



FACULTY OF COMPUTING AND INFORMATION TECHNOLOGY

Programme: RSW (Group: 6)

Assignment

BACS2103 SOFTWARE QUALITY ASSURANCE AND TESTING

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Read, complete, and sign this statement to be submitted with the written report.

We confirm that the submitted work is all our own and are in our own words.

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1.Test Plan

1.1 Overview

This test plan is designed to evaluate the functionality of the Shopee Web Application, a well-known e-commerce website in Malaysia. In this test plan, the specific functionality to be tested will be clearly defined as well as the methodologies to be applied during the testing process. The methodologies involved are to verify each test item, or the functionality that outlined in this test plan can perform as expected and meets user expectations.

This Shopee Web Application test plan included several sections which are overview, context of testing, risk register, test strategy, test activities and test specification. The overview section would provide a brief understanding of the document and its purpose.

In the context of testing section, all the testing details will be covered. This includes project details, following with the detailed test items describing the functions involved in each module. The risk register is to estimate two different risk categories: product risk and project risk, which are related with Shopee Web Application.

Moving on to the test strategy section, all the methodology details that will be used in the testing phase are provided. This included the testing environment setup, technique used, data involved and other requirements. The following section is test activities, which fully describe how the Software Testing Life Cycle(STLC) will be carried out. The last section is the test specification section, where a detailed set of test cases and different positive and negative scenarios will be used to verify the functionality of the application.

In conclusion, this Shopee web application test plan is an essential document designed to ensure the quality and reliability of the website. It provides a roadmap to identify any issues of the application before they impact the user, thus improving overall user experience.

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1.3 Context of Testing

1.3.1 Project(s)

Shopee is one of the most widely used online shopping platforms in Malaysia, and as part of a testing project, the Shopee Web Application will undergo black box testing. This method allows the testing team to examine the application's modules and observe the system's behavior without inspecting the source code. Several modules within the Shopee Web Application will be tested as part of various test items.

The product management module is responsible for inventory management and CRUD (Create, Read, Update, Delete) operations for products. The new product will be tested by verifying its existence in this module.

The user module is critical for accessing the application's functionality, and the testing team will use both valid and invalid data to validate its functionality.

The cart module is responsible for managing items added by the user and performing a search function. The testing team will verify the validity of these actions and check that the item remains in the cart.

The Shopee Web Application provides various payment methods, payment verification, and gateway error handling to ensure the user's security at all times. Additionally, the application offers a SpayLater method, enabling users to pay in installments within a specified limit.

Finally, the Shopee Food Ordering module within the application allows users to search for and place orders for meals on our platform. Users can also apply promotional codes to receive instant discounts on their meals, using a payment method similar to that of Shopee purchases.

1.3.2 Test Item(s)

1.3.2.1 User Module

No	Functionality	Item(s)
1	User Registration	Input valid phone number with valid OTP
		Input invalid phone number
2	Seller registration	Input valid email and valid address
		Input invalid invalid email
3	Login	Input valid username and valid password
		Input invalid username and invalid password
4	Account management	Edit phone number
		Edit username
5	Chat	Select a customer and input messages to send
		Select a seller and input message to send

1.3.2.2 Product Management Module

No	Functionality	Item(s)
1	Add Product	Create a new product with valid product details.
		Create a new product with valid product details except invalid quantity stock.
2	Search Product	Search an existing product
		Search a non-existing product
3	Edit Product Detail	Edit “Live” status Product Stock
		Edit “Sold Out” status Product Stock
4.	Delist Product	Delist an existing product from view of buyers
5	Delete Product	Delete an existing product from “My Products”
6	Bump Product	Bump an existing product with empty bump slots
		Bump an existing product without an empty bump slot.

1.3.2.3 Cart

No	Functionality	Item(s) (Assume there is one product already in the cart)
1	Apply voucher code	Apply valid voucher
		Apply invalid voucher
		View voucher T&C
2	Add more product to cart	Add more product
		Invalid add more product
3	Delete product from cart	Delete products
4	Edit products	Edit the product's variation
		Edit the product's variation by unselected the variation
5.	Check out	Input valid name, phone number and postal code
		Input invalid name, phone number and postal code

1.3.2.4 Payment

No	Functionality	Item(s) (Assume there is one product already in the cart)
1	Pay with Credit card	Pay with valid credit card
		Pay with invalid credit card
		Pay with expired credit card
2	Pay with Debit card	Debit card with insufficient funds
3	Pay with E-Wallet	Pay with valid E-Wallet account
		Pay with invalid E-Wallet account
		E-Wallet with insufficient funds
4	Online Banking	Bank Selection
		Valid Username
		Valid Password

1.3.2.5 ShopeeFood

No	Functionality	Item(s)
1	Add to basket	Add item into basket
		Add item with sub categories into basket
		Add two item from different restaurant into basket
2	Modify basket	Increase amount of added item
		Remove item from basket
		Add note for item
3	Searching	Search with restaurant name
		Search with food and beverage name
4	Checkout	Apply valid voucher
		Apply invalid voucher

1.3.3 Test Scope

IS	IS NOT
Functionality	Security
Error handling and recovery	Performance
User interface (functional)	Capacity and Volume
	Configuration option
	Localization

1.3.4 Stakeholders

1.3.4.1 Internal Stakeholders

1. Test Manager

The test manager typically refers to individuals or groups within the project they are involved in and who play an important role for planning, organizing and doing a schedule of time for the milestone for the execution of the project such as Shopee from start to finish. These people are also responsible for completing a certain project in a particular budget and duration of development according to the specifications and requirements given by the client.

2. Software Tester

A software tester is usually responsible for testing the quality of the software project by conducting various tests and checks such as black box testing and white box testing. The aim of these 2 tests are to find the defect and error that will cause an inconvenience or even a critical failure for system functionality while the client is using it. After the testing phase, the software testing will provide the feedback and report back to the development team to improve the system so that the reliability and functionality of the system will be ensured.

3. Software Analyst

An individual or group of people that gather and analyze the Shopee website requirements and identify the stakeholders requirements. Besides, the software analyst is also responsible for developing the system specifications such as functional requirements and non functional requirements of Shopee Web Application.

1.3.4.2 External Stakeholders

1. Shopee Staff

The primary responsibility of Shopee staff is to uphold the quality of services provided by the online shopping platform. They assist customers who encounter issues by engaging in chat-based customer service, resolving inquiries and complaints to ensure customers follow guidelines and have a positive experience on Shopee.ssss

2. End User

The Shopee Web Application caters to two distinct types of end-users: buyers and sellers. Buyers use the application to browse and search for products that interest them, while sellers typically list their products with brief descriptions and prices. Both types of end-users play a significant role in driving economic sales flow within the market.

3. Courier Firm

The courier firm is the third party company that collaborates with online shopping systems and provides delivery services especially for the Shopee Web Application systems, they will provide a packaging service and delivery service for the parcel between seller address and buyer address. Besides, they are always concerned about the time for delivery and the safety of the parcel so that buyers will be satisfied and not complain about the services given by the courier firm.

4. Chief Executive Officer (CEO) of Malaysia Shopee

The CEO of Malaysia Shopee may also play an important role in participating in the requirement elicitation so that the functionality of Shopee Web Application can be fulfilled and help the software engineers to define the scope of the project, identify the potential issues and development efforts needed. The CEO's feedback and insight are critical so that the software development team can make informed decisions based on the web application's features and user experiences.

1.4 Risk Register

The main reason for a risk register session is to identify, assess, and track potential risks that could harm or impact the Shopee Web Application project's success. Product risk and project risk are the two most common types of risks. Product risk refers to the risks associated with the quality and availability of the software product after it has been developed, whereas project risk refers to the risks associated with the development team's ability to complete the software project on time, which usually relates to time and budget constraints.

1.4.1 Product Risk

Risk	Risk Description	Mitigating Action
Server downtime	The server of Shopee may face unavailability and down for some time.	Conduct a regular check and maintenance of the server to reduce the risk of server downtime.
Web page crashes	The shopee web page may face crashes and become unresponsive to users. This risk often will happen if there are coding errors and server overload.	Implement caching mechanisms to minimize the load size on the server and improve the response time between server and website.
Incorrect product information	Listing incorrect information about a product can result in customer confusion and dissatisfaction, and may even lead to legal issues.	Implement some processes such as validation of product descriptions, including specifications, features and limitations.
User data loss	The loss of user data may occur due to software bugs, defects or cyber attacks.	Always have backup data for recovery purposes and increase the security of the system's data such as encryption and access controls.
Functionality changing	Unexpected changes in the functionality of the Shopee system	Implement a change management process to ensure the changes are

	can result in reduced productivity.	properly documented and tested so that users are able to adapt and be easier to use.
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1.4.2 Project Risk

Risk	Risk Description	Mitigating Action
Change in project scope	There are various types of change in project scope such as new requirements, negative feedback from stakeholders and marketing demands. As a result, these changes might affect the time and budget for the development team to complete the project.	Set up a change management process and conduct an impact analysis from the change in project scope to define how changes to the current project scope will be evaluated, as well as the potential impact on the project schedule, budget, and resources.
Communication breakdown	This risk will occur when there is a lack of effective communication between project development team and stakeholders. As a result, it might lead to project failure due to the misunderstandings of instructions. Usually happen for various reasons such as language barriers and cultural differences.	Always establish clear cultural and language interpretations for the communication channels from the start of the Shopee Web Application project by identifying key stakeholders and their communications preferences. These steps could ensure everyone that is involved in this project is able to be on the same page.
Lack of resources	It can refer to various aspects such as inadequate workforce, equipment or time constraints or other resources required to complete the Shopee Web Application.	The main mitigating action will be resource planning to ensure the sufficient resources available.
Budget overrun	Budget given by the client is	Accurate estimation can be

	<p>not enough due to unexpected condition and could result in delay the project's completion and reduce scope of the project .</p>	<p>performed to predict the project cost and the estimation process should involve all relevant members. Besides, contingency planning could be another action where the project team may identify all the cost saving areas without facing the risk of project quality.</p>
Technical complexity	<p>This risk exists if there are new or unfamiliar technologies, such as AI and machine learning, that can only be handled by experienced developers and the project team lacks them.</p>	<p>Hire experienced developer or conduct a feasibility study to early determine the require technology for the project so that the complexity of the particular technical could be handle.</p>

1.5 Test Strategy

1.5.1 Test sub-processes

Incremental Approach - Top-down Strategy

For this Shopee Web Application, incremental approach is used rather than non-incremental approaches. This is because since the modules of application are well-defined, they are suitably tested to combine each other with the set of previously tested modules. The approach under consideration involves conducting module testing to address software gaps within the Shopee Web Application by utilizing drivers and stubs. These components play a crucial role in simulating and facilitating communication between software components within the application. For instance, in the event that a user module lacks a component necessary to perform its login function, a driver can be created to emulate a function caller, which will then call the stub. Additionally, the programming errors can be detected earlier in this approach and it will be easier to debug.

To be more specific, to ensure the user module remains the main entry point for accessing the functionalities of the Shopee Web Application, an incremental approach using top-down strategies will be employed. This method involves breaking down the application into smaller modules and testing them incrementally, starting with the highest-level module (i.e., the user module) and gradually integrating lower-level modules until the entire system is fully functional. This approach allows for the early detection and remediation of any issues that may arise, minimizing the risk of downstream problems.

1.5.2 Test Deliverables

1.5.2.1 Test Plan

Firstly, a test plan is a document developed collaboratively by a client and a QA team that contains all information about the testing process. Cooperation between the client and the QA team begins with this document, which increases chances of success.

Furthermore, the test plan will be conducted before the test case as it is used to identify and define the test levels, test strategies, entry and exit criteria. Other than that, it is also important to allocate the resources for tests to prevent wasting resources and all of the resources are important to allocate specifically.

Additionally, by introducing the plan of the test project, the readers will know what to test and the general approach taken in the test. The test plan will also clearly mention all of the details of the test to let the tester successfully follow the step to get the expected results.

1.5.2.2 Test Case

The shopee web application development process, from the early planning stage to post-release maintenance, include test cases. For instance, gathering requirements so that test cases can be used to confirm that the shopee web application requirements are comprehensive, precise, and testable. Besides that, design and development where test cases can be used to confirm that the shopee web application design and implementation follow to the specifications and are error-free. Furthermore, Integration so that test cases can be used to verify the proper operation of the integration between various elements of the shopee web application, such as a payment gateway or an inventory control system. Next, user acceptance testing that allows test cases, such as assessing the website's usability, responsiveness, and error handling, can be used to confirm that it satisfies end-user expectations. Regression Testing are also included where test cases can be used to confirm that no flaws or unexpected consequences have resulted from the modifications done to the shopee web application during maintenance and upgrades.

1.5.3 Test Design Techniques

The modules involved in the testing for Shopee Web Application will involve logic based testing which include cause-effect graphing and decision table technique. Both techniques are dynamic test case writing techniques for maximum coverage and mitigate the risk.

Cause-effect graph is based on the determined requirements to generate the minimum possible test case. This technique maximizes the coverage while minimizing the number of test cases to reduce the test execution time and cost. As the time constraint involved in this project, a large number of requirements involved in Shoppee might be impossible to fully cover. Thus, this technique helps in reducing the testing effort while maintaining the coverage of the overall requirement. Decision table technique is an effective tool to verify the possible combinations of each testing condition that is involved in the cause-effect diagram.

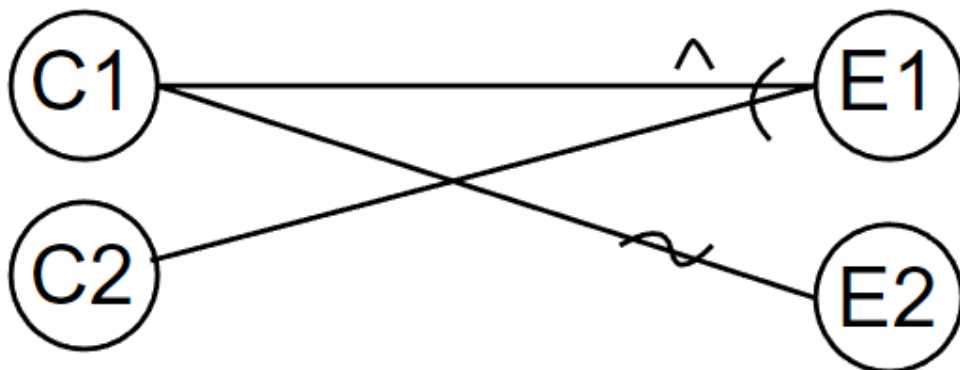
1.5.3.1 User

1. User Registration

Assume the user is first time registering the system and he or she uses a phone number to register. If a user used a valid phone number to register, an OTP will be sent to the phone number and after the user input the valid OTP, the user is supposed to register into the system and redirect to the account management page. But if the user provides an invalid phone number, the user will not be able to continue to click on the NEXT button.

Cause
C1: Valid phone number C2: Valid OTP
Effect
E1: Registration successful E2: NEXT button NOT functional

Condition	T_U_01	T_U_02
C1	T	F
C2	T	-
Effect		
E1	T	-
E2	-	T

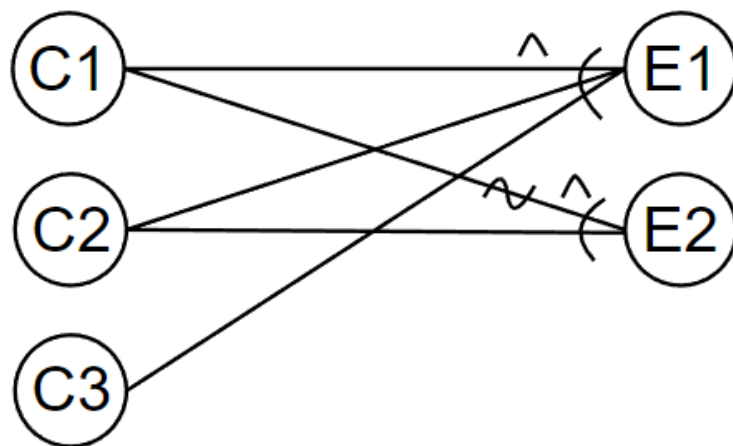


2. Seller Registration

Assume the user logged into the system with the registered account and he or she uses an email address to register. If a user used a valid email address to register, a small tick display beside the email field box and after clicking on the NEXT button, users are required to fill in the pick up address so that the seller registration will be completed. But if the user provides an invalid email address, the user will not be able to continue to click on the NEXT button.

Cause
C1: Logged in the system. C2: Valid email C3: Valid address
Effect
E1: Registration successful E2: NEXT button NOT functional

Condition	T_U_03	T_U_04
C1	T	T
C2	T	F
C3	T	-
Effect		
E1	T	-
E2	-	T

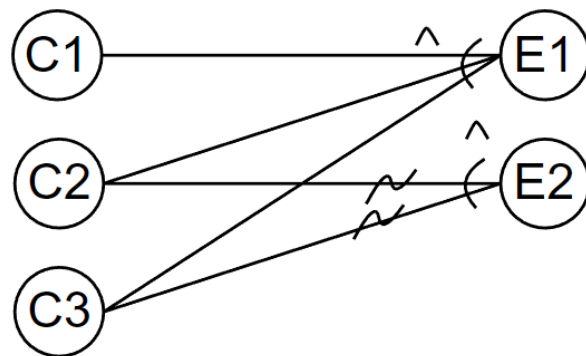


3. User Login

Assume the user has a registered account and he or she uses the username and password to login into the system. If a user used a valid email address to register, a small tick display beside the email field box and after clicking on the NEXT button, users are required to fill in the pick up address so that the seller registration will be completed. But if the user provides an invalid email address, the user will not be able to continue to click on the NEXT button.

Cause
C1: Have a registered account C2: Valid username C3: Valid password
Effect
E1: Login successful E2: Login unsuccessful

Condition	T_U_05	T_U_06
C1	T	-
C2	T	F
C3	T	F
Effect		
E1	T	-
E2	-	T

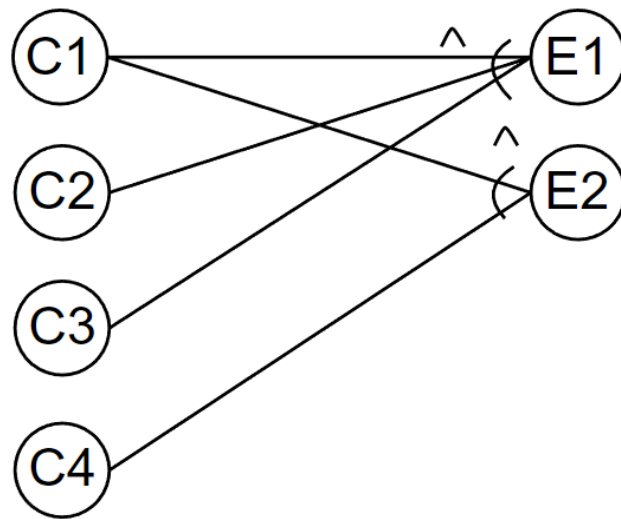


4. Edit account function

Assume the user logged into the system with the registered account and he or she wants to update a new phone number or username in account management. If a user used a valid phone number to update, an OTP will be sent and prompt the user to enter the valid OTP, after clicking confirm the new phone number will be updated. If a user is willing to change the username, a valid username is required to fill in and if the username is valid the system will show a tick beside the username field. After clicking the Confirm button, the user should be able to update the username.

Cause
C1: Logged into system. C2: Valid phone number C3: Valid OTP C3: Valid username
Effect
E1: Edit Phone number Successful E2: Edit Username Successful

Condition	T_U_05	T_U_06
C1	T	T
C2	T	-
C3	T	-
C4	-	T
Effect		
E1	T	-
E2	-	T

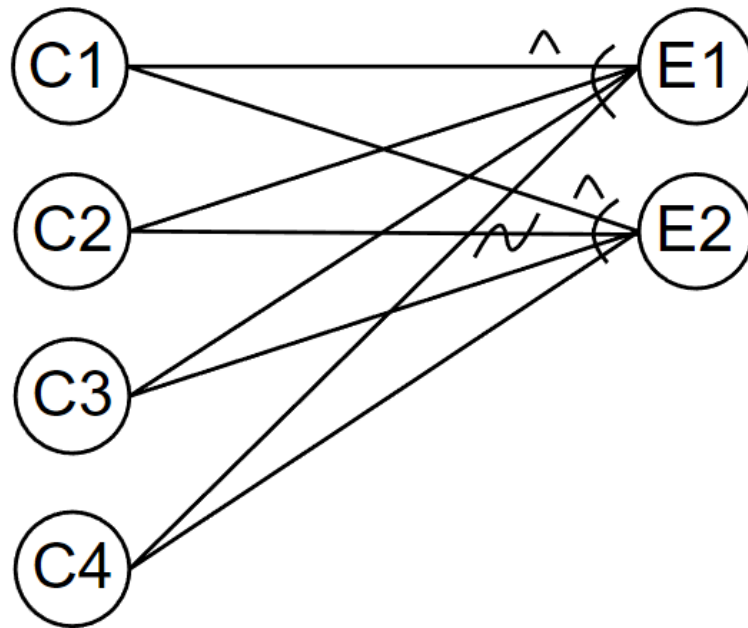


5. User Chat function

Assume the user logged into the system with the registered account and he or she wants to update a new phone number or username in account management. If a user used a valid phone number to update, an OTP will be sent and prompt the user to enter the valid OTP, after clicking confirm the new phone number will be updated. If a user is willing to change the username, a valid username is required to fill in and if the username is valid the system will show a tick beside the username field. After clicking the Confirm button, the user should be able to update the username.

Cause
C1: Logged into system. C2: Is a Seller C4: Enter message C5: Click Sent> arrow
Effect
E1: Message Sent by Seller Successfully . E2: Message Sent by Customer Successfully.

Condition	T_U_05	T_U_06
C1	T	T
C2	T	F
C3	T	T
C4	T	T
Effect		
E1	T	-
E2	-	T



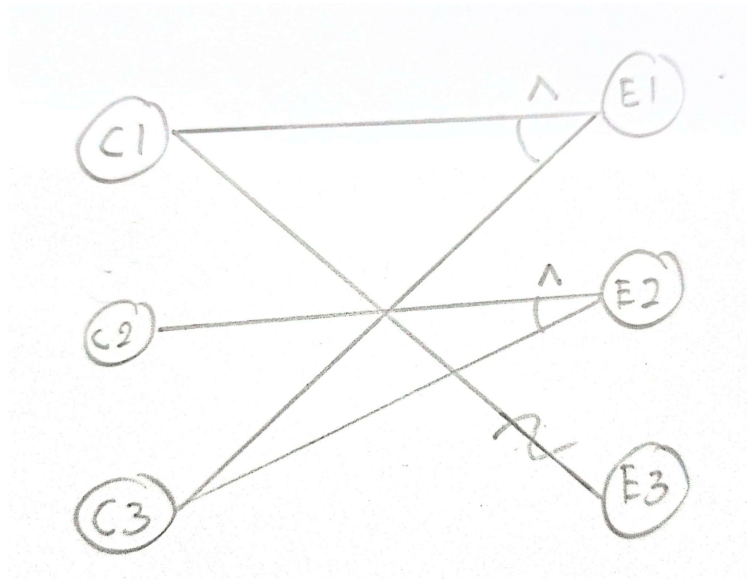
1.5.3.2 Product

1. Add Product

Assume the seller wants to add a new product into their store. Majority of the sellers will count the quantity stock of a product before selling online. But, rest of the sellers may sell products by placing the order with industry or retailer when needed. That means they may need to confirm the quantity of products with 3rd parties but they still want to create a new product on system for future sales. They may put 0 quantity stock as default before publishing to the public.

Cause
C1: Valid Product Details C2: Zero quantity Quantity C3: Positive quantity Quantity
Effect
E1: "Live" Status E2: "Sold Out" Status E3: Unable to Add the Product

Condition	TC1	TC2	TC3
C1	T	T	F
C2	-	T	-
C3	T	-	-
Effect			
E1	T	-	-
E2	-	T	-
E3	-	-	T

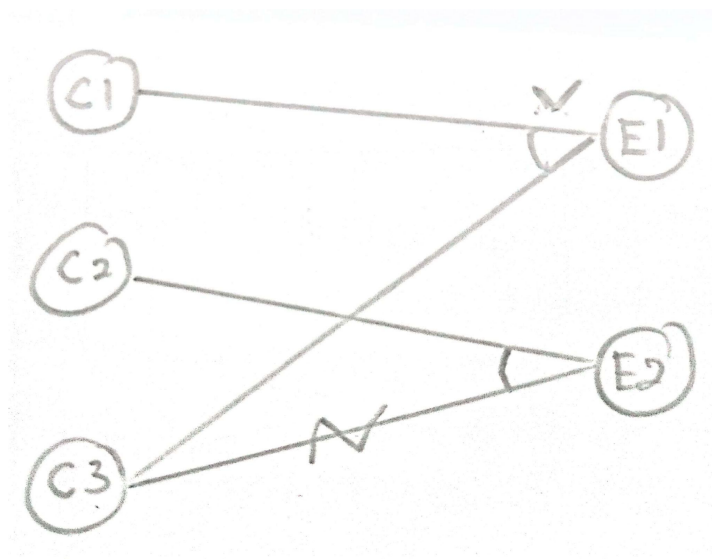


2. Search Product

Assume the sellers are selling a lot of products and want to find a product. They can use the search bar for searching the product they want with the product name. Sellers are able to find the same similar product by inputting the keywords of existing product such as Coffee, Fruit, Bread and Others.

Cause
C1: Input Existing Product Name C2: Input non-Existing Product Name C3: Keyword of Existing Product Name
Effect
E1: Found Result E2: No Result Found

Condition	TC1	TC2	TC3	TC4
C1	T	-	F	F
C2	-	T	F	T
C3	T	F	T	T
Effect				
E1	T	-	T	-
E2	-	T	-	T

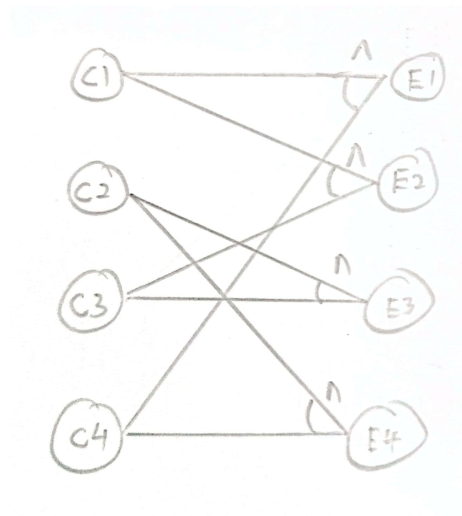


3. Edit Product

Assume the sellers find out that some of their product is damaged or other reasons that need to be made changes on the quantity in stock of products, they are able to edit the quantity in stock through “My Products”. The product will change from “Live” to “Sold Out” if the quantity in stock of the product becomes 0. On the other side, the product will change from “Sold Out” to “Live” automatically and publish to the public.

Cause
C1: Positive Quality in stock C2: Zero Quality In stock C3: New Positive Quality in stock C4: New Zero Quality In stock
Effect
E1: From “Live” status change to “Sold Out” Status E2: Remain “Live” status E3: From “Sold Out” status change to “Live” Status E4: “Sold Out” Status Product

Condition	TC1	TC2	TC3	TC4
C1	T	T	-	-
C2	-	-	T	T
C3	-	T	T	-
C4	T	-	-	T
Effect				
E1	T	-	-	-
E2	-	T	-	-
E3	-	-	T	-
E4	-	-	-	T

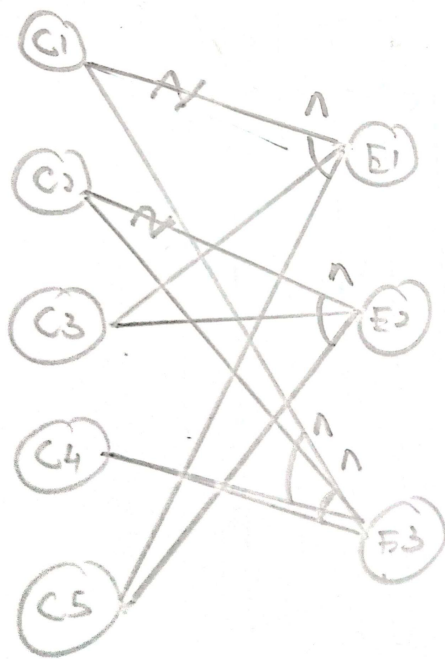


4. Delist Product

Assuming the sellers currently are unable to sell the product and need to isolate the product without deleting the details of the product, they can try to delist the product from any status to “Delisted”. These products will not be available to find by buyers. After that, they can publish these delisted products anytime they want.

Cause
C1: “Live” Status product C2: “Sold Out” Status product C3: “Delisted Status” product C4: Delish Product C5: Publish Product
Effect
E1: “Live” Status E2: “Sold Out” Status E3: “Delisted Status”

Condition	TC1	TC2	TC3	TC4
C1	T	-	F	-
C2	-	T	-	F
C3	-	-	T	T
C4	T	T	-	-
C5	-	-	T	T
Effect				
E1	-	-	T	-
E2	-	-	-	T
E3	T	T	-	-

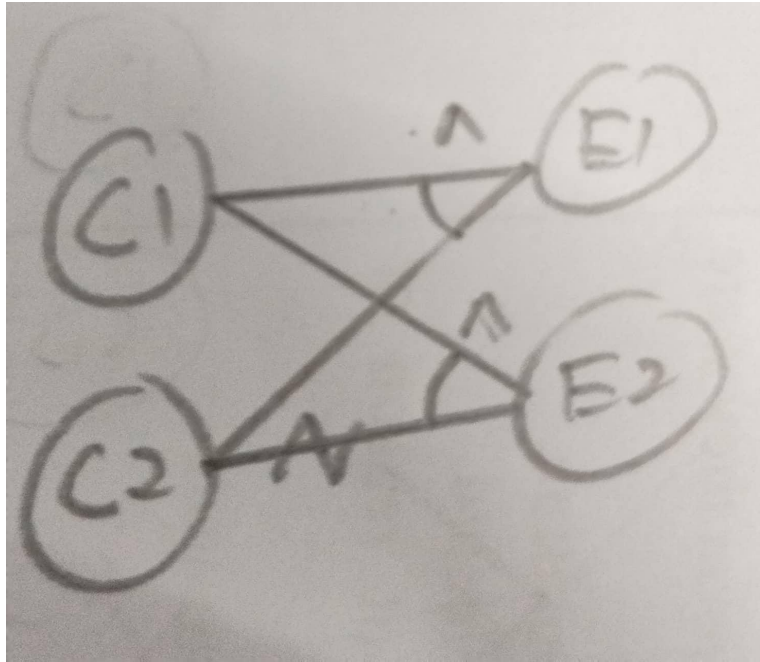


5. Delete Product

Assuming the sellers currently are unable to sell the product and need to isolate the product without deleting the details of the product, they can try to delist the product from any status to “Delisted”. These products will not be available to find by buyers. After that, they can publish these delisted products anytime they want.

Cause
C1: Existing Product C2: Confirm Delete Product
Effect
E1: Product Removed from “My Products” E2: Product still Existing

Condition	TC1	TC2
C1	T	T
C2	T	F
Effect		
E1	T	-
E2	-	T

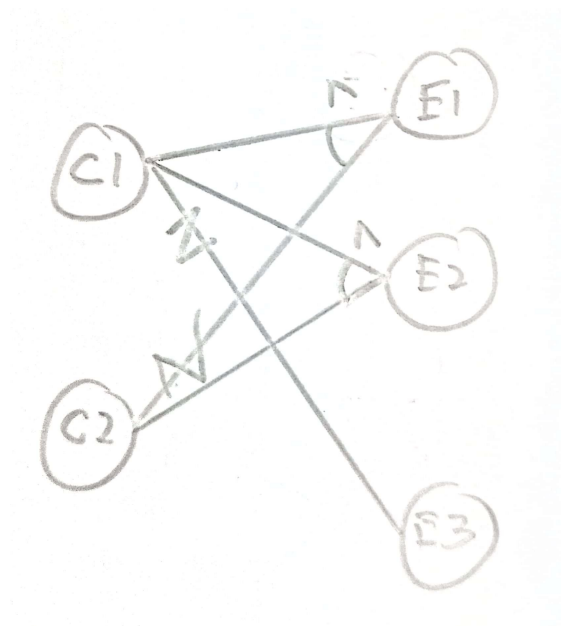


6. Bump Product

Assuming the sellers would like to promote their products without any expenses, they are able to bump their products to the top of the latest list in their category . These products will be able to be found out when they search for related category products more easily. “Live” status product will only be available for bumping service provided by Shopee. Besides, only 5 bump slot will be provided to the seller every 4 hours of bumping.

Cause
C1: “Live” Status Product C2: Full Bump Slot
Effect
E1: The product bump successfully E2: The product fail to bump E3: The product is unable to bump.

Condition	TC1	TC2	TC3
C1	T	T	F
C2	F	T	-
Effect			
E1	T	-	-
E2	-	T	-
E3	-	-	T



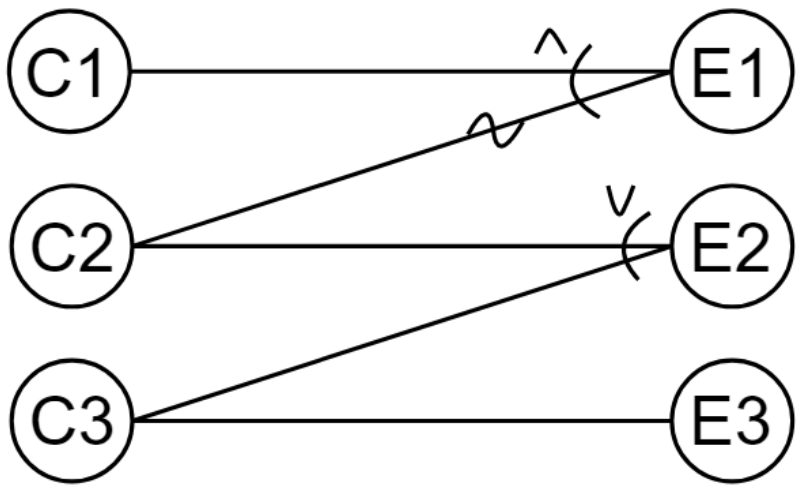
1.5.3.3 Cart

1. Apply voucher code

The apply voucher code will be available while the buyer adds products in the cart. Each of the products will have its own T&C for applying the voucher. For example, some of the sellers may not be providing the product using the voucher code so that the buyer will not be able to apply the voucher code onto the product. Some of the vouchers will be displayed as gray colour that means not in the T&C and couldn't be applied.

Cause
C1: Added a product in cart C2: The seller not providing voucher code C3: Voucher with gray color
Effect
E1: Apply valid voucher E2: Apply invalid voucher E3: View voucher T&C

Condition	TC1	TC2	TC3	TC4
C1	T	-	-	T
C2	F	F	T	-
C3	-	T	F	T
Effect				
E1	T	-	-	-
E2	-	T	T	-
E3	-	-	-	T

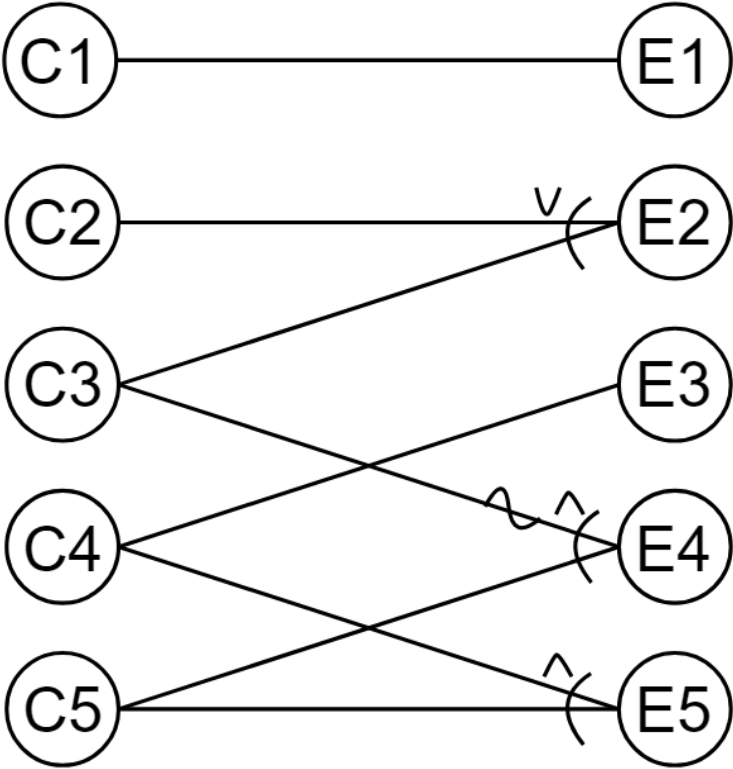


2. Add more products, Delete products and Edit Products

Some of the users may want to find similar products when they look through their cart. But they may also want to delete the unwanted products from their cart. As the Shopee System web application provides the functionality of finding similar products at the cart page, the buyer can choose which products they want to add to cart by choosing the variations products they want. If the wrong product is added they are also able to delete the product. After adding the products, the buyer may want to change the product color, size due to choosing the wrong option when adding. Some of the buyers may not choose the variations of product and causing the products couldn't be added or edited in the cart.

Cause
C1: Find similar products C2: Unwanted products C3: Added wrong products C4: Change color and size C5: Wrong action
Effect
E1: Add more products E2: Delete products E3: Edit products variation E4: Invalid add more products E5: Invalid edit products variation

Condition	TC1	TC2	TC3	TC4	TC5
C1	T	-	-	-	-
C2	-	T	-	-	-
C3	-	F	-	-	F
C4	-	-	T	T	-
C5	-	-		T	T
E1	T	-	-	-	-
E2	-	T	-	-	-
E3	-	-	T	-	-
E4	-	-	-	T	-
E5	-	-	-	-	T

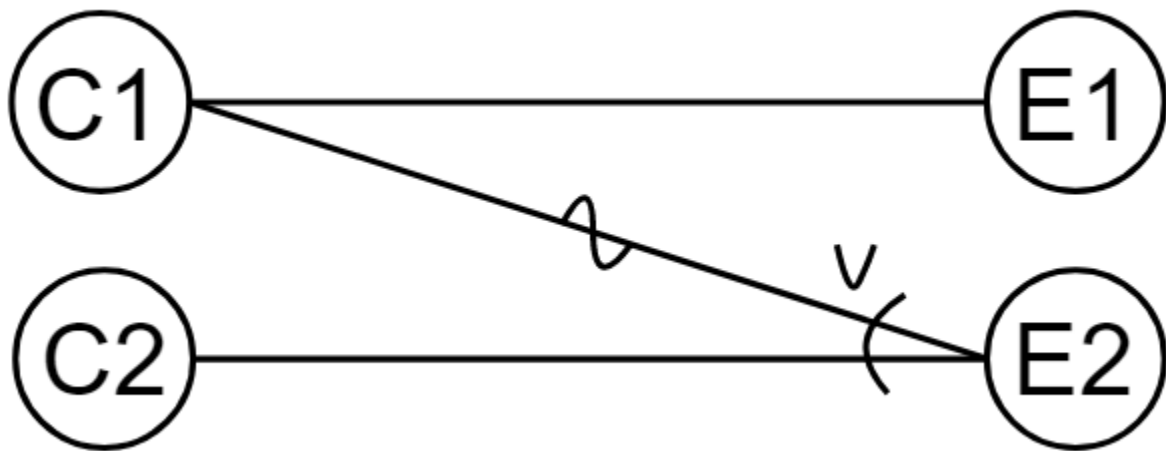


3. Check out

When the buyer registered the account without providing the address, there will be a check out button on the cart page. The check out would need the buyer to provide the valid full name, phone number, postal code and own address where currently living at, those details are used for the delivery. In addition, the system will validate whether the details that are provided by the buyer are valid or invalid. The system will show where the error is, such as some of the users may not see the column need to fill up.

Cause
C1: Provide the true details C2: Didn't fill up all the details
Effect
E1: Valid name and phone number E2: Invalid name and phone number

Condition	TC1	TC2	TC3
C1	T	-	-
C2	-	T	F
C3	-	F	T
E1	T	-	-
E2	-	T	T



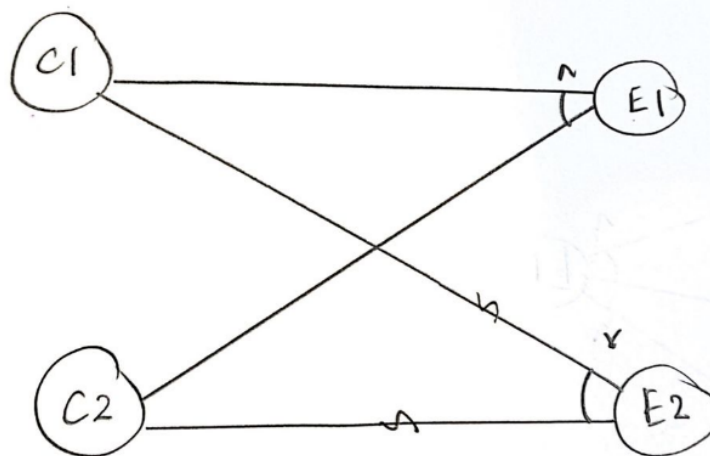
1.5.3.4 Payment

1.Credit Card

When users select a credit card as their payment method, they will need to make sure that their credit card is valid and not expired yet in order to pay successfully. Otherwise, if the credit card is not valid and expired, they can't pay successfully.

Cause
C1: Valid Credit Card C2: Credit Card Not Expired
Effect
E1: Payment Successful E2: Payment Unsuccessful

Condition	TC1	TC2	TC3	TC4
C1	T	T	F	F
C2	T	F	T	F
Effect				
E1	T	-	-	-
E2	-	T	T	T

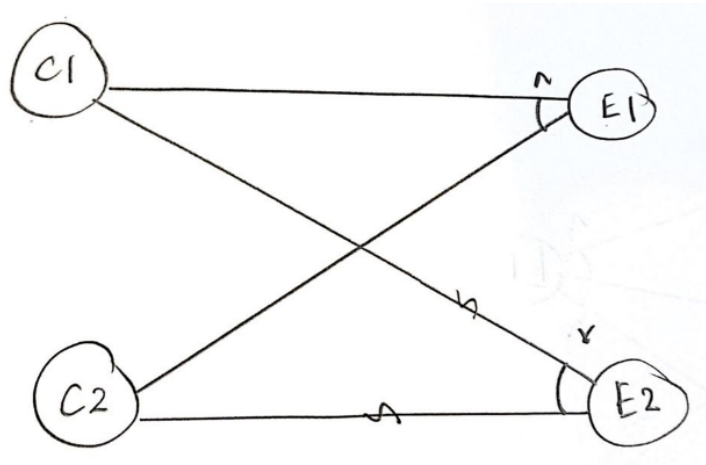


2. Debit Card & E-Wallet

When users select a debit card or E-Wallet as their payment method, they will need to ensure that their debit card and E-Wallet has sufficient funds. Besides that, they will need to ensure that their E-Wallet account is valid to proceed with the payment.

Cause
C1: Sufficient Funds C2: Valid Account
Effect
E1: Payment Successful E2: Payment Unsuccessful

Condition	TC1	TC2	TC3	TC4
C1	T	T	F	F
C2	T	F	T	F
Effect				
E1	T	-	-	-
E2	-	T	T	T

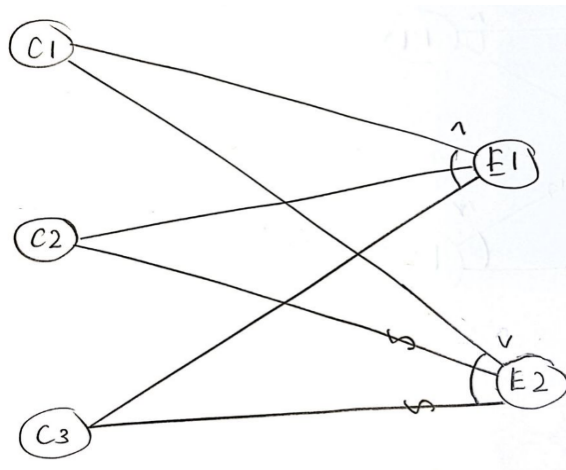


3. Online Banking

When users select online banking as their payment method, they will need to first select a bank. After selecting the bank, they will need to enter their valid username and password in order to log into their bank account to proceed with their payment.

Cause
C1: Select Bank C2: Enter Valid Username C3: Enter Valid Password
Effect
E1: Payment Successful E2: Payment Unsuccessful

Condition	TC1	TC2	TC3	TC4	TC5
C1	T	T	F	F	F
C2	T	F	T	F	F
C3	T	F	F	T	F
Effect					
E1	T	-	-	-	-
E2	-	T	T	T	T



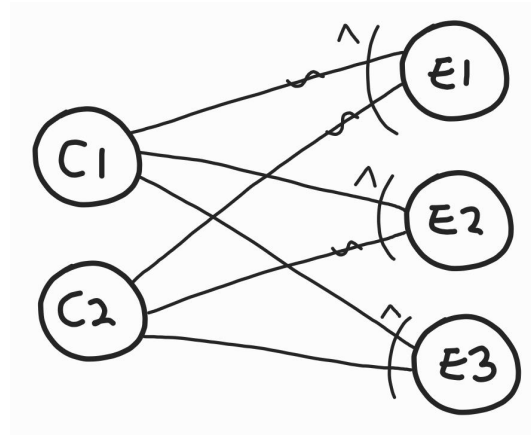
1.5.5.5 ShopeeFood

1. Add to basket

When a user wants to add an item with a subcategory into the basket, users have to select all the categories to add into the basket. If the item did not have any subcategories, it can be added directly to the basket. The user is not allowed to add different items from different restaurants into the basket, else the basket will clear the previous item to add the new item for the new restaurant.

Cause
C1: Add item without subcategory C2: Existing item from other restaurant
Effect
E1: Add into basket after select all subcategory E2: Add into basket E3: Clear and add into basket

Condition	T_SF_01	T_SF_02	T_SF_03
C1	T	F	T
C2	F	F	T
Effects			
E1	-	T	-
E2	T	-	-
E3	-	-	T

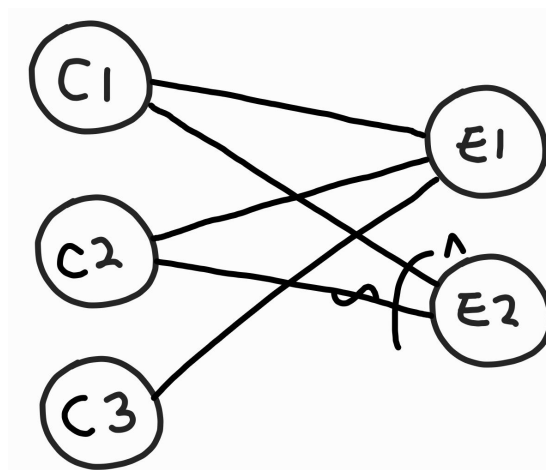


2. Modify basket

Assuming there is one item added into the basket, the user is able to adjust the amount of the item inside the basket either to increase or decrease. If it decreases until 0, the item will be removed from the basket. Users also allow them to add notes to the specific item.

Cause
C1: Item amount = 1 C2: Increase item amount C3: Add note
Effect
E1: Update item E2: Remove item

Condition	T_SF_04	T_SF_05	T_SF_06
C1	T	T	-
C2	T	F	-
C3	-	-	T
Effects			
E1	T	-	T
E2	-	T	-

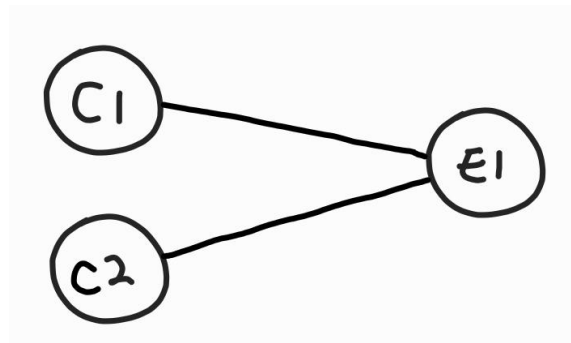


3. Searching

Users are allowed to search items through restaurant name or food and beverage name.

Cause
C1: Search with restaurant name C2: Search with food and beverage name
Effect
E1: Show relevant restaurant

Condition	T_SF_07	T_SF_08
C1	T	-
C2	-	T
Effects		
E1	T	T

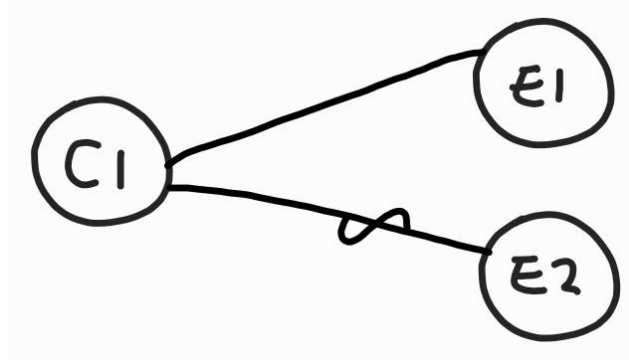


4. Checkout

Users are allowed to apply for a voucher to obtain a discount or cashback during checkout.

Cause
C1: Apply valid voucher
Effect
E1: Apply successful E2: Apply unsuccessful

Condition	T_SF_07	T_SF_08
C1	T	F
Effects		
E1	T	-
E2	-	T



1.5.4 Test Entry and Exit Criteria

1.5.4.1 Test Entry Criteria

Test Entry Criteria for the shoppe web application, we must ensure before the testing begins, every tester's pc and laptop must be able to browse the web application such as pc and laptop. Every hardware is required to handle the testing as well as the keyboard and mouse must be prepared also. Any software that will be used in the test is also required to be installed before starting the testing phase. The devices must have a stable WiFi connection. Testing tools, testing environments must be already set up and installed before the testing process starts. Test data must be prepared before testing and the testing data should be approved as logically and correctly.

1.5.4.2 Test Exit Criteria

Test Exit Criteria for the shopee web application will be met before testing is considered complete. To consider the testing phase complete is all test cases have been executed and ensure completion of one test cycle. More importantly of result the fail test case of the Shopee web application percentage must not exceed 5% while the pass test case of the Shopee web application case percentage shall exceed 95%.

1.5.5 Test Data Requirement

Test data is important during the software testing phase of the project. Test data typically refers to the data that is used to validate whether the functionality and quality of software systems fulfill the requirement. Therefore in our Shopee Web Application, the random test generators were used to input the random input values in the test cases. The examples of data that will be generated randomly in this project are field name, data type, data format and field size. The advantages of using random test will be it is fast and simple to implement since it does not require a deep understanding of software and it is cost-effective by only performing with minimal resources. Although it has many advantages, it may generate some low-quality test data, such as a different data format or out-of-range data, which may result in a different post-testing condition result.

1.5.5.1 User Module

Field Name	Data Type	Data Format	Field Size	Description	Example
Username	varchar	-	20	The valid username is used for users to login into the system.	testingRPA
Username	varchar	-	20	The invalid username is used for testing login purposes.	Joshua
Password	varchar	-	20	The valid password is used for the user to login into the system and able to change it via account management.	IloveShopee
Password	varchar	-	20	Invalid password for testing login purpose	IdontlikeShopee
Address	varchar	-	50	A valid User's address used for determining the position of the user for courier to deliver the parcel.	No 1, Lorong 1, Taman Bunga Raya, 52100, Persekutuan Kuala Lumpur
Phone number	integer	NNN-NNN NNNN / NNN-NNNN NNNN	10 / 11	A unique valid phone number used for contact between seller and user.	011-12345678
Phone number	integer	-	20	Invalid phone number.	01-2345
email	varchar	-	30	A valid email address for users as representation to register as a seller.	Adrian123@gmail.com
email	varchar	-	30	A invalid email address for users as representation to register as a seller.	Adriangmail.com
One Time Password (OTP)	integer	NNNNNN	6	Valid OTP for verification of user.	123456

1.5.5.2 Product Management Module

Field Name	Data Type	Data Format	Field Size	Description	Example
Product Name	String	-	50	A name of a product in real life.	Nescafe 3in1 Coffee
Product Description	String	-	120	To store the description about the product	The best coffee brand that you can find in Shopee.
Price	float	NNNNNNNN.NN	9.2	To store the price of a product.	19.99
Stock	Integer	NNNNNNNNNN	9	To store the quantity in stock the seller wants to sell.	30
Weight	double	NNN.NN	3.2	To store the weight of weight for estimating delivery	0.5 kg
Width	double	NNN.NN	3.2	To store the width of product for estimating delivery	10.0
Length	double	NNN.NN	3.2	To store the length of product for estimating delivery	30.0
Height	double	NNN.NN	3.2	To store the height of product for estimating delivery	40.0

1.5.5.3 Cart Module

Field Name	Data Type	Data Format	Field Size	Description	Example
Full Name	varchar	-	20	Valid	Joshua
Full Name	varchar	-	20	Invalid	J
Phone Number	varchar	-	10	Valid	0168873433
Phone Number	varchar	-	10	Invalid	0168873
Postal Code	integer	-	5	Valid	41200

1.5.5.4 Payment Module

Field Name	Data Type	Data Format	Field Size	Description	Example
Payment_id	String	-	20	Unique identifier for each payment transaction	“P0001”
Payment_amount	Decimal	-	10	The amount of payment	“RM99.90”
Payment_method	String	-	20	The payment method for transaction	“Credit Card”
Card-number	String	NNNN-NN NN-NNNN -NNNN	16	The credit card number when users uses credit card for payment	“5509-8700-3612-9341”
Card_expiry	String	MM/YY	5	The expiry date of credit card number when users uses credit card for payment	“12/25”
CVV	String	NNN	3	The CVV code of the credit card when users uses credit card for payment	“483”
Customer_name	String	-	50	The name of customer who made the payment	“Lee Wee Harn”
Email	String	-	50	The email of customer who made the payment	“lweeharn@gmail.com”
Phone_number	String	NNN-NN NNNNN	15	The phone number of the customer who made the payment.	“011-16231130”

1.5.5.5 ShopeeFood Module

Field Name	Data Type	Data Format	Field Size	Description	Example
Restaurant_name	String	-	50	Valid restaurant name for searching	KFC
FnB_name	String	-	50	Valid food and beverage name	Coke Cola
voucher_id	String	-	50	Valid voucher code to apply	VOUCHERCODE
voucher_id	String	-	50	Invalid voucher code to apply	*(&#!\$

1.5.6 Test Environment Requirement

1.5.6.1 Software

The software requirement in the test environment involved as below:

Software	Description	Example
Browser	To access to the shoppee page	Google chrome, Firefox, Microsoft Edge
Application		Shopee Application

1.5.6.2 Hardware

The hardware requirement in the test environment involved as below:

Hardware	Description	Example	
Computer	Devices to access into the website	Processor	Intel 3
		RAM	2GB or above
		ROM	20GB of SDD or above
		Operating System	Window 10 or above
Keyboard	Insert input to the PC	Logitech Signature K650	
Mouse		Logitech M720 Triathlon	
Wifi Router	Receive and send information for the Shopee website	Unifi	

1.5.6.3 RPA Tools

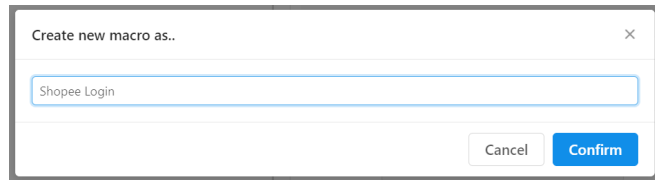
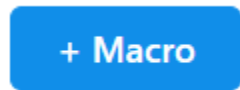
Robotic Process Automation(RPA) is a technology that enables the automation of repetitive tasks by mimicking human interaction with software systems. When used in testing, RPA can increase testing speed and accuracy, reduce errors and free up testers to focus on more complex tasks. In the testing phase for Shopee Web Application, the UI.Vision RPA tool is chosen for performing automated testing.

UI.Vision RPA, formerly known as Kantu is a free and open source RPA software. We chose UI.Vision from among many RPA tools because it offers numerous benefits, with the main benefits being ease of use. Unlike other RPA tools, UI.Vision did not require additional installation on the computer, only an extension on the browser, and was free to use. Additionally, the convenience of UI.Vision allows automated testing to be performed anywhere with just the test system and extension.

UI.Vision also includes some extra features such as extract text from images which are stored at the computer, manipulating and retrieving data from Ms Excel and word, data creation and manipulation, bot deployment, code reusability and recording. Thus, this RPA tool is not only available for automatically testing but also available for other tasks that might be used for daily tasks.

User manual on using UI.Vision

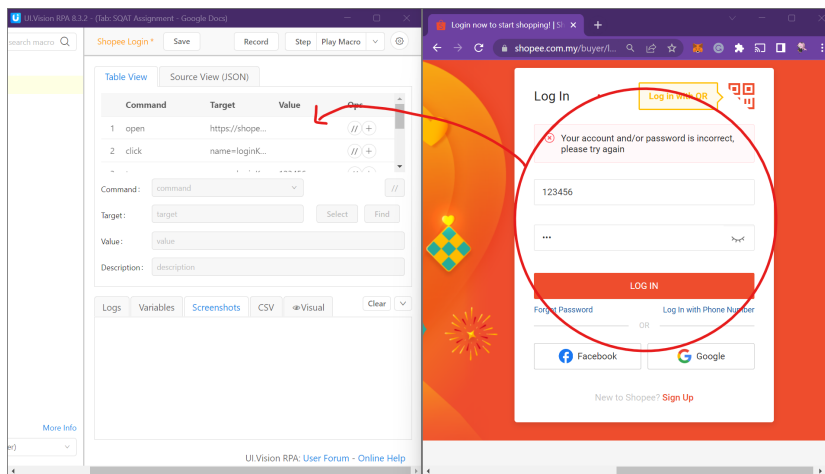
1. Click “+ Macro” at the top left corner, insert name and click confirm.



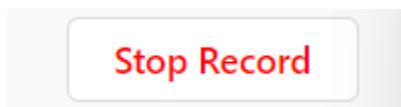
2. Click the “record” at the top right corner and start to perform the test on the browser.



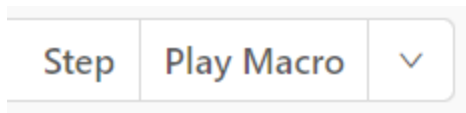
3. The steps shall be recorded while the test is performing.



4. Click “Stop Record” after finishing the testing.



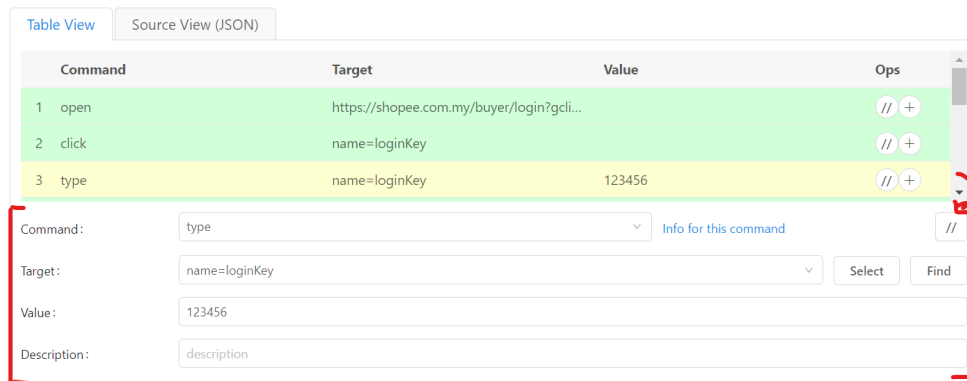
5. The replay the testing performance with the “Play Macro” at the top right.



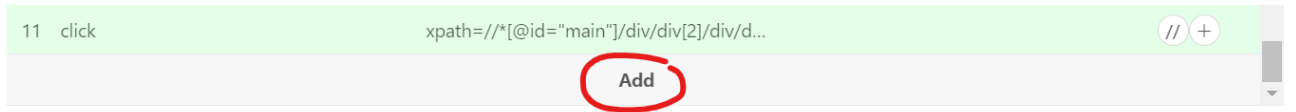
6. The testing result will be display at the log at the bottom.



7. After selecting the step, the modification can be made in the following area.



8. The extra step also can manually add with the add at the button of the step list.



1.6 Testing activities and estimates

1.6.1 Requirement Analysis

In the requirements analysis, we will be studying the Shopee web application and learning the function of the web application. We will also figure and identify the functional requirements and understand the requirements by studying the Shopee web application. After we study and understand the functional requirements, we will break those requirements into modules such as the User module, Product Management module, Cart module, Payment module and ShopeeFood module as well as understand each of the functionalities of modules.

1.6.2 Test Planning

During the test planning stage, a detailed schedule has been discussed on execution time of each phase within the time scheme. Furthermore, some test plan details also will be decided such as the objective, resources, test criteria, test strategy and test environment. This decision is to make sure the scheme of the testing is defined with the stakeholder agreement and produce a complete test plan. It also avoids any conflict in the future as all requirements can be referenced on the test plan.

1.6.3 Test Case Development

In this test case development, we will create test cases based on the test planning and the user scenario that we identified. All the requirements that are planned to be tested will generate at least one test case as a guideline in the future testing execution phase.

1.6.4 Environment Setup

In the environment setup for the Shopee web application, we are going to install the necessary software such as the testing tools (UI Vision) that we are using to test the test case we had designed. Other than that, the hardware such as the devices and network will also be set up as it can support the next step test execution.

1.6.5 Test Execution

In the test execution, we will execute the test case of the shopee web application as the environment and test case are done during the previous phase and get the expected actual result through the test data given that according to a test plan.

1.6.6 Test Cycle Closure

In this test cycle closure, we will ensure all the testing activities have been completed with passing the test cases with the least of minimum requirement 95%. After that will report the result to the project manager as including the summary of the testing result of Shopee Web Application.

1.7 Staffing

1.7.1 Roles, activities, and responsibilities

Name	Role	Activity	Responsibilities
Ho Wen Ting	Quality Assurance Analyst	Conduct testing on software websites.	Ensuring the quality of software products and services meet customers expectations.
Hing Zi Hui	Test Manager	Allocate testing task to software tester and leading the testing phase	Define test strategy, create test plans and test cases, and manage testing resources to ensure the Shopee Web Application meets the required quality standards and is delivered on time and on budget.
Joshua Chong ZhiGuang	Project Manager	Develop the project plans, allocate resources, monitor the progress, manage the tester for handle which part.	To plan the overall project, the environment of the project as well as documentation of the report of overall testing.
Lee Wee Harn	Developer	Creating and designing the website UI, develops the website backend	In charge of building the website and making sure it is user-friendly, secure, and functional for clients.
Lee Chen Hong	Business Analyst	Analyze the business logic of the system and manage the result.	To make sure the testing team is using the correct and valid business logic for the project.

1.8 Schedule

Phase	Activity Involved	Staff Involved	Duration	Start - End
Test Planning	Website study	Project Manager Developer, Quality Assurance Analyst	14 days	7/2/2023 - 20/2/2023
	Module identify		7days	24/2/2023 - 2/3/2023
	Test plan design	Business Analyst	31days	4/3/2023 - 3/4/2023
Test Case Development	User Module test cases design	Hing Zi Hui	20 days	8/4/2023 - 17/4/2023
	Product Management Module test cases design	Lee Chen Hong		10/4/2023 - 19/4/2023
	Cart Module test cases design	Joshua Chong		12/4/2023 - 21/4/2023
	Payment Module test cases design	Lee Wee Harn		14/4/2023 - 23/4/2023
	ShopeeFood Module test cases design	Ho Wen Ting		16/4/2023 - 25/4/2023
Review Readiness	Test case analyze with requirement	Test Manager, Quality Assurance Analyst	31 days	2/5/2023 - 16/5/2023
	Test case review			18/5/2023 - 1/6/2023
Test Execution	User Module test cases execution	Hing Zi Hui	20 days	8/6/2023 - 17/6/2023
	Product Management Module test cases execution	Lee Chen Hong		10/6/2023 - 19/6/2023
	Cart Module test cases execution	Joshua Chong		12/6/2023 - 21/6/2023
	Payment Module test cases execution	Lee Wee Harn		14/6/2023 - 23/6/2023
	ShopeeFood Module test cases execution	Ho Wen Ting		16/6/2023 - 25/6/2023

2. Test Case Specifications

2.1 Overview

Test case is designed based on the possible situation which includes positive and negative compliance with the specific requirement that is discussed in the test plan. It outlines the steps, expected results and test data for a specific test case. The testers can refer to the test case as a guide to execute and ensure the tested requirements are met with the required specification.

The test case specification that used for Shopee application included the following information:

Item(s)	Description
Test Case #	A unique identifier for each test case.
Test Case Name	Name of the test case.
Short Description	A brief description of the test case.
Objective	A statement outlines the intention of the test case.
Pre-condition	A condition required before executing the test case.
Post-condition	A condition shall exist after executing the test case.
Test Steps	A detailed description of the action shall be performed for the test case.
Expected System Response	The expected outcome of the test case.
Pass/Fail	The criteria for determining whether the test case has passed or failed.
Comments	A comments section for testers to leave messages throughout the execution.

2.2 References

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3. Test Cases

3.1 User Module

Test Case Template (Doc: T_U_01)

Test Case #: T_U_01	Test Case Name: User Registration Function
System: Shopee	Subsystem: 3/4/2023
Design By: Hing Zi Hui	Design Date: 8/4/2023
Executed By: Hing Zi Hui	Execution Date: 8/6/2023
Short Description: To test user register with valid phone number and valid OTP	

Pre-conditions: -

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click on navigation for Registration page	System will prompt the user to insert the phone number to register.		
2	Provide valid phone number Phone number: 012-9984343	System will show a green ✓ to show a valid phone number inserted		.
3	Click on NEXT button	System will prompt the user to insert the OTP that is sent to the phone number.		
4	Provide valid OTP			

	OTP: 123456			
5	Click on the Register button	System will show a message “Successful register as user” and redirect the user to the account management page of the system.		

Post-conditions:

User is added into the database and successfully registered with the phone number. The account session details are logged in the database. User is navigated to the account management page.

Test Case Template (Doc: T_U_02)

Test Case #: T_U_02	Test Case Name: User Registration Function
System: Shopee	Subsystem:
Design By: Hing Zi Hui	Design Date: 9/4/2023
Executed By: Hing Zi Hui	Execution Date: 9/6/2023
Short Description: To test user register with invalid phone number	

Pre-conditions: -

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click on navigation for Registration page	System will prompt the user to insert the phone number to register.		
2	Provide invalid phone number Phone number: 01-2345	System will display a message “invalid phone number entered” and close the function for the NEXT button.		

Post-conditions: User not able to register with an invalid phone number.
--

Test Case Template (Doc: T_U_03)

Test Case #: T_U_03	Test Case Name: Seller Registration function
System: Shopee	Subsystem:
Design By: Hing Zi Hui	Design Date: 10/4/2023
Executed By: Hing Zi Hui	Execution Date: 10/6/2023
Short Description: To test a user register as seller with valid email and valid address.	

Pre-conditions: User must have a registered account and login into the system.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click on navigation for seller registration page	System will prompt the user to insert the IC number.		
2	Provide valid Email address email: Adrian123@gmail.com	System will show a green ✓ to show a valid email address inserted		
3	Click on NEXT button	System will prompt the user to insert the address for the pickup address.		
4	Enter a valid address address: No 1, Lorong 1, Taman Bunga Raya, 52100, Persekutuan Kuala Lumpur	System will show a green ✓ to show a valid address inserted.		
5	Click on the Confirm button	System will pop up a message, "You have successfully registered as seller"		

Post-conditions:

User's email and address has successfully been recorded and registered as a seller.

Test Case Template (Doc: T_U_04)

Test Case #: T_U_04	Test Case Name: Seller Registration function
System: Shopee	Subsystem:
Design By: Hing Zi Hui	Design Date: 11/4/2023
Executed By: Hing Zi Hui	Execution Date: 11/6/2023
Short Description: To test a user register as seller with invalid email.	

Pre-conditions: User must have a registered account and login into the system.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click on navigation for seller registration page	System will prompt the user to insert the IC number.		
2	Provide a invalid Email address email: Adriangmail.com	System will display a message “invalid email address entered” and close the function for the NEXT button.		

Post-conditions:
User not able to register as a seller with an invalid email address.

Test Case Template (Doc: T_U_05)

Test Case #: T_U_05	Test Case Name: User login function
System: Shopee	Subsystem:
Design By: Hing Zi Hui	Design Date: 12/4/2023
Executed By: Hing Zi Hui	Execution Date: 12/6/2023
Short Description: To test user login with valid username and valid password.	

Pre-conditions: User must have a registered account.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Navigate to login page	System will prompt the user to insert the username and password.		
2	Provide valid username Username: testingRPA			
3	Provide valid password Password: IloveShopee			
4	Click on the login button	System will redirect user to the main page of the system.		

Post-conditions: User is validated with the database and successfully logs into the account. The account session details are logged in the database. User is navigated to the main page.
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Test Case Template (Doc: T_U_06)

Test Case #: T_U_06	Test Case Name: User login function
System: Shopee	Subsystem:
Design By: Hing Zi Hui	Design Date: 13/4/2023
Executed By: Hing Zi Hui	Execution Date: 13/6/2023
Short Description: To test user login with invalid username and invalid password	

Pre-conditions: -

Step	Action	Expected System Response	Pass/Fail	Comments
1	Navigate to login page	System will prompt the user to insert the username and password.		
2	Provide invalid username Username: Joshua			
3	Provide invalid password Password: IdontlikeShopee			
4	Click on the Login button	System will pop up an error message, "Invalid username or password entered, Please try again."		

Post-conditions: User's username and password was validated and an error message was displayed. User will remain in the login page and the system will prompt the user to enter again.
--

Test Case Template (Doc: T_U_07)

Test Case #: T_U_07	Test Case Name: Edit account function
System: Shopee	Subsystem:
Design By: Hing Zi Hui	Design Date: 14/4/2023
Executed By: Hing Zi Hui	Execution Date: 14/6/2023
Short Description: To test user edit phone number with valid OTP in the account management.	

Pre-conditions: User must have a registered account and login into the system.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click on Account button	System will redirect the user to the account information page.		
2	Click on the Edit button beside the phone number field.	System will prompt the user to enter a new phone number.		
3	Provide a valid phone number Phone number: 011-12345678	System will show a green ✓ to show a valid phone number entered.		
4	Click on the NEXT button	System will prompt the user to insert the OTP that is sent to the phone number.		
5	Provide the valid OTP and click Confirm button	System will show a successful message "Successfully update the phone number."		

	OTP: 123456			
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Post-conditions:

The phone number of the user will be changed and updated into the database.

Test Case Template (Doc: T_U_08)

Test Case #: T_U_08	Test Case Name: Edit account function
System: Shopee	Subsystem:
Design By: Hing Zi Hui	Design Date: 15/4/2023
Executed By: Hing Zi Hui	Execution Date: 5/6/2023
Short Description: To test user edit username in the account management.	

Pre-conditions: User must have a registered account and login into the system.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click on Account button	System will redirect the user to the account information page.		
2	Click on the Edit button beside the username field.	System will prompt the user to enter a new username.		
3	Provide a valid username Username: Joshua123	System will show a green ✓ to show a valid username entered.		
4	Click on the Confirm button	System will show a message “Successfully edit username”.		

Post-conditions:

The username of the user will be changed and updated into the database.

Test Case Template (Doc: T_U_09)

Test Case #: T_U_09	Test Case Name: User Chat function
System: Shopee	Subsystem:
Design By: Hing Zi Hui	Design Date: 16/4/2023
Executed By: Hing Zi Hui	Execution Date: 16/6/2023
Short Description: To test the seller can send a message to the customer with a chat function.	

Pre-conditions: User must have a registered account with registered as seller and login into the system.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Select a customer to chat	System will display a private communication page between the user and the customer.		
2	Enter message: Hi customer, what can I help you?			
3	Click on SENT > arrow	The message will be sent to the customer and show a ✓ for successfully sent and ✓✓ for received by the customer.		

Post-conditions:

The message was successfully sent to the customer and recorded into the database.

Test Case Template (Doc: T_U_10)

Test Case #: T_U_10	Test Case Name: User Chat function
System: Shopee	Subsystem:
Design By: Hing Zi Hui	Design Date: 17/4/2023
Executed By: Hing Zi Hui	Execution Date: 117/6/2023
Short Description: To test the customer can send a message to the seller with a chat function.	

Pre-conditions: User must have a registered account and login into the system.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Select a seller to chat	System will display a private communication page between the user and the seller.		
2	Enter message: Hi seller, can I ask you something?			
3	Click on SENT > arrow	The message will be sent to the customer and show a ✓ for successfully sent and ✓✓ for received by the seller.		

Post-conditions:

The message was successfully sent to the seller and recorded into the database.

3.2 Product Management Module

Test Case Template (Doc: T_PM_01)

Test Case #: T_PM_01	Test Case Name: Add New Product
System:Shopee	Subsystem: Seller
Design By: Lee Chen Hong	Design Date: 10/4/2023
Executed By:	Execution Date: 10/6/2023
Short Description: To test the functionality of adding a new product with valid data.	

Pre-conditions: Tester must log in an account with a valid seller store. The tester must be on the “My Products” page.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click the “Add New Products”	Navigate to the “Add Product” page.		
2	Click “Add Photo”	Navigate to your Photo library.		
3	Select a photo Photo: TestImage01.jpg	The photo will be uploaded on “My Product” as a product photo.		
4	Provide valid product information. Product Name: Nescafe 3in1 Coffee Product Description: The best coffee brand	System will show a red color message on the box if the data is invalid until the data becomes valid.		

	that you can find in Shopee. Price: RM 19.99 Stock: 30 Category: Food & Beverage > Beverages > Coffee Brand: Nescafe Drink Form: 3-in-1 & Instant Coffee			
5	Click “Shipping”	Navigate to “Shipping Fee”		
6	Provide Product weight and size. Weight: 0.5 kg Width: 10 cm Length: 30 cm Height: 40 cm	System will automatically calculate the shipping fee for the product.		
7	Turn on “Standard Delivery” and click “Save”.	The “Standard Delivery” service will be enabled as the primary delivery method for this product.		
8	Click “Publish”	A message “ Product Published Successfully” will pop out.		

Post-conditions:

The product is able to view through opening “My Products” and under “Live” status.

Test Case Template (Doc: T_PM_02)

Test Case #: T_PM_02	Test Case Name: Add Product
System:Shopee	Subsystem: Seller
Design By: Lee Chen Hong	Design Date: 11/4/2023
Executed By:	Execution Date: 11/6/2023
Short Description: To test the functionality of adding a new product with valid data but without stock number.	

Pre-conditions:

Tester must log in an account with a valid seller store.The tester must be on the “My Products” page.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click the “Add New Products”	Navigate to “Add Product” page.		
2	Click “Add Photo”	Navigate to your Photo library.		
3	Select a photo Photo: TestImage01.jpg	The photo will be uploaded on “My Product” as a product photo.		
4	Provide valid product information. Product Name: Nescafe 3in1 Coffee Product Description: The best coffee brand that you can find in Shopee. Price: RM 19.99	System will show a red color message on the box if the data is invalid until the data becomes valid.		

	Category: Food & Beverage > Beverages > Coffee Brand: Nescafe Drink Form: 3-in-1 & Instant Coffee			
5	Click “Shipping”	Navigate to “Shipping Fee”		
6	Provide Product weight and size. Weight: 0.5 kg Width: 10 cm Length: 30 cm Height: 40 cm	System will automatically calculate the shipping fee for the product.		
7	Turn on “Standard Delivery” and click “Save”.	The “Standard Delivery” service will be enabled as the primary delivery method for this product.		
8	Click “Publish”	A message “ Product Published Successfully” will pop out.		

Post-conditions:

The product is able to view through opening “My Products” and under “Sold Out” status.

Test Case Template (Doc: T_PM_03)

Test Case #: T_PM_03	Test Case Name: Search Product Existing Product
System:Shopee	Subsystem: Seller
Design By: Lee Chen Hong	Design Date: 12/4/2023
Executed By:	Execution Date: 12/6/2023
Short Description: To test the functionality of searching an existing product name with valid name.	

Pre-conditions:

Tester must log in an account with a valid seller store. Testers must have a product with provided data.The tester must be on the “My Products” page.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click the “Magnify Glass” icon.	The search bar will prompt and ready to receive input.		
2	Insert search input and click search icon. Input: Nescafe 3in1 Coffee	The “Nescafe 3in1 Coffee” product shows on screen.		
3	Click “Cancel”	Navigate to the “My Products” page.		

Post-conditions:

Tester should able to go back to "My Products" without logout.

Test Case Template (Doc: T_PM_04)

Test Case #: T_PM_04	Test Case Name: Search Product Non-existing Product
System:Shopee	Subsystem: Seller
Design By: Lee Chen Hong	Design Date: 13/4/2023
Executed By:	Execution Date: 13/6/2023
Short Description: To test the functionality of searching an non-existing product name.	

Pre-conditions:

Tester must log in an account with a valid seller store. The tester must be on the “My Products” page.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click the “Magnify Glass” icon.	The search bar will prompt and ready to receive input.		
2	Insert search input and click search icon. Input: Coffee Bean	The message “No result found” shows on screen.		
3	Click “Cancel”	Navigate to the “My Products” page.		

Post-conditions:

- Tester should able to go back to "My Products" without logout.

Test Case Template (Doc: T_PM_05)

Test Case #: T_PM_05	Test Case Name: Edit “Live” Status Product Stock
System:Shopee	Subsystem: Seller
Design By: Lee Chen Hong	Design Date: 14/4/2023
Executed By:	Execution Date: 14/6/2023
Short Description: To test the functionality of editing an existing “Live” status product with valid data.	

Pre-conditions:

Tester must log in an account with a valid seller store. Testers must have a product with provided data and the product must be under “Live” status. The tester must be on the “My Products” page.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click the “Edit” button of the product.	Navigate to the product details page.		
2	Update the product stock quantity. Stock: 0	0 successfully inserted into the stock column.		
3	Click “Publish”	A message “ Product Published Successfully” will pop out.		

Post-conditions:

The product will be automatically changed to “Sold Out” status.

Test Case Template (Doc: T_PM_06)

Test Case #: T_PM_06	Test Case Name: Edit “Sold Out” status Product Stock 2
System:Shopee	Subsystem: Seller
Design By: Lee Chen Hong	Design Date: 15/4/2023
Executed By:	Execution Date: 15/6/2023
Short Description: To test the functionality of editing an existing “Sold Out” Status product with valid data.	

Pre-conditions:

Tester must log in an account with a valid seller store. Testers must have a product with provided data and the product must be under “Sold Out” status. The tester must be on the “My Products” page.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click “Sold Out”	Navigate to the “Sold Out” status product page.		
2	Click the “Edit” button of the product.	Navigate to the product details page.		
3	Update the product stock quantity. Stock: 50	50 successfully inserted into the stock column.		
4	Click “Publish”	A message “ Product Published Successfully” will pop out.		

Post-conditions:

The product will be published with a new stock quantity of 50 and the product status will be changed from “Sold Out” to “Live”.

Test Case Template (Doc: T_PM_07)

Test Case #: T_PM_07	Test Case Name: Delist Product
System:Shopee	Subsystem: Seller
Design By: Lee Chen Hong	Design Date: 16/4/2023
Executed By:	Execution Date: 16/6/2023
Short Description: To test the functionality of delisting an existing “Live” status product.	

Pre-conditions:

Testers must log in an account with a valid seller store. Testers must have a product with provided data and the product must be under “Live” status. The tester must be on the “My Products” page.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click “Delist” below the cover photo of product	A confirmation message will prompt out.		
2	Click “Confirm”	A message “ Product Delisted Successfully” will pop out.		

Post-conditions:

The product will be delisted and the product status changed from “Live” to “Delisted”. The product will not be found by others.

Test Case Template (Doc: T_PM_08)

Test Case #: T_PM_07	Test Case Name: Delete Product
System: Shopee	Subsystem: Seller
Design By: Lee Chen Hong	Design Date: 17/4/2023
Executed By:	Execution Date: 17/6/2023
Short Description: To test the functionality of delete an existing product.	

Pre-conditions:

Tester must log in an account with a valid seller store. Testers must have a product with provided data and the product can be under any status. The tester must be on the “My Products” page.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click 3 dot icon of the product	The list box will drop down.		
2	Click “Delete”	A confirmation message will prompt out.		
3	Click “Confirm”	A message “ Product Deleted Successfully” will pop out.		

Post-conditions:

The product will be removed from “My Products”.

Test Case Template (Doc: T_PM_09)

Test Case #: T_PM_09	Test Case Name: Valid Bump Product
System: Shopee	Subsystem: Seller
Design By: Lee Chen Hong	Design Date: 18/4/2023
Executed By:	Execution Date: 18/6/2023
Short Description: To test the functionality of promoting an existing “Live” status product on available slot.	

Pre-conditions:

Tester must log in an account with a valid seller store. Testers must have a product with provided data and the product must be under “Live” status. The tester must be on the “My Products” page. The number of bumped products are less than 5.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click 3 dot icon of the product	The list box will drop down.		
2	Click “Bump”	Navigate to the “Introduction of Bump” page. The product cover photo will show on the slot with a 4 hour countdown timer.		

Post-conditions:

-The product successfully bump to public

Test Case Template (Doc: T_PM_10)

Test Case #: T_PM_10	Test Case Name: Invalid Bump Product
System: Shopee	Subsystem: Seller
Design By: Lee Chen Hong	Design Date: 19/4/2023
Executed By:	Execution Date: 19/6/2023
Short Description: To test the functionality of promoting an existing “Live” status product but with full slots	

Pre-conditions:

Tester must log in an account with a valid seller store. Testers must have a product with provided data and the product must be under “Live” status. The tester must be on the “My Products” page. The number of bumped products is equal to 5.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click 3 dot icon of the product	The list box will drop down.		
2	Click “Bump”	Navigate to the “Introduction of Bump” page. The message “Bump slots are full, you have to wait up to 4 hours to re-use the slots” will prompt out.		

Post-conditions: The product fails to bump to Public.

3.3 Cart Module

Test Case Template (Doc: T_C_01)

Test Case #: T_C_01	Test Case Name: Apply valid voucher
System: Shopee	Subsystem: Cart Module
Design By: Joshua Chong ZhiGuang	Design Date: 12/4/2023
Executed By: Joshua Chong ZhiGuang	Execution Date: 12/6/2023
Short Description: To test the buyer able to apply a voucher	

Pre-conditions: Buyer must login and add a product to cart.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Navigate to cart page			
2	Select the product	Show a ✓ beside the product		
3	Click the button “ Select Or Enter Code ”	Display the voucher for the buyer, then the buyer will able to select the voucher		
4	Click circle box beside the voucher and click ‘OK’	Show a ✓ in the circle that beside the voucher and the voucher successful apply	PASS	

Post-conditions: Successful apply the voucher, the price will be change or no follow the discount given

Test Case Template (Doc: T_C_02)

Test Case #: T_C_02	Test Case Name: Apply invalid voucher
System: Shopee	Subsystem: Cart Module
Design By: Joshua Chong ZhiGuang	Design Date: 13/4/2023
Executed By: Joshua Chong ZhiGuang	Execution Date: 13/6/2023
Short Description: To test the buyer not able to apply a invalid voucher	

Pre-conditions: Buyer must login and add a product to cart.
--

Step	Action	Expected System Response	Pass/Fail	Comments
1	Navigate to cart page			
2	Select the product	Show a ✓ beside the product		
3	Click the button “ Select Or Enter Code ”	Display the voucher for the buyer, then the buyer will able to select the voucher		
4	Click circle box beside the voucher and click ‘OK’	Show a ✓ in the circle that beside the voucher and the voucher successful apply	PASS	

Post-conditions: Unsuccessful apply the voucher
--

Test Case Template (Doc: T_C_03)

Test Case #: T_C_03	Test Case Name: View voucher T&C
System: Shopee	Subsystem: Cart Module
Design By: Joshua Chong ZhiGuang	Design Date: 14/4/2023
Executed By: Joshua Chong ZhiGuang	Execution Date: 14/6/2023
Short Description: To test buyer able to search the product as input the name with casing only	

Pre-conditions: Buyer must login and add a product to cart.
--

Step	Action	Expected System Response	Pass/Fail	Comments
1	Navigate to cart page			
2	Select the product	Show a ✓ beside the product		
3	Click the button “ Select Or Enter Code ”	Display the voucher for the buyer, then the buyer will able to select the voucher		
4	Click the red message below the voucher	Pop out a new window and the buyer able to view the T&C	PASS	

Post-conditions: Display the T&C Details and the user able to view the T&C

Test Case Template (Doc: T_C_04)

Test Case #: T_C_04	Test Case Name: Add more product
System: Shopee	Subsystem: Cart Module
Design By: Joshua Chong ZhiGuang	Design Date: 15/4/2023
Executed By: Joshua Chong ZhiGuang	Execution Date: 15/6/2023
Short Description: To test the buyer not able to added the product when select 0 quantity	

Pre-conditions: Buyer must login and add a product to cart.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Navigate to cart page			
2	Click “Find Similar” button at the right side of product	Show the similar products and the buyer is able to choose.		
3	Click the product that shown	Navigate to the product page.		
4	Select the color, size or spec that is given	The system will show a message “Item has successful added to you cart”	PASS	

Post-conditions: The product was successfully added to cart.

Test Case Template (Doc: T_C_05)

Test Case #: T_C_05	Test Case Name: Invalid add more product
System: Shopee	Subsystem: Cart Module
Design By: Joshua Chong ZhiGuang	Design Date: 16/4/2023
Executed By: Joshua Chong ZhiGuang	Execution Date: 16/6/2023
Short Description: To test, the buyer is able to add more products to the cart.	

Pre-conditions: Buyer must login and add a product to cart.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Navigate to cart page			
2	Click “ Find Similar ” button at the right side of product	Show the similar products and the buyer is able to choose.		
3	Click the product that shown	Navigate to the product page.		
4	Didn't select the color, size or spec	The system will show a message “Please select the product variation first”	PASS	

Post-conditions: The product is unsuccessful to cart.

Test Case Template (Doc: T_C_06)

Test Case #: T_C_06	Test Case Name: Delete Product
System: Shopee	Subsystem: Cart Module
Design By: Joshua Chong ZhiGuang	Design Date: 17/4/2023
Executed By: Joshua Chong ZhiGuang	Execution Date: 17/6/2023
Short Description: To test the buyer able to delete the product from cart page	

Pre-conditions: Buyer must login and add a product to cart.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Navigate to cart page			
2	Click the button ' Delete '	The product will be removed from the cart page	PASS	

Post-conditions: The product deleted from the cart.

Test Case Template (Doc: T_C_07)

Test Case #: T_C_07	Test Case Name: Edit Product variation (Positive scenario)
System: Shopee	Subsystem: Cart Module
Design By: Joshua Chong ZhiGuang	Design Date: 18/4/2023
Executed By: Joshua Chong ZhiGuang	Execution Date: 18/6/2023
Short Description: Test the buyer able to edit the product variation.	

Pre-conditions: Buyer must login and add a product to cart.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Navigate to cart page			
2	Click the button 'Variations' that will show beside the product.	The system will pop a small window for letting the user choose the variations		
3	Select the color, size or spec and click 'Confirm'	The system will close the small window and the product variation will be changed based on the buyer edit.	PASS	

Post-conditions: The product successfully changes.
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Test Case Template (Doc: T_C_08)

Test Case #: T_C_08	Test Case Name: Edit Product Variation (Negative Scenario)
System: Shopee	Subsystem: Cart Module
Design By: Joshua Chong ZhiGuang	Design Date: 19/4/2023
Executed By: Joshua Chong ZhiGuang	Execution Date: 19/6/2023
Short Description: Test the buyer able to edit the product variation.	

Pre-conditions: Buyer must login and add a product to cart.
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Step	Action	Expected System Response	Pass/Fail	Comments
1	Navigate to cart page			
2	Click the button 'Variations' that will show beside the product.	The system will pop a small window for letting the user choose the variations		
3	Didn't select the color, size or spec and click 'Confirm'	The system will still remain on the small window.	PASS	
4				

Post-conditions: The product is unsuccessfully to edit.
--

Test Case Template (Doc: T_C_09)

Test Case #: T_C_09	Test Case Name: Check out
System: Shopee	Subsystem: Cart
Design By: Joshua Chong ZhiGuang	Design Date: 20/4/2023
Executed By: Joshua Chong ZhiGuang	Execution Date: 20/6/2023
Short Description: Test the buyer is able to add a new address for delivery by inputting valid details	

Pre-conditions: Buyer must login, add a product to cart and haven't filled up the address.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Navigate to cart page			
2	Click the ' Check out ' button	The system will pop out a small window		
3	Provide valid details: Full Name: Joshua Phone Number: 0168873433 Postal Code:41200	The system will display a confirmation message to the buyer.		
4	Click ' Submit '	The system will display the location that you pin on the map for confirmation.		
5	Click ' Confirm ' and ' Submit '	The system will successfully added the address to the buyer	PASS	

Post-conditions: The address successfully added.

Test Case Template (Doc: T_C_10)

Test Case #: T_C_10	Test Case Name: Invalid check out
System: Shopee	Subsystem: Cart
Design By: Joshua Chong ZhiGuang	Design Date: 21/4/2023
Executed By: Joshua Chong ZhiGuang	Execution Date: 21/6/2023
Short Description: Test the buyer is able to add a new address for delivery by inputting invalid details	

Pre-conditions: Buyer must login, add a product to cart and haven't filled up the address.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Navigate to cart page			
2.	Click the ' Check out ' button			
3.	Provide invalid details: Full Name: J Phone Number: 0168873 Postal Code: 444			
4.	Click ' Submit '	The system will pop a message for invalid details and display a message for: Full Name, 'Name is too short. The name must be 2 characters or more.' Phone Number, 'Invalid Phone' Postal Code, 'Invalid Postal Code'	PASS	

Post-conditions: The address is not able to be added.

3.4 Payment Module

Test Case Template (Doc: T_P_01)

Test Case #: T_P_01	Test Case Name: Valid Credit Card Number
System: Shopee	Subsystem: Payment
Design By: Lee Wee Harn	Design Date: 14/4/2023
Executed By: Lee Wee Harn	Execution Date: 14/6/2023
Short Description: To test the system output when users enter a valid card number during payment.	

Pre-conditions: Select credit card as payment method during payment process.
--

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click on payment button on navigation bar	System will show the price and order details		
2	Select credit card as payment method	System will require users to enter credit card number, expiry date and CVV		
3	Enter a valid credit card number Credit card number: 5509-8100-6942-9561 Expiry date: 12/25 CVV: 487	System will show a green “✓” to show a valid credit card number , expiry date and CVV is inserted.		
4	Click on “Next” button	System will show payment details and seek confirmation from users.		

5	Click “Confirm”	System will show payment successful		
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Post-conditions:

Payment is successful if the card number is valid and the payment process is confirmed.

Test Case Template (Doc: T_P_02)

Test Case #: T_P_02	Test Case Name: Invalid Credit Card Number
System:Shopee	Subsystem: Payment
Design By: Lee Wee Harn	Design Date: 15/4/2023
Executed By: Lee Wee Harn	Execution Date: 15/6/2023
Short Description: To test the system ability to handle invalid credit card numbers during payment.	

Pre-conditions:
Select credit card as payment method

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click on payment button on navigation bar	System will show the price and order details		
2	Select credit card as payment method	System will require users to enter a credit card number, expiry date and CVV.		
3	Enter an invalid credit card number Credit card number: 5509-8100-6942-95 Expiry date: 13/23 CVV:9909	System will show a red “X” and inform users that an invalid credit card number or expiry date and CVV was inserted.		
4	Click on “try again” button	System will require users to enter their credit card number again until a valid credit card number is inserted.		

Post-conditions:
Payment is unsuccessful if the credit card number is invalid.

Test Case Template (Doc: T_P_03)

Test Case #: T_P_03	Test Case Name: E-Wallet with sufficient funds
System: Shopee	Subsystem: Payment
Design By: Lee Wee Harn	Design Date: 16/4/2023
Executed By: Lee Wee Harn	Execution Date: 16/6/2023
Short Description: To test the system output and the success of the functionality of E-Wallet	

Pre-conditions:
Select E-Wallet as payment method

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click on payment button on navigation bar	System will show the price and order details		
2	Select E-Wallet as payment method	System will require users to enter phone number in order to log in to the E-Wallet account		
3	Enter a valid phone number Phone Number: 011-16231130	System will show the E-Wallet profile and the funds available of the users.		
4	Click on "Pay" button	System will show payment details and seek confirmation from users.		
5	Click "Confirm"	System will show payment successful		

Post-conditions:
Payment is successful if the funds available in the E-Wallet are sufficient.

Test Case Template (Doc: T_P_04)

Test Case #: T_P_04	Test Case Name: E-Wallet with insufficient funds
System: Shopee	Subsystem: Payment
Design By: Lee Wee Harn	Design Date: 17/4/2023
Executed By: Lee Wee Harn	Execution Date: 17/6/2023
Short Description: To test the system ability to handle E-Wallet with insufficient funds during the payment process.	

Pre-conditions: Select the E-Wallet as payment.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click on payment button on navigation bar	System will show the price and order details		
2	Select E-Wallet as payment method	System will require users to enter phone number in order to log in to the E-Wallet account		
3	Enter a valid phone number Phone Number: 011-16231130	System will show the E-Wallet profile and the funds available of the users.		
4	Click on "Pay" button	System will show that E-Wallet has insufficient funds and require users to reload.		
5	Click "reload"	System will require users to enter the amount to reload.		
6	Enter the reload amount Amount: RM50	System will require users to pick whether to reload with Credit/Debit card or online banking.		

7	Select the reload option	System will show “Reload Successful”		
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Post-conditions:

Payment is unsuccessful if E-Wallet has insufficient funds until users have reloaded.

Test Case Template (Doc: T_P_05)

Test Case #: T_P_05	Test Case Name: Valid Online Banking
System: Shopee	Subsystem: Payment
Design By: Lee Wee Harn	Design Date: 18/4/2023
Executed By: Lee Wee Harn	Execution Date: 18/6/2023
Short Description: To test the system output and the success of the online banking functionality.	

Pre-conditions: Select online banking as payment method
--

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click on payment button on navigation bar	System will show the price and order details		
2	Select online banking as payment method	System will require users to select which banks to proceed with the transaction		
3	Select a bank for the transaction process. Select Bank: Hong Leong Bank	System will require users to enter their bank username and password.		
4	Enter a valid username and password Username: lweeharn6 Password: Lee8780	System will show payment details and seek confirmation from users if the username and password are correct.		
5	Click "Confirm"	System will show payment successful		

Post-conditions:

Payment is successful if users entered a valid username and password.

Test Case Template (Doc: T_P_06)

Test Case #: T_P_06	Test Case Name: Invalid Online Banking
System: Shopee	Subsystem: Payment
Design By: Lee Wee Harn	Design Date: 19/4/2023
Executed By: Lee Wee Harn	Execution Date: 19/6/2023
Short Description: To test the system ability to handle invalid online banking during payment process	

Pre-conditions:
Select online banking as payment method.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click on payment button on navigation bar	System will show the price and order details		
2	Select online banking as payment method	System will require users to select which banks to proceed with the transaction		
3	Select a bank for the transaction process. Select Bank: Hong Leong Bank	System will require users to enter their bank username and password.		
4	Enter an invalid username and password Username: 121e12e Password: (*&*&	System will show that the username or password that had been entered is incorrect.		
5	Click “try again”	System will require users to enter their username and password again until a valid username and password had been entered.		

Post-conditions:

Payment is unsuccessful if the username and password is invalid using online banking during payment and will only successful if users had entered a valid username and password.

Test Case Template (Doc: T_P_07)

Test Case #: T_P_07	Test Case Name: Invalid E-Wallet
System: Shopee	Subsystem: Payment
Design By: Lee Wee Harn	Design Date: 20/4/2023
Executed By: Lee Wee Harn	Execution Date: 20/6/2023
Short Description: To test the system ability to handle invalid E-Wallet account during payment process	

Pre-conditions:
Select E-Wallet as payment method

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click on payment button on navigation bar	System will show the price and order details		
2	Select E-Wallet as payment method	System will require users to enter phone number in order to log in to the E-Wallet account		
3	Enter an invalid phone number Phone Number: 011-16231&(T*	System will show that the phone number is invalid.		
4	Click “try again” button	System will require users to re-enter the phone number until a valid phone number has been inserted.		

Post-conditions:
Payment is unsuccessful if the phone number is invalid until and will only be successful if a valid phone number has been entered.

Test Case Template (Doc: T_P_08)

Test Case #: T_P_08	Test Case Name: Valid Debit Card
System: Shopee	Subsystem: Payment
Design By: Lee Wee Harn	Design Date: 21/4/2023
Executed By: Lee Wee Harn	Execution Date: 21/6/2023
Short Description: To test the ability and the success of the Debit Card functionality.	

Pre-conditions:
Select Debit Card as payment method.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click on payment button on navigation bar	System will show the price and order details		
2	Select debit card as payment method	System will require users to enter debit card number, expiry date and CVV		
3	Enter a valid credit card number Debit card number: 5509-8100-6942-9561 Expiry date: 12/25 CVV: 487	System will show a green “✓” to show a valid debit card number , expiry date and CVV is inserted.		
4	Click on “Next” button	System will show payment details and seek confirmation from users.		
5	Click “Confirm”	System will show payment successful		

Post-conditions:

Payment is successful if the debit card is valid.

Test Case Template (Doc: T_P_09)

Test Case #: T_P_09	Test Case Name: Invalid Debit Card
System: Shopee	Subsystem: Payment
Design By: Lee Wee Harn	Design Date: 22/4/2023
Executed By: Lee Wee Harn	Execution Date: 22/6/2023
Short Description: To test the ability of the system to handle invalid debit card during payment process	

Pre-conditions: Select debit card as payment method.
--

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click on payment button on navigation bar	System will show the price and order details		
2	Select debit card as payment method	System will require users to enter a debit card number, expiry date and CVV.		
3	Enter an invalid debit card number Debit card number: 5509-8100-6942-95 Expiry date: 13/23 CVV:9909	System will show a red “X” and inform users that an invalid debit card number or expiry date and CVV was inserted.		
4	Click on “try again” button	System will require users to enter their debit card number again until a valid credit card number is inserted.		

Post-conditions: Payment is unsuccessful if the debit card number is invalid.

Test Case Template (Doc: T_P_10)

Test Case #: T_P_10	Test Case Name: Debit card with insufficient funds.
System: Shopee	Subsystem: Payment
Design By: Lee Wee Harn	Design Date: 23/4/2023
Executed By: Lee Wee Harn	Execution Date: 23/6/2023
Short Description: To test the ability of the system to handle insufficient funds of debit card during payment process	

Pre-conditions: Select debit card as payment method
--

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click on payment button on navigation bar	System will show the price and order details		
2	Select debit card as payment method	System will require users to enter debit card number, expiry date and CVV		
3	Enter a valid credit card number Debit card number: 5509-8100-6942-9561 Expiry date: 12/25 CVV: 487	System will show a green “✓” to show a valid debit card number , expiry date and CVV is inserted.		
4	Click on “Next” button	System will show “Insufficient funds in the bank account” if there is not enough balance.		
5	Click “Confirm”	System will require users to pick others payment method.		

Post-conditions:

Payment is unsuccessful if there is insufficient funds inside the bank account.

3.5 ShopeeFood Module

Test Case Template (Doc: T_SF_01)

Test Case #: T_SF_01	Test Case Name: Add to basket
System: Shopee	Subsystem: ShopeeFood
Design By: Ho Wen Ting	Design Date: 16/4/2023
Executed By: Ho Wen TIng	Execution Date: 16/6/2023
Short Description: To test the selected item add to the basket.	

Pre-conditions: User logged in with a valid account and valid location. Besides, the basket shall be empty.
--

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click "ShopeeFood - Free Delivery"	Navigate to ShopeeFood page.		
2	Select a restaurant	Navigate to the selected restaurant page.		
3	Click a red box with a plus inside for a desired item with no subcategories.			

Post-conditions: The selected item will be added into the basket and a navigation bar should be shown at the bottom to show the total amount and price in the basket.
--

Test Case Template (Doc: T_SF_02)

Test Case #: T_SF_02	Test Case Name: Add to basket
System: Shopee	Subsystem: ShopeeFood
Design By: Ho Wen Ting	Design Date: 17/4/2023
Executed By: Ho Wen Ting	Execution Date: 17/6/2023
Short Description: To test the selected item with its subcategories add together to the basket.	

Pre-conditions:

User logged in with a valid account and valid location. Besides, the basket shall be empty.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click "ShopeeFood - Free Delivery"	Navigate to ShopeeFood Page.		
2	Select a restaurant	Navigate to the selected restaurant page.		
3	Click a red box with a plus inside for a desired item with subcategories..	A page will pop out to show the subcategories can be selected for the item. The "Add to Basket" button at bottom is gray in color and not clickable.		
4	Select the subcategories that have no additional price.	The "Add to Basket" button turns to orange color and is clickable while the total price shown beside the text will increase based on the additional price.		
5	Click "Add to Basket"			

Post-conditions:

The selected item will be added into the basket and a navigation bar should be shown at the bottom to show the total amount and price in the basket.

Test Case Template (Doc: T_SF_03)

Test Case #: T_SF_03	Test Case Name: Add to basket
System: Shopee	Subsystem: ShopeeFood
Design By: Ho Wen Ting	Design Date: 18/4/2023
Executed By: Ho Wen Ting	Execution Date: 18/6/2023
Short Description: To test the different items add to the basket with the add button in different restaurants.	

Pre-conditions:

User logged in with a valid account and valid location. Besides, the basket shall be empty.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click "ShopeeFood - Free Delivery"	Navigate to ShopeeFood page.		
2	Select a restaurant	Navigate to the selected restaurant page.		
3	Click a red box with a plus inside for a desired item.	The selected item will be added into the basket and a navigation bar should be shown at the bottom to show the total amount and price in the basket.		
4	Exit the restaurant page and select another restaurant to add a desired item.			

Post-conditions:

The latest desired item is added into the basket but the previous item which is from another restaurant will be removed from the basket.

Test Case Template (Doc: T_SF_04)

Test Case #: T_SF_04	Test Case Name: Modify basket
System: Shopee	Subsystem: ShopeeFood
Design By: Ho Wen Ting	Design Date: 19/4/2023
Executed By: Ho Wen Ting	Execution Date: 19/6/2023
Short Description: To test the incremental of item amount in a basket.	

Pre-conditions:

User logged in with a valid account and valid location. Besides, the basket shall have one item.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click the navigation bar at bottom.	Basket detail will be shown.		
2	Click the plus button in red beside the amount of specific item.			

Post-conditions:

The amount of the item will increase as the total price beside the “Checkout” button will be updated to the latest price.

Test Case Template (Doc: T_SF_05)

Test Case #: T_SF_05	Test Case Name: Modify basket
System: Shopee	Subsystem: ShopeeFood
Design By: Ho Wen Ting	Design Date: 20/4/2023
Executed By: Ho Wen Ting	Execution Date: 20/6/2023
Short Description: To test the remove function of an item from the basket.	

Pre-conditions:

User logged in with a valid account and valid location. Besides, the basket shall have one item.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click the navigation bar at bottom.	Basket detail will be shown.		
2	Click the minus button in white beside the amount of specific item.			

Post-conditions:

When the amount decreased until 0, the item will be removed from the basket. While the basket is empty, the navigation bar at the bottom will also disappear.

Test Case Template (Doc: T_SF_06)

Test Case #: T_SF_06	Test Case Name: Modify basket
System: Shopee	Subsystem: ShopeeFood
Design By: Ho Wen Ting	Design Date: 21/4/2023
Executed By: Ho Wen Ting	Execution Date: 21/6/2023
Short Description: To test the item in the basket with a new note added into it.	

Pre-conditions:

User logged in with a valid account and valid location. Besides, the basket shall have one item.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click the navigation bar at bottom.	Basket detail will be shown.		
2	Click the gray color text "Add note to restaurant" beside a note icon for an item.	A text box will appear for user to enter note.		
3	Insert note and click "Done" in a red box at the bottom			

Post-conditions:

The text beside the note icon shall change into the added text in black instead of "Add note to restaurant" in grey for the specific item.

Test Case Template (Doc: T_SF_07)

Test Case #: T_SF_07	Test Case Name: Searching
System: Shopee	Subsystem: ShopeeFood
Design By: Ho Wen Ting	Design Date: 22/4/2023
Executed By: Ho Wen Ting	Execution Date:22/6/2023
Short Description: To test the searching function with the restaurant name.	

Pre-conditions:
User logged in with a valid account and valid location.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click "ShopeeFood - Free Delivery"	Navigate to ShopeeFood page.		
2	Click the search bar at the top of the page.	Navigate to the search page consisting of search history and trending searches list..		
3	Insert restaurant name in the search bar that is on the top.	While entering, some restaurant name will pop out based on the word entered.		
4	Click enter.			

Post-conditions:
A list of relevant restaurants will be shown at least one for the user.

Test Case Template (Doc: T_SF_08)

Test Case #: T_SF_08	Test Case Name: Searching
System: Shopee	Subsystem: ShopeeFood
Design By: Ho Wen Ting	Design Date: 23/4/2023
Executed By: Ho Wen Ting	Execution Date: 23/6/2023
Short Description: To test the searching function with the food and beverage name.	

Pre-conditions:
User logged in with a valid account and valid location.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click "ShopeeFood - Free Delivery"	Navigate to ShopeeFood page.		
2	Click the search bar at the top of the page.	Navigate to the search page consisting of search history and trending searches list..		
3	Insert food and beverage name in the search bar that is on the top.	While entering, some restaurant name will pop out based on the word entered.		
4	Click enter.			

Post-conditions:
A list of relevant restaurants will be shown at least one for the user.

Test Case Template (Doc: T_SF_09)

Test Case #: T_SF_09	Test Case Name: Checkout
System: Shopee	Subsystem: ShopeeFood
Design By: Ho Wen Ting	Design Date: 24/4/2023
Executed By: Ho Wen Ting	Execution Date: 24/6/2023
Short Description: To test the application of valid voucher during checkout.	

Pre-conditions:

User logged in with a valid account and valid location. Besides, the basket shall have at least one item.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click "Checkout" at the bottom left.	Navigate to the Checkout Page that shows the delivery details and total amount..		
2	Click on Voucher.	Navigate to the Voucher page that consists of a list of Discount/Cashback Vouchers available for user..		
3	Click the circle box on the right of the voucher to apply.	While clicking the circle, a tick will be shown to represent the voucher being applied. Only one voucher can be applied at the same time, if the user clicks another voucher, the tick on the previous voucher should be vanished. A total amount of discount shown above the "OK" button.		
4	Click OK at the bottom.	Back to Checkout page.		

Post-conditions:

The discount will included in the price list. The total amount shall be updated after applying the discount.

Test Case Template (Doc: T_SF_10)

Test Case #: T_SF_10	Test Case Name: Checkout
System: Shopee	Subsystem: ShopeeFood
Design By: Ho Wen Ting	Design Date: 25/4/2023
Executed By: Ho Wen Ting	Execution Date: 25/6/2023
Short Description: To test the application of invalid voucher during checkout.	

Pre-conditions:

User logged in with a valid account and valid location. Besides, the basket shall have at least one item.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click “Checkout” at the bottom left.	Navigate to the Checkout Page that shows the delivery details and total amount..		
2	Click on Voucher.	Navigate to the Voucher page that consists of a list of Discount/Cashback Vouchers available for user..		
3	Enter invalid voucher code at the text box at the top of the page.	When enter the voucher code, the apply box at the right will turn into red color and become clickable.		
4	Click “Apply”			

Post-conditions:

As the voucher is invalid, a message box shall be popped out with the text “Invalid voucher” to inform the user. If back to the checkout page, no change shall occur on the total price.

4. Originality Report

Part 1 - Part 1.5.3

5/7/23, 7:01 PM

Group1_Shopee System

Originality report

COURSE NAME

BACS2103 SQAT (L|T|P)

STUDENT NAME

HO WEN TING

FILE NAME

Group1_Shopee System

REPORT CREATED

May 7, 2023

Summary

Flagged passages	0	0%
Cited/quoted passages	0	0%

Part 1.5.4 - Part 2.2

5/7/23, 7:09 PM

Group1_Shopee System

Originality report

COURSE NAME

BACS2103 SQAT (L|T|P)

STUDENT NAME

HO WEN TING

FILE NAME

Group1_Shopee System

REPORT CREATED

May 7, 2023

Summary

Flagged passages	3	1%
Cited/quoted passages	0	0%
Web matches		
linkedin.com	2	0.7%
enlear.academy	1	0.5%

1 of 3 passages

Student passage **FLAGGED**

...interaction with software systems. When used in testing, RPA **can** increase testing speed and accuracy, reduce errors and **free up testers to focus on more complex tasks**

Top web match

First and foremost, RPA can help improve the accuracy of software testing by automating repetitive tasks. It **can free up time for testers to focus on more complex tasks** and ultimately lead to better...

RPA in Software Testing: How is it Reshaping the Testing Field? <https://enlear.academy/rpa-in-software-testing-how-is-it-reshaping-the-testing-field-c7be947bb2ff>

2 of 3 passages

Student passage **FLAGGED**

A unique identifier for each test case. Test Case Name

Top web match


https://classroom.google.com/g/sr/NTxxOTA4MjY2MTg5/NjA3NjM4MDYzMDA4/1bT8WQxA5Fqj7q3_spPYV3b2KMrvqjFUrTuKdN50CtDU

1/2

Exclude test cases as it will occur failure as shown below:

Your work

Assigned



Group1_Shopee S...
Google Docs

✕

Report failed