

1. Introduction

Unstoppable - “Find Your Confident Beauty and Skin Care E-Commerce Website”.

In this assignment, we have developed a web application for Unstoppable, an online store dedicated to providing a convenient and comprehensive shopping experience for Beauty and Skin Care. This e-commerce platform will cater to customers seeking to purchase a wide variety of appliances for their face and skin, especially women.

The Unstoppable Beauty and Skin Care website is made to help people find and buy beauty and skincare products easily. It shows many products, gives information about how to use them, and shares tips for healthy skin. The website is simple to use, with clear menus and beautiful pictures. Customers can read about each product, see customer reviews, and buy products online safely.

The beauty and skin care industry is experiencing a significant shift towards online purchasing. Consumers are increasingly seeking the convenience and competitive pricing offered by e-commerce platforms. Unstoppable e-commerce websites capitalize on this trend by providing a comprehensive shopping experience to the customers.

Technologies Employed:

- **Java:** Java is used as the main programming language. It is strong, can grow with the application, and works on different systems, making it a great choice for building a reliable web application..
- **Java Persistence API (JPA):** JPA makes working with data easier by allowing developers to use objects instead of writing complex SQL queries. This helps developers save time and reduce mistakes.
- **JDBC (Java Database Connectivity):** JDBC acts as a connection between the Java application and the database. It helps with retrieving, changing, and saving data in the database.
- **JavaServer Pages (JSP):** JSP allows developers to create dynamic web pages. It combines HTML, Java code (through servlets), and special tags to show content that can change based on user input.
- **Java Persistence Query Language (JPQL):** JPQL is a special query language for JPA. It helps developers write database queries using a syntax similar to SQL but made to work with objects and their relationships.

Project developed:

The Unstoppable Beauty and Skin Care e-commerce platform provides several key services to its customers, which include:

- **Product Management**
 - Comprehensive product catalog with detailed descriptions, specifications, and images.
 - Efficient addition, editing, and deletion of products by administrators.
- **Customer Management**
 - Customer registration and login functionalities
 - Secure Customer profiles for managing account details, order history and rating reply
- **Review Management**
 - A system for customers to leave reviews, rate products, and receive responses from the manager and staff.
- **Shopping Cart**
 - User-friendly interface for adding, removing, and modifying items in the shopping cart with persistence data.
- **Check Out Process**
 - Secure payment gateway integration for seamless online transactions.
 - Order confirmation and tracking functionalities.
- **Search and Filter**
 - Advanced search options allow users to find specific appliances based on criteria like category or product name.
 - Filtering options to refine search results and enhance user experience.
- **Voucher Application**
 - A feature that allows customers to apply discount vouchers or promo codes during checkout.

Benefits:

This e-commerce website will offer significant benefits to both Unstoppable and its customers:

- **For Unstoppable:**
 - Increased sales potential through a wider online customer base
 - Efficient tracking and management of stock levels, reducing the chances of overstocking or stockouts.
 - Easy to add new products, even services without major infrastructure changes
- **For Customers:**
 - Clear pricing, promotions, and discounts, making shopping more straightforward and transparent.
 - Access to product reviews and ratings to help customers make informed purchasing decisions.
 - Secure online payment processing for a streamlined checkout experience.

2. Application MVC Architecture

2.1 Customer

Model	View (JSP Page)	Controller (Servlet)
Register, Login & Logout		
Customer.java CustomerVoucher.java	Login.jsp Register.jsp	RegisterServlet.java LoginServlet.java Logout.java
Customer Dashboard		
Customer.java Voucher.java VoucherService.java	index.jsp CustomerDashboard.jsp ShoppingCart.jsp MyOrder.jsp MyReview.jsp	editCustomer.java
Home Page		
	index.jsp	
Add To Cart Page		
Cart.java CartService	ShoppingCart.jsp	AddToCart.java updateCart.java DeleteCart.java
Product Page		
	ProductPage.jsp	
Checkout Page		
Voucher.java VoucherService.java	checkout.jsp	Checkout.java appliedVoucher.java
Order Successful Page		
ReceiptDetail.java ReceiptService.java	ReceiptView.jsp	CompleteOrder.java
Review Page		
ReviewService.java ProductDa.java	ProductReviewDisplay.jsp MyReview.jsp ThankYou.jsp	ReviewDisplay.java submitReview.java

2.2 Staff

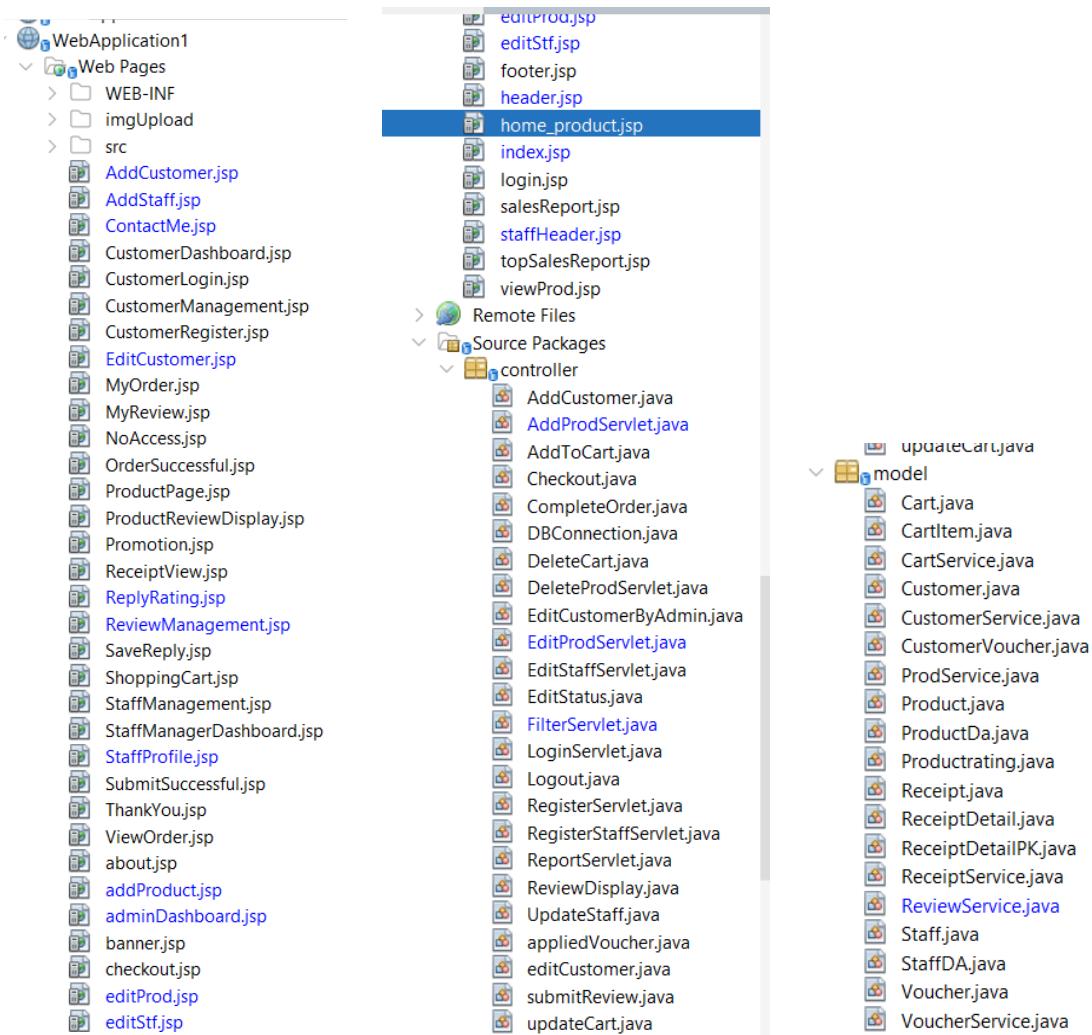
Model	View (JSP Page)	Controller (Servlet)
Login & Logout		
Product.java ProductDa.java	Login.jsp adminDashboard.jsp	LoginServlet.java Logout.java
Customer Management		
Customer.java	CustomerManagement.jsp AddCustomer.jsp EditCustomer.jsp	EditCustomerByAdmin.java AddCustomer.java CustomerService.java
Product Management		
Product.java ProdService.java ProductDa.java	addProduct.jsp editProd.jsp viewProd.jsp	AddProdServlet.java DeleteProdServlet.java EditProdServlet.java EditStatus.java FilterServlet.java
Staff Profile		
StaffDa.java Staff.java	StaffProfile.jsp	UpdateStaff.java
Review		
Productrating	ReviewManagement.jsp ReplyRating.jsp	SaveReply.jsp

2.3 Manager

Model	View (JSP Page)	Controller (Servlet)
Login & Logout		
Product.java ProductDa.java	Login.jsp adminDashboard.jsp	LoginServlet.java Logout.java
Customer Management		
Customer.java	CustomerManagement.jsp AddCustomer.jsp EditCustomer.jsp	EditCustomerByAdmin.java AddCustomer.java CustomerService.java
Product Management		
Product.java ProdService.java ProductDa.java	addProduct.jsp editProd.jsp viewProd.jsp	AddProdServlet.java DeleteProdServlet.java EditProdServlet.java EditStatus.java FilterServlet.java
Staff Management		
StaffDa.java Staff.java	StaffManagement.jsp AddStaff.jsp editStf.jsp	EditStaffServlet.java RegisterStaffServlet.java
Review Management		
Productrating	ReviewManagement.jsp ReplyRating.jsp	SaveReply.jsp
Report		
ProductDa	topSalesReport.jsp salesReport.jsp	ReportServlet.java

2.4 Screenshot of Folder Structure

The below is the file system structure for our project.



3. Assignment Screenshots and Descriptions

Original Database

1. Customer

The screenshot shows a database interface with a tree view on the left. Under the 'CUSTOMER' node, there are six columns: CUSTID, CUSTNAME, CUSTCONTACTNO, CUSTEMAIL, CUSTUSERNAME, and CUSTPSWD. Below this, two tables are displayed: one for customer details and another for user credentials.

#	CUSTID	CUSTNAME	CUSTCONTACTNO	CUSTEMAIL
1	cus001	Jimmy Wong	0123567890	jimmywong@gmail.com
2	cus002	Jayden Yap	0198765321	jaydenyap@gmail.com
3	cus003	Siti Aminah	0112223456	siti.aminah@email.com
4	cus004	David Lee	0167778901	david.lee@email.com
5	cus005	Priya Sharma	0182345678	priya.sharma@email.com
6	cus006	Tan Bing	0112537823	tbing123@gmail.com

CUSTUSERNAME	CUSTPSWD
jimmywong	jimmy987
jaydenyap	jayden987
siti_aminah	siti123
davidlee	david456
priya_sharma	priya789
tbing123	tbing123

This is our customer table, which includes custId(customer id), custName(customer name), custContactNo(customer contact number), custEmail(customer email), custUsername(customer username) and custPswd(customer password).

2. Product

The screenshot shows a database interface with a tree view on the left. Under the 'PRODUCT' node, there are eight columns: PRODUCTID, PRODUCTNAME, IMGLOCATION, PRICE, QUANTITY, CATEGORY, PRODUCTDESCRIPTION, and STATUS.

PRODUCTID	PRODUCTNAME	IMGLOCATION	PRICE	QUANTITY	CATEGORY	PRODUCTDESCRIPTION	STATUS
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SELECT * FROM NBUSER.PROD...

#	PRODUCTID	PRODUCTNAME	IMGLOCATION	PRICE	QUANTITY	CATEGORY
1	prod001	Biodance Face Mask	prod001.jpg	35.00	100	Skin Care
2	prod002	Laneige Lip Sleeping Mask	prod002.jpg	100.00	49	Skin Care
3	prod003	NARS Velvet Lipstick	prod003.jpg	90.00	80	Skin Care
4	prod004	Innisfree Green Tea Serum	prod004.jpg	85.50	200	Skin Care
5	prod005	Some By Mi AHA.BHA.PHA Toner	prod005.jpg	60.00	150	Skin Care
6	prod006	Klavuu Nourishing Face Oil	prod006.jpg	120.00	60	Skin Care
7	prod007	COSRX Advanced Snail 96 Mucin Power Esse...	prod007.jpg	75.00	89	Skin Care
8	prod008	The Ordinary Niacinamide 10% + Zinc 1%	prod008.jpg	55.00	110	Skin Care
9	prod009	Dr. Jart+ Cicapair Tiger Grass Cream	prod009.jpg	110.00	70	Skin Care
10	prod010	SK-II Facial Treatment Essence	prod010.jpg	290.00	40	Skin Care
11	prod011	MAC Studio Fix Powder Plus Foundation	prod011.jpg	130.00	70	Make Up
12	prod012	Huda Beauty Faux Filter Foundation	prod012.jpg	150.00	60	Make Up
13	prod013	MAC Cream Blush	prod013.jpg	90.00	73	Make Up

CATEGORY	PRODUCTDESCRIPTION	STATUS
Skin Care	Function: Face, Overnight; Skin Type: Com...	1
Skin Care	Overnight lip treatment mask.	1
Skin Care	Long-lasting matte lipstick with intense col...	1
Skin Care	Hydrating serum with green tea extract.	1
Skin Care	Exfoliating toner for acne-prone skin.	1
Skin Care	Facial oil with Korean pearl extract.	1
Skin Care	Repairing essence that helps with skin reg...	1
Skin Care	Reduces the appearance of blemishes and...	1
Skin Care	Soothing cream that calms sensitive and ir...	1
Skin Care	Pore-refining essence for crystal clear skin.	1
Make Up	Full coverage powder foundation for a mat...	1
Make Up	High coverage liquid foundation with a fla...	1
Make Up	Creamy blush for a natural flush of color.	1

This is our product table, which includes productId, productName, imgLocation, price, quantity, category, productDescription and status.

3. Staff

▼ STAFF

STAFFID	STFNAME	STFEMAIL	STFCONTACTNO	STFPOSITION	STFUSERNAME	STFPSWD
stf001	Kai Xin	kx456789@gmail.com	0121235678	Manager	Kaixin	lx555
stf002	Karena Tan	karenatan@gmail.com	0123456789	Sales	Karena	karena123
stf003	Faris Bin Jamal	farisj@gmail.com	0161335698	Customer Service	faris	faris123
stf004	Aina Binti Ahmad	aina@gmail.com	0191229698	Sales	aina	aina123

SELECT * FROM NBUSER.STAF...

#	STAFFID	STFNAME	STFEMAIL	STFCONTACTNO	STFPOSITION	STFUSERNAME	STFPSWD
1	stf001	Kai Xin	kx456789@gmail.com	0121235678	Manager	Kaixin	lx555
2	stf002	Karena Tan	karenatan@gmail.com	0123456789	Sales	Karena	karena123
3	stf003	Faris Bin Jamal	farisj@gmail.com	0161335698	Customer Service	faris	faris123
4	stf004	Aina Binti Ahmad	aina@gmail.com	0191229698	Sales	aina	aina123

This is our staff table, which includes staffId(staff id), stfName(staff name), stfEmail(staff email), stfContactNo(staff contact number), stfPosition(staff position), stfUsername(staff username) and stfPwsd(staff password).

4. Cart

▼ CART

- CARTID
- CUSTID
- CHECKOUTSTATUS

SELECT * FROM NBUSER.CART... ×

#	CARTID	CUSTID	CHECKOUTSTATUS
1	cart001	cus001	<input checked="" type="checkbox"/>
2	cart002	cus001	<input type="checkbox"/>
3	cart003	cus002	<input checked="" type="checkbox"/>
4	cart004	cus003	<input checked="" type="checkbox"/>
5	cart005	cus006	<input checked="" type="checkbox"/>
6	cart006	cus006	<input checked="" type="checkbox"/>

Max. rows: 100 | Fetched Rows: 7 | Matching Rows: []

This is our cart table, which includes cartId, custId(foreign key connected to customer table) and checkOutStatus.

5. Cart_Item

▼ CART_ITEM

- CARTITEMID
- CARTID
- PRODUCTID
- QUANTITYPURCHASED
- PRICE

SELECT * FROM NBUSER.CART... ×

#	CARTITEMID	CARTID	PRODUCTID	QUANTITYPURCHASED	PRICE
1	itm001	cart001	prod001	3	105.00
2	itm002	cart001	prod002	1	100.00
3	itm003	cart003	prod003	2	180.00
4	itm004	cart004	prod004	1	85.50
5	itm005	cart004	prod005	5	300.00
6	itm006	cart005	prod002	1	100.00
7	itm007	cart005	prod013	7	90.00

Max. rows: 100 | Fetched Rows: 13 | Matching Rows: []

This is our cart_item table, which includes cartItemId, cartId, productId, quantityPurchased and price.

6. Receipt

RECEIPT

RECEIPTID
CARTID
CREATIONTIME
SUBTOTAL
DISCOUNT
TAX
SHIPPING
TOTAL
VOUCHER_CODE

SELECT * FROM NBUSER.RECE...

#	RECEIPTID	CARTID	CREATIONTIME	SUBTOTAL	DISCOUNT	TAX	SHIPPIN	TOTAL	VOUCHER_CODE
1	re00001	cart001	2025-03-11 15:00:00.000	205.00	10.00	12.30	10.00	217.30	BEAUTY10
2	re00002	cart003	2025-03-12 16:30:00.000	180.00	0.00	10.80	10.00	200.80	<NULL>
3	re00003	cart004	2025-03-15 10:30:00.000	385.50	20.00	23.13	0.00	388.63	FREESHIP
4	re00004	cart005	2025-04-28 09:08:00.975	1085.00	20.00	65.10	0.00	1130.10	RM350OFF20

This is our receipt table, which includes receiptId, cartId, creationTime, subTotal, discount, tax, shipping, total and voucher_code.

7. Receipt_Details

RECEIPT_DETAIL

RECEIPTID
PRODUCTID
QUANTITY
PRICE

SELECT * FROM NBUSER.RECE...

#	RECEIPTID	PRODUCTID	QUANTITY	PRICE
1	re00001	prod001	3	105.00
2	re00001	prod002	1	100.00
3	re00002	prod003	2	180.00
4	re00003	prod004	1	85.50
5	re00003	prod005	5	300.00
6	re00004	prod002	1	100.00
7	re00004	prod013	7	90.00

This is our receipt_details table, which includes receiptId, productId, quantity and price.

8. Product_Rating

PRODUCTRATING

- RATINGID
- RECEIPTID
- PRODUCTID
- RATINGDATE
- SATISFACTION
- COMMENT
- REPLY

#	RATINGID	RECEIPTID	PRODUCTID	RATINGDATE	SATISFACTION
1	rat001	re00004	prod001	2025-04-28 12:09:19.569	5

COMMENT	REPLY
GOOOD My Sis like it.	Hey Is really nice to know this!

This is our product rating table, which includes ratingId, receiptId, productId, ratingDate, satisfaction, comment and reply.

9. Voucher

VOUCHER

- VOUCHERID
- CUSTID
- CODE
- DISCOUNT
- MINSPEND
- EXPIRYDATE
- USED

SELECT * FROM NBUSER.VOUC...							
Max. rows: 100 Fetched Rows: 15 Matching Rows:							
#	VOUCHERID	CUSTID	CODE	DISCOUNT	MINSPEND	EXPIRYDATE	USED
1	voucher_rm200_cus006	cus006	RM200OFF10	10.00	200.00	2025-07-28	<input checked="" type="checkbox"/>
2	voucher_rm350_cus006	cus006	RM350OFF20	20.00	350.00	2025-07-28	<input checked="" type="checkbox"/>
3	voucher_first_cus006	cus006	FIRSTORDER10	10.00	0.00	2025-07-28	<input type="checkbox"/>

This is our voucher table, which includes voucherId, custId, code, discount, minSpend, expiryDate and used.

Guest Mode

When a guest (not logged in) visits the website, the main page (index.jsp) will be shown as below.

The screenshot shows the homepage of the Unstoppable website. At the top, there is a navigation bar with links for "Home", "Product", and "Review". On the far right of the navigation bar are icons for user profile, shopping cart, and a search bar with the placeholder "Search products...". Below the navigation bar is a large, ornate banner featuring a pink orchid flower and makeup brushes on a light background. A small "Explore More" button is visible in the bottom left corner of the banner. The main content area is titled "OUR CURRENT OFFERS" and contains three promotional sections: "FREE SHIPPING" (with a red circular icon containing a truck), "JOIN THE MEMBERSHIP" (with a red rectangular card labeled "RM10 Cash Voucher"), and "YOUR MONTHLY GIFTS" (with an image of a red gift box). Each offer includes a brief description and a "SHOP NOW" or "SIGNUP NOW" button.

Unstoppable

Home Product Review

Search products...

Explore More

OUR CURRENT OFFERS

FREE SHIPPING

Enjoy free delivery when you shop for RM1000 or more. No hidden fees—just a great deal for you!

*T&Cs apply

JOIN THE MEMBERSHIP

Get RM10 off your first order with no minimum spend! Enjoy member benefits and discounts.

*While stocks last. T&Cs apply.

YOUR MONTHLY GIFTS

Free More Voucher RM200OFF10 and RM350OFFF20 when you register

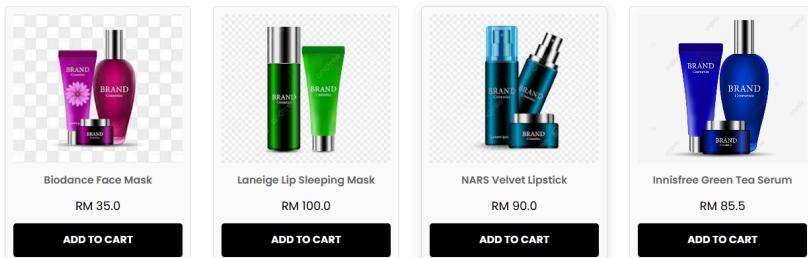
*While stocks last. T&Cs apply.

SHOP NOW

SIGNUP NOW

SHOP NOW

DISCOVER OUR BESTSELLERS & NEW ICONS



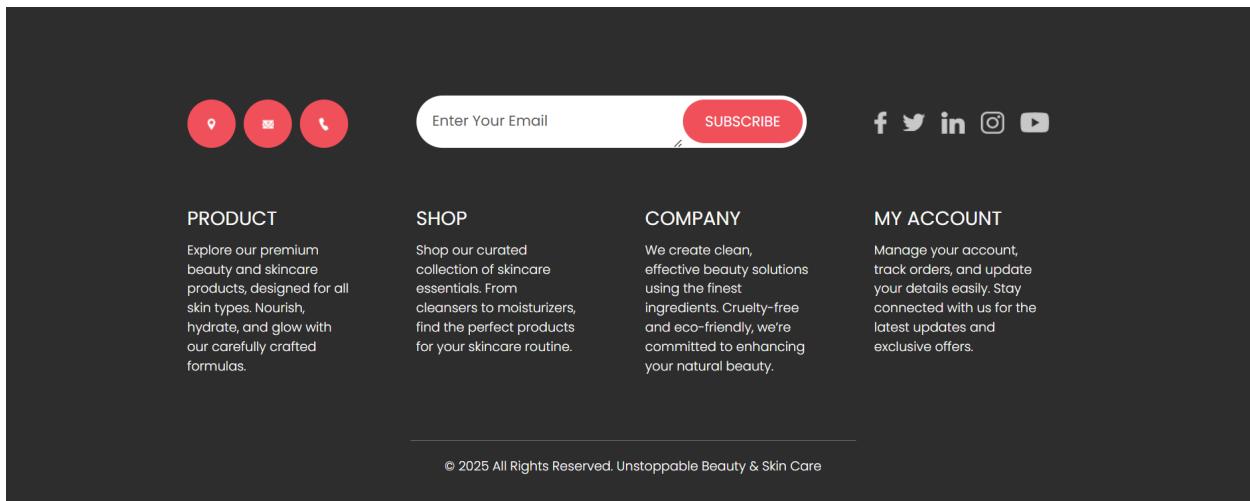
[VIEW ALL PRODUCTS](#)



ABOUT COMPANY

At Unstoppable Beauty, we believe in empowering your natural beauty with the finest skincare and beauty products. Our curated collection features top-quality skincare solutions, makeup, and wellness essentials designed to enhance your radiance and restore confidence. Whether you're looking for nourishing skincare, innovative beauty tools, or the latest beauty trends, we offer a range of products to suit every need. Join us on a journey to healthier, glowing skin!

[Read More](#)



If a guest tries to add an item to the cart, the system will show a message saying "Please log in to add items to your cart." After that, the guest will be redirected to the login page automatically.

Enjoy free delivery when you shop for RM1000 or more.
No hidden fees—just a great deal for you!

*T&Cs apply

[SHOP NOW](#)

localhost:8080 says

Please log in to add items to your cart.

[OK](#)

Free More Voucher
RM200OFF10 and RM350OFF20
when you register

*While stocks last. T&Cs apply.

[SHOP NOW](#)

DISCOVER OUR BESTSELLERS & NEW ICONS



Biocance Face Mask
RM 35.0

[ADD TO CART](#)



Laneige Lip Sleeping Mask
RM 100.0

[ADD TO CART](#)



NARS Velvet Lipstick
RM 90.0

[ADD TO CART](#)



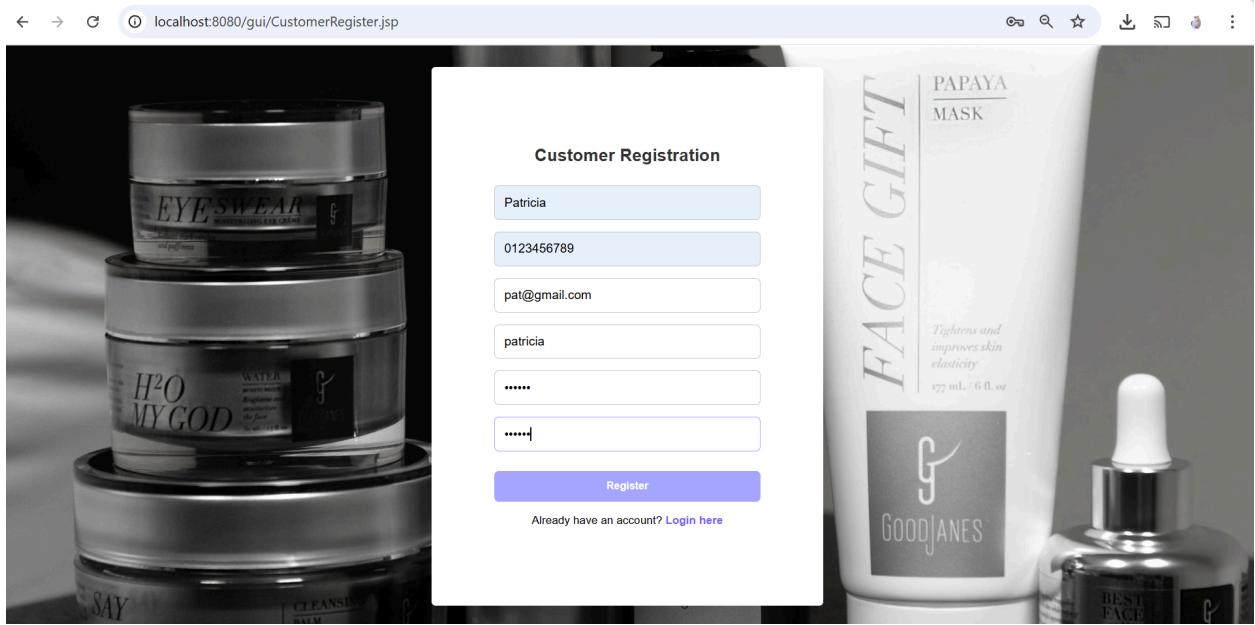
Innisfree Green Tea Serum
RM 85.5

[ADD TO CART](#)

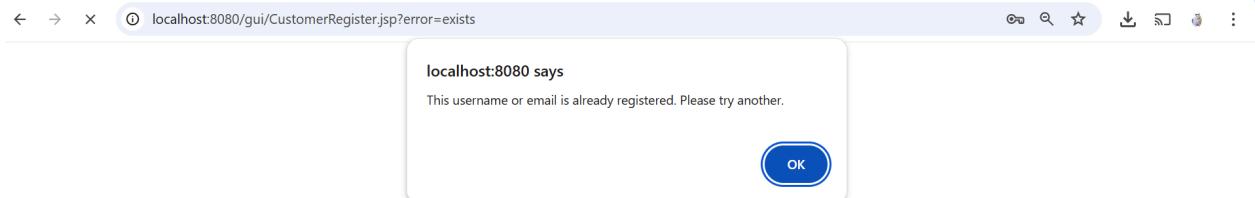
[VIEW ALL PRODUCTS](#)

Customer Mode

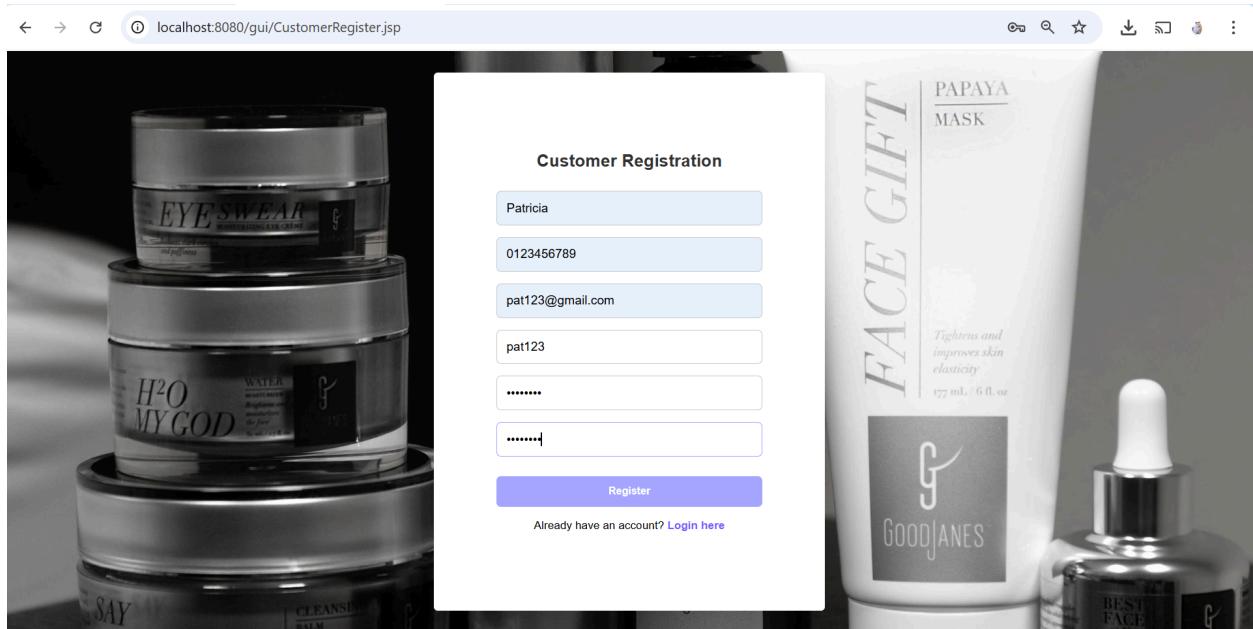
If a customer is new and has not registered yet, they need to create an account.



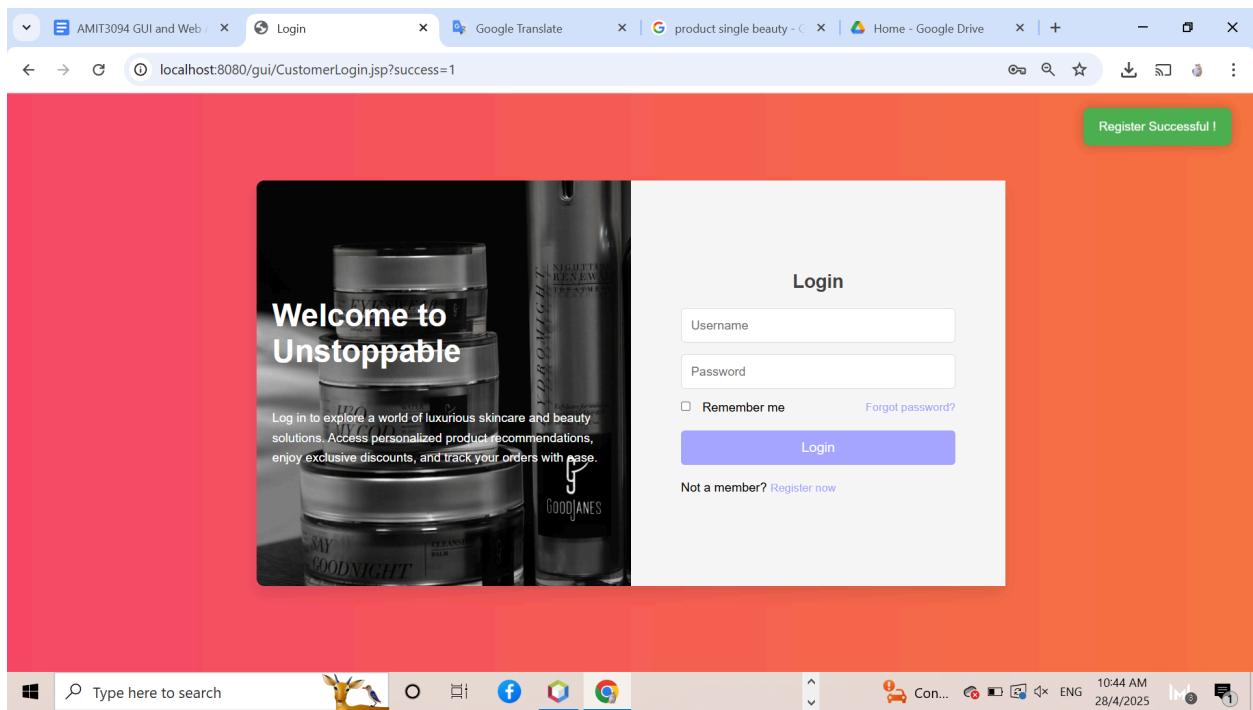
When a user tries to register with a username like "patricia" or an email like "pat@gmail.com" that is already used, the system will display "Username or email is already registered."



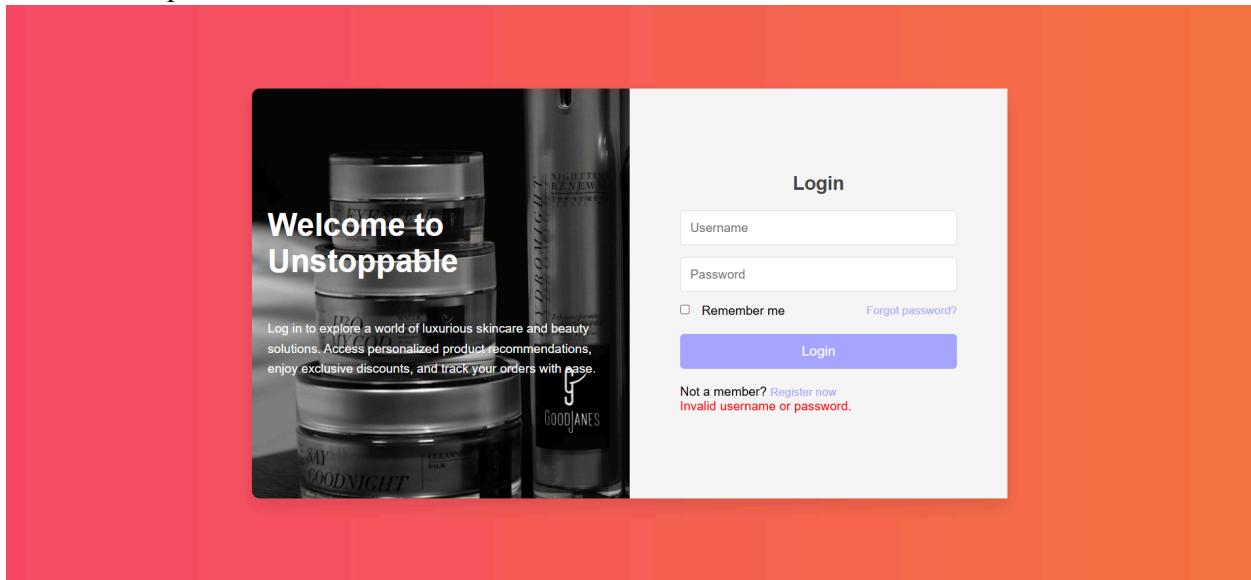
The user can change the username or email and click the register button again.



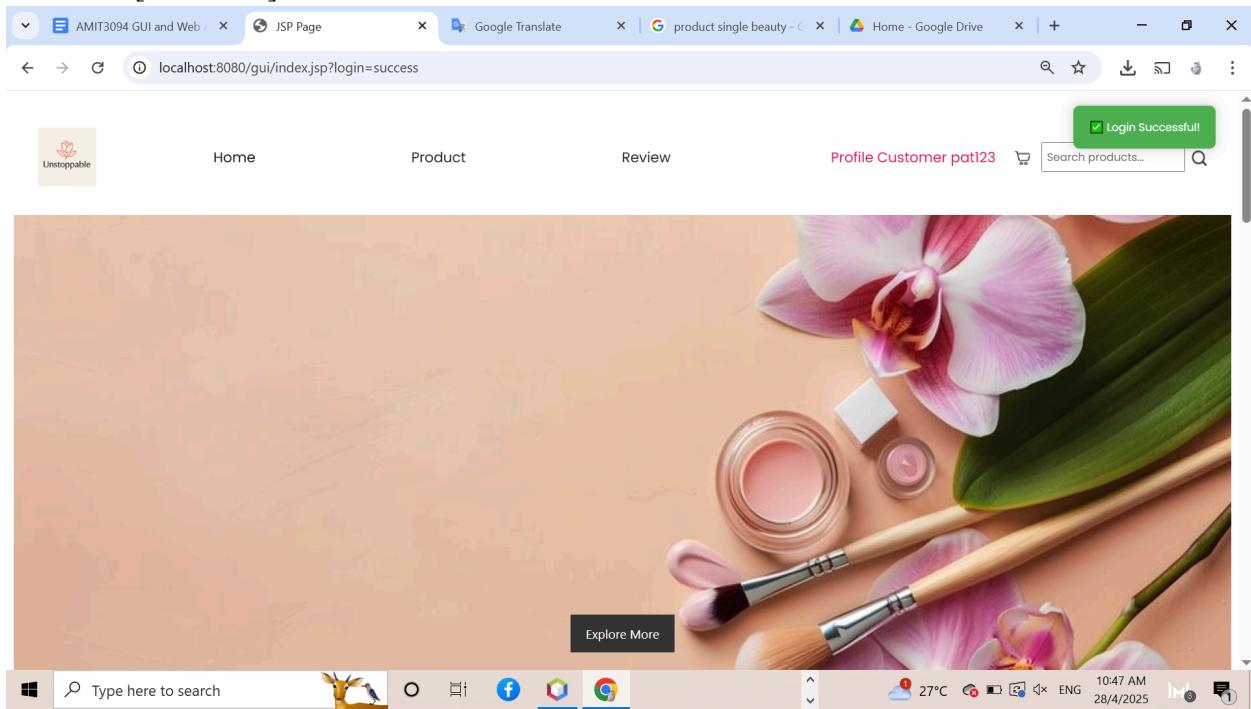
If registration is successful, a "Register Successful!" message will pop up at the top right corner.



When a user enters the wrong username or password during login, the system will show "Invalid username or password."



If the correct username and password are entered, the system will update the user logo to "Profile Customer [username]."



When the customer clicks on their profile, they can quickly access My Cart, My Order, My Reviews, and display their unused vouchers and account settings.

The screenshot shows a browser window with multiple tabs open. The active tab is 'Customer Dashboard' at 'localhost:8080/gui/CustomerDashboard.jsp'. The page displays a welcome message 'Welcome, Patricia!' and a form for updating profile details. Below the form is a 'Quick Access' section with links to 'My Cart' (3 items), 'My Orders' (0 items), 'My Reviews' (0 items), and 'My Vouchers'. The 'My Vouchers' section lists three available vouchers with codes and discounts. The browser's taskbar at the bottom shows various pinned icons and the system date/time.

After logging in, the customer can start shopping on the Unstoppable Beauty and Skin Care e-commerce site.

The screenshot shows a browser window with the URL 'localhost:8080/gui/ProductPage.jsp'. The page has a header with a logo, navigation links for 'Home', 'Product', and 'Review', and a search bar. The main content area is titled 'All Products' and features a search bar and category filters ('ALL', 'MAKEUP', 'SKINCARE'). Below are six product cards:

- Biodance Face Mask**: RM 35.0, Stock left: 100, Rating: ★★★★☆ (0.0) - 0 reviews. Add to Cart button.
- Laneige Lip Sleeping Mask**: RM 100.0, Stock left: 49, Rating: ★★★★☆ (5.0) - 1 review. Add to Cart button.
- NARS Velvet Lipstick**: RM 90.0, Stock left: 80, Rating: ★★★★☆ (0.0) - 0 reviews. Add to Cart button.
- Innisfree Green Tea Serum**: RM 85.5, Stock left: 200, Rating: ★★★★☆ (0.0) - 0 reviews. Add to Cart button.
- Some By Mi AHA.BHA.PHA Toner**: RM 60.0, Stock left: 150, Rating: ★★★★☆ (0.0) - 0 reviews. Add to Cart button.
- Klavuu Nourishing Face Oil**: RM 120.0, Stock left: 60, Rating: ★★★★☆ (0.0) - 0 reviews. Add to Cart button.

They can filter products by category like "Make Up" or "Skin Care."

The screenshot shows a web browser window with multiple tabs open. The active tab displays a product listing titled 'All Products' under the 'MAKEUP' category. The page includes a search bar and filters for 'ALL', 'MAKEUP', and 'SKINCARE'. Six makeup products are listed in a grid:

Product	Price	Stock Left	Rating
MAC Studio Fix Powder Plus Foundation	RM 130.0	Stock left: 70	★☆☆☆☆ (0.0) · 0 reviews
Huda Beauty Faux Filter Foundation	RM 150.0	Stock left: 60	★★★★★ (0.0) · 0 reviews
MAC Cream Blush	RM 90.0	Stock left: 73	★★★★★ (1.0) · 1 review
MAC Ruby Woo Lipstick	RM 95.0	Stock left: 100	★★★★★ (0.0) · 0 reviews
Etude House Lovely Cookie Blusher	RM 45.0	Stock left: 90	★★★★★ (0.0) · 0 reviews
NARS Blush Palette	RM 180.0	Stock left: 50	★★★★★ (0.0) · 0 reviews

Each product card includes an 'Add to Cart' button. The browser's taskbar at the bottom shows various pinned icons and the date/time: 10:52 AM 28/4/2025.

The screenshot shows a web browser window with multiple tabs open. The active tab displays a product listing titled 'All Products' under the 'SKINCARE' category. The page includes a search bar and filters for 'ALL', 'MAKEUP', and 'SKINCARE'. Six skincare products are listed in a grid:

Product	Price	Stock Left	Rating
Biodiance Face Mask	RM 35.0	Stock left: 100	★★★★★ (0.0) · 0 reviews
Laneige Lip Sleeping Mask	RM 100.0	Stock left: 49	★★★★★ (5.0) · 1 review
NARS Velvet Lipstick	RM 90.0	Stock left: 80	★★★★★ (0.0) · 0 reviews
Innisfree Green Tea Serum	RM 85.5	Stock left: 200	★★★★★ (0.0) · 0 reviews
Some By Mi AHA.BHA.PHA Toner	RM 60.0	Stock left: 150	★★★★★ (0.0) · 0 reviews
Klauuu Nourishing Face Oil	RM 120.0	Stock left: 60	★★★★★ (0.0) · 0 reviews

Each product card includes an 'Add to Cart' button. The browser's taskbar at the bottom shows various pinned icons and the date/time: 10:52 AM 28/4/2025.

When they search for a keyword like "mac," the related products will appear.

The screenshot shows a web browser window with multiple tabs open. The active tab is 'localhost:8080/gui/ProductPage.jsp'. The page displays a search interface with a search bar containing 'mac'. Below the search bar are three product categories: ALL, MAKEUP, and SKINCARE. The 'ALL' category is selected. Three products are listed:

- MAC Studio Fix Powder Plus Foundation** RM 130.0 Stock left: 70 ★★★★★ (0.0) · 0 reviews **Add to Cart**
- MAC Cream Blush** RM 90.0 Stock left: 73 ★★★★☆ (1.0) · 1 review **Add to Cart**
- MAC Ruby Woo Lipstick** RM 95.0 Stock left: 100 ★★★★★ (0.0) · 0 reviews **Add to Cart**

The browser's taskbar at the bottom shows various pinned icons and the system clock indicating 10:53 AM on 28/4/2025.

Clicking on a product image will show the product details.

The screenshot shows the same web browser window after clicking on the MAC Cream Blush product image. The product details are now displayed prominently in the center of the screen:

MAC Cream Blush RM 90.00
Creamy blush for a natural flush of color.
★★★★☆ (1.0) **Add to Cart**

The background of the page is dark gray, and the other two products from the previous screenshot are visible in smaller boxes below the main product detail.

The browser's taskbar at the bottom shows various pinned icons and the system clock indicating 10:54 AM on 28/4/2025.

In the shopping cart page, customers can see the estimated subtotal, tax, and shipping fee. If the Subtotal is less than RM1000, the shipping fee is RM25.

Product	Price (RM)	Quantity	Subtotal (RM)	Action
MAC Studio Fix Powder Plus Foundation (prod011)	130.00	- 1 +	130.00	Delete
MAC Cream Blush (prod013)	90.00	- 1 +	90.00	Delete
Zoya Rose Golden Brush Set (prod019)	160.00	- 1 +	160.00	Delete
			Subtotal:	380.00
			Sales Tax (6%):	22.80
			Shipping:	25.00
			Total:	427.80

[Back to Continue Shopping](#) [Check Out](#)

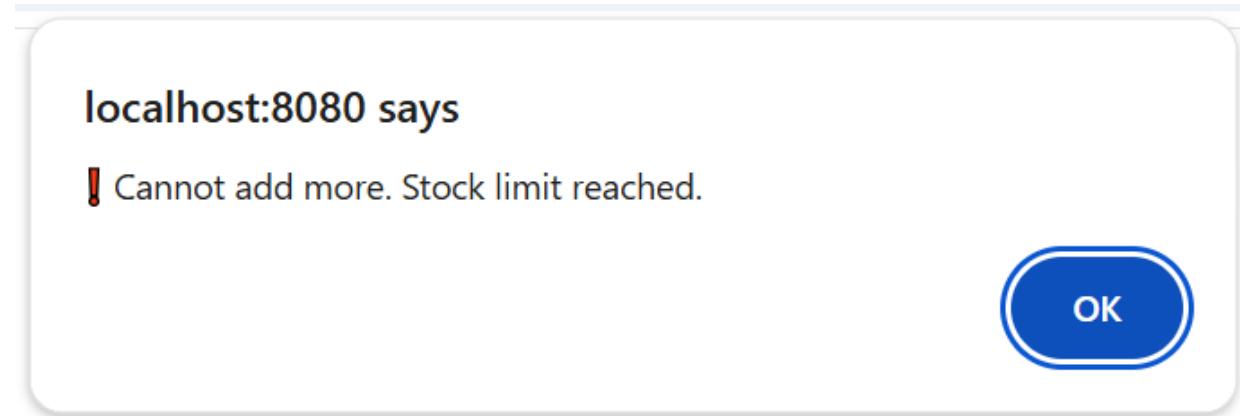
If the Subtotal is RM1000 or more, shipping is free.

Customers can click "Back to Continue Shopping" to add more items or "Check Out" to proceed with payment.

Product	Price (RM)	Quantity	Subtotal (RM)	Action
MAC Studio Fix Powder Plus Foundation (prod011)	130.00	- 2 +	260.00	Delete
MAC Cream Blush (prod013)	90.00	- 2 +	180.00	Delete
Zoya Rose Golden Brush Set (prod019)	160.00	- 4 +	640.00	Delete
			Subtotal:	1080.00
			Sales Tax (6%):	64.80
			Shipping: (Free over RM1000)	0.00
			Total:	1144.80

[Back to Continue Shopping](#) [Check Out](#)

Besides, If a customer attempts to add a quantity that exceeds the available stock, the system must prevent the addition and display a "Cannot add more. Stock limit reached." message.



On the checkout page:

Customers can apply valid vouchers and choose payment methods.
They must also fill in contact information and shipping address.

A screenshot of a Microsoft Edge browser window showing a "Checkout" page. The left side displays a "Your Cart" section with three items: "MAC Studio Fix Powder Plus Foundation" (2x), "MAC Cream Blush" (2x), and "Zoëva Rose Golden Brush Set" (4x). The right side contains a form for payment and shipping information. The payment method dropdown is set to "Select a payment method". Below it are fields for "Full Name", "Email", and "Phone". The "Shipping Address" section includes fields for "Street Address", "City", "Postal Code", and "State". A "Place Order" button is located at the bottom of the form. The browser's taskbar at the bottom shows various open tabs and system icons.

If a voucher is invalid, an error message will appear.

The screenshot shows a checkout page for a shopping cart. The cart contains three items: MAC Studio Fix Powder Plus Foundation (2x), MAC Cream Blush (2x), and Zoeva Rose Golden Brush Set (4x). The total amount is RM 1144.80. A search bar at the top has 'dfsdfs' entered. Below it, a message says 'Invalid voucher code or voucher has expired.' The payment method dropdown is set to 'Select a payment method'. The right side of the screen shows shipping address fields: Street Address, City, Postal Code, and State, each with a required asterisk (*).

If a voucher is valid, the discount will be applied.

The screenshot shows the same checkout page after applying a valid voucher code. The search bar now shows 'FIRSTORDER10'. A green success message at the bottom left of the cart area says '✓ Voucher applied successfully!'. The total amount has been updated to RM 1134.80, reflecting a RM 10.00 discount. The payment method dropdown is now expanded, showing options like Debit/Credit Card, Touch 'n Go, and Online Banking. The rest of the page layout remains the same, including the shipping address fields on the right.

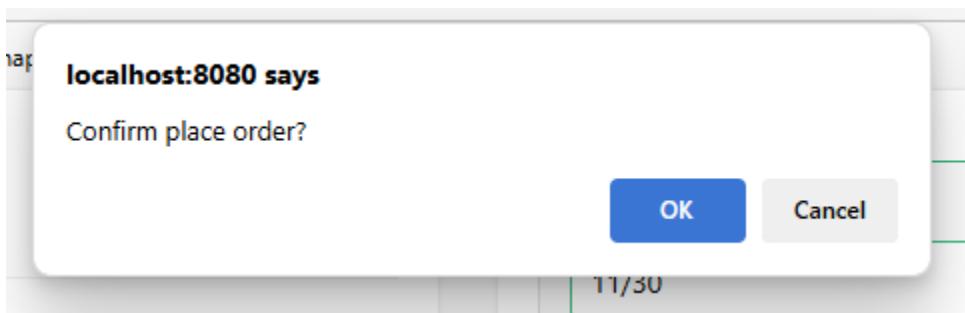
This checkout page also has to validate the card function.

The screenshot shows a checkout interface on a Windows desktop. The left side displays a cart with three items: MAC Studio Fix Powder Plus Foundation (RM 130.00), MAC Cream Blush (RM 90.00), and ZOEVA Rose Golden Brush Set (RM 160.00). A coupon code 'FIRSTORDER10' is applied, resulting in a subtotal of RM 1080.00, shipping of RM 0.00, a discount of RM 10.00, and a total of RM 1134.80. The right side contains a payment form for a Debit/Credit Card. The card number field is filled with '4242 4242 4242 3333', which is highlighted in red with the message 'Invalid card number'. Other fields include Expiry Date (11/24) and CVV (1), both of which are also highlighted in red with their respective validation errors ('Invalid expiry date' and 'Invalid CVV'). The name on card field is empty and highlighted in red with the message 'Name required'. Below the payment form, there are fields for Full Name (Patricia), Email, and Phone, all of which are currently empty. At the bottom, there is a 'Shipping Address' section which is also empty. The taskbar at the bottom shows various open applications like WhatsApp, Google Translate, and Assignment Project, along with system icons for battery, temperature (30°C), and network.

After the customer applied their valid voucher, and then filled out payment information and shipping address. To confirm order, Customer can click the “Place Order” Button to complete payment.

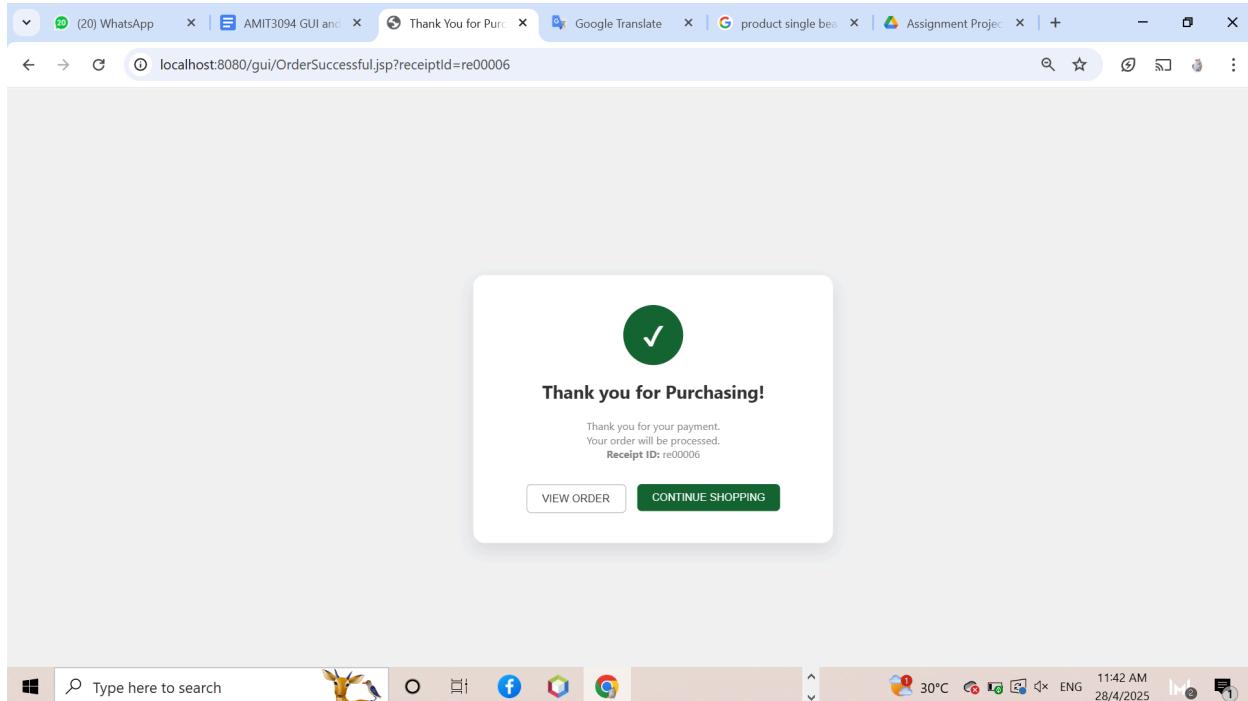
The screenshot shows a checkout interface for a shopping cart. The cart contains three items: MAC Studio Fix Powder Plus Foundation (RM 130.00), MAC Cream Blush (RM 90.00), and Zoëva Rose Golden Brush Set (RM 160.00). A voucher code 'FIRSTORDER10' has been applied, resulting in a discount of RM 10.00. The total amount is RM 114.80. The payment method is set to 'Debit/Credit Card'. The shipping address is entered as Street Address: TARUMT, City: SETAPAK, Postal Code: 53320, and State: Selangor. The 'Place Order' button is visible at the bottom right.

The System will ask the customer “Confirm place order”?

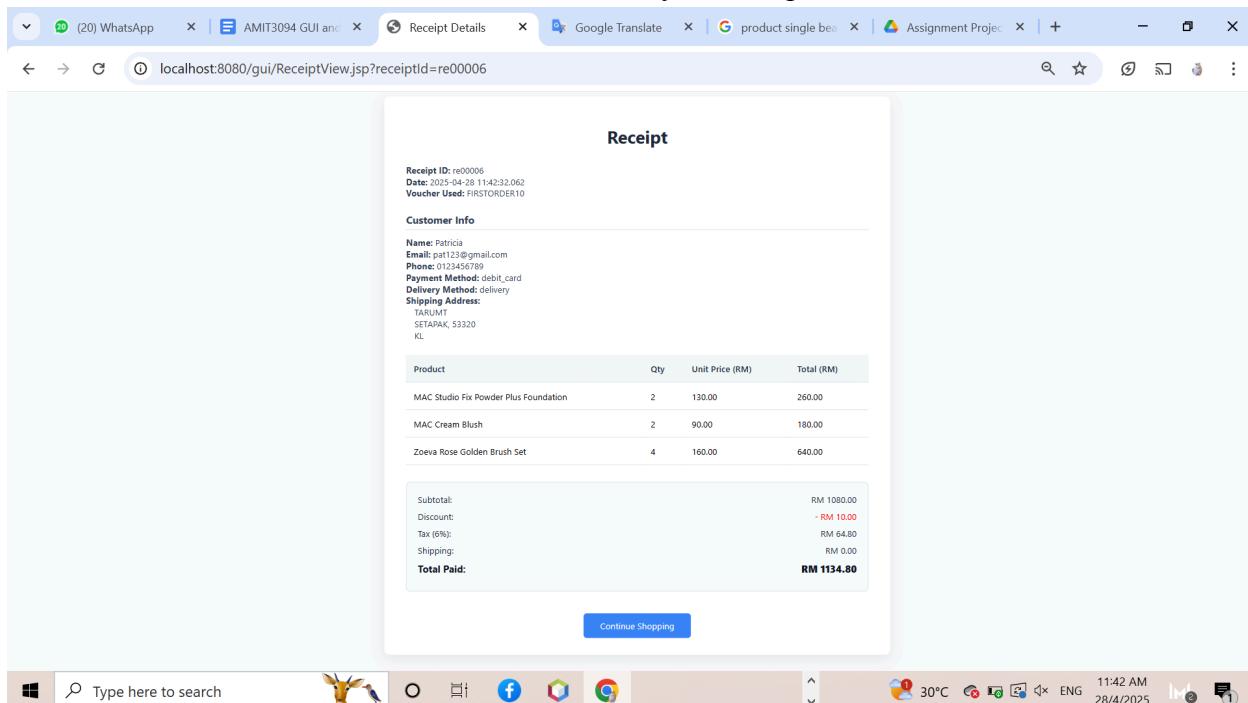


When customer click ok to complete the order:

A confirmation and "Thank You" message will appear.

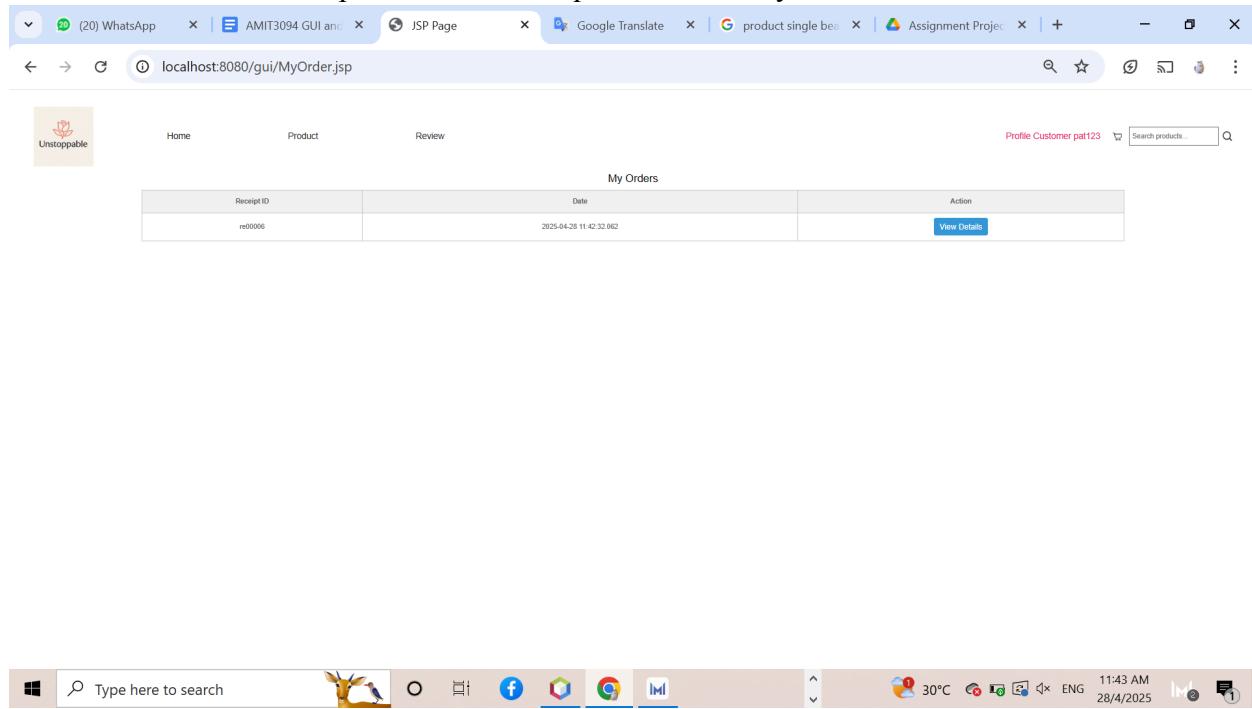


Customers can click "View Order" to see a summary of their purchase.



On the Customer Dashboard:

Customers can view their past orders at the quick access “My Orders”



The screenshot shows a web browser window with multiple tabs open. The active tab is titled "localhost:8080/gui/MyOrder.jsp". The page displays a header with the brand logo "Unstoppable" and navigation links for "Home", "Product", and "Review". On the right, there is a search bar with the placeholder "Search products..." and a profile link "Profile Customer pat123". Below the header is a table titled "My Orders" with three columns: "Receipt ID", "Date", and "Action". A single row is present in the table, showing "re00006" in the Receipt ID column and "2025-04-28 11:42:52.062" in the Date column. The Action column contains a blue button labeled "View Details". At the bottom of the screen, the Windows taskbar is visible, featuring the Start button, a search bar with the text "Type here to search", and various system icons.

My Orders		
Receipt ID	Date	Action
re00006	2025-04-28 11:42:52.062	View Details

Clicking "View Details" will show product details and allow them to write a review if they have purchased the product.

localhost:8080/gui/ViewOrder.jsp?receiptId=re00006

Profile Customer pat123

Search products...

Order Summary				
Product	Price (RM)	Quantity	Subtotal (RM)	Action
MAC Studio Fix Powder Plus Foundation	130.00	2	260.00	<button>Write a Review</button>
MAC Cream Brush	90.00	2	180.00	<button>Write a Review</button>
Zoeva Rose Golden Brush Set	160.00	4	640.00	<button>Write a Review</button>
			Subtotal: RM 1080.00	
			Voucher Applied: FIRSTORDER10 - RM 10.00	
			Sales Tax (6%): RM 64.80	
			Shipping: (Free over RM1000) RM 0.00	
			Total Paid: RM 1134.80	

Type here to search

Profile Customer pat123

Search products...

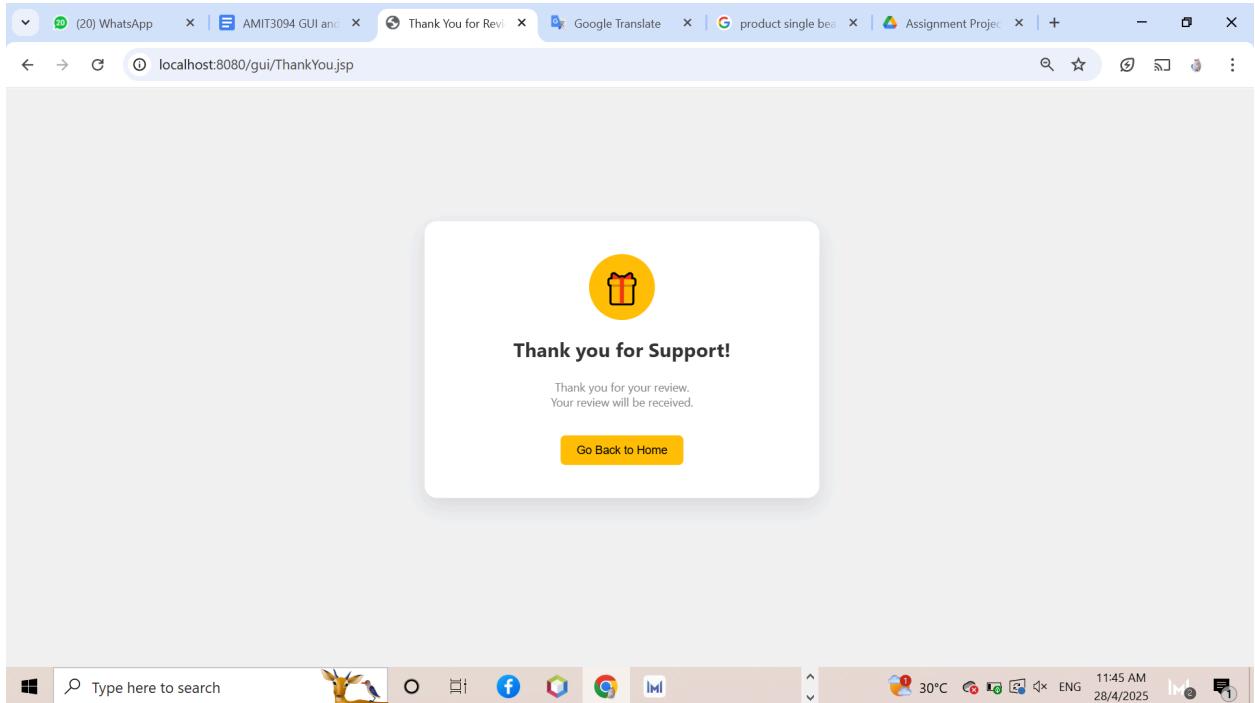
Write a Review

★★★★★

test delivery

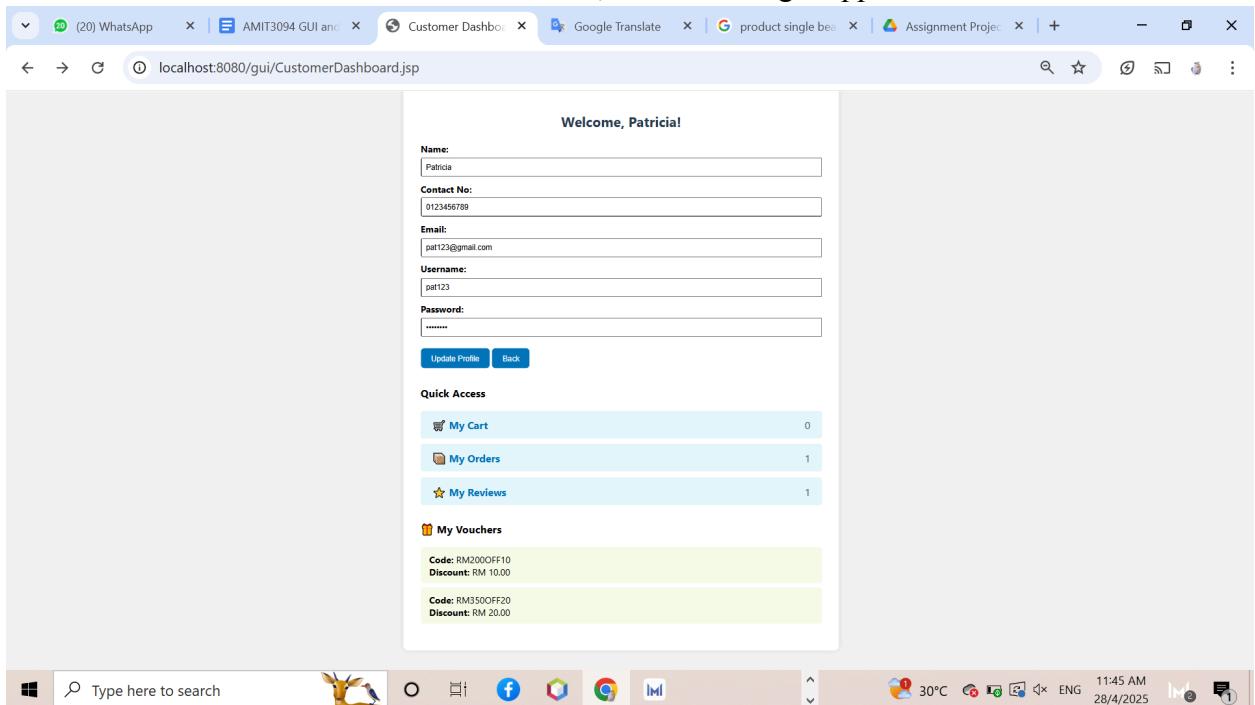
Submit Review

After submitting a review, a "Thank You" message will pop up.

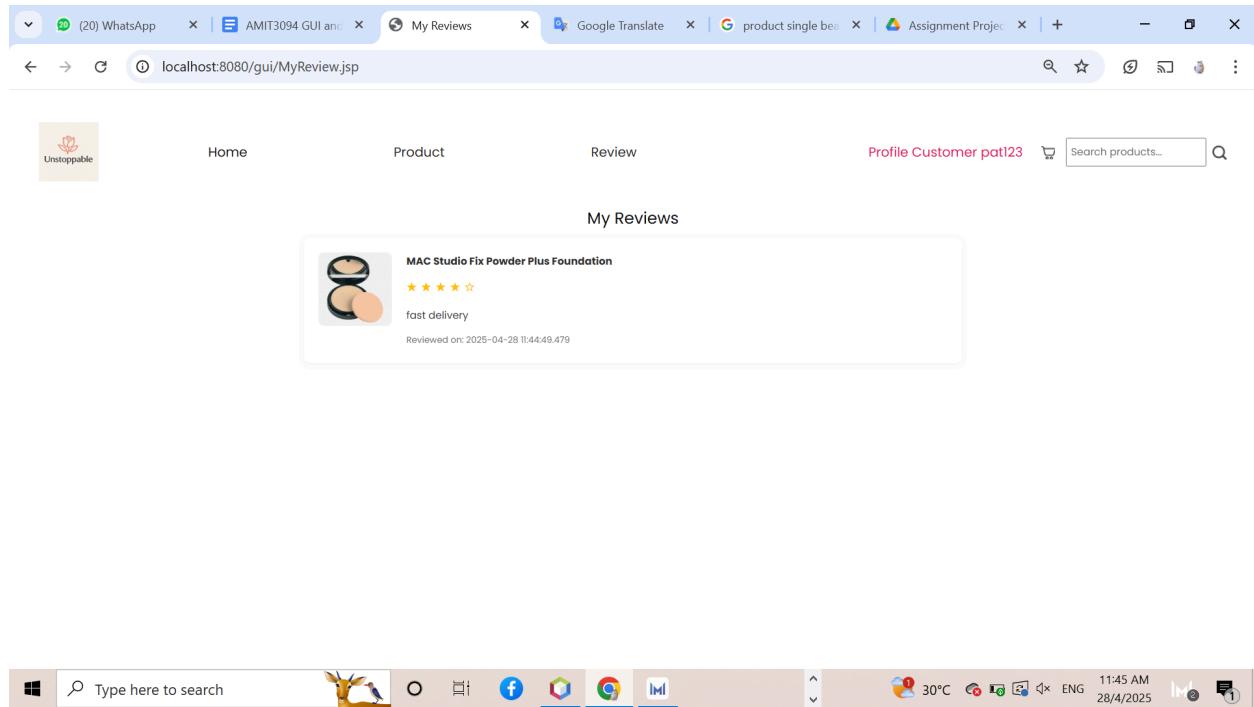


Finally, customers can see that their orders and reviews have been updated.

If a voucher like "FIRSTORDER10" was used, it will no longer appear in their voucher list.



At the same time, customers can view their past review at the quick access “My reviews”. The reviews have recorded their rate ,comment and the review date and time.



Staff and Admin Mode

1. Ratings and Comments Module

a. View rating (Product rating management)

i. Admin mode

ii. Staff mode

This is the page where staff and admin can view customer reviews(feedback on the product). They can see the rating stars, the date of the rating, and the customer's comment.

Customer ID	Product	Date	Rating	Comment	Reply	Action
cus001	Innisfree Green Tea Serum	2025-04-27 13:22:58.037	★★★☆☆	i love it	thank for purchased	<button>Reply</button>
cus001	Innisfree Green Tea Serum	2025-04-28 10:53:11.007	★★★☆☆	all good	No reply yet	<button>Reply</button>

b. Reply to rating

i. Admin mode

ii. Staff mode

Admins and staff can also reply to customer reviews to improve customer shopping experience.

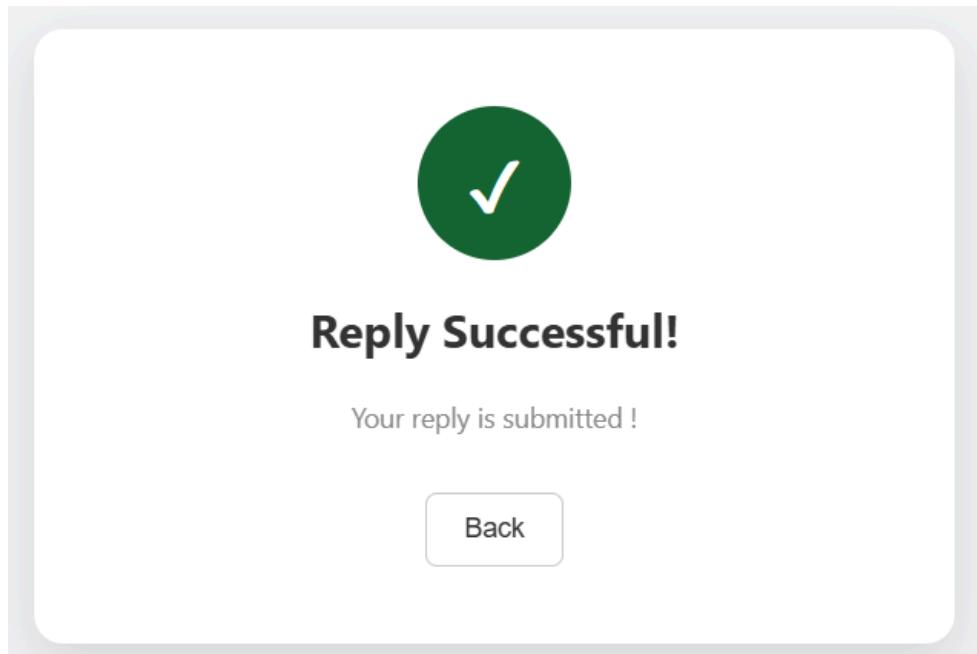
Reply to Rating ID: rat002

Customer Comment: all good

Your Reply:

RESET **SUBMIT REPLY**

When Staff or Admin submit the reply, the “Reply Successful!” will be pop-up



In the Product Review Management, we can see that the 'Reply' column records the successful replies from admins or staff

Product Review Management							
Customer ID	Product	Date	Rating	Comment	Reply	Action	
cus001	 Innisfree Green Tea Serum	2025-04-27 13:22:58.037	★ ★ ★ ☆ ☆	i love it	thank for purchased	<button>Reply</button>	
cus001	 Innisfree Green Tea Serum	2025-04-28 10:53:11.007	★ ★ ★ ☆ ☆	all good	thank for your review	<button>Reply</button>	

Not only shown in the page above, but our reply can be viewed via the “My Reviews” page under the customer dashboard’s quick access section, as well as the “Rating” category at the header menu of the home page. Below is a different example:



My Reviews

 **Biodance Face Mask**
★★★★★
GOOOD My Sis like it.
Reviewed on: 2025-04-28 12:09:19.569
Reply: Hey Is really nice to know this!



All Product Ratings

 **Biodance Face Mask**
★★★★★ (5.0 from 1 review)
GOOOD My Sis like it.
Reviewed on 2025-04-28 12:09:19.569
Reply: Hey Is really nice to know this!

2. Staff Module

The admin mode has full control over the list of all staff members, including the ability to delete, view, and edit their information. The staff mode does not provide full control over staff management.

a. View staff

The manager can view the list of all staff members and their details.

The screenshot shows a user interface for managing staff. On the left is a sidebar with a profile picture of 'Kaixin' (Manager), followed by a list of menu items: Dashboard, Customer Management, Product Management, Review Management, Staff Management (which is currently selected), Reports, and Logout. The main area is titled 'Staff List' and contains a table with the following data:

ID	Name	Email	Contact	Position	Username	Password	Action
stf001	Kai Xin	kx456789@gmail.com	0121235678	Manager	Kaixin	kx555	<button>Edit</button> <button>Delete</button>
stf002	Karena Tan	karenatan@gmail.com	0132359876	Sales	Karena	karena123	<button>Edit</button> <button>Delete</button>
stf003	Faris Bin Jamal	farisj@gmail.com	0161335698	Customer Service	faris	faris123	<button>Edit</button> <button>Delete</button>
stf004	Aina Binti Ahmad	aina@gmail.com	0191229699	Sales	aina	aina123	<button>Edit</button> <button>Delete</button>

b. Add staff

The manager can hire and add new staff members to the system to help manage the product and order. Admin need to fill in all the input fields of the form before they can proceed to add new staff, including name, email address, contact number, position of the staff member in the company, and username and password that will be used by the staff to login into the system.

The screenshot shows a modal dialog titled 'Add New Staff'. It contains the following input fields:

- Full Name: (text input field)
- Email Address: (text input field)
- Contact Number: (text input field, with placeholder 'e.g. 0123456789')
- Position / Title: (text input field)
- Username: (text input field)
- Password: (text input field)

At the bottom of the dialog are two buttons: 'RESET' and 'ADD STAFF'.

The new staff record has been added successfully.

Staff List

ID	Name	Email	Contact	Position	Username	Password	Action
stf001	Kai Xin	kx456789@gmail.com	0121235678	Manager	Kaixin	kx555	<button>Edit</button> <button>Delete</button>
stf002	Karena Tan	karenatan@gmail.com	0132359876	Sales	Karena	karena123	<button>Edit</button> <button>Delete</button>
stf003	Faris Bin Jamal	farisj@gmail.com	0161335698	Customer Service	faris	faris123	<button>Edit</button> <button>Delete</button>
stf004	Aina Binti Ahmad	aina@gmail.com	0191229699	Sales	aina	aina123	<button>Edit</button> <button>Delete</button>
stf005	new staff	x@g.c	0123567890	staff	jkl	new	<button>Edit</button> <button>Delete</button>

c. Edit staff

The manager can edit staff information if they are incorrect in the staff details, such as contact number and email. Besides, the system will ask for confirmation before proceed to edit.

localhost:8080 says

Are you sure you want to update your profile?

Name:

Contact No:

Email:

Username:

Password:

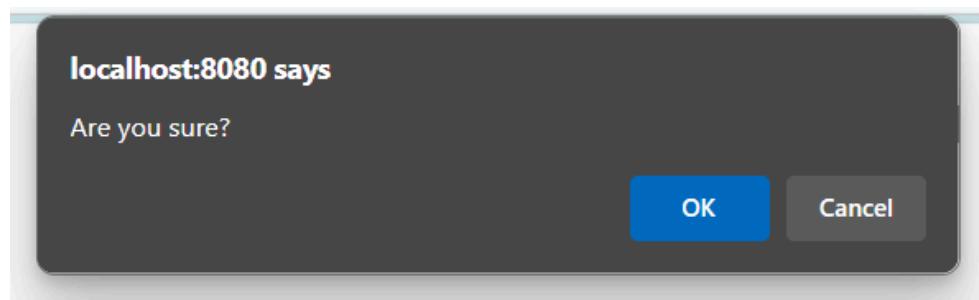
Position:

The staff record has been successfully updated

Staff List									
Add New Staff								Search by Staff ID or Name	Search
ID	Name	Email	Contact	Position	Username	Password	Action		
stf001	Kai Xin	kx456789@gmail.com	0121235678	Manager	Kaixin	kx555	<button>Edit</button>	<button>Delete</button>	
stf002	Karena Tan	karenatan@gmail.com	0132359876	Sales	Karena	karena123	<button>Edit</button>	<button>Delete</button>	
stf003	Faris Bin Jamal	farisj@gmail.com	0161335698	Customer Service	faris	faris123	<button>Edit</button>	<button>Delete</button>	
stf004	Aina Binti Ahmad	aina@gmail.com	0191229699	Sales	aina	aina123	<button>Edit</button>	<button>Delete</button>	
stf005	new staff	new@gmail.com	0123567890	staff	jkI	new	<button>Edit</button>	<button>Delete</button>	

d. Delete staff

The Manager also is the only one who have permission to delete a staff, and a confirmation box will pop up to ensure the result should be deleted or not.



Compared with the above(staff list), the demo used data was deleted.

Staff List

Add New Staff

ID	Name	Email	Contact	Position	Username
stf001	Kai Xin	kx456789@gmail.com	0121235678	Manager	Kaixin
stf002	Karena Tan	karenatan@gmail.com	0132359876	Sales	Karena
stf003	Faris Bin Jamal	farisj@gmail.com	0161335698	Customer Service	faris
stf004	Aina Binti Ahmad	aina@gmail.com	0191229699	Sales	aina

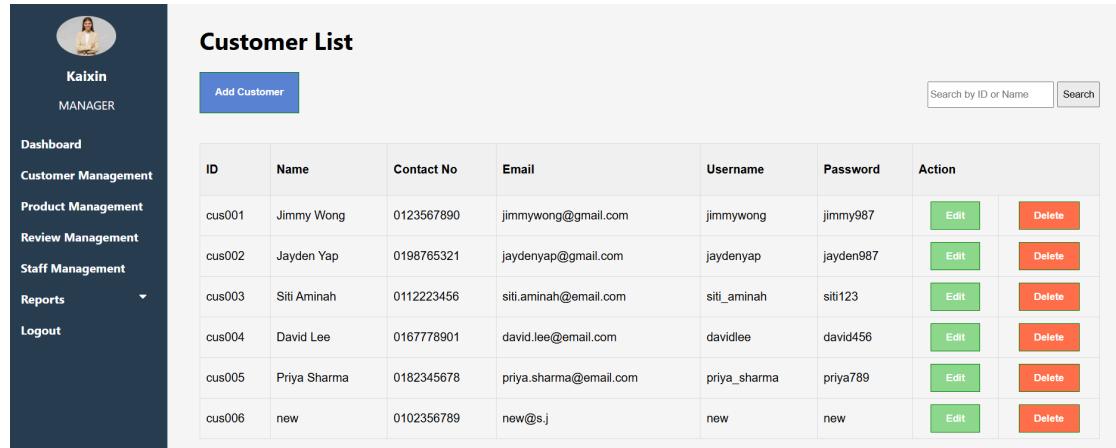
3. Customer Module

a. View customer

For customer management, we enable staff and admin to have different experiences based on their role and responsibilities.

i. Admin mode

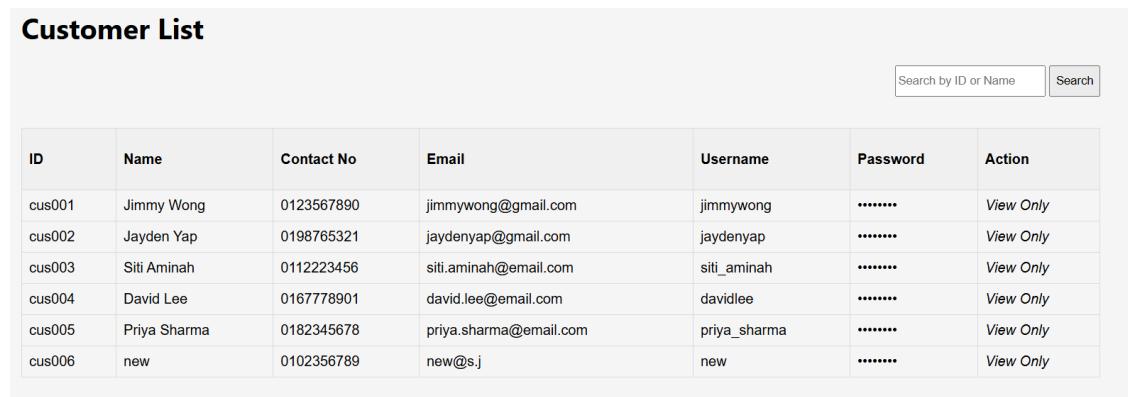
For admin, the admin can perform add, edit as well as delete customer action. Not only that, we display all the customers with their registration details and implement a search function for user friendly purposes.



ID	Name	Contact No	Email	Username	Password	Action
cus001	Jimmy Wong	0123567890	jimmywong@gmail.com	jimmywong	jimmy987	<button>Edit</button> <button>Delete</button>
cus002	Jayden Yap	0198765321	jaydenyap@gmail.com	jaydenyap	jayden987	<button>Edit</button> <button>Delete</button>
cus003	Siti Aminah	0112223456	siti.aminah@email.com	siti_aminah	siti123	<button>Edit</button> <button>Delete</button>
cus004	David Lee	0167778901	david.lee@email.com	davidlee	david456	<button>Edit</button> <button>Delete</button>
cus005	Priya Sharma	0182345678	priya.sharma@email.com	priya_sharma	priya789	<button>Edit</button> <button>Delete</button>
cus006	new	0102356789	new@s.j	new	new	<button>Edit</button> <button>Delete</button>

ii. Staff mode

For staff, they are not authorized to modify the customer record but view. As like manager mode, the staff can search by the customer id or customer name which we assume could save a lot of time from looking one by one just for a record.



ID	Name	Contact No	Email	Username	Password	Action
cus001	Jimmy Wong	0123567890	jimmywong@gmail.com	jimmywong	View Only
cus002	Jayden Yap	0198765321	jaydenyap@gmail.com	jaydenyap	View Only
cus003	Siti Aminah	0112223456	siti.aminah@email.com	siti_aminah	View Only
cus004	David Lee	0167778901	david.lee@email.com	davidlee	View Only
cus005	Priya Sharma	0182345678	priya.sharma@email.com	priya_sharma	View Only
cus006	new	0102356789	new@s.j	new	View Only

b. Add customer

Admin and staff have the access to create a new customer by filling in all the details and saving it into the customer management system. Not only for the

admin and staff to display, edit and delete purpose, access given to the customer to log in into the webpage and proceed their action.

The image shows a modal dialog box with a light gray background. At the top right is a black 'X' button. The title 'Add New Customer' is centered at the top. Below the title are five input fields with labels: 'Name:' (with an empty input box), 'Contact No:' (with an empty input box), 'Email:' (with an empty input box), 'Username:' (with an empty input box), and 'Password:' (with an empty input box). At the bottom of the modal are two buttons: 'RESET' on the left and 'ADD CUSTOMER' on the right, both in a dark gray color.

Now we can see, a new record is added!

Customer List

Add Customer

Search by ID or Name

Search

ID	Name	Contact No	Email	Username	Password	Action
cus001	Jimmy Wong	0123567890	jimmywong@gmail.com	jimmywong	jimmy987	<button>Edit</button> <button>Delete</button>
cus002	Jayden Yap	0198765321	jaydenyap@gmail.com	jaydenyap	jayden987	<button>Edit</button> <button>Delete</button>
cus003	Siti Aminah	0112223456	siti.aminah@email.com	siti_aminah	siti123	<button>Edit</button> <button>Delete</button>
cus004	David Lee	0167778901	david.lee@email.com	davidlee	david456	<button>Edit</button> <button>Delete</button>
cus005	Priya Sharma	0182345678	priya.sharma@email.com	priya_sharma	priya789	<button>Edit</button> <button>Delete</button>
cus006	new	0102356789	new@s.j	new	new	<button>Edit</button> <button>Delete</button>
cus007	Nadia	0123567890	nadia@gmail.com	nadia	nadia	<button>Edit</button> <button>Delete</button>

c. Edit customer

In this case, we select “Jimmy Wong” as our sample to test the edit customer function.

Customer List

Add Customer

Search by ID or Name

Search

ID	Name	Contact No	Email	Username	Password	Action
cus001	Jimmy Wong	0123567890	jimmywong@gmail.com	jimmywong	jimmy987	<button>Edit</button> <button>Delete</button>
cus002	Jayden Yap	0198765321	jaydenyap@gmail.com	jaydenyap	jayden987	<button>Edit</button> <button>Delete</button>
cus003	Siti Aminah	0112223456	siti.aminah@email.com	siti_aminah	siti123	<button>Edit</button> <button>Delete</button>
cus004	David Lee	0167778901	david.lee@email.com	davidlee	david456	<button>Edit</button> <button>Delete</button>
cus005	Priya Sharma	0182345678	priya.sharma@email.com	priya_sharma	priya789	<button>Edit</button> <button>Delete</button>
cus006	new	0102356789	new@s.j	new	new	<button>Edit</button> <button>Delete</button>
cus007	Nadia	0123567890	nadia123@gmail.com	nadia	nadia	<button>Edit</button> <button>Delete</button>

After we pressed the “Edit” button, we will see this form box which display the Jimmy Wong information. Let’s change his name to be “Jimmy Wong Tian Ann”.

Edit Customer

Name:

Contact No:

Email:

Username:

Password:

CANCELUPDATE

When we press “Update”, it will display this confirmation message to the user. Click “OK” to continue editing.

localhost:8080 says

Are you sure you want to update this customer?

OKCancel

The record had been successfully updated!

ID	Name	Contact No	Email	Username	Password	Action
cus001	Jimmy Wong Tian Ann	0123567890	jimmywong@gmail.com	jimmywong	jimmy987	<button>Edit</button> <button>Delete</button>

d. Delete customer

After pressing the “delete” button to delete a customer from the list, a confirmation message will pop up to verify user action. A customer will be successfully deleted after the user clicks on the “OK” button.

Customer List

Add Customer

localhost:8080 says

Are you sure?

OK

Cancel

ID	Name	Contact No	Email	Username	Password	Action	
cus001	Jimmy Wong	0123567890	jimmywong@gmail.com	jimmywong	jimmy987	<button>Edit</button>	<button>Delete</button>
cus002	Jayden Yap	0198765321	jaydenyap@gmail.com	jaydenyap	jayden987	<button>Edit</button>	<button>Delete</button>
cus003	Siti Aminah	0112223456	siti.aminah@email.com	siti_aminah	siti123	<button>Edit</button>	<button>Delete</button>
cus004	David Lee	0167778901	david.lee@email.com	davidlee	david456	<button>Edit</button>	<button>Delete</button>
cus005	Priya Sharma	0182345678	priya.sharma@email.com	priya_sharma	priya789	<button>Edit</button>	<button>Delete</button>
cus006	new	0102356789	new@s.j	new	new	<button>Edit</button>	<button>Delete</button>

4. Product Module

a. View Product

i. Admin mode

Image	ID	Name	Unit Price	Available Stock	Category	Product Description	Status	Actions
	prod004	Innisfree Green Tea Serum	85.5	198	Skin Care	Hydrating serum with green tea extract.	<button>Show</button> <button>Edit</button> <button>Delete</button>	
	prod005	Some By Mi AHA.BHA.PHA Toner	60.0	150	Skin Care	Exfoliating toner for acne-prone skin.	<button>Show</button> <button>Edit</button> <button>Delete</button>	
	prod006	Klavuu Nourishing Face Oil	120.0	60	Skin Care	Facial oil with Korean pearl extract.	<button>Show</button> <button>Edit</button> <button>Delete</button>	

ii. Staff mode

Image	ID	Name	Unit Price	Available Stock	Category	Product Description	Status	Actions
	prod004	Innisfree Green Tea Serum	85.5	198	Skin Care	Hydrating serum with green tea extract.	<button>Show</button> <button>Edit</button>	
	prod005	Some By Mi AHA.BHA.PHA Toner	60.0	150	Skin Care	Exfoliating toner for acne-prone skin.	<button>Show</button> <button>Edit</button>	

Admin and staff can manage and view the products that are sell in this website by access to “Product Management” in the admin navigation bar. The action can perform by admin in this Product Management page including add new products, edit and delete the existing products. However, staff has not a permission to delete the product so there is no “Delete” button for staff to delete the product. In addition, this page also provide filter functionality for admin and staff to find specific products based on criteria like product id, product name and categories.

- b. Add Product
 - i. Admin mode
 - ii. Staff mode

Add Product

Product ID:

Name:

Price:

Stock:

Category

Choose an option

Description:

Status:

Show

Upload Product Image:

Choose File

No file chosen

RESETADD PRODUCT

In order to add a new product, admin and staff need to fill in all field in “Add Product” form, including product name, unit price, availability stock, category, description, status and product image. By default, the “show” status is selected when users fill in the form.

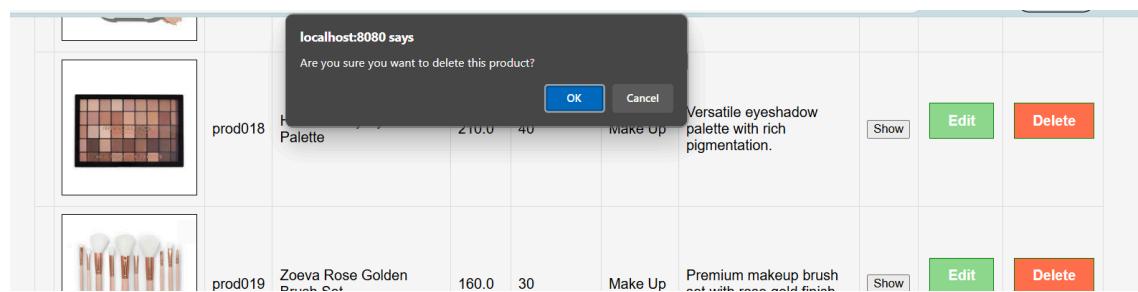
- c. Edit Product
 - i. Admin mode
 - ii. Staff mode

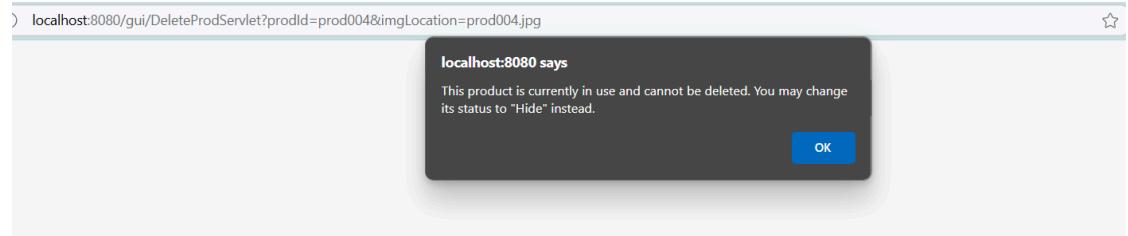
Update Product

Product Image  Upload New Image of Product: <small>***Original product image will be replace by new uploaded image</small> <input type="button" value="Choose File"/> No file chosen	Product Details <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Product ID:</td> <td>prod005</td> </tr> <tr> <td>Name:</td> <td>Some By Mi AHA.BHA.PHA Toner</td> </tr> <tr> <td>Price:</td> <td>60.00</td> </tr> <tr> <td>Stock:</td> <td>150</td> </tr> <tr> <td>Category:</td> <td>Make Up</td> </tr> <tr> <td>Description:</td> <td>Exfoliating toner for acne-prone skin.</td> </tr> <tr> <td>Status:</td> <td>Show</td> </tr> </table>	Product ID:	prod005	Name:	Some By Mi AHA.BHA.PHA Toner	Price:	60.00	Stock:	150	Category:	Make Up	Description:	Exfoliating toner for acne-prone skin.	Status:	Show
Product ID:	prod005														
Name:	Some By Mi AHA.BHA.PHA Toner														
Price:	60.00														
Stock:	150														
Category:	Make Up														
Description:	Exfoliating toner for acne-prone skin.														
Status:	Show														
CANCEL	UPDATE														

Admin and staff can edit information of the product if they found that the information have the mistake or they simply want to change the product image or status. If user doesn't upload the new image of the product when proceed to "Update", the system will not change the original image of the product.

- d. Delete Product
 - i. Admin mode





select * from cart_item x

Max. rows: 100 Fetched Rows: 4					
#	CARTITEMID	CARTID	PRODUCTID	QUANTITYPURCHASED	PRICE
1	itm004	cart004	prod004	1	85.50
2	itm005	cart004	prod005	5	300.00
3	itm006	cart002	prod004	1	85.50

Only admin able to delete the product, staff have no permission to delete the product. Before proceed to delete the product from the database, the system will pop up an alert box to ask user confirmation. However, admin not able to delete the product if the product is in use, such as the product already check out the product in their cart. This is to maintain the order history record.

5. Report module

The report module can only be accessed by the admin. Staff do not have permission to view the report.

a. Top 10 Report

Kaixin
MANAGER

Dashboard
Customer Management
Product Management
Review Management
Staff Management
Reports ▾
Logout

Top 10 Sales Report					
Rank	ID	Name	Category	Unit Price	Unit Sold
1	prod005	Some By Mi AHA.BHA.PHA Toner	Skin Care	60.0	5
2	prod007	COSRX Advanced Snail 96 Mucin Power Essence	Skin Care	75.0	3
3	prod004	Innisfree Green Tea Serum	Skin Care	85.5	3
4	prod020	YSL Rouge Pur Couture Lipstick	Make Up	140.0	2
5	prod015	Etude House Lovely Cookie Blusher	Make Up	45.0	2
6	prod008	The Ordinary Niacinamide 10% + Zinc 1%	Skin Care	55.0	2
7	prod006	Klavuu Nourishing Face Oil	Skin Care	120.0	2
8	prod018	Huda Beauty Eyeshadow Palette	Make Up	210.0	1
9	prod016	NARS Blush Palette	Make Up	180.0	1
10	prod014	MAC Ruby Woo Lipstick	Make Up	95.0	1

b. Sales Report

The screenshot shows a user interface for generating a sales report. On the left is a dark sidebar with a user profile picture, the name "Kaixin", and the title "MANAGER". Below this are navigation links: "Dashboard", "Customer Management", "Product Management", "Review Management", "Staff Management", "Reports" (which is currently selected), and "Logout". The main content area has a title "Sales Report". It includes input fields for "Start Date" (01/01/2025) and "End Date" (12/31/2025). A "Generate Report" button is present. Below the buttons, a message says "Querying sales from 2025-01-01 to 2025-12-31". To the right is a table showing sales data:

Product ID	Name	Category	Price	Units Sold	Total Sales (RM)
prod010	SK-II Facial Treatment Essence	Skin Care	290.0	1	290.00
prod020	YSL Rouge Pur Couture Lipstick	Make Up	140.0	2	280.00
prod004	Innisfree Green Tea Serum	Skin Care	85.5	3	256.50
prod006	Klavuu Nourishing Face Oil	Skin Care	120.0	2	240.00
prod018	Huda Beauty Eyeshadow Palette	Make Up	210.0	1	210.00
prod016	NARS Blush Palette	Make Up	180.0	1	180.00
prod012	Huda Beauty Faux Filter Foundation	Make Up	150.0	1	150.00
prod015	Etude House Lovely Cookie Blusher	Make Up	45.0	2	90.00

The screenshot shows the same sales report interface. The "Start Date" is set to 04/28/2025 and the "End Date" is set to 04/01/2025. An alert dialog box is displayed with the message "localhost:8080 says End date must be greater than or equal to start date!" and an "OK" button.

By default, it will generate a yearly report when users click on “Sales Report” in the navigation bar. If the user select an end date that is earlier than the start date, the system will pop up an alert box to notify the user.

4. References

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<https://github.com/shashirajraja/shopping-cart/tree/master>

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