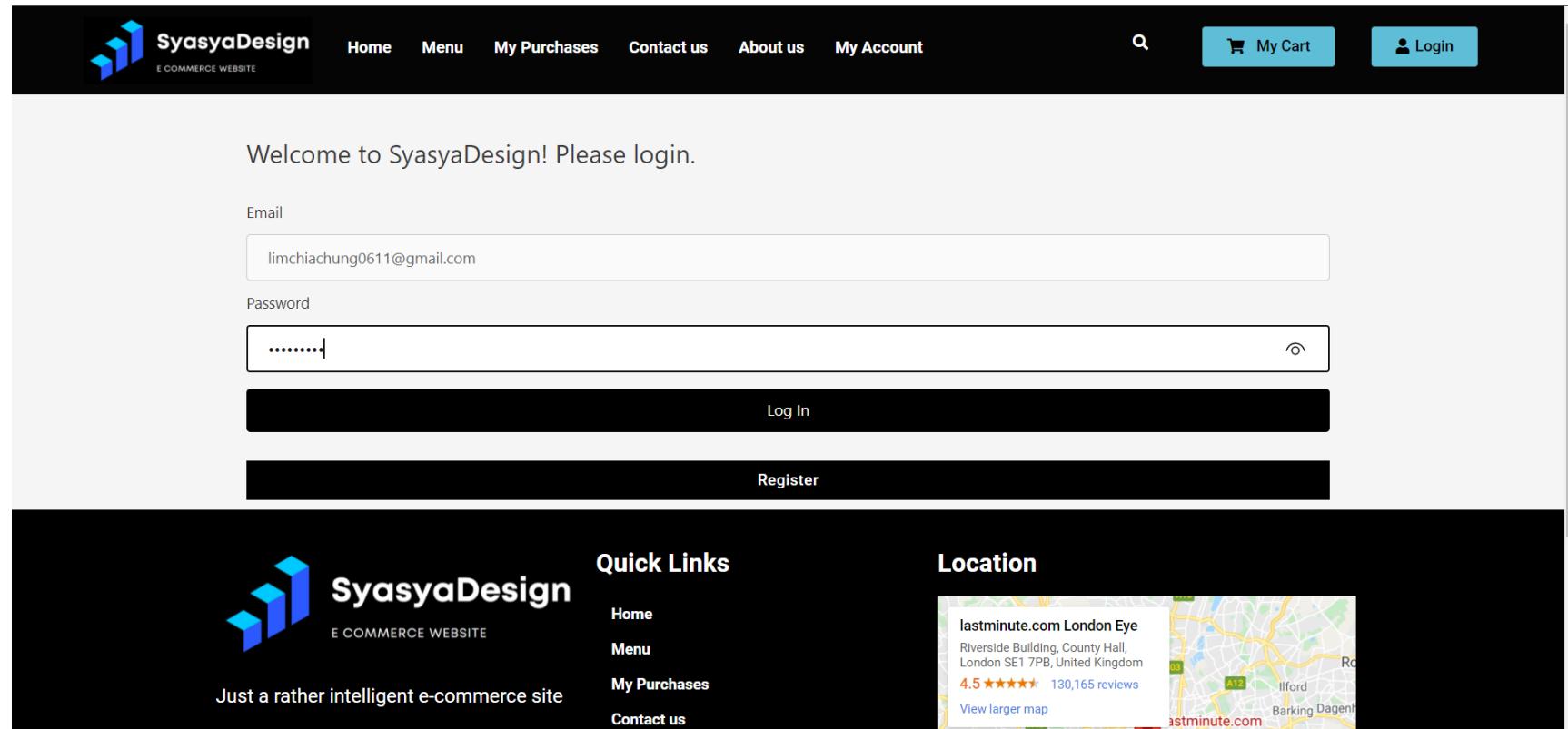


Figure 11: Login page

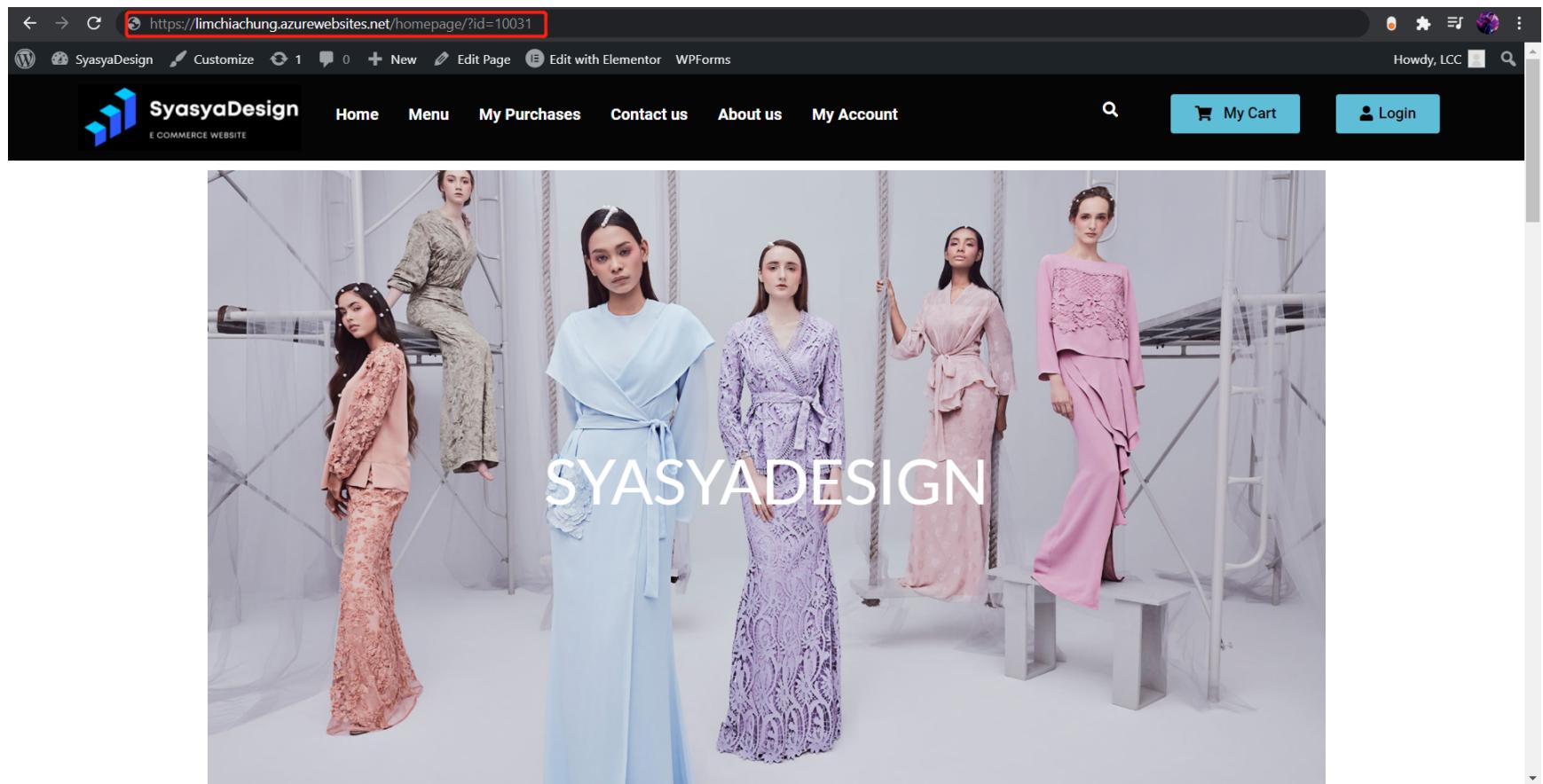


Figure 12: Web application's link with customer id

5.1.1.4 Contact Us Page

There are 4 ways provided in the web application to allow the customers or visitors contact the company or customer service for inquiries.

The screenshot shows the SyasyaDesign website's Contact Us page. At the top, there is a navigation bar with links for Home, Menu, My Purchases, Contact us (which is underlined), About us, and My Account. There are also search, cart, and login buttons. The main content area has a title "Contact us" and four sections: "Live Chat" (with a video camera icon), "Text Us" (with a speech bubble icon), "Call Us" (with a phone receiver icon), and "Email" (with an envelope icon). Each section provides specific contact details. The "Live Chat" section includes operating hours (Mon – Fri: 8AM to 11PM MYT; Sat – Sun: 9AM to 9PM MYT) and a "Chat With Us" button. The "Text Us" section lists the MY Toll FREE number (03 – 2274 1234). The "Call Us" section lists the MY Toll Free number (03 – 2274 1234) and International Customers number (03 – 5973 7188). The "Email" section provides the email address customerservices@syasyadesign.com. The footer features the SyasyaDesign logo, quick links, and location information.

Contact us

Live Chat

Mon – Fri
8AM to 11PM MYT

Sat – Sun
9AM to 9PM MYT

→ Chat With Us

Text Us

MY Toll FREE
03 – 2274 1234

Call Us

MY Toll Free
03 – 2274 1234

International Customers
03 – 5973 7188

Email

Send us an email at
customerservices@syasyadesign.com

mailto:customerservices@syasyadesign.com

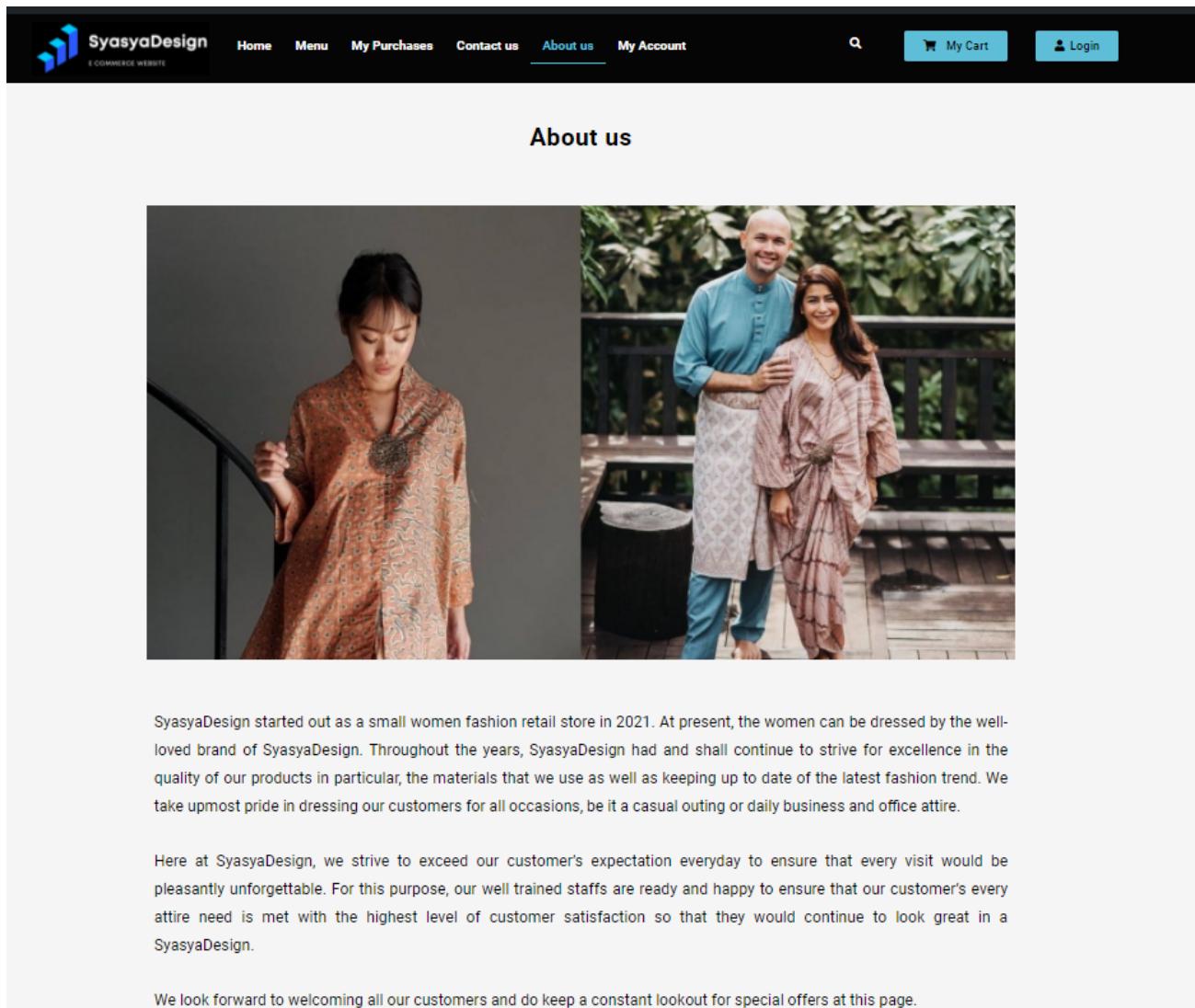
Quick Links

Location

Figure 13: Contact Us page

5.1.1.5 About Us Page

The About Us page displayed a brief description of SyasyaDesign online shop's company background.



The screenshot shows the SyasyaDesign website's navigation bar at the top, featuring links for Home, Menu, My Purchases, Contact us, About us, and My Account, along with a search icon and a My Cart/Login button. Below the navigation is a section titled "About us" with two photographs. The left photo shows a woman in an orange batik-style dress standing by a staircase. The right photo shows a man in a blue kurta and a woman in a pink batik-style dress standing outdoors on a wooden deck. Below the photos is a paragraph of text about the brand's history and mission, followed by a message from the staff.

SyasyaDesign started out as a small women fashion retail store in 2021. At present, the women can be dressed by the well-loved brand of SyasyaDesign. Throughout the years, SyasyaDesign had and shall continue to strive for excellence in the quality of our products in particular, the materials that we use as well as keeping up to date of the latest fashion trend. We take upmost pride in dressing our customers for all occasions, be it a casual outing or daily business and office attire.

Here at SyasyaDesign, we strive to exceed our customer's expectation everyday to ensure that every visit would be pleasantly unforgettable. For this purpose, our well trained staffs are ready and happy to ensure that our customer's every attire need is met with the highest level of customer satisfaction so that they would continue to look great in a SyasyaDesign.

We look forward to welcoming all our customers and do keep a constant lookout for special offers at this page.

Figure 14: About Us page

5.1.1.6 My Account Page

My Account Page includes 4 sidebars which are Profile, Addresses, Change Password, and Logout & Delete page. Each sidebar represents the respective page. In order to view my account content, customers need to login first otherwise this page will not show any information about the customer.

In *Figure 15*, the profile page shows customer (customer ID = 10001) information such as customername, phone number, and email address. In the profile page, the customers are allowed to modify their personal information. page allows customers to modify their personal information.

The screenshot shows the SyasyaDesign e-commerce website's My Account page. At the top, there is a black header bar with the website logo 'SyasyaDesign E COMMERCE WEBSITE' on the left, followed by navigation links: Home, Menu, My Purchases, Contact us, About us, and My Account (which is underlined). To the right of these are a search icon, a 'My Cart' button, and a 'Login' button. The main content area has a light gray background. On the left, there is a vertical sidebar with four options: Profile (selected, shown in a black box), Addresses, Change Password, and Logout & Delete. The main content area is titled 'My Profile' and contains the sub-instruction 'Manage and protect your account.' Below this, there are three input fields: 'Username' (containing 'Yit Wee 123'), 'Phone Number' (containing '012-23456778'), and 'Email' (containing 'milly@gmail.com'). At the bottom of the form is a large black 'Modify' button.

Figure 15: My account page with the profile for the customer

The customer modifies his name from Yit Wee 123 to Leong Yit Wee, once he clicks on the modify button, an alert message will be displayed to notify him that he has modified his personal information successfully.

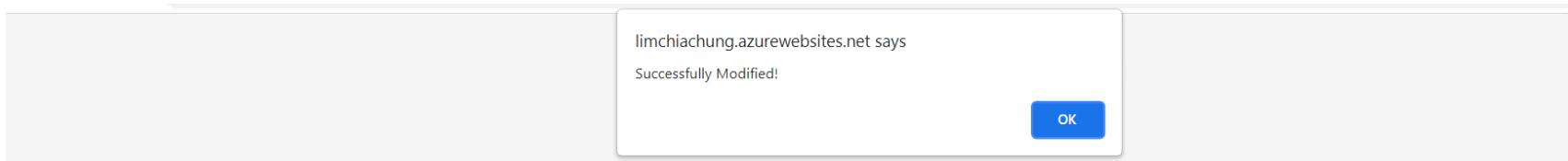


Figure 16: Message Displayed after the customer updates his/her details on the profile page

After the customer modifies his name, his personal information is updated as illustrated in Figure 17.

A screenshot of the SyasyaDesign My Account page. The page title is "My Profile". It shows updated information: Username (Leong Yit Wee), Phone Number (014-12345678), and Email (milly@gmail.com). A "Modify" button is at the bottom. The left sidebar has links for Profile, Addresses, Change Password, and Logout & Delete. The top navigation bar includes Home, Menu, My Purchases, Contact us, About us, and My Account.

Figure 17: My account page with profile after the customer updates his/her details

Based on *Figure 18*, the addresses page shows the package receiving customer (customer ID = 10001) information such as customername, phone number, and address. This page allows the customers to modify the delivery information.

The screenshot shows a dark-themed web application. At the top, there is a navigation bar with the logo 'SyasyaDesign E COMMERCE WEBSITE' on the left, followed by links for 'Home', 'Menu', 'My Purchases', 'Contact us', 'About us', and 'My Account'. To the right of the navigation are a search icon, a 'My Cart' button with a shopping cart icon, and a 'Login' button with a user icon. The main content area has a title 'My Address' and a sidebar on the left with options: 'Profile' (selected), 'Addresses' (highlighted in black), 'Change Password', and 'Logout & Delete'. The 'Addresses' section contains fields for 'Username' (Leong Yit Wee), 'Phone Number' (014-12345678), and 'address' (G-3A Reden sadasf agg asfqgqwgwegwg asf gqwgqwgqwg gqqgwgiuheu uiqhfiuhqiufhq ouhwfowqh o uhquihfioqh oh oiqhwfoi qhw). A large 'Modify' button is at the bottom of this section.

Figure 18: My account page with addresses for the customer.

As illustrated in *Figure 19*, the customer modified his delivery address to G-3A RESIDENSI UNGGUL KEPONG, Jalan Vista Mutiara 1, Kepong Baru, Kuala Lumpur. After the customer clicks the modify button, an alert message will be displayed to notify the customer that he has modified the delivery information successfully and he can click the 'OK' button to refresh the page.

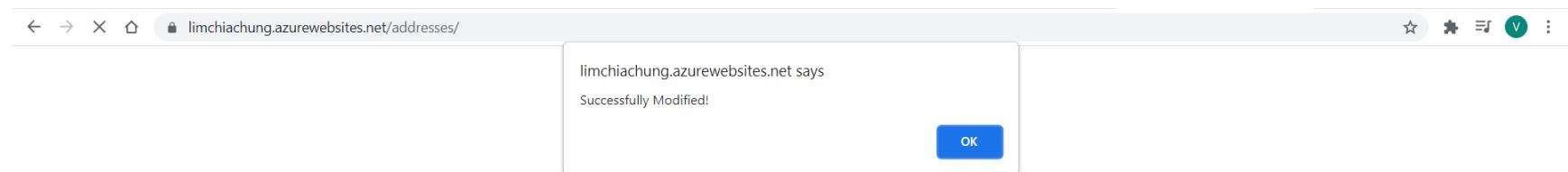


Figure 19: Message Displayed after the customer updates his/her details on the address page

Figure 20 shows the addresses page after the customer modifies his receive name and his receive name is updated.

The screenshot shows the SyasyaDesign e-commerce website's account section. At the top, there is a black header bar with the logo 'SyasyaDesign E COMMERCE WEBSITE', navigation links for 'Home', 'Menu', 'My Purchases', 'Contact us', 'About us', and 'My Account', a search icon, and buttons for 'My Cart' and 'Login'. The main content area has a light gray background. On the left, there is a vertical sidebar with options: 'Profile' (selected), 'Addresses' (highlighted in a black box), 'Change Password', and 'Logout & Delete'. The main title 'My Address' is centered at the top of the content area. Below it, there are input fields for 'Username' (Leong Yit Wee), 'Phone Number' (014-12345678), and 'address' (G-3A RESIDENSI UNGGUL KEPONG, Jalan Vista Mutiara 1, Kepong Baru, Kuala Lumpur). A large black 'Modify' button is located at the bottom of the form.

Figure 20: My account page with addresses after the customer updates his/her details

On this change password page as shown in *Figure 21*, customers (current customer ID = 10001) are allowed to change their password by key in the current password, new password and confirm password. There are a few examples of error messages and success cases as shown below:

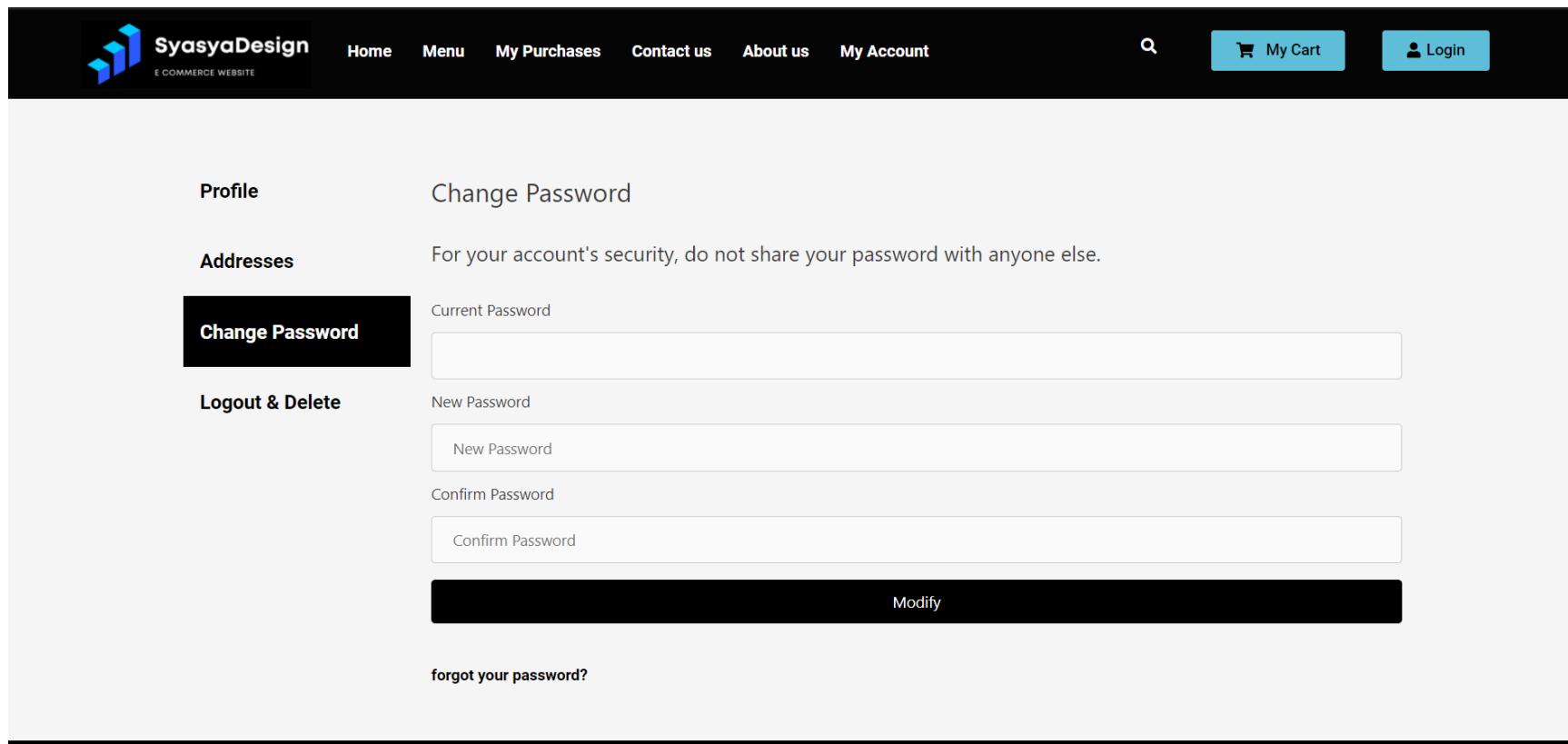


Figure 21: My account page with change password

The screenshot shows a web application interface for changing a password. At the top, there is a navigation bar with links for Home, Menu, My Purchases, Contact us, About us, and My Account. To the right of the navigation are search, cart, and login buttons. The main content area has two sections: 'Profile' and 'Change Password'. The 'Change Password' section contains three input fields: 'Current Password' (containing '123456789'), 'New Password' (containing 'M1Xm6DPB5mGm@'), and 'Confirm Password' (containing 'M1Xm6DPB5mGm@'). Below these fields is a large black 'Modify' button. At the bottom left of the page, there is a link labeled 'forgot your password?'

Figure 22: My account page with change password (wrong current password)

After the customer clicks modify, the web application detects the customer key in the wrong current password and this error message will pop up as shown in *Figure 23*.

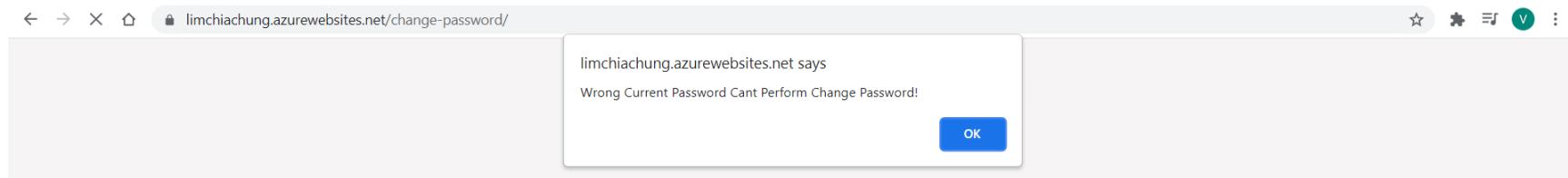


Figure 23: My account page with change password (Error Message wrong current password)

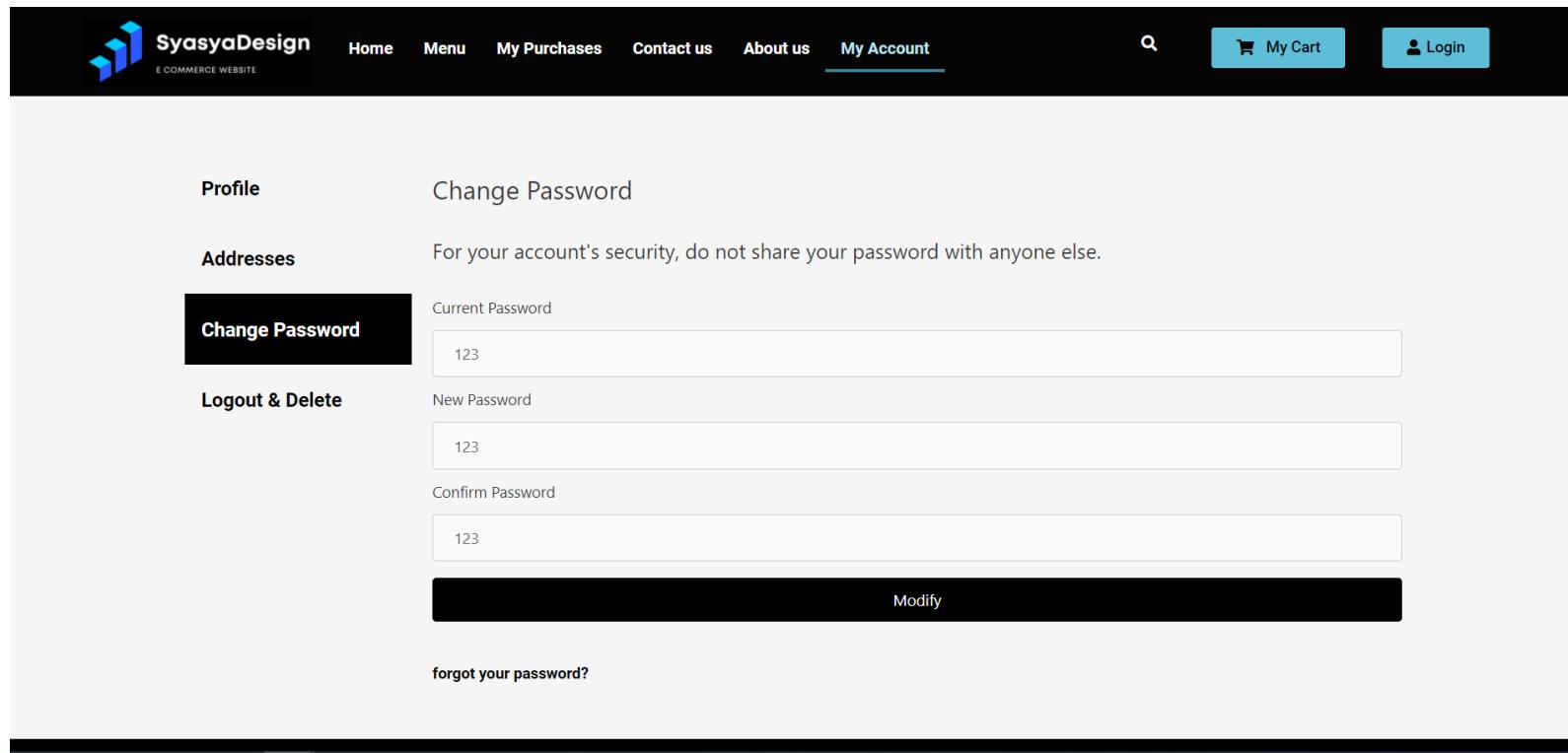


Figure 24: My account page with change password(new & old password is same)

After the customer clicks modify, the web application detects the customer key in the same new & old password and this error message will pop up as shown in Figure 25.

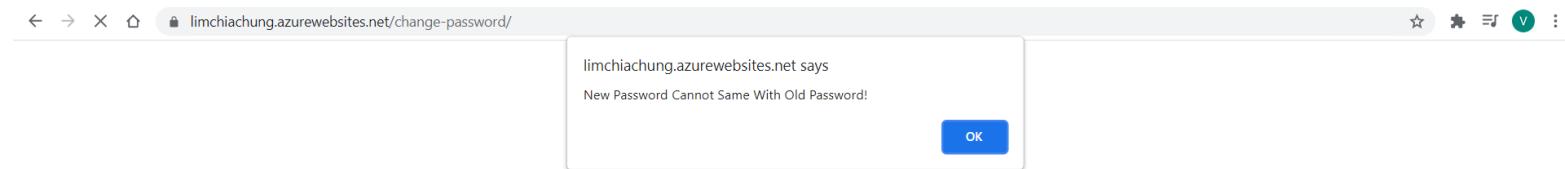


Figure 25: My account page with change password(Error Message new & old password is same)

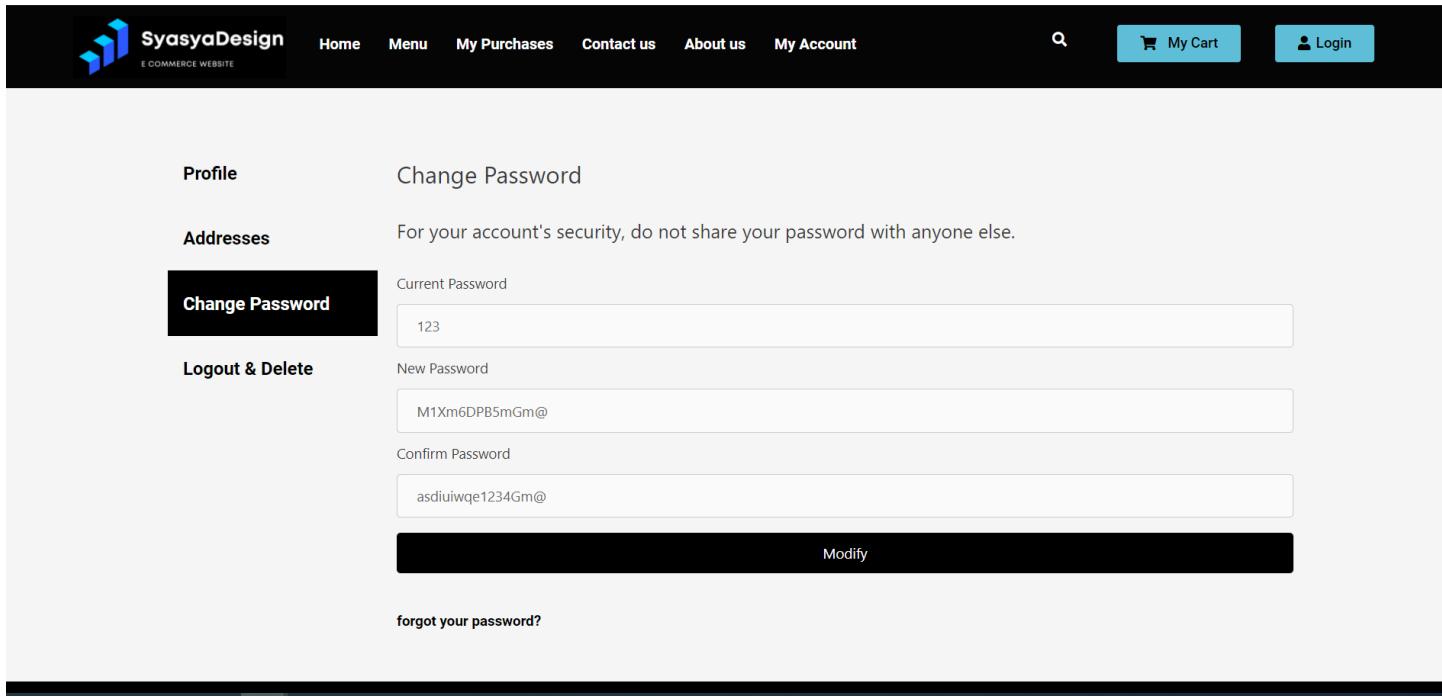


Figure 26: My account page with change password (New & confirm password is not same)

After the customer clicks modify, the web application detects the customer key in not consistent password for new & confirm password and this error message will pop up as shown in Figure 27.



Figure 27: My account page with change password (Error Message new & confirm password is not same)

The screenshot shows the SyasyaDesign e-commerce website's account page. At the top, there is a navigation bar with links for Home, Menu, My Purchases, Contact us, About us, and My Account. To the right of the navigation are search, cart, and login links. The main content area has two columns: 'Profile' on the left and 'Change Password' on the right. Under 'Profile', there are sections for Addresses and Logout & Delete. The 'Logout & Delete' section contains a 'Change Password' button, which is highlighted with a black background and white text. Below this are fields for Current Password (containing '123'), New Password (containing 'M1Xm6DPB5mGm@'), and Confirm Password (containing 'M1Xm6DPB5mGm@'). A large 'Modify' button is at the bottom. A link 'forgot your password?' is located below the 'Forgot Your Password?' button.

Figure 28: My account page with change password (Success example)

The web application will pop up a success message after the customer clicks the modify button if all the details are correct as shown in *Figure 29*.

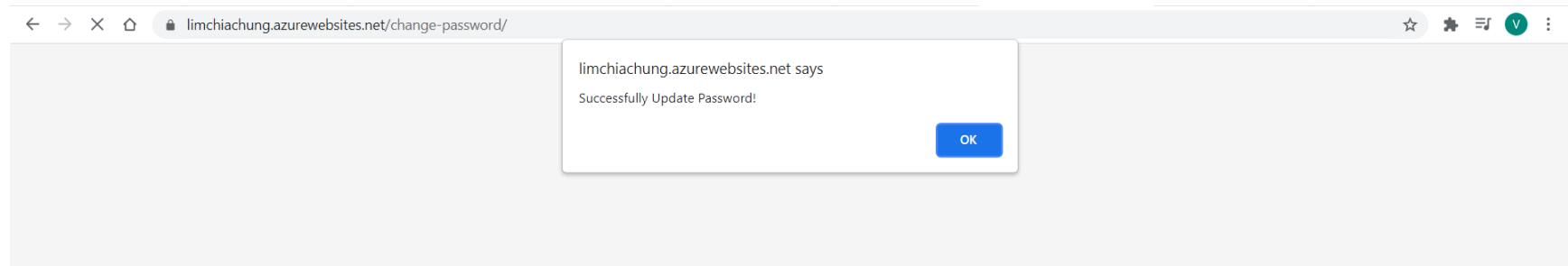


Figure 29: My account page with change password (Success Message)

As shown in *Figure 30*, the logout & delete page allows the customers (current customer ID = 10001) to logout and delete the account by clicking the respective button.

The screenshot shows the SyasyaDesign e-commerce website's account page. At the top, there is a navigation bar with links for Home, Menu, My Purchases, Contact us, About us, and My Account. There is also a search icon and a My Cart button. On the right side of the top bar is a Login button. The main content area has a title "Logout & Delete Page". On the left, there are three buttons: "Profile", "Addresses", and "Change Password". Below these is a large button labeled "Logout & Delete". To the right of the "Logout & Delete" button is a message: "Are You Sure To Logout? If Yes Press Logout Button Again." Below this message is a "Logout" button. Further down, another message says: "Are You Sure To Delete This Account? If Yes Press Delete Account Button! #Reminder This Progress Is Irreversible!!!". Below this message is a "Delete Account" button.

Figure 30: My account page with logout & delete



Figure 31: My account page with logout & delete (Success Message after logout).

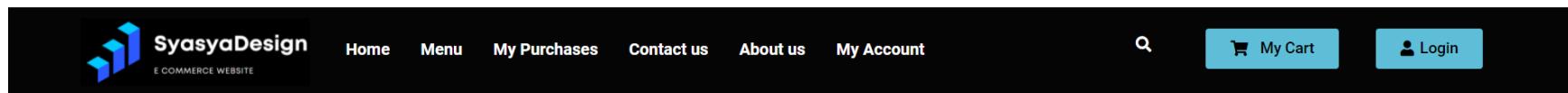
In order to perform the delete account function, we will use customer (customer ID = 10037) to try this function. Based on *Figure 32*, it shows the customer (customer ID = 10037) details in the database. After deleting the customer account we will perform checking in the database to ensure that the customer account with customer ID 10037 is deleted successfully. The steps of deleting the customer account is illustrated from *Figure 33* to *Figure 35*. The updated customer table in the database is shown in *Figure 36*.

custID	custName	phoneNo	email	address	custPassword
10,012	Jerrold	015-6794318	jerrold@gmail.com	E-3A, Green Residence, Jalan Sayang 1, 43200, Chera...	hrrUHOJiG93t
10,013	Theodore	018-6878938	theodore@gmail.com	Lot 1469 Menara Sri Jati, Jalan 30/56, Taman Setiawa...	jUXUcInZG75X
10,014	Thorpe	011-9844343	thorpe@gmail.com	18A-05 Ampang Damai Condominium, Jalan Wawas...	mY9jPmqhEZzh
10,015	Ivette	016-3947772	ivette@gmail.com	PT 3434, Seri Titiwangsa, Lorong Titiwangsa 1, 53200,...	FVhKdQA2uk2Q
10,016	Casar	019-2588895	casar@gmail.com	A-33-14 MH Platinum Residence, Jalan Gombak, 531...	sGbyBKd4Eu6Q
10,017	Sigismundo	018-8424071	sigismundo@gmail.com	Lot 235, Jalan Nora 2, 53100, Taman Melawati, Selan...	iTvzC7UAJ325
10,018	Kat	015-6866156	kat@gmail.com	Lot 111, Jalan Nora 2, 53100, Taman Melawati, Selan...	GhVc4aoKvRG1
10,019	Tersina	016-4465107	tersina@gmail.com	A-20/11 Amara Residensi, Jalan Raintree Utama, 681...	hbRadA6Plxfi
10,020	Brunhilda	019-3485500	brunhilda@gmail.com	A-03/13A Amara Residensi, Jalan Raintree Utama, 68...	RvULPNEmoPv3E
10,021	Patrica	013-3237059	patrica@gmail.com	G-21 RESIDENSI UNGGUL KEPONG, Jalan Vista Mutia...	B2LCOi4jhg8B
10,022	Blythe	015-6497485	blythe@gmail.com	Block E, No.482, Jalan SS 15/6, Ss 15, 47500, Subang J...	AW2qlN6eSL1c
10,023	Matt	019-7515960	matt@gmail.com	PT 440, Jalan Ampang Hilir, Taman U Thant, 55000, A...	CQBUAzN9cqPH
10,024	Selig	012-8954544	selig@gmail.com	A-1801, Jalan PJU 3/27, Sunway Damansara, 47810, P...	B6tQC52VDT6h
10,025	Annora	012-9038830	annora@gmail.com	A-18-4 P103 Condo, Jalan Danau Saujana 1, 53300, S...	VQgsE95y8k7W
10,026	Kirstin	012-7016166	kirstin@gmail.com	B-13/02 Jalan PJU 1a/3, Ara Damansara, 47301, Petali...	WvHCBiT02G8T
10,027	Lanie	011-2765349	lanie@gmail.com	G-18 Wangsa 9 Residency, Jalan Wangsa Perdana 1, ...	Z1xHgUVWIA1Y
10,028	Elladine	015-1933831	elladine@gmail.com	B-11/11 Epic Residence, Jln BP 7/12, Bandar Bukit Pu...	CSowt7wYrIPL
10,029	Dore	011-2295793	dore@gmail.com	A-13A Wangsa 9 Residency, Jalan Wangsa Perdana 1...	pMxh0aKamiPc
10,030	Konrad	014-6707411	konrad@gmail.com	Block A-122 Putra One Residence, Persiaran Bukit Ra...	Ih5A6MshATfN
10,031	admin	0129499233	limchiachung0611@gmail.com	A-18-20 PLANTINIUM LAKE CONDOMINIUM, JALA...	1234
10,032	Aaa	关	关	回	q
10,033	milly@gmail.com	12123	213123	123	ay105hv4ylb6
10,034	Ong T'nsam	012-3456789	ongt-wm18@student.tarc.edu.my	vveer	rgegergergergergergergec32323
10,035	milly	1233124	milly@gmail.com	abcd	ay105hv4ylb6
10,036	2008876	012-23456778	leongyw-wm18@student.tarc.edu.my	abcd	123
10,037	abc123@gmail.com	011-99999999	abc123@gmail.com	123,abc	123abc
10,039	A	Q	Q	Q	q

Figure 32: My account page with logout & delete (Heidisql shown current customer account)

The screenshot shows the SyasyaDesign e-commerce website's My Account page. At the top, there is a navigation bar with links for Home, Menu, My Purchases, Contact us, About us, and My Account. The My Account link is underlined, indicating it is the active page. To the right of the navigation are search, cart, and login links. The main content area has a sidebar on the left with options for Profile, Addresses, Change Password, and Logout & Delete. The Profile section is currently selected and displays the heading "My Profile" and the sub-instruction "Manage and protect your account." Below this, there are three input fields: "Username" containing "abc123@gmail.com", "Phone Number" containing "011-99999999", and "Email" containing "abc123@gmail.com". A large black "Modify" button is centered below these fields.

Figure 33: My account page with profile (Login customer account with customerID 10037)



Logout & Delete Page

Profile

Addresses Are You Sure To Logout? If Yes Press Logout Button Again.

Change Password

Logout & Delete

Are You Sure To Delete This Account? If Yes Press Delete Account Button! #Reminder This Progress Is Irreversible!!!

Logout

Delete Account

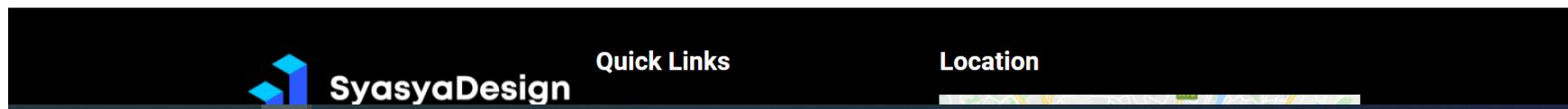


Figure 34: My account page with logout & delete (Click on the 'Delete Account' button)



Figure 35: My account page with change password (Success Message after delete account)

custID	custName	phoneNo	email	address	custPassword
10,011	Heywood	011-2714249	heywood@gmail.com	D-33-01 One Jelatek Condo, Jalan Jelatek, 54200, Jela...	q33GUkluiZtl
10,012	Jerold	015-6794318	jerold@gmail.com	E-3A, Green Residence, Jalan Sayang 1, 43200, Chera...	hrrUHOJiG93t
10,013	Theodore	018-6878938	theodore@gmail.com	Lot 1469 Menara Sri Jati, Jalan 30/56, Taman Setiawa...	jUXUclnZG75X
10,014	Thorpe	011-9844343	thorpe@gmail.com	18A-05 Ampang Damai Condominium, Jalan Wawas...	mY9jPmghEZzh
10,015	Ivette	016-3947772	ivette@gmail.com	PT 3434, Seri Titiwangsa, Lorong Titiwangsa 1, 53200,...	FVhKdQA2uk2Q
10,016	Casar	019-2588895	casar@gmail.com	A-33-14 MH Platinum Residence, Jalan Gombak, 531...	sGbyBKd4Eu6Q
10,017	Sigismundo	018-8424071	sigismundo@gmail.com	Lot 235, Jalan Nora 2, 53100, Taman Melawati, Selan...	iTvzC7UAJ325
10,018	Kat	015-6866156	kat@gmail.com	Lot 111, Jalan Nora 2, 53100, Taman Melawati, Selan...	GhVc4aoKvRG1
10,019	Tersina	016-4465107	tersina@gmail.com	A-20/11 Amara Residensi, Jalan Raintree Utama, 681...	hbRadA6Plxfi
10,020	Brunhilda	019-3485500	brunhilda@gmail.com	A-03/13A Amara Residensi, Jalan Raintree Utama, 68...	RvULPNEoPv3E
10,021	Patrica	013-3237059	patrica@gmail.com	G-21 RESIDENSI UNGGUL KEPONG, Jalan Vista Mutia...	B2LCOi4jhg8B
10,022	Blythe	015-6497485	blythe@gmail.com	Block E, No.482, Jalan SS 15/6, Ss 15, 47500, Subang J...	AW2qIN6eSL1c
10,023	Matt	019-7515960	matt@gmail.com	PT 440, Jalan Ampang Hilir, Taman U Thant, 55000, A...	CQBUAxN9cqPH
10,024	Selig	012-8954544	selig@gmail.com	A-1801, Jalan PJU 3/27, Sunway Damansara, 47810, P...	B6tQCS2VT6h
10,025	Annora	012-9038830	annora@gmail.com	A-18-4 P103 Condo, Jalan Danau Saujana 1, 53300, S...	VQgsE95y8k7W
10,026	Kirstin	012-7016166	kirstin@gmail.com	B-13/02 Jalan PJU 1a/3, Ara Damansara, 47301, Petali...	WvHCBiT02G8T
10,027	Lanie	011-2765349	lanie@gmail.com	G-18 Wangsa 9 Residency, Jalan Wangsa Perdana 1, ...	Z1xHgUVVIA1Y
10,028	Elladine	015-1933831	elladine@gmail.com	B-11/11 Epic Residence, Jln BP 7/12, Bandar Bukit Pu...	CSowt7wYrlPL
10,029	Dore	011-2295793	dore@gmail.com	A-13A Wangsa 9 Residency, Jalan Wangsa Perdana 1...	pMxh0aKamiPc
10,030	Konrad	014-6707411	konrad@gmail.com	Block A-122 Putra One Residence, Persiaran Bukit Ra...	Ih5A6MshATfN
10,031	admin	0129499233	limchiachung0611@gmail.com	A-18-20 PLANTINIUM LAKE CONDOMINIUM, JALA...	1234
10,032	Aaa	关	关	呵呵	q
10,033	milly@gmail.com	12123	213123	123	ay105hv4ylb6
10,034	Ong T'nsam	012-3456789	ongt-wm18@student.tarc.edu.my	vveer	rgegergergergergergergec32323
10,035	milly	1233124	milly@gmail.com	abcd	ay105hv4ylb6
10,036	2008876	012-23456778	leongyw-wm18@student.tarc.edu.my	abcd	123
10,039	A	Q	Q	Q	q

Figure 36: My account page with change password (Customer Account is deleted)

5.1.1.7 Menu Page

On the ‘Menu’ page, customers are able to view all the products that are sold by SyasyaDesign. Within this page, each product is aligned and displayed neatly. Each product card represents a product that is sold by SyasyaDesign where each product card will contain a certain product image, product name, product price and an ‘Add To Cart’ button that allows customers to add the particular product to their cart when they click on that button. This is helpful and convenient for the customer to immediately add the product to his/her cart when they see the product they want to buy where the customer no need to navigate or click into the product page first then only can add the item to the cart. The web application will print a message of successfully adding the product selected by the customer on the screen after the customer clicks on the ‘Add To Cart’ button as shown in *Figure 38* and then it will automatically return back to the menu page. Besides, when the customer clicks on the product image of any

product card on this menu page, the web application will also bring the customer to the particular product page as well and details will be explained in the next section.

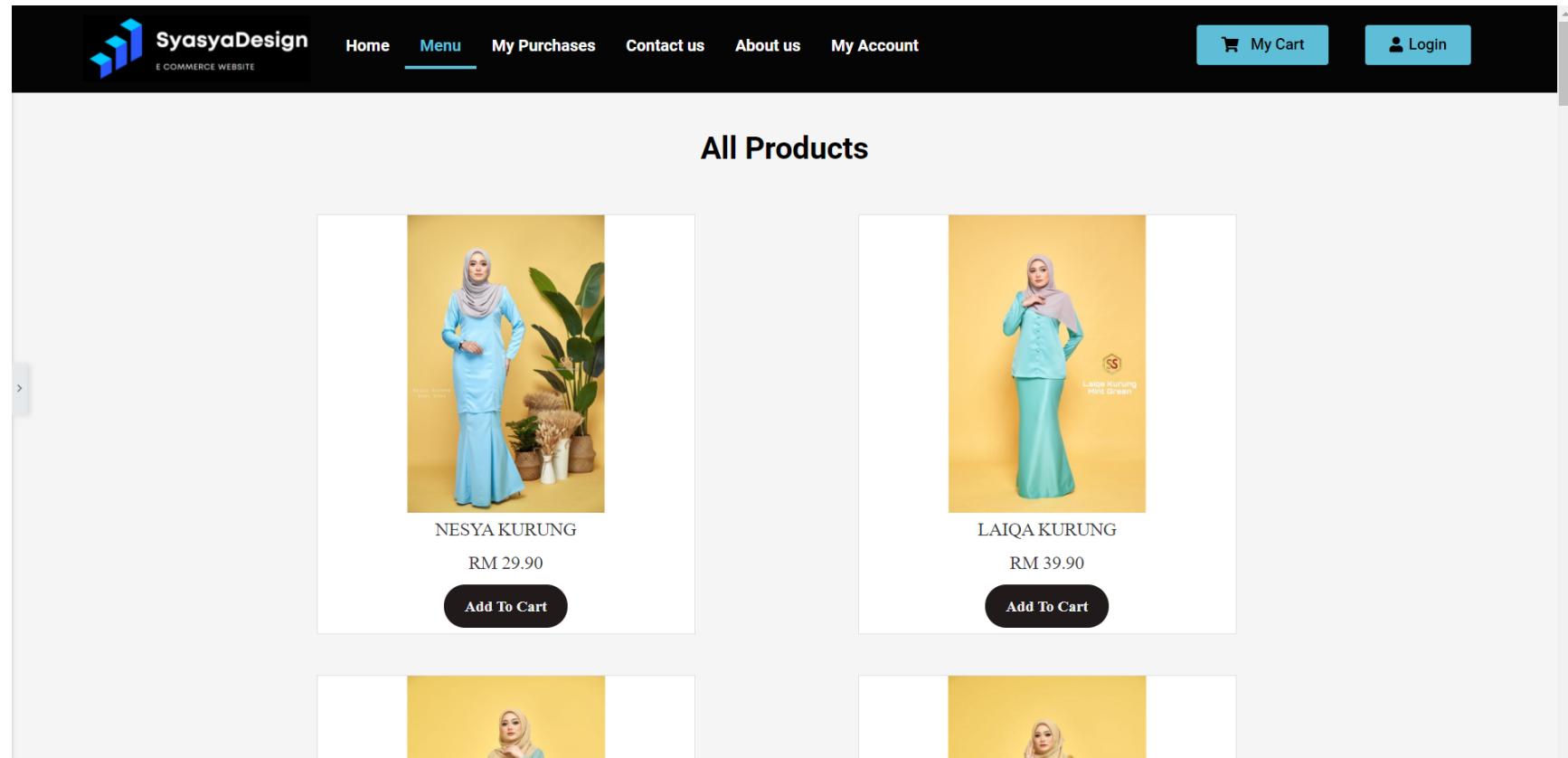


Figure 37: Menu page

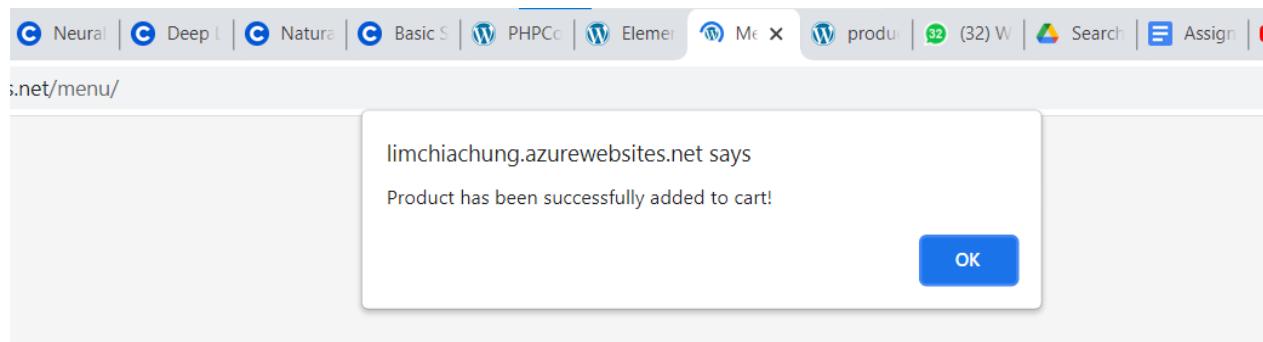


Figure 38: After clicking on the Add To Cart Button

5.1.1.8 Product Page

The web application will bring the customer to this product page when the customer clicks on the product image of any product on the menu page. For instance, the customer is interested in the product of 'Nesya Kurung', when the customer finds this product on the menu page, the customer can click on the image of the 'Nesya Kurung' product to view the particular product details. So, the customer can view the product details such as price per unit, product description, quantity available, number of products sold and so on. In the meantime, the customer also can enter the quantity he/she wants and click the 'Add To Cart' button to add the product to his/her cart as well. This is helpful and also convenient for the customer to add the product to his/her cart after he/she has gone through the product details.

The screenshot shows a web browser displaying a product page from the website limchiachung.azurewebsites.net/product-page/?productId=10001. The page has a dark header with the website's logo 'SyasyaDesign E COMMERCE WEBSITE' on the left, and navigation links for Home, Menu, My Purchases, Contact us, About us, and My Account. On the right, there are icons for search, my cart (containing 1 item), and login. The main content area features a large image of a woman wearing a light blue kurung (a traditional Muslim outfit) with a matching hijab, standing against a yellow background. To her right are some decorative plants and vases. The product title 'NESYA KURUNG' is displayed prominently in large capital letters. Below it, the material description reads: 'Material: Pearl skin high quality. Leher bulat, Zip belakang. Zip ditangan. Baju cutting Loose. Kain getah separuh dan zip. Kain potong 6.' The price is listed as 'RM 29.90'. Below the price, there are buttons for '1 sold' and '29 piece available'. A 'Quantity' selector shows the number '1' with a plus sign, and a black 'Add To Cart' button.

Figure 39: Product page (E.g. Nesya Kurung)

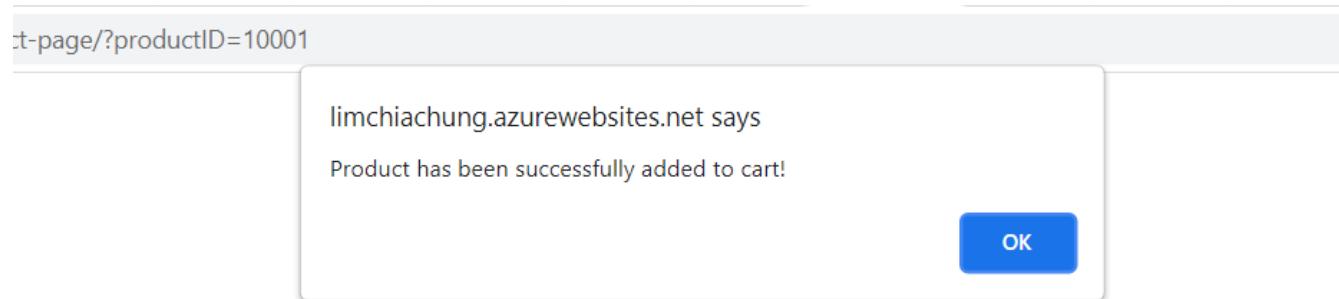


Figure 40: After clicking on the Add To Cart Button

5.1.1.9 My Cart Page

My Cart will display the product and quantity that the customer has added to the cart. After the customer clicks the add to cart button in the menu page or add the quantity and press add to cart in the product page, the product's details will be passed to the my cart list. Customers have to check the product, quantity of the product purchased, price total for each product and total amount of the products before proceeding to the payment page. Moreover, the customer can also delete the product that he or she does not want to purchase by clicking the delete button, the product will then be removed from the shopping cart list. After the customer confirms the products he or she wants to buy, he or she can click the proceed payment button to proceed to the payment page. Before proceeding to the payment page, the customer is required to sign in first and only can go to the payment page.

My Cart

Shopping Cart

Name	Quantity	Unit Price	Price	Remove
 NESYA KURUNG	1	RM 29.90	RM 29.90	<button>Delete</button>
 LAIQA KURUNG	1	RM 39.90	RM 39.90	<button>Delete</button>
 HALWA KURUNG	1	RM 129.90	RM 129.90	<button>Delete</button>
Total:		3	RM 199.70	

Proceed Payment

Figure 41: My Cart page with some product added to cart

AzureDB\wordpress\cartitem - HeidiSQL Portable 11.3.0.6295

File Edit Search Query Tools Go to Help

Database filter Table filter ★

Host: limchiachung.mysql.database.azure.com Database: wordpress

Table: cartitem Data Query

wordpress.cartitem: 3 ro Next Show all Sorting Columns (3/3) Filter

cartID	productID	qty
10,001	10,001	1
10,001	10,002	1
10,001	10,008	1

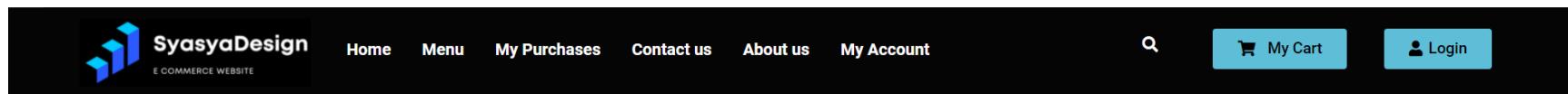
Filter: Regular expression

```
32 SELECT * FROM information_schema.REFERENTIAL_CONSTRAINTS WHERE CONSTRAINT_SCHEMA='wordpress' AND TABLE_NAME='cartitem'
33 SELECT * FROM information_schema.KEY_COLUMN_USAGE WHERE TABLE_SCHEMA='wordpress' AND TABLE_NAME='cartitem' AND REFERER...
34 SHOW CREATE TABLE `wordpress`.`cartitem`;
35 SELECT tc.CONSTRAINT_NAME, cc.CHECK_CLAUSE FROM `information_schema`.CHECK_CONSTRAINTS AS cc, `information_schema`.TABLE...
36 SELECT * FROM `wordpress`.`cartitem` LIMIT 1000;
```

r1 : c1 Connected: 0 MariaDB or MySQL 8.0 Uptime: 7 days, 16:04 h Server time: 7: Idle.

The screenshot shows the HeidiSQL interface connected to an AzureDB instance. The left sidebar displays the database schema for the 'wordpress' database, including tables like 'cart', 'cartitem', and 'customer'. The main pane shows the 'cartitem' table with three rows of data. Below the table is a SQL query window displaying a select statement from the 'information_schema' database. At the bottom, connection status and server information are shown.

Figure 42: The products in the My Cart are stored in database



My Cart

Shopping Cart

Name	Quantity	Unit Price	Price	Remove
 NESYA KURUNG	1	RM 29.90	RM 29.90	<button>Delete</button>
 HALWA KURUNG	1	RM 129.90	RM 129.90	<button>Delete</button>
Total:	2		RM 159.80	

Proceed Payment

Figure 43: My Cart page after deleting the second product in the list

AzureDB\wordpress\cartitem - HeidiSQL Portable 11.3.0.6295

File Edit Search Query Tools Go to Help

Database filter Table filter ★

Host: limchiachung.mysql.database.azure.com Database: wordpress

Table: cartitem Data Query

Rows total: Next Show all Sorting Columns (3/3) Filter

cartID	productID	qty
10,001	10,001	1
10,001	10,008	1

Filter: Regular expression

```
55 SELECT * FROM `wordpress`.`cart` LIMIT 1000;
56 SHOW TABLES FROM `information_schema`;
57 SELECT * FROM `information_schema`.`COLUMNS` WHERE TABLE_SCHEMA='wordpress' AND TABLE_NAME='cart' ORDER BY ORDINAL_POSITION
58 SHOW CREATE TABLE `wordpress`.`cartitem`;
59 SELECT * FROM `wordpress`.`cartitem` LIMIT 1000;
```

r1 : c1 Connected: 0 MariaDB or MySQL 8.0. Uptime: 7 days, 20:38 h Server time: 1 Idle.

The screenshot shows the HeidiSQL interface connected to an Azure MySQL database. The left sidebar displays the database schema with the 'wordpress' database selected, containing tables like 'cart', 'cartitem', and 'customer'. The main pane shows the 'cartitem' table with two rows of data: one row where cartID is 10,001 and productID is 10,001 with qty 1, and another row where cartID is 10,001 and productID is 10,008 with qty 1. Below the table, the query history shows several SQL statements related to the 'cart' and 'cartitem' tables. The bottom status bar indicates the connection details and server status.

Figure 44: The deleted products in the My Cart is removed from database

AzureDB\wordpress\cart\ - HeidiSQL Portable 11.3.0.6295

File Edit Search Query Tools Go to Help

Database filter Table filter ★ Host: limchiachung.mysql.database.azure.com Database: wordpress Table: cart Data Query

Donate

wordpress 16.9 MiB

cart 32.0 KiB

cartitem 32.0 KiB

customer 16.0 KiB

ordercancellation 64.0 KiB

product 16.0 KiB

staff 16.0 KiB

transactiondetails 32.0 KiB

transactions 48.0 KiB

voucher 16.0 KiB

wp_actionschedule... 176.0 KiB

wp_actionschedule... 32.0 KiB

wp_actionschedule... 32.0 KiB

wp_actionschedule... 48.0 KiB

wp_commentmeta 48.0 KiB

wp_comments 96.0 KiB

wp_gla_budget_re... 368.0 KiB

wp_gla_merchant... 16.0 KiB

wp_gla_shipping_r... 48.0 KiB

wordpress.cart: 1 rows >> Next Show all Sorting Columns (3/3) Filter

cartID custID cartTotalAmount

10,001 10,031 159.8

Filter: Regular expression

```
57 SELECT * FROM `information_schema`.`COLUMNS` WHERE TABLE_SCHEMA='wordpress' AND TABLE_NAME='cart' ORDER BY ORDINAL_POSITION
58 SHOW CREATE TABLE `wordpress`.`cartitem`;
59 SELECT * FROM `wordpress`.`cartitem` LIMIT 1000;
60 SHOW CREATE TABLE `wordpress`.`cart`;
61 SELECT * FROM `wordpress`.`cart` LIMIT 1000;
```

Figure 45: The cart total amount is updated when customer click proceed payment

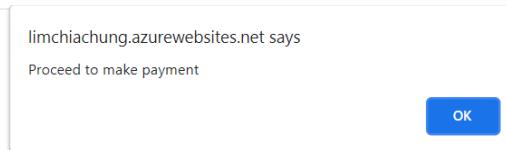


Figure 46: Alert message is displayed after customer press proceed payment

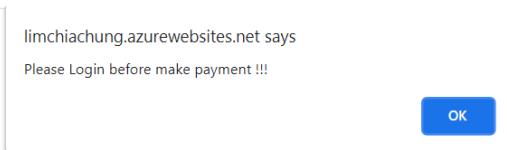


Figure 47: Alert message is displayed to remind customer to login account before making payment

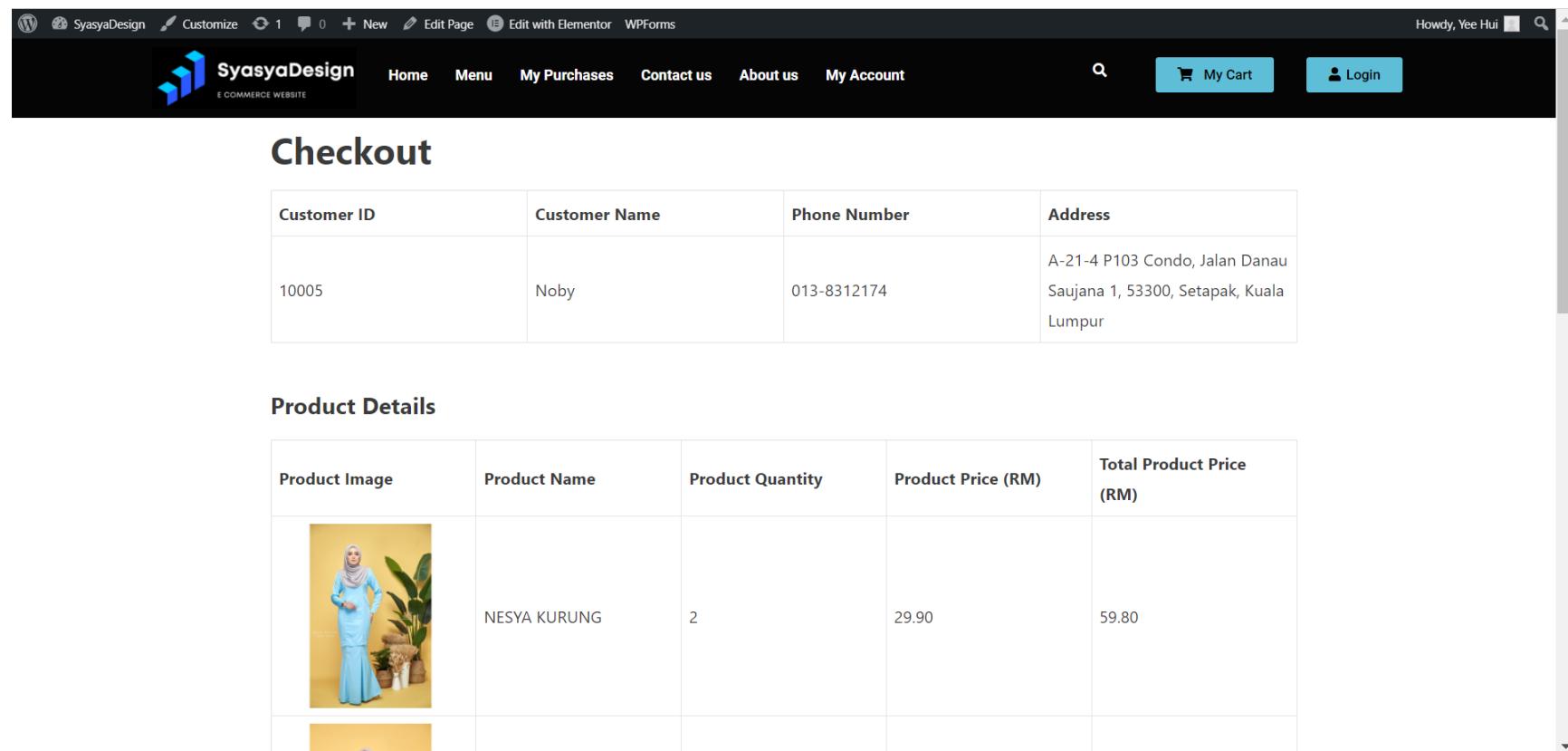
5.1.10 Payment Page

After the customer adds the product to the shopping cart, they will be able to make a payment. On the ‘Payment Page’ as shown in *Figure 48*, important information of the customer such as customer id, name, phone number and address will be displayed. This is to allow the customer to ensure that their delivery information is correct before making a payment, which can also reduce shipping and payment errors. On the ‘Payment Page’ as shown in *Figure 49*, the details of the products forwarded from the customer’s shopping cart will also be displayed on the payment page. For example, product image, product name, quantity added and product price. Besides that, the total price of each product will also be calculated and displayed on the payment page. At the bottom of the product details table, the total amount and shipping fees will be displayed, which allows the customer to know what is the amount they need to pay.

On the payment page, the customer also needs to select a payment method. SyasyaDesign has provided two payment methods to customers, which are online banking and credit or debit card. As shown in *Figure 50*, the online banking details form will be presented when the customer clicks the ‘Online Banking’ button. The customer is required to fill in the online banking account details such as account name and password. Moreover, the credit and debit card details form will appear when the customer clicks the ‘Credit/Debit Card’ button as illustrated in *Figure 51*. After that, the customer is required to fill in the form with their card details. For instance, name on card, credit card number, expiration date and card verification value (CVV). Both payment forms can only be submitted when the required information of the customer is filled in. After the customer has clicked the ‘Place Order’ button, the transaction details of the customers will be inserted in transactions and transaction details databases. At the same time, the product inventory will also be updated. For example, after the customer purchased two Nesya Kurung, the inventory of Nesya Kurung

will be updated from 50 to 48. After the transaction details are successfully inserted and updated, an alert message will be displayed and notify the customer that payment is successful as illustrated in *Figure 52*.

After the alert message is prompted, a page of payment success will be displayed, it includes the payment details such as transaction id, payment method, customer id, phone number, customer email and amount paid as shown in *Figure 53*. After the customer clicks the ‘OK’ button, the customer screen will be forwarded to the ‘To Ship’ page.



The screenshot shows the SyasyaDesign e-commerce website's checkout process. At the top, there is a navigation bar with links for Home, Menu, My Purchases, Contact us, About us, and My Account. On the right side of the header, there is a search icon, a 'My Cart' button, and a 'Login' button. The main content area has a title 'Checkout'. Below the title is a table with four columns: Customer ID, Customer Name, Phone Number, and Address. The table contains one row of data: Customer ID 10005, Customer Name Noby, Phone Number 013-8312174, and Address A-21-4 P103 Condo, Jalan Danau Saujana 1, 53300, Setapak, Kuala Lumpur. Below the table, there is a section titled 'Product Details' with a table showing product information. The table has five columns: Product Image, Product Name, Product Quantity, Product Price (RM), and Total Product Price (RM). The first row shows a product image of a person wearing a blue kurung, Product Name NESYA KURUNG, Product Quantity 2, Product Price (RM) 29.90, and Total Product Price (RM) 59.80. There is also a second, partially visible row in the table.

Customer ID	Customer Name	Phone Number	Address
10005	Noby	013-8312174	A-21-4 P103 Condo, Jalan Danau Saujana 1, 53300, Setapak, Kuala Lumpur

Product Image	Product Name	Product Quantity	Product Price (RM)	Total Product Price (RM)
	NESYA KURUNG	2	29.90	59.80

Figure 48: The information of the customer

Product Image	Product Name	Product Quantity	Product Price (RM)	Total Product Price (RM)
	NESYA KURUNG	2	29.90	59.80
	LAIQA KURUNG	1	39.90	39.90
	MEDINA KURUNG	8	59.90	479.20
			Amount (RM)	578.90
			Shipping Fees (RM)	10.00
			Total Amount (RM)	588.90

Figure 49: The details of products.

SyasyaDesign Customize 1 0 + New Edit Page Edit with Elementor WPForms

Howdy, Yee Hui  

			Amount (RM)	578.90
			Shipping Fees (RM)	10.00
			Total Amount (RM)	588.90

Payment Method

 Online Banking

 Credit\Debit Card

Online Banking Details

 Account Name
Noby

 Password

Show Password

Place Order

Figure 50: Form of online banking details

SyasyaDesign Customize 1 New Edit Page Edit with Elementor WPForms

Total Amount (RM) 588.90

Howdy, Yee Hui

Payment Method

 Online Banking

 Credit\Debit Card

Credit/Debit Card Details

Accepted Cards

Name on Card

Noby

Credit card number

0125-8677-1253-9910

Expiration Date

11/22

CVV

...

Place Order

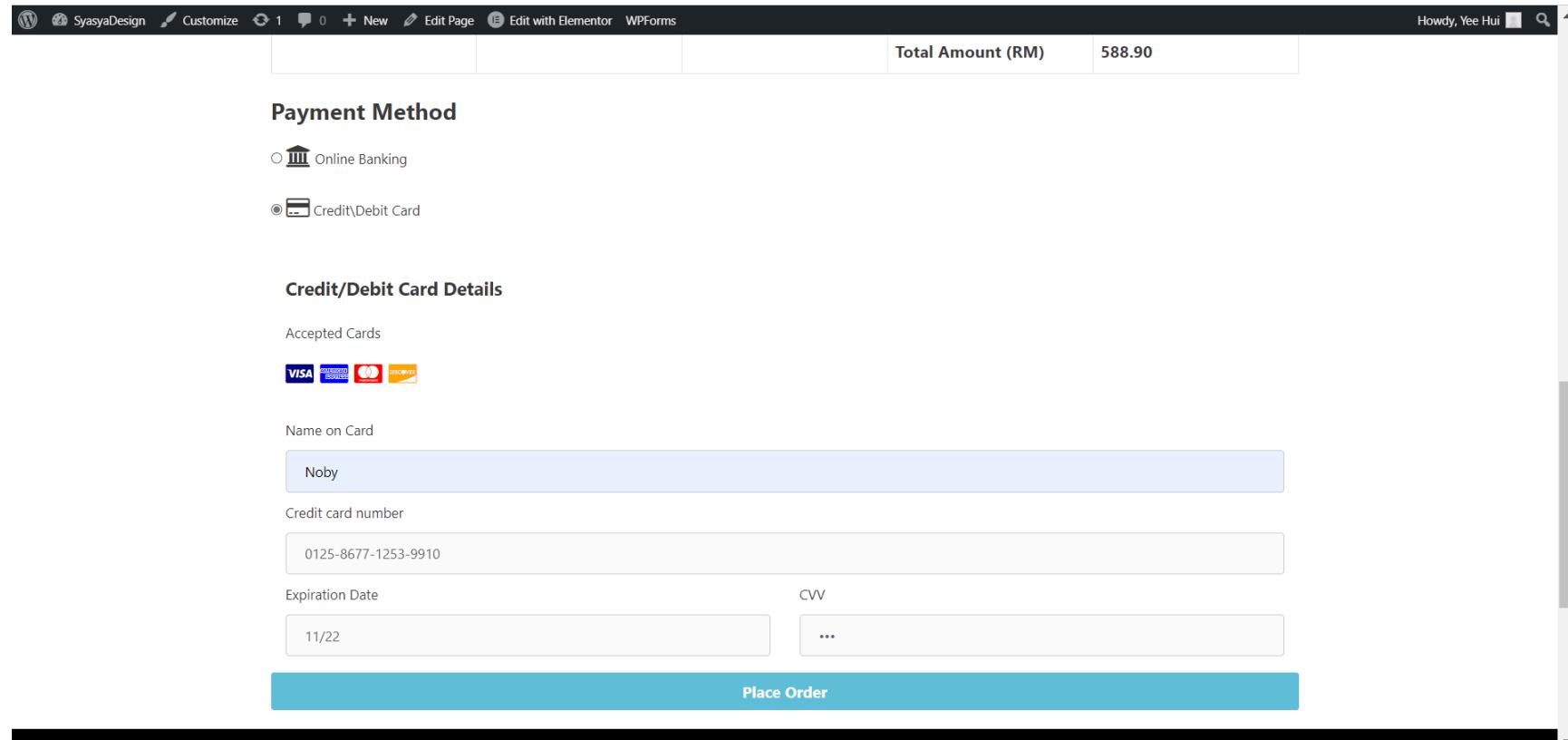


Figure 51: Form of Credit/Debit card details

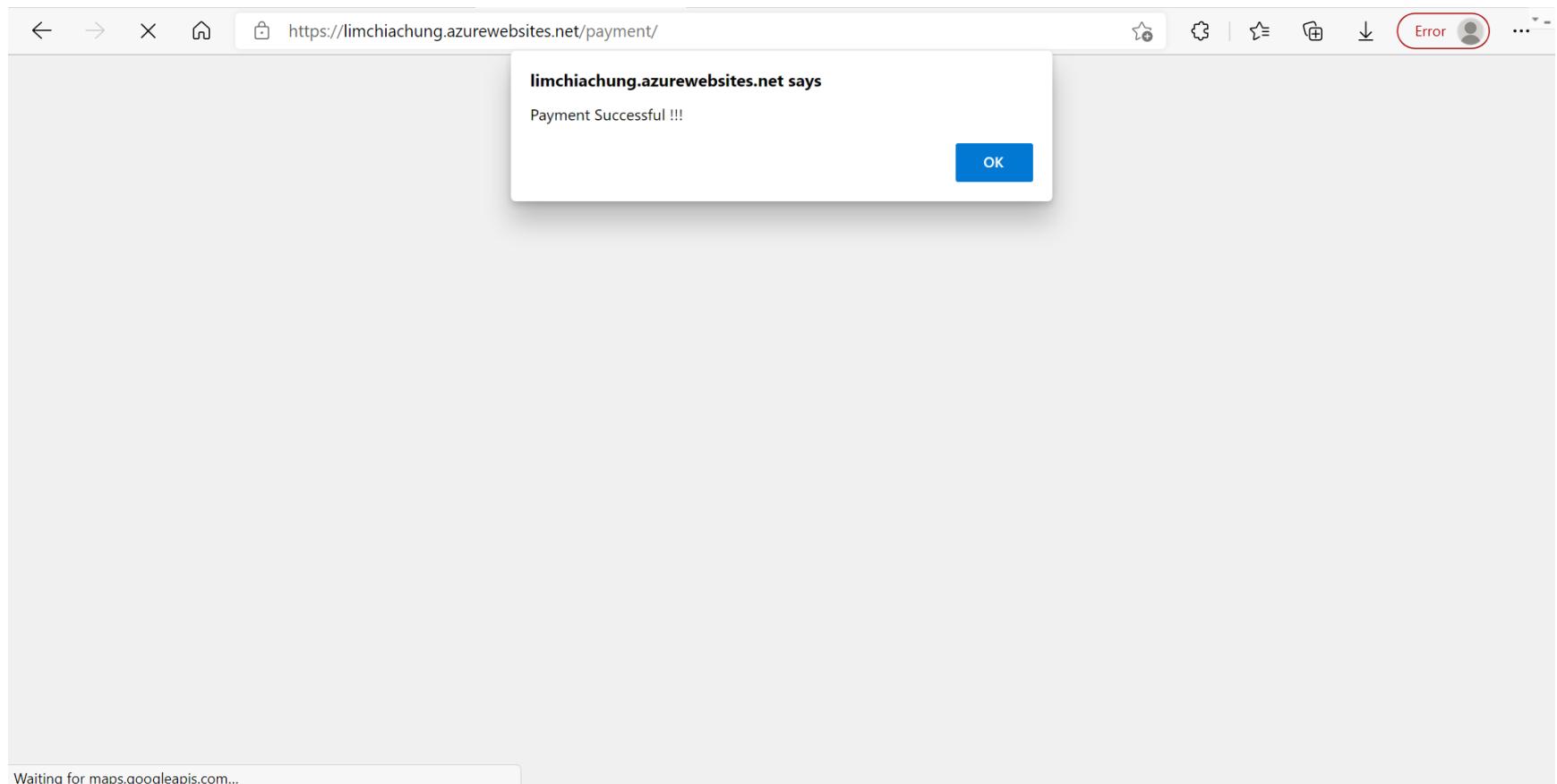


Figure 52: Alert messages are prompted after the customer clicks the 'Place Order' button on the payment page

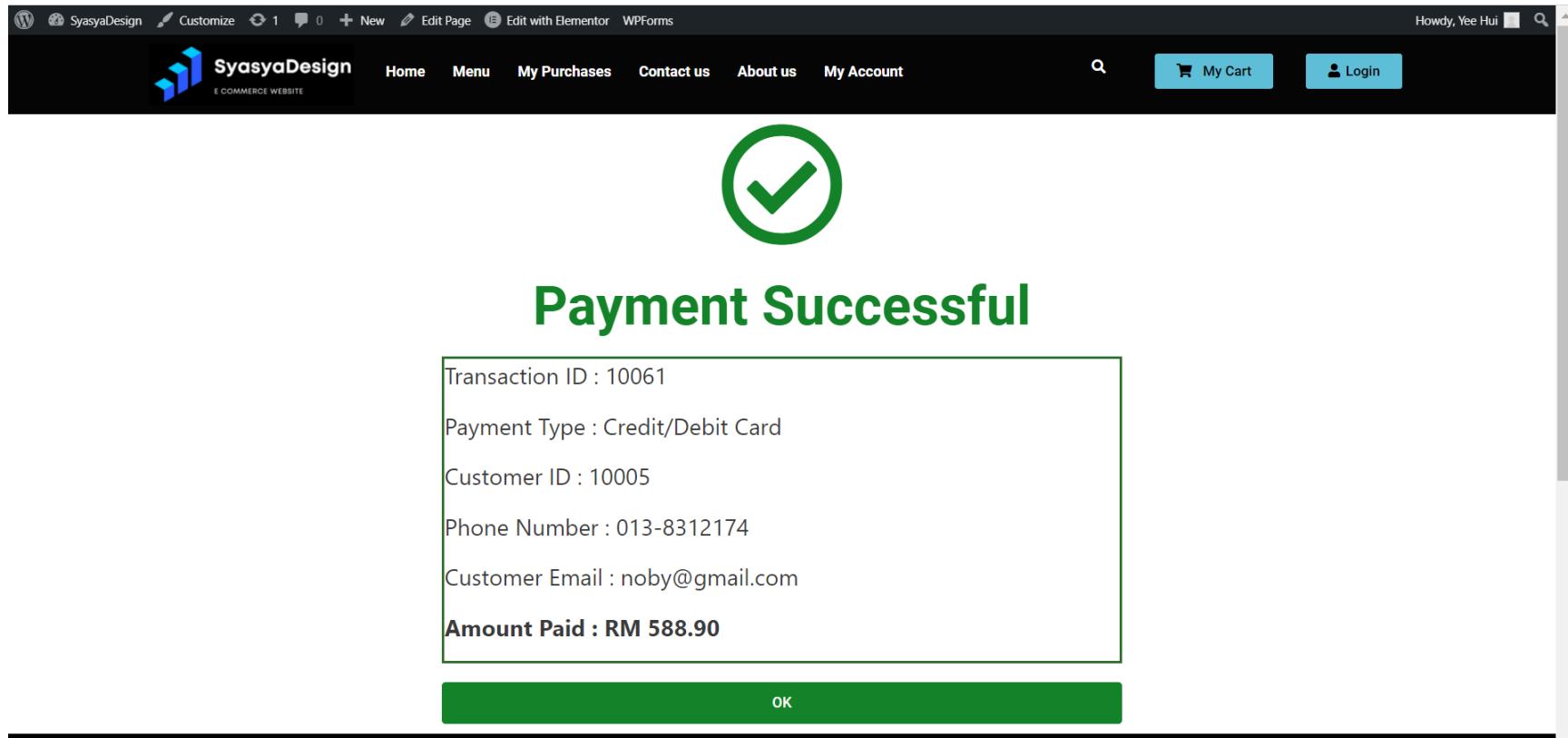


Figure 53: Payment successful page

5.1.11 My Purchase Page

On the ‘My Purchase’ page, the customers are able to check their purchase records and orders with different statuses which include ‘To Ship’, ‘To Receive’, ‘Completed’ and ‘Cancelled’. In the ‘To Ship’ page as shown in *Figure 55*, the customers can view the orders with ‘To Ship’ status and they can choose to cancel the order, if they click on the ‘Cancel Order’, then they will be redirected to the ‘Order Cancellation Request’ page as illustrated in *Figure 56*. On the ‘Order Cancellation Request’ page, the customer can view the order details and select the cancellation reason. Once the customers click on the ‘Cancel Order’ button, then their order cancellation request will be received by the staff and wait for the staff to review their order cancellation request. An alert message will also be displayed to notify the customers that their cancellation request has been sent and waiting for approval by the staff as shown in *Figure 57*.

In the ‘To Receive’ page as shown in *Figure 58*, the customer can view all the orders with ‘To Receive’ status and they can click on the ‘Order Received’ button when they receive their order. Once the click on the ‘Order Received’ button, the status of the order will be updated from ‘To Receive’ to ‘Completed’. As illustrated in *Figure 59*, an alert message will be displayed to notify the customer that their order has been received successfully and then they will be redirected to the ‘Completed’ page. At the same time, in the ‘Completed’ and ‘Cancelled’ pages as shown in *Figure 60* and *Figure 61*, the customer can view all the orders with ‘Completed’ and ‘Cancelled’ status.

The screenshot shows the SyasyaDesign e-commerce website's customer dashboard. The top navigation bar includes links for Home, Menu, My Purchases (which is underlined), Contact us, About us, and My Account. There are also links for WPForms, a search bar, a My Cart button, and a Login button. Below the navigation, there are four tabs: To Ship, To Receive, Completed, and Cancelled. The main content area is titled "All Purchase Records" and contains a table with the following data:

Transaction ID	Transaction Date	Product Name	Quantity	Subtotal Amount
10061	2021-09-10	NESYA KURUNG	1	29.90
		ARIANA SUIT	1	99.90
		MALISSA SUIT	1	149.90
		QALESYA KURUNG	1	79.90
		KEISHA SUIT	4	239.60
10055	2021-08-08	MEDINA KURUNG	2	119.80
		MALIKA SUIT	3	299.70

Figure 54: My purchase page with all the purchase records for the customer

The screenshot shows a WordPress dashboard interface with various menu items like Home, Menu, My Purchases, Contact us, About us, and My Account. The main content area displays a table of 'To Ship' orders. The table has four columns: Transaction ID, Product Name, Quantity, and Subtotal Amount. It lists two items: MEDINA KURUNG (2 units, 119.80) and MALIKA SUIT (3 units, 299.70), with a total amount of 419.50. Below the table is a 'Cancel Order' button. Another table below shows completed purchases for Transaction ID 10061, listing NESYA KURUNG (1 unit, 29.90) and ARIANA SUIT (1 unit, 99.90).

Transaction ID	Product Name	Quantity	Subtotal Amount
10055	MEDINA KURUNG	2	119.80
	MALIKA SUIT	3	299.70
Total Amount			419.50

Cancel Order

Transaction ID	Product Name	Quantity	Subtotal Amount
10061	NESYA KURUNG	1	29.90
	ARIANA SUIT	1	99.90

Figure 55: My purchase page with 'To Ship' orders for the customer

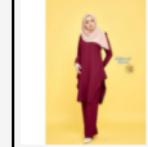
SyasyaDesign E COMMERCE WEBSITE

Home Menu My Purchases Contact us About us My Account Q My Cart Login

Transaction ID

10055

Product Details

Product Name	Product Image	Quantity	Subtotal Amount
MEDINA KURUNG		2	119.80
MALIKA SUIT		3	299.70

Cancellation Reason

Modify existing order
 Seller failed to ship on time
 Change of mind
 Need to change delivery address
 Others

Cancel Order

Figure 56: Order cancellation request page after the customer clicks on the 'Cancel Order' button in the 'To Ship' page



Figure 57: Alert message prompted after the customer clicks on the 'Cancel Order' button in the 'Order Cancellation Request' page

A screenshot of the SyasyaDesign e-commerce website. The header includes the logo "SyasyaDesign E COMMERCE WEBSITE", navigation links for Home, Menu, My Purchases, Contact us, About us, and My Account, and user information "Howdy, T'nsam". The main content area shows a table of orders under the "To Receive" tab. The table has columns: Transaction ID, Product Name, Quantity, and Subtotal Amount. It lists one item: Transaction ID 10050, Product Name KURUNG DAVINA, Quantity 6, and Subtotal Amount 899.40. A summary row shows Total Amount 899.40. A blue button labeled "Order Received" is visible. Other tabs for "To Ship", "Completed", and "Cancelled" are also present.

Figure 58: My purchase page with 'To Receive' orders for the customer

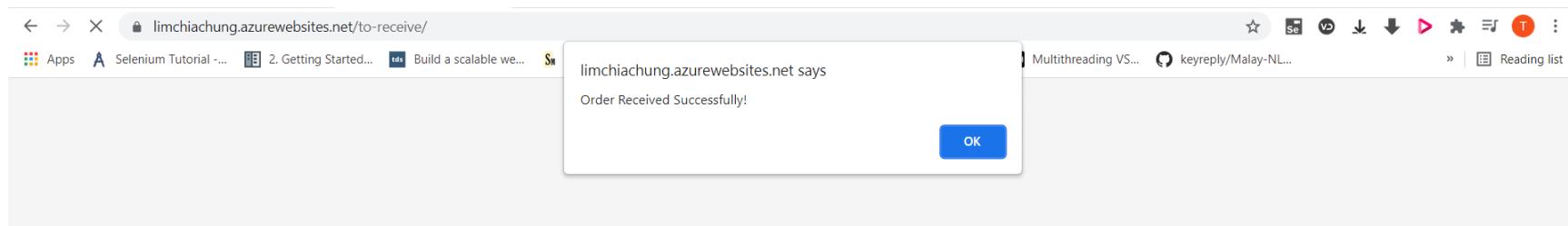


Figure 59: Alert message prompted after the customer clicks on the 'Order Received' button in the 'To Receive' page

A screenshot of the SyasyaDesign e-commerce website. The header includes a logo for 'SyasyaDesign E COMMERCE WEBSITE', navigation links for Home, Menu, My Purchases, Contact us, About us, and My Account, a search icon, a 'My Cart' button, and a 'Login' button. Below the header, there are four tabs: 'To Ship', 'To Receive', 'Completed' (which is underlined in blue), and 'Cancelled'. Two tables below show completed orders. The first table has two rows: one for POLKADOT RANAA (Quantity 2, Subtotal 79.80) and one for ADENA KURUNG (Quantity 1, Subtotal 129.90). The total amount for these two items is 209.70. The second table has one row for KURUNG CLARISSA (Quantity 2, Subtotal 259.80).

Transaction ID	Product Name	Quantity	Subtotal Amount
10001	POLKADOT RANAA	2	79.80
	ADENA KURUNG	1	129.90
Total Amount			209.70

Transaction ID	Product Name	Quantity	Subtotal Amount
10018	KURUNG CLARISSA	2	259.80
Total Amount			259.80

Figure 60: My purchase page with 'Completed' orders for the customer

The screenshot shows a WordPress dashboard interface with various tools like Customize, Edit Page, and WPForms. The main content area displays a customer's purchase history. The navigation bar includes Home, Menu, My Purchases, Contact us, About us, and My Account. A search bar and a cart icon are also present. The table below lists orders categorized by status: To Ship, To Receive, Completed, and Cancelled. The 'Cancelled' tab is selected, showing two items:

Transaction ID	Product Name	Quantity	Subtotal Amount
10010	KURUNG PEPLUM POTONGAN	5	649.50
	POLKADOT RANAA NEW	1	79.90
Total Amount			729.40

Figure 61: My purchase page with 'Cancelled' orders for the customer

5.1.2 Staff's View

5.1.2.1 New Orders Page

On the new orders page, the staff is able to check the new orders placed by the customer and they can click on the 'Shipped Out' button when the order is shipped out. Once the staff clicks on the 'Shipped Out' button, the transaction status for the order will be updated from 'To Ship' to 'To Receive' and the shipped date will also be updated with the date that the staff presses on the 'Shipped Out' button. From customers' view, they will be able to see that their orders are under 'To Receive' status.

The screenshot shows a WordPress dashboard with various menu items like 'Customize', 'Edit Page', 'Edit with Elementor', and 'WPForms'. The main content area is titled 'New Orders' and contains two tables of order details. The first table has columns: Transaction ID, Product Name, Quantity, and Subtotal Amount. It lists three items: MEDINA KURUNG (2 units, 119.80), KURUNG PEPLUM POTONGAN (1 unit, 129.90), and MALIKA SUIT (3 units, 299.70). A total amount of 549.40 is shown. The second table has the same structure and lists one item: MEDINA KURUNG (3 units, 179.70). Both tables have a 'Shipped Out' button at the bottom right.

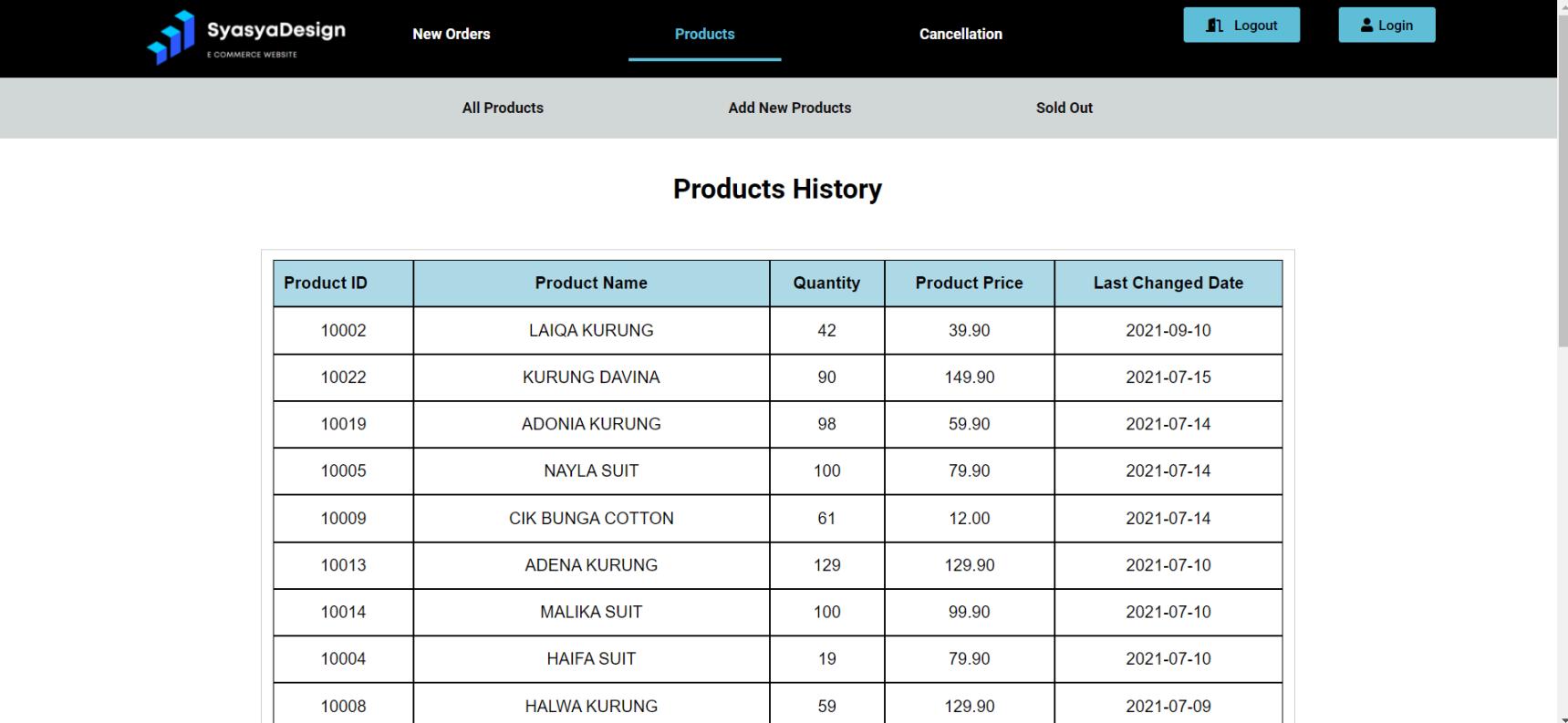
Transaction ID	Product Name	Quantity	Subtotal Amount
10005	MEDINA KURUNG	2	119.80
	KURUNG PEPLUM POTONGAN	1	129.90
	MALIKA SUIT	3	299.70
Total Amount			549.40

Transaction ID	Product Name	Quantity	Subtotal Amount
10008	MEDINA KURUNG	3	179.70
Total Amount			179.70

Figure 62: New orders page

5.1.2.2 Product Page

On the product page, the staff is able to view the product history of all added products and the history is sorted by the entry date. Product history allows the staff to check the stock change of a particular product, which means that when the staff replenished or modified the product the product history page will show the latest changes of the particular product. Please keep in mind that this product history will only affect at the staff end. No action will be created for customer cancellation.



The screenshot shows a dark-themed web application interface. At the top, there is a navigation bar with the logo "SyasyaDesign E COMMERCE WEBSITE" on the left, followed by links for "New Orders", "Products" (which is underlined in blue), "Cancellation", and user authentication ("Logout" and "Login"). Below the navigation bar, a grey header bar contains three buttons: "All Products", "Add New Products", and "Sold Out". The main content area is titled "Products History" and displays a table of product history data.

Product ID	Product Name	Quantity	Product Price	Last Changed Date
10002	LAIQA KURUNG	42	39.90	2021-09-10
10022	KURUNG DAVINA	90	149.90	2021-07-15
10019	ADONIA KURUNG	98	59.90	2021-07-14
10005	NAYLA SUIT	100	79.90	2021-07-14
10009	CIK BUNGA COTTON	61	12.00	2021-07-14
10013	ADENA KURUNG	129	129.90	2021-07-10
10014	MALIKA SUIT	100	99.90	2021-07-10
10004	HAIFA SUIT	19	79.90	2021-07-10
10008	HALWA KURUNG	59	129.90	2021-07-09

Figure 63: Product History in the Product page

According to *Figure 64*, it illustrates the entire product that has been added to the e-commerce store. This page not only displays the published product, but also allows staff to navigate to the product details page to edit the product name or do stock updates. Staff can simply click on the “Product Details” button or product image to get into the product details page to perform modification.

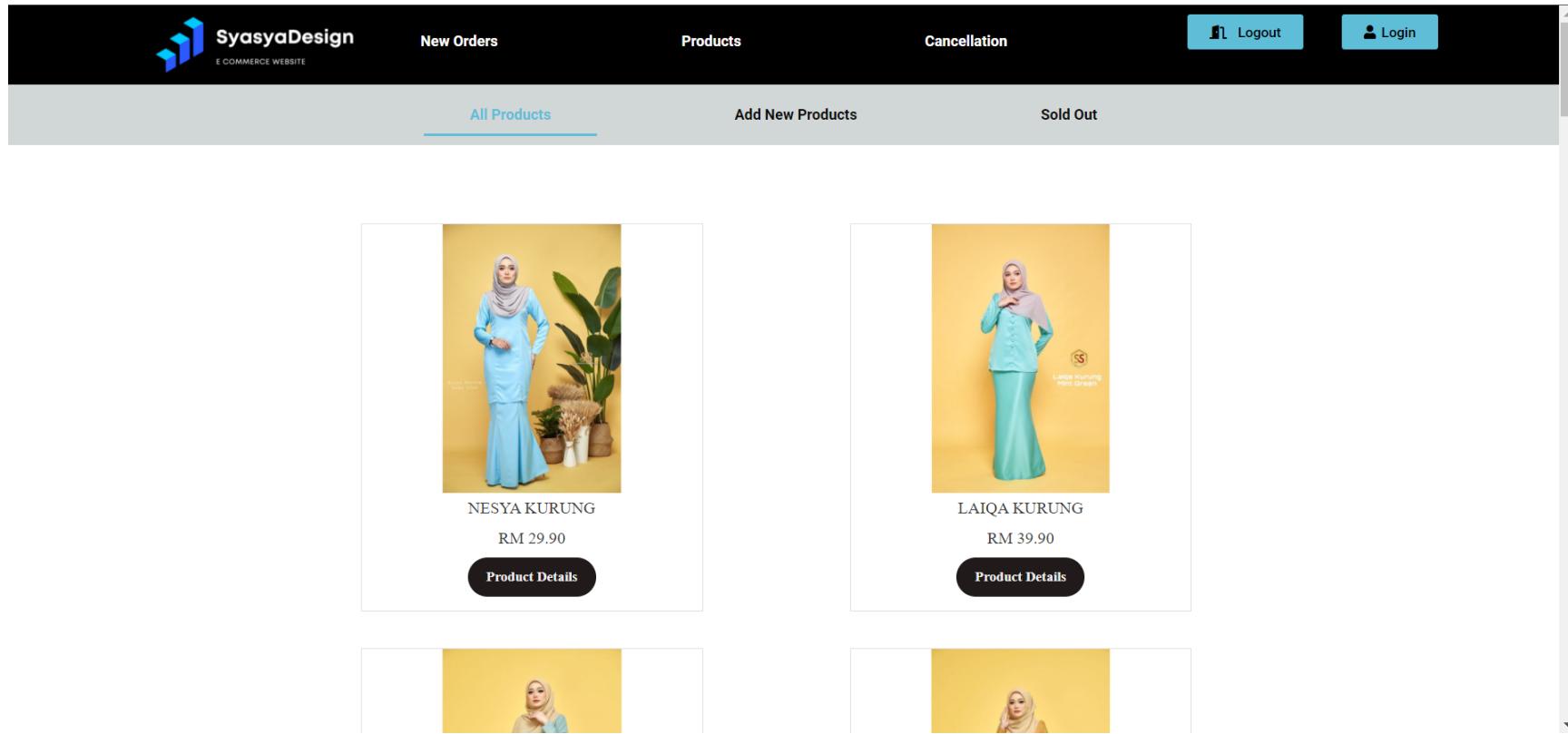


Figure 64: All Products page

Figure 65 illustrates the product details page. Let's say the product 10001 has been chosen to be modified, therefore its product details will automatically be displayed in the blank. This is convenient in terms of efficiency, because the staff does not need to re-enter all the product details just to edit one attribute. If a staff accidentally navigates to the wrong page, he/she can simply click the "Cancel" button to exit the current page and there will be no changes made for this product. Yet, if the particular product has no sales and management tends to remove it, the staff can do so by clicking on the "Delete" button to delete the product and that particular product will no longer exist in the database. When the staff has done modifying the product, he/she can click the "Update" button to update the product details. After all of these actions, the web application will display a notification indicating whether the action was successful or failed, illustrated in Figure 66, Figure 67 and Figure 68.

The screenshot shows a product update form on the SyasyaDesign e-commerce website. The top navigation bar includes links for New Orders, Products, Cancellation, Logout, and Login. The main form fields are as follows:

- Product Image:** A file input field labeled "Choose File" with the placeholder "No file chosen".
- Product Name:** An input field containing "NESYA KURUNG".
- Product Description:** A text area containing the material details: "Material: Pearl skin high quality. Leher bulat, Zip belakang. Zip ditangan. Baju cutting Loose. Kain getah separuh dan zip. Kain potong 6."
- Product Price (RM):** An input field containing "29.90".
- Quantity:** An input field containing "30".

At the bottom are three buttons: "Cancel", "Delete", and "Update".

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Figure 65: Product Details page for delete and update

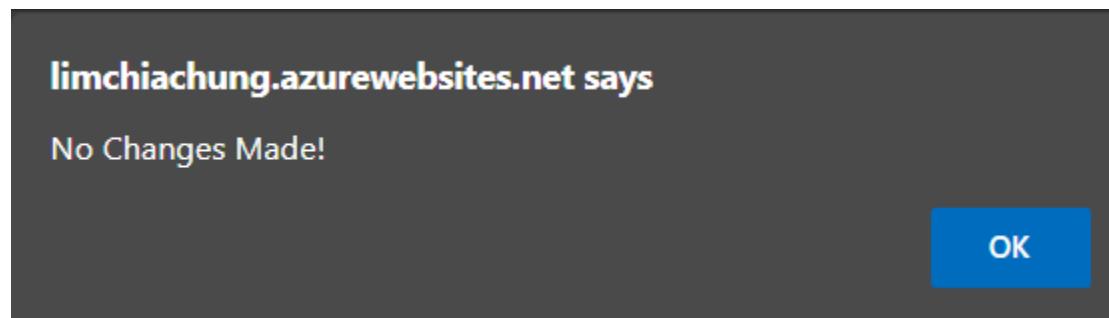


Figure 66: No changes made message

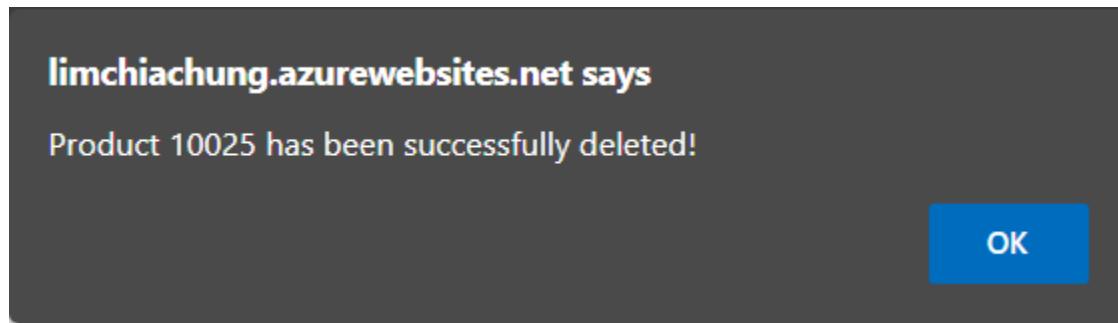


Figure 67: Product deleted success message

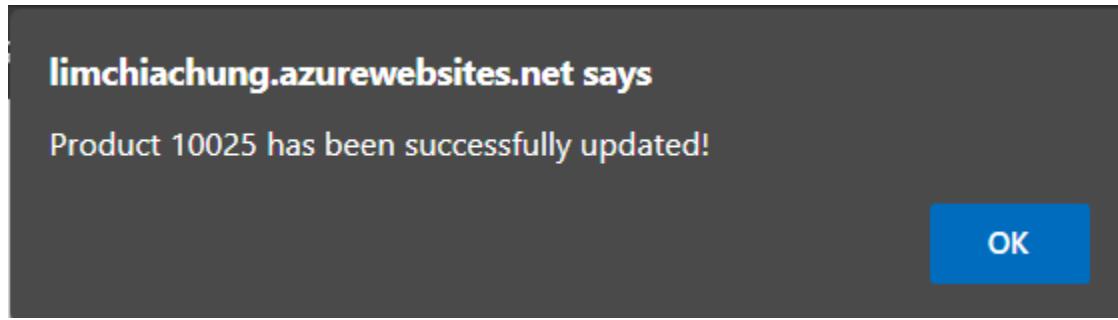


Figure 68: Product updated success message

The following page is slightly similar to the product details page, however, this page is basically for staff to add a new product. The staff is allowed to upload images from their computer. Followed by the product name and product description, there is no word limit here. Moreover, product price and quantity only allow the input number as well as staff can adjust the quantity by clicking the up or down button in the quantity field. All the product details' fields are required to be filled in before publishing the product, otherwise, the operation cannot be performed. The web application will display a notification indicating whether the action was successful or failed, illustrated in *Figure 69*.

The screenshot shows a dark-themed web application interface. At the top, there is a navigation bar with the logo 'SyasyaDesign E COMMERCE WEBSITE' on the left, followed by links for 'New Orders', 'Products', and 'Cancellation'. On the right side of the navigation bar are 'Logout' and 'Login' buttons. Below the navigation bar, there is a secondary header with three tabs: 'All Products', 'Add New Products' (which is underlined, indicating it is the active tab), and 'Sold Out'. The main content area is titled 'Product Image' and contains a file input field with the placeholder 'Choose File No file chosen'. Below this is a 'Product Name' input field, which is currently empty. The next section is 'Product Description', also currently empty. Underneath these fields are two input fields: 'Product Price (RM)' and 'Quantity', both of which are also empty. At the bottom of the form are two buttons: 'Cancel' on the left and 'Publish' on the right.

Figure 69: Add New Product page

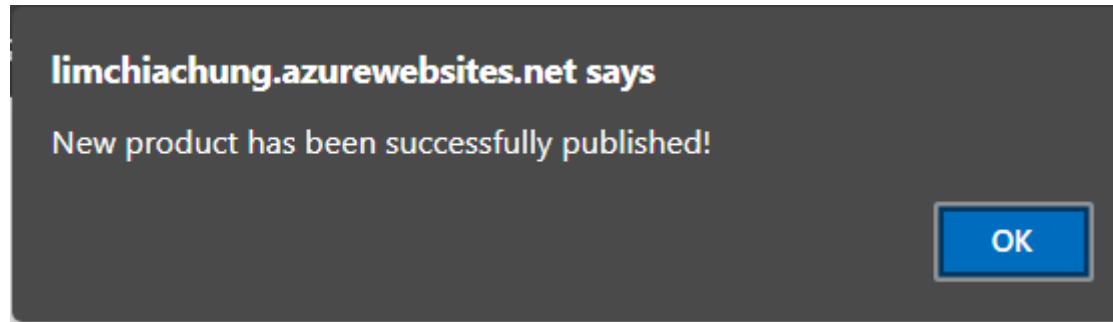


Figure 70: Product published success message

Figure 70 displays the product that is no longer available. Customers would not be able to make payment for that particular product if it is currently unavailable. The staff is able to click on the “Replenishment” button to navigate to product details to increase the stock.

The screenshot shows a web application interface for 'SyasyaDesign E COMMERCE WEBSITE'. At the top, there is a navigation bar with links for 'New Orders', 'Products', 'Cancellation', 'Logout' (with a user icon), and 'Login' (with a user icon). Below the navigation bar, there are three main categories: 'All Products', 'Add New Products', and 'Sold Out', with 'Sold Out' being the active tab, indicated by a blue underline. The main content area is titled 'All Sold Out Products'. It features two product cards. The first card on the left shows a woman wearing a green 'MALISSA SUIT' with a matching hijab. The product details are: 'Malissa Suit Emerald green', 'RM 149.90', and a 'Replenishment' button. The second card on the right shows a woman wearing a dark blue 'KURUNG CLARISSA' with a matching hijab. The product details are: 'RM 129.90', and a 'Replenishment' button. Both products are labeled as 'Sold Out'.

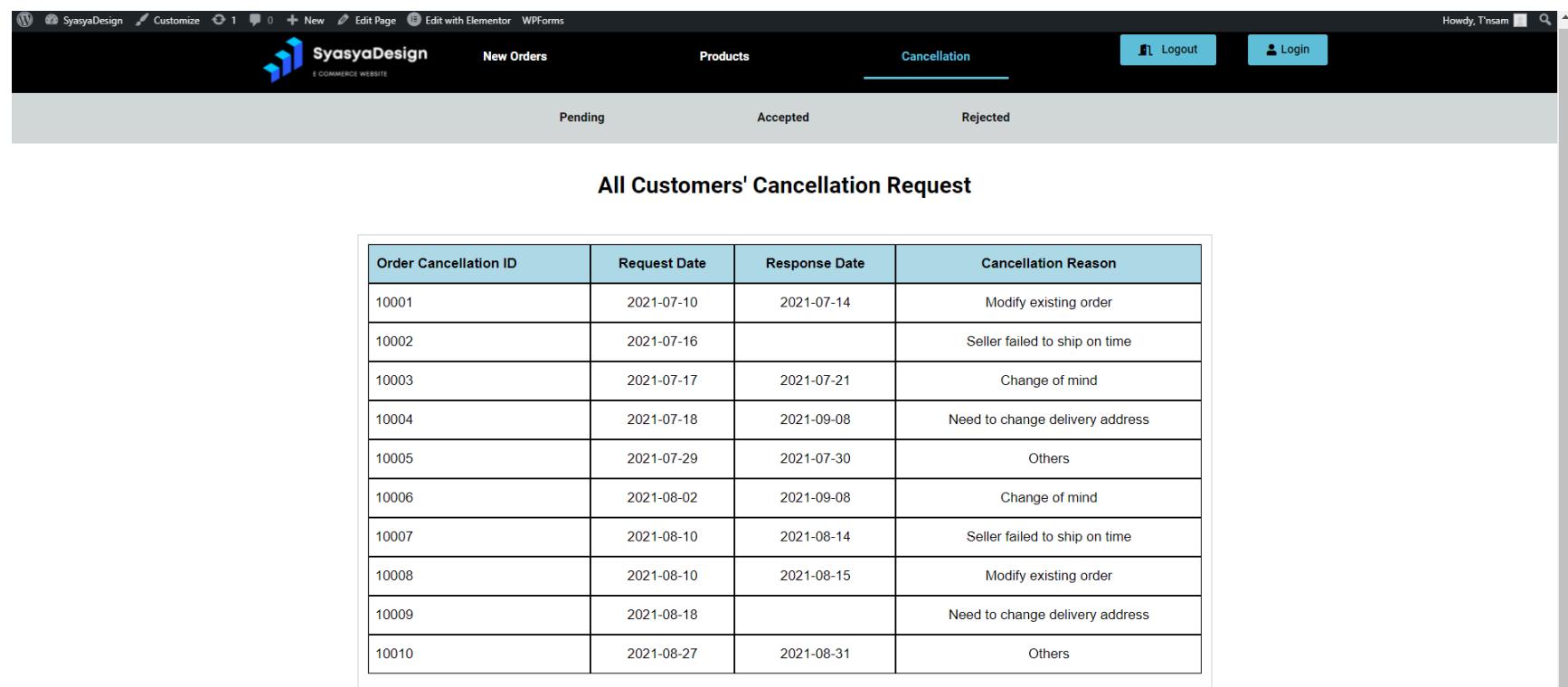
Figure 71: Sold Out page

5.1.2.3 Cancellation Page

On the cancellation page, the staff is able to check the customers' order cancellation requests. For example, the staff can check those pending order cancellation requests and decide whether to accept or reject the order cancellation request. If the staff accept the order cancellation request, then the cancellation status of that order will be updated to become ‘Accepted’ and the response date will be updated by using the date that the staff accepted the order cancellation request. The transaction status of the order will also be updated from ‘To Ship’ to ‘Cancelled’. Meanwhile, the quantity of the product will be updated by adding the current stock quantity with the quantity of products cancelled.

Based on *Figure 74*, an alert message will be displayed to notify the staff that the order cancellation request has been accepted successfully. After that, the staff will be redirected to the ‘Accepted’ page and all the order cancellation requests with accepted status will be displayed as illustrated in *Figure 76*.

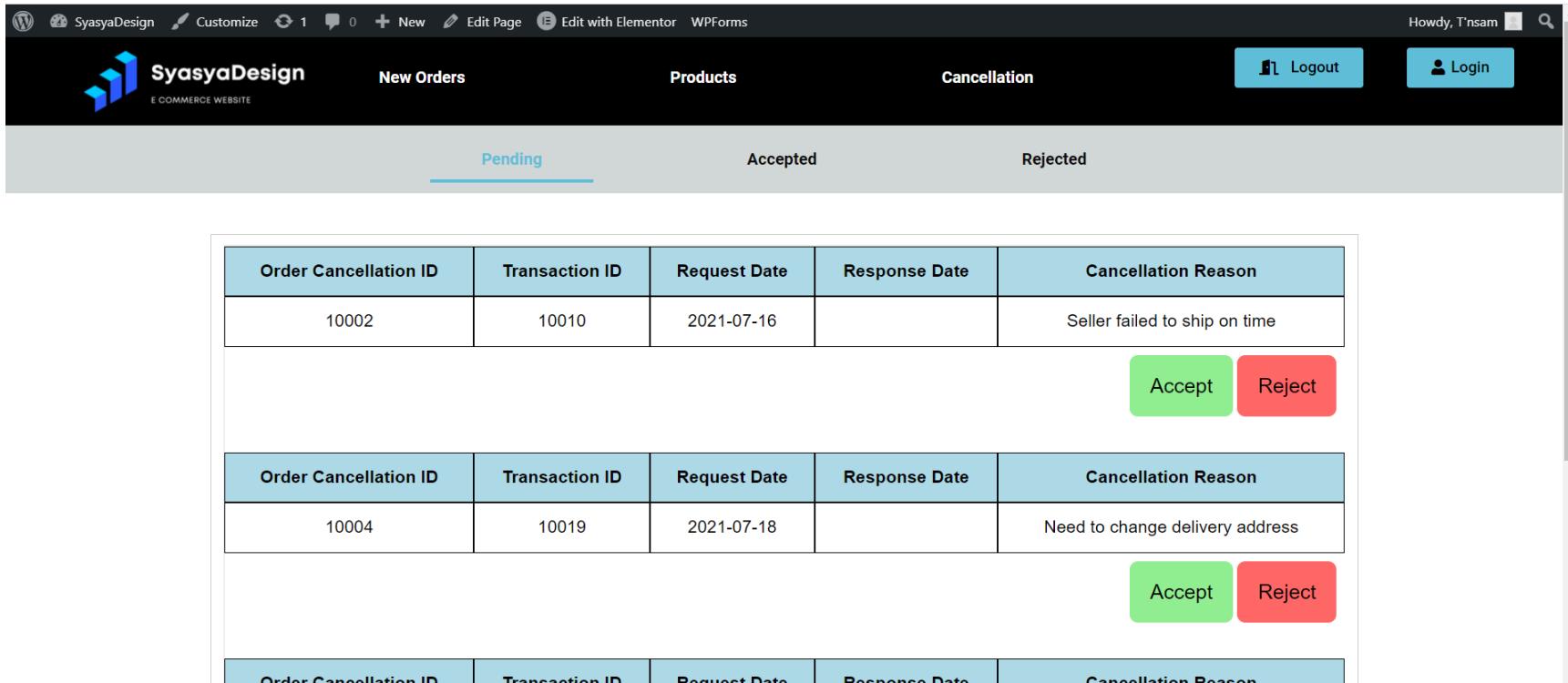
On the other hand, if the staff reject the order cancellation request, then the cancellation status of that order will be updated to become ‘Rejected’. Based on *Figure 75*, an alert message will be displayed to notify the staff that the order cancellation request has been rejected successfully. After that, the staff will be redirected to the ‘Rejected’ page and all the order cancellation requests with rejected status will be displayed as illustrated in *Figure 77*.



The screenshot shows a WordPress dashboard for 'SyasyaDesign E COMMERCE WEBSITE'. The top navigation bar includes links for 'Customize', 'New', 'Edit Page', 'Edit with Elementor', and 'WPForms'. On the right, there are 'Logout' and 'Login' buttons. The main content area is titled 'All Customers' Cancellation Request' and features a table with the following data:

Order Cancellation ID	Request Date	Response Date	Cancellation Reason
10001	2021-07-10	2021-07-14	Modify existing order
10002	2021-07-16		Seller failed to ship on time
10003	2021-07-17	2021-07-21	Change of mind
10004	2021-07-18	2021-09-08	Need to change delivery address
10005	2021-07-29	2021-07-30	Others
10006	2021-08-02	2021-09-08	Change of mind
10007	2021-08-10	2021-08-14	Seller failed to ship on time
10008	2021-08-10	2021-08-15	Modify existing order
10009	2021-08-18		Need to change delivery address
10010	2021-08-27	2021-08-31	Others

Figure 72: Cancellation page which displays all customers' cancellation requests



The screenshot shows a WordPress dashboard with various menu items like New, Edit Page, and Edit with Elementor. The main content area displays a table of cancellation requests with three tabs at the top: Pending (selected), Accepted, and Rejected. Each row in the table includes columns for Order Cancellation ID, Transaction ID, Request Date, Response Date (empty), and Cancellation Reason. Below each row are green 'Accept' and red 'Reject' buttons.

Order Cancellation ID	Transaction ID	Request Date	Response Date	Cancellation Reason
10002	10010	2021-07-16		Seller failed to ship on time
Order Cancellation ID	Transaction ID	Request Date	Response Date	Cancellation Reason
10004	10019	2021-07-18		Need to change delivery address

Figure 73: Cancellation page which displays all customers' cancellation requests with 'Pending' status



Figure 74: Alert message prompted after the staff clicks on the 'Accept' button in the 'New Orders' page.



Figure 75: Alert message prompted after the staff clicks on the ‘Reject’ button in the ‘New Orders’ page.

A screenshot of the SyasyaDesign e-commerce website. The top navigation bar includes links for SyasyaDesign, Customize, New, Edit Page, Edit with Elementor, WPForms, Logout, and Login. The main content area features a navigation menu with "New Orders", "Products", and "Cancellation". Below this, there are three tabs: "Pending", "Accepted" (which is underlined in blue), and "Rejected". A table lists cancellation requests with the following data:

Order Cancellation ID	Transaction ID	Request Date	Response Date	Cancellation Reason
10003	10013	2021-07-17	2021-07-21	Change of mind
10007	10044	2021-08-10	2021-08-14	Seller failed to ship on time
10010	10058	2021-08-27	2021-08-31	Others

Figure 76: Cancellation page which displays all customers’ cancellation requests with ‘Accepted’ status

The screenshot shows a WordPress dashboard with various menu items like New Orders, Products, and Cancellation. The Cancellation section is active, showing a table of rejected cancellation requests. The table has columns: Order Cancellation ID, Transaction ID, Request Date, Response Date, and Cancellation Reason. The data in the table is as follows:

Order Cancellation ID	Transaction ID	Request Date	Response Date	Cancellation Reason
10001	10005	2021-07-10	2021-07-14	Modify existing order
10005	10028	2021-07-29	2021-07-30	Others
10008	10047	2021-08-10	2021-08-15	Modify existing order

Figure 77: Cancellation page which displays all customers' cancellation requests with 'Rejected' status

5.2 Database Table, Fields and Records

5.2.1 Staff Table - 6 records

```
CREATE TABLE `staff` (
  `staffID` VARCHAR(50) NOT NULL COLLATE 'utf8mb4_0900_ai_ci',
  `email` VARCHAR(50) NOT NULL COLLATE 'utf8mb4_0900_ai_ci',
  `staffName` VARCHAR(50) NOT NULL COLLATE 'utf8mb4_0900_ai_ci',
  `staffPhoneNo` VARCHAR(50) NOT NULL COLLATE 'utf8mb4_0900_ai_ci',
  `staffPassword` VARCHAR(50) NOT NULL COLLATE 'utf8mb4_0900_ai_ci',
  PRIMARY KEY (`staffID`) USING BTREE
)
COLLATE='utf8mb4_0900_ai_ci'
ENGINE=InnoDB;
```

5.2.2 Customer Table - 30 records

```
CREATE TABLE `customer` (
    `custID` INT(10) NOT NULL AUTO_INCREMENT,
    `custName` VARCHAR(50) NOT NULL COLLATE 'utf8mb4_0900_ai_ci',
    `phoneNo` VARCHAR(50) NOT NULL COLLATE 'utf8mb4_0900_ai_ci',
    `email` VARCHAR(50) NOT NULL COLLATE 'utf8mb4_0900_ai_ci',
    `address` VARCHAR(200) NOT NULL COLLATE 'utf8mb4_0900_ai_ci',
    `custPassword` VARCHAR(50) NOT NULL COLLATE 'utf8mb4_0900_ai_ci',
    PRIMARY KEY (`custID`) USING BTREE
)
COLLATE='utf8mb4_0900_ai_ci'
ENGINE=InnoDB
AUTO_INCREMENT=10031;
```

5.2.3 Voucher Table - 6 records

```
CREATE TABLE `voucher` (
    `voucherID` INT(10) NOT NULL AUTO_INCREMENT,
    `voucherDescription` VARCHAR(50) NOT NULL COLLATE 'utf8mb4_0900_ai_ci',
    `voucherAmount` DOUBLE NOT NULL,
    PRIMARY KEY (`voucherID`) USING BTREE
)
COLLATE='utf8mb4_0900_ai_ci'
ENGINE=InnoDB
AUTO_INCREMENT=10007;
```

5.2.4 Product Table - 24 records

```
CREATE TABLE `product` (
    `productID` INT(10) NOT NULL AUTO_INCREMENT,
    `productName` VARCHAR(100) NOT NULL COLLATE 'utf8mb4_0900_ai_ci',
    `productDescription` VARCHAR(500) NOT NULL COLLATE 'utf8mb4_0900_ai_ci',
    `entryDate` DATE NOT NULL,
    `productQty` INT(10) NOT NULL,
```

```

`productPrice` DOUBLE NOT NULL,
`productImage` LONGBLOB NOT NULL,
PRIMARY KEY (`productID`) USING BTREE
)
COLLATE='utf8mb4_0900_ai_ci'
ENGINE=InnoDB
AUTO_INCREMENT=10025;

```

5.2.5 Transactions Table - 60 records

```

CREATE TABLE `transactions` (
  `transID` INT(10) NOT NULL AUTO_INCREMENT,
  `transDate` DATE NOT NULL,
  `shippingFees` DOUBLE NOT NULL,
  `paymentType` VARCHAR(50) NOT NULL COLLATE 'utf8mb4_0900_ai_ci',
  `shippedDate` DATE NULL DEFAULT NULL,
  `custID` INT(10) NOT NULL,
  `voucherID` INT(10) NULL DEFAULT NULL,
  `transactionStatus` VARCHAR(50) NOT NULL COLLATE 'utf8mb4_0900_ai_ci',
  PRIMARY KEY (`transID`) USING BTREE,
  INDEX `FK_transactions_customer` (`custID`) USING BTREE,
  INDEX `FK_transactions_voucher` (`voucherID`) USING BTREE,
  CONSTRAINT `FK_transactions_customer` FOREIGN KEY (`custID`) REFERENCES `wordpress`.`customer` (`custID`) ON UPDATE
NO ACTION ON DELETE NO ACTION,
  CONSTRAINT `FK_transactions_voucher` FOREIGN KEY (`voucherID`) REFERENCES `wordpress`.`voucher` (`voucherID`) ON
UPDATE NO ACTION ON DELETE NO ACTION
)
COLLATE='utf8mb4_0900_ai_ci'
ENGINE=InnoDB
AUTO_INCREMENT=10061;

```

5.2.6 TransactionDetails Table - 100 records

```

CREATE TABLE `transactiondetails` (
  `transID` INT(10) NOT NULL,

```

```

`productID` INT(10) NOT NULL,
`productQty` INT(10) NOT NULL,
`transactionSubtotalAmount` DOUBLE NOT NULL,
PRIMARY KEY (`transID`, `productID`) USING BTREE,
INDEX `FK_transactiondetails_product` (`productID`) USING BTREE,
CONSTRAINT `FK_transactiondetails_product` FOREIGN KEY (`productID`) REFERENCES `wordpress`.`product` (`productID`) ON
UPDATE NO ACTION ON DELETE NO ACTION,
CONSTRAINT `FK_transactiondetails_transactions` FOREIGN KEY (`transID`) REFERENCES `wordpress`.`transactions` (`transID`)
ON UPDATE NO ACTION ON DELETE NO ACTION
)
COLLATE='utf8mb4_0900_ai_ci'
ENGINE=InnoDB;

```

5.2.7 OrderCancellation Table - 10 records

```

CREATE TABLE `ordercancellation` (
`orderCancellationID` INT(10) NOT NULL AUTO_INCREMENT,
`cancellationStatus` VARCHAR(50) NOT NULL COLLATE 'utf8mb4_0900_ai_ci',
`requestDate` DATE NOT NULL,
`responseDate` DATE NULL DEFAULT NULL,
`cancellationReason` VARCHAR(50) NOT NULL COLLATE 'utf8mb4_0900_ai_ci',
`custID` INT(10) NOT NULL,
`staffID` VARCHAR(50) NULL DEFAULT NULL COLLATE 'utf8mb4_0900_ai_ci',
`transID` INT(10) NOT NULL,
PRIMARY KEY (`orderCancellationID`) USING BTREE,
INDEX `FK_ordercancellation_customer` (`custID`) USING BTREE,
INDEX `FK_ordercancellation_staff` (`staffID`) USING BTREE,
INDEX `FK_ordercancellation_transactions` (`transID`) USING BTREE,
CONSTRAINT `FK_ordercancellation_customer` FOREIGN KEY (`custID`) REFERENCES `wordpress`.`customer` (`custID`) ON
UPDATE NO ACTION ON DELETE NO ACTION,
CONSTRAINT `FK_ordercancellation_staff` FOREIGN KEY (`staffID`) REFERENCES `wordpress`.`staff` (`staffID`) ON UPDATE NO
ACTION ON DELETE NO ACTION,
CONSTRAINT `FK_ordercancellation_transactions` FOREIGN KEY (`transID`) REFERENCES `wordpress`.`transactions` (`transID`)
ON UPDATE NO ACTION ON DELETE NO ACTION
)
COLLATE='utf8mb4_0900_ai_ci'

```

```
ENGINE=InnoDB  
AUTO_INCREMENT=10012;
```

5.2.8 Cart Table - 1 record

```
CREATE TABLE `cart` (  
    `cartID` INT(10) NOT NULL,  
    `custID` INT(10) NOT NULL,  
    `cartTotalAmount` DOUBLE NULL DEFAULT NULL,  
    PRIMARY KEY (`cartID`) USING BTREE,  
    INDEX `FK_cart_customer` (`custID`) USING BTREE,  
    CONSTRAINT `FK_cart_customer` FOREIGN KEY (`custID`) REFERENCES `wordpress`.`customer` (`custID`) ON UPDATE NO  
ACTION ON DELETE NO ACTION  
)  
COLLATE='utf8mb4_0900_ai_ci'  
ENGINE=InnoDB;
```

5.2.9 CartItemTable Table - 0 record

```
CREATE TABLE `cartitem` (  
    `cartID` INT(10) NOT NULL,  
    `productID` INT(10) NOT NULL,  
    `qty` INT(10) NOT NULL,  
    PRIMARY KEY (`cartID`, `productID`) USING BTREE,  
    INDEX `FK_product` (`productID`) USING BTREE,  
    CONSTRAINT `FK_cart` FOREIGN KEY (`cartID`) REFERENCES `wordpress`.`cart` (`cartID`) ON UPDATE NO ACTION ON  
DELETE NO ACTION,  
    CONSTRAINT `FK_product` FOREIGN KEY (`productID`) REFERENCES `wordpress`.`product` (`productID`) ON UPDATE NO  
ACTION ON DELETE NO ACTION  
)  
COLLATE='utf8mb4_0900_ai_ci'  
ENGINE=InnoDB;
```

5.3 Azure Activity Log

The screenshot shows the Microsoft Azure Activity log interface for the 'Assignment2-Group' resource group. The left sidebar contains navigation links for Overview, Activity log (which is selected), Access control (IAM), Tags, Resource visualizer, Events, Settings (Deployments, Security, Policies, Properties, Locks), Cost Management (Cost analysis, Cost alerts (preview), Budgets, Advisor recommendations), and Monitoring (Insights (preview)). The main content area displays a table of activity logs with the following columns: Operation name, Status, Time, Time stamp, Subscription, and Event initiated by. The table lists 12 items, all of which are succeeded, occurring between Sep 02 and Sep 10, 2021, in the Azure for Students subscription, initiated by limchiachung0111@gmail.com. A 'Load more results' link is at the bottom right of the table.

Operation name	Status	Time	Time stamp	Subscription	Event initiated by
> Delete FirewallRules	Succeeded	9 minutes ago	Fri Sep 10 2021 17:51:19 GMT+0800 (Malaysia Time)	Azure for Students	limchiachung0111@gmail.com
> Write FirewallRules	Succeeded	11 minutes ago	Fri Sep 10 2021 17:48:56 GMT+0800 (Malaysia Time)	Azure for Students	limchiachung0111@gmail.com
> Delete FirewallRules	Succeeded	12 minutes ago	Fri Sep 10 2021 17:47:55 GMT+0800 (Malaysia Time)	Azure for Students	limchiachung0111@gmail.com
> Delete FirewallRules	Succeeded	12 minutes ago	Fri Sep 10 2021 17:47:54 GMT+0800 (Malaysia Time)	Azure for Students	limchiachung0111@gmail.com
> Update hosting plan	Succeeded	6 days ago	Sat Sep 04 2021 20:31:15 GMT+0800 (Malaysia Time)	Azure for Students	limchiachung0111@gmail.com
> 'auditIfNotExists' Policy action.	Succeeded	a week ago	Thu Sep 02 2021 23:36:32 GMT+0800 (Malaysia Time)	Azure for Students	limchiachung0111@gmail.com
> 'auditIfNotExists' Policy action.	Succeeded	a week ago	Thu Sep 02 2021 23:34:44 GMT+0800 (Malaysia Time)	Azure for Students	limchiachung0111@gmail.com
> Update MySQL Server Create	Succeeded	a week ago	Thu Sep 02 2021 23:27:16 GMT+0800 (Malaysia Time)	Azure for Students	limchiachung0111@gmail.com
> Validate Deployment	Succeeded	a week ago	Thu Sep 02 2021 23:24:03 GMT+0800 (Malaysia Time)	Azure for Students	limchiachung0111@gmail.com
> Validate Deployment	Succeeded	a week ago	Thu Sep 02 2021 23:23:59 GMT+0800 (Malaysia Time)	Azure for Students	limchiachung0111@gmail.com
> Validate Deployment	Succeeded	a week ago	Thu Sep 02 2021 23:13:04 GMT+0800 (Malaysia Time)	Azure for Students	limchiachung0111@gmail.com
> Update resource group	Succeeded	a week ago	Thu Sep 02 2021 23:11:23 GMT+0800 (Malaysia Time)	Azure for Students	limchiachung0111@gmail.com

Figure 78: Azure Activity Log Screenshot

6 Codes: SQL and GUI

Refer to the source code folder named **SQL_and_GUI**, all the SQL statements are included in the PHP code.

7 Conclusion

In conclusion, there are a total of 12 pages in our web application which include the home page, menu page, my purchase page, about us page, contact us page, my account page, my cart page, login page, new orders page, product page, cancellation page and payment. By using our web application, the customers can make purchases in a more convenient way. Also, the staff of SyasyaDesign is able to manage their online shop more efficiently and be more responsive to customers' enquiries. Indirectly, the competitive advantages and sales of SyasyaDesign online shop will be increased.

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