Group02-Shinra Tensei

SOPE
Use-Case Specification

Version <1.1>

Revision History

Date	Version	Description	Author
<20/07/2024>	<1.0>	Include the required specifications	All team members
<03/08/2024>	<1.1>	Add some new features' use case specification	Trần Đức Tùng

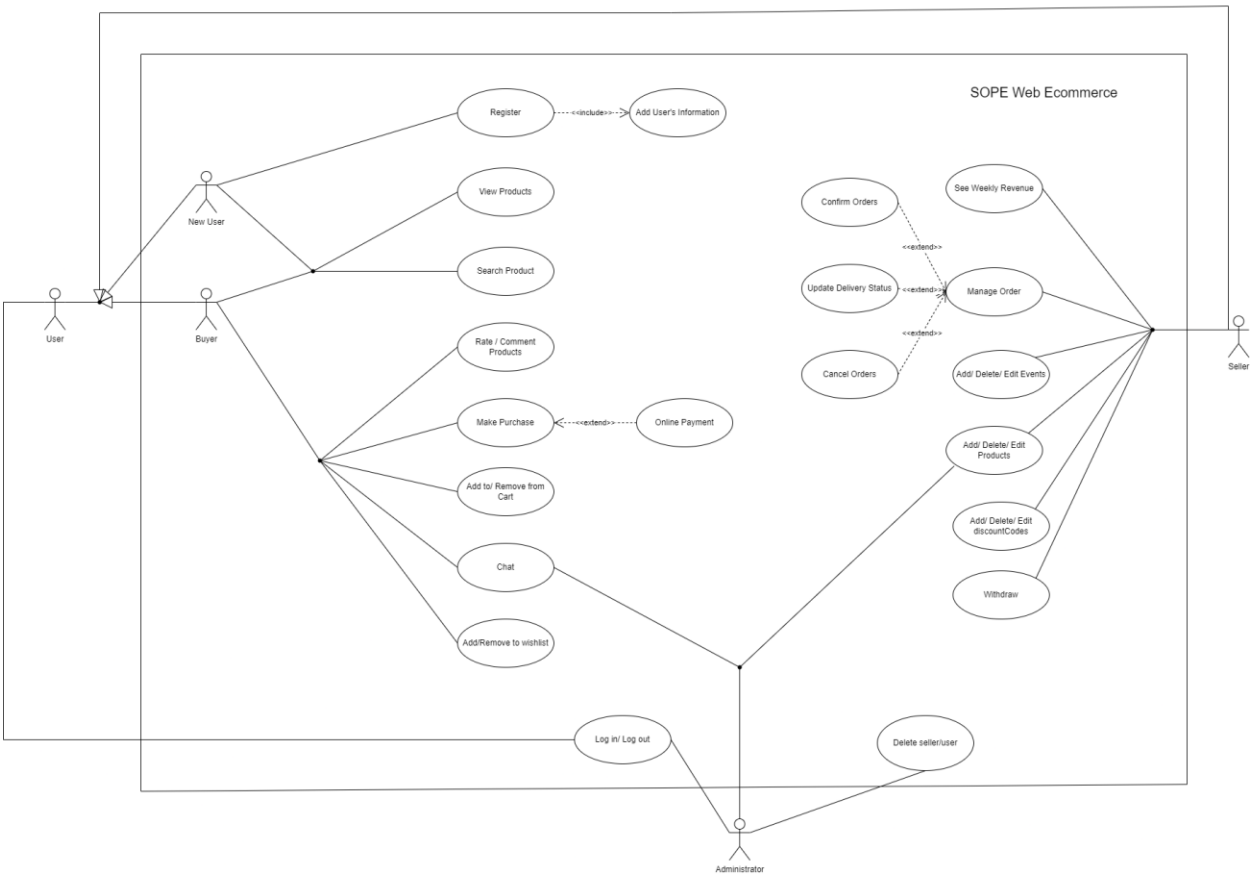
Contents

1. Use-case model 4

2. Use-case specification: 4

2.1 Use-case: View products 5
2.2 Use-case: Search products 6
2.3 Use-case: Register 7
2.4 Use-case: Rate/comment product 7
2.5 Use-case: Manage order 8
2.6 Use-case: Make purchase 9
2.7 Use-case: Log out 10
2.8 Use-case: Login 11
2.9 Use-case: Delete User 12
2.10 Use-case Add/remove from wishlist 13
2.11 Use-case: Add/remove/edit product 14
2.12 Use-case: Add/remove cart 16
2.13 Use-case: See weekly revenue 16
2.14 Use-case: Chat 16
2.15 Use case: Create/remove/edit Events 17
2.16 Use case: Create/remove/edit discountCodes 17
2.17 Use case: withdraw 17

1. Use-case model



2. Use-case specification:

2.1 Use-case: View products:

Use-case name	View products
Brief description	This use case allows users to browse through the available products on the e-commerce platform.
Basic flows	1, The User navigates to the products page. 2, The system displays a list of products with specific details such as name, price, image, comment and rate. 3, The User can view more detailed information about a product by selecting it from the list.
Alternative flows	**No Products Available** 1. If there are no products available, the system displays a message indicating that no products are currently available. 2. The User can navigate to other sections of the site or perform a search for products.
Special requirements	The system should load the product list quickly to enhance user experience.
Preconditions	The User must be on the products page.
Postconditions	The User views the details of the selected product.

2.2 Use-case: Search products:

Use-case name	Search products
Brief description	This use case allows users to search for products on the e-commerce platform using keywords or filters.
Basic flows	1.The User initiates a product search by entering keywords in the search bar. 2.The system retrieves and displays a list of products matching the search criteria. 3. The User can apply filters (e.g., category, price range) to refine the search results.
Alternative flows	**No results found** 1. If no products match the search criteria, the system displays a message indicating no results were found. 2. The User can modify the search criteria and try again.
Special requirements	The search functionality should be responsive and handle large datasets efficiently.
Preconditions	The User must be on a page with a search bar.
Postconditions	The User views a list of products matching the search criteria.

2.3 Use-case: Register:

Use-case name	Register
Brief description	This use case allows a new user to register on the e-commerce platform by providing their personal information.
Basic flows	1, The New User initiates the registration process. 2, The system prompts the New User to enter their personal information(optional), including name, email, and password. 3, The New User submits the registration form. 4, Choose buyer or seller role 5, The system validates the entered information. 6, Upon successful validation, the system creates a new user account and confirms the registration to the New User.
Alternative flows	**Invalid information** 1. If the New User enters invalid information (e.g., an already registered email), the system displays an appropriate error message. 2. The New User corrects the information and resubmits the form.
Special requirements	Email validation must be performed to ensure it is in the correct format and not already in use.
Preconditions	The New User must have access to the registration page.
Postconditions	The New User must have Gmail.

2.4 Use-case: Rate/comment product:

Use-case name	Rate / comment product

Brief description	This use case allows buyers to rate and comment on products they have purchased.
Basic flows	1. The Buyer navigates to the product detail page. 2. The Buyer selects the option to rate/comment on the product. 3. The system prompts the Buyer to enter a rating (e.g., 1-5 stars) and a comment. 4. The Buyer submits the rating and comment. 5. The system validates and saves the rating and comment.
Alternative flows	None
Special requirements	Only verified buyers can rate and comment on products.
Preconditions	You must log in to an account to rate/comment; anonymous commenting is not allowed.
Postconditions	The product's rating is updated, and the comment is displayed on the product detail page.

2.5 Use-case: Manage order

Use-case name	Manage orders
Brief description	This use case allows sellers to manage orders, including confirming, updating, or

	canceling them.
Basic flows	1. The Seller navigates to the order management page. 2. The Seller views the list of orders. 3. The Seller selects an order to confirm, update, or cancel. 4. The system prompts the Seller to perform the desired action. 5. The Seller submits the action. 6. The system processes the action and updates the order status.
Alternative flows	1: **Seller Views Detailed Order Information** 1. The Seller selects an order to view its details. 2. The system displays the detailed information of the selected order. 3. The Seller decides to either go back to the list of orders or perform an action on the order. 4. If the Seller chooses to perform an action, proceed with the Basic Flow steps 4-6. 2: **Invalid Action Attempt** 1. The Seller attempts to perform an action that is not allowed (e.g., canceling an already shipped order). 2. The system displays an error message explaining why the action cannot be performed. 3. The Seller either selects a different order or a different action. 3: **Order Management Page Unavailable** 1. The Seller tries to navigate to the order management page. 2. The system detects that the page is temporarily unavailable due to maintenance or technical issues. 3. The system displays an appropriate message and suggests trying again later. 4: **Real-Time Update Failure** 1. The Seller submits an action to update an order. 2. The system fails to update the order status in real-time due to connectivity issues. 3. The system notifies the Seller of the issue and attempts to reprocess the action. 4. If the reprocessing fails, the system logs the issue and instructs the Seller to try again later.
Special requirements	The system should ensure that order updates are reflected in real-time.
Preconditions	The Seller must be logged in and have access to the order management page.
Postconditions	The order's status is updated based on the Seller's action.

2.6 Use-case: Make purchase

Use-case name	Make purchase
Brief description	This use case allows a buyer to purchase products from the e-commerce

	platform.
Basic flows	1, The Buyer adds products to their shopping cart. 2, The Buyer proceeds to checkout. 3, The system prompts the Buyer to enter payment and shipping information. 4, The Buyer confirms the order. 5, The system processes the payment and confirms the purchase.
Alternative flows	**Insufficient Stock** 1, If a product is out of stock, the system notifies the Buyer and removes the product from the cart. 2, The Buyer can either remove the product from the cart or wait until it is back in stock. 3, If online wallet doesn't have enough money, the system cancels the payment **Payment Failure** If the payment fails, the system notifies the Buyer and provides options to retry the payment or use a different payment method.
Special requirements	- The payment system must be secure and comply with relevant regulations. - The system should provide real-time stock updates.
Preconditions	The Buyer must have products in their cart.
Postconditions	- The order is created, and the payment is processed. - The Buyer receives a confirmation of the purchase.

2.7 Use-case: Log out

Use-case name	Log out
Brief description	This use case allows buyers, sellers, and administrators to log out from the e-commerce platform.

Basic flows	1. The Buyer/Seller/Administrator initiates the logout process by selecting the "Log out" option. 2. The system logs the Buyer/Seller/Administrator out and redirects them to the homepage.
Alternative flows	In step 2, when the system processes the log out request and the internet has problems, it will ignore the log out request and maintain the logged in status.
Special requirements	The system should invalidate the session token to ensure the user is completely logged out.
Preconditions	The Buyer/Seller/Administrator must be logged in.
Postconditions	The Buyer/Seller/Administrator is logged out and redirected to the homepage or login page.

2.8 Use-case: Login

Use-case name	Log in
Brief description	This use case allows buyers, sellers, and administrators to log in to the e-commerce platform using their credentials.

Basic flows	1. The Buyer/ Seller/ Administrator navigates to the login page. 2. The Buyer/ Seller/ Administrator enters their email and password. 3. The Buyer/ Seller/ Administrator submits the login form. 4. The system verifies the entered credentials. 5. If the credentials are valid, the system logs the Buyer/ Seller/ Administrator in and redirects them to their respective homepage.
Alternative flows	**Invalid Credentials** 1. If the entered credentials are invalid, the system displays an error message. 2. The Buyer/ Seller/ Administrator can re-enter the credentials and try again. 3. If the user forgets the password, click to “Forget password” to receive new password and can update new password
Special requirements	- The system should use secure methods for storing and verifying passwords. - The system should provide options for password recovery in case the user forgets their password. .
Preconditions	The Buyer/ Seller/ Administrator must have an existing account.
Postconditions	The Buyer/ Seller/ Administrator is logged in and can access the functionalities available to their role.

2.9 Use-case: Delete User

Use-case name	Delete users
Brief description	This use case allows administrators to delete user accounts (seller or buyer) from the system.
Basic flows	1. The Administrator navigates to the user management page.

	2. The Administrator selects a seller or user account to delete. 3. The system prompts the Administrator to confirm the deletion. 4. The Administrator confirms the deletion. 5. The system deletes the account and all associated data.
Alternative flows	None
Special requirements	- The system should ensure that account deletion is secure and irreversible. - The account is administrator
Preconditions	The Administrator must be logged in and have access to the user management page.
Postconditions	The selected seller or user account is permanently deleted from the system.

2.10 Use-case Add/remove from wishlist:

Use-case name	Add/remove from wishlist
Brief description	This use case allows buyers to add products to their wishlist or remove them.
Basic flows	1. The Buyer views a product they are interested in. 2. The Buyer selects the option to add the product to their wishlist.

	3. The system adds the product to the Buyer's wishlist. 4. The Buyer can also navigate to their wishlist and select the option to remove a product. 5. The system removes the product from the wishlist.
Alternative flows	In step 3, if the system detects that the product is already in the favorites list, the system displays a message stating that the product is already in the favorites list and does not add it again.
Special requirements	The wishlist should be easily accessible and allow for efficient management of products.
Preconditions	The Buyer must be logged in to manage their wishlist.
Postconditions	The product is added to or removed from the Buyer's wishlist.

2.11 Use-case: Add/remove/edit product:

Use-case name	Add/remove/edit products
Brief description	This use case allows sellers to manage their product listings by adding new products, removing existing products, or editing product details.
Basic flows	1. The Seller navigates to the product management page. 2. The Seller selects the option to add, remove, or edit a product.

	3. The system prompts the Seller to enter the necessary information or changes. 4. The Seller submits the information. 5. The system updates the product listing accordingly.
Alternative flows	**1: Adding a New Product** 1. The Seller selects the option to add a new product. 2. The system prompts the Seller to enter the product details, including name, description, price, and images. 3. The system validates the product information for completeness and accuracy. 4. If validation is successful, the system adds the new product to the listing. 5. If validation fails, the system displays an error message and prompts the Seller to correct the information. **2: Removing a Product** 1. The Seller selects the option to remove an existing product. 2. The system prompts the Seller to confirm the removal. 3. The Seller confirms the action. 4. The system removes the product from the listing. 5. If the product is currently part of any pending orders, the system displays a warning and does not remove the product until those orders are resolved. **3: Editing Product Details** 1. The Seller selects the option to edit an existing product. 2. The system displays the current details of the selected product. 3. The Seller makes the desired changes to the product details. 4. The system validates the updated information for completeness and accuracy. 5. If validation is successful, the system updates the product listing with the new details. 6. If validation fails, the system displays an error message and prompts the Seller to correct the information. **4: Product Management Page Unavailable** 1. The Seller tries to navigate to the product management page. 2. The system detects that the page is temporarily unavailable due to maintenance or technical issues. 3. The system displays an appropriate message and suggests trying again later. **5: Incomplete Product Information** 1. The Seller attempts to submit a new or updated product with incomplete information. 2. The system displays an error message indicating the missing information.

	3. The Seller provides the missing information and resubmits.
Special requirements	The system should validate the product information to ensure completeness and accuracy.
Preconditions	The Seller must be logged in and have access to the product management page.
Postconditions	The product listing is updated based on the Seller's action.

2.12 Use-case: Add/remove cart:

Use-case name	Add/remove cart
Brief description	This use case allows buyers to add products to their shopping cart or remove them.
Basic flows	1. The Buyer selects a product to add to the cart. 2. The system adds the selected product to the cart and updates the cart's content. 3. The Buyer can view the cart and remove products if desired. 4. The system updates the cart accordingly.
Alternative flows	When the seller or admin deletes the products which are in the cart of the buyer, the products will be removed from the cart.
Special requirements	The system should ensure that the product's stock is updated in real-time.
Preconditions	The Buyer must be viewing a product detail page or the cart page.
Postconditions	The cart's content is updated to reflect the Buyer's actions.

2.13 Use-case: See weekly revenue:

Use-case name	See weekly revenue
Brief description	This use case allows users to view the total revenue generated over the past week.
Basic flows	1. The user navigates to the revenue page. 2. The system displays the total revenue for the past week.
Alternative flows	If no revenue data is available, the system displays a message indicating this.
Special requirements	The revenue data must be updated in real-time.
Preconditions	The User must have appropriate access rights.
Postconditions	The User must navigate to view the weekly revenue details.

2.14 Use-case: Chat

Use-case name	Chat
Brief description	This use case allows users to chat with each other in real-time.
Basic flows	1. The User initiates a chat by selecting a contact. 2. The system opens a chat window.

	3. The system delivers the message to the recipient.
Alternative flows	None
Special requirements	The chat system must support real-time messaging.
Preconditions	The User must be logged in.
Postconditions	The message is delivered to the recipient.

2.15 Use case: Create/remove/edit Events:

Use-case name	Create/remove/edit events.
Brief description	This use case allows users to create, remove, and edit events.
Basic flows	1. The User navigates to the events management page. 2. The User selects the option to create, remove, or edit an event. 3. The system prompts the User to enter event details or confirm the action. 4. The User submits the details or confirmation. 5. The system processes the request and updates the event list.
Alternative flows	If the event data is invalid, the system displays an error message.
Special requirements	Event updates should be reflected in real-time.
Preconditions	The User must have appropriate access rights.
Postconditions	The event list is updated based on the User's actions.

2.16 Use case: Create/remove/edit discountCodes:

Use-case name	Create/remove/edit discountCodes.
Brief description	This use case allows users to create, remove, and edit discount codes.
Basic flows	1. The User navigates to the discount code management page. 2. The User selects the option to create, remove, or edit a discount code. 3. The system prompts the User to enter discount code details or confirm the action. 4. The User submits the details or confirmation. 5. The system processes the request and updates the discount code list.
Alternative flows	If the discount code data is invalid, the system displays an error message.
Special requirements	Discount code updates should be reflected in real-time.
Preconditions	The User must have appropriate access rights.
Postconditions	The discount code list is updated based on the User's actions.

2.17 Use case: withdraw:

Use-case name	Withdraw
Brief description	This use case allows users to withdraw funds from their account.
Basic flows	1. The User navigates to the withdrawal page. 2. The system prompts the User to enter the withdrawal amount and details. 3. The User submits the withdrawal request. 4. The system processes the request and updates the User’s balance.
Alternative flows	If the withdrawal amount exceeds the available balance, the system displays an error message.
Special requirements	The withdrawal system must be secure and comply with relevant financial regulations.
Preconditions	The User must be logged in and have sufficient funds.
Postconditions	The User's balance is updated, and the withdrawal is processed.