



Eastern Mediterranean University

School of Computing and Technology

Department of Information Technology

Software Engineering [ITEC 316]

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ONLINE SHOPPING APP (https://www.ubuy.com.tr/en/)

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PHASE 1

INTRODUCTION

Ubuy is made to offer clients a simple and practical way to shop online for a large range of goods. Customers may explore products, add items to their cart, secure their transaction, and provide feedback for products they've purchased with just a few clicks.

PURPOSE

The purpose of Ubuy is to provide a convenient and easy way for customers to shop online. It aims to offer a wide selection of products at competitive prices, and to make the shopping experience as seamless as possible for our customers. The website also aims to make international shopping easier to its customers.

SCOPE

Ubuy offers a range of products in various categories, such as electronics, home goods, clothing, and more. Customers will be able to search for specific items or browse through various categories to find what they are looking for. They will also have the option to create an account, save items to their wishlist, and track their orders.

PROCESS FLOW

For the development of this project, we will be using the Agile process flow model. This involves iterative development and frequent delivery of small increments of functionality, allowing us to quickly respond to changing requirements and incorporate feedback from users.





PROCESS PATTERN

For the development of this project, we will be using the Model-View-Controller (MVC) pattern. This pattern separates the representation of information from the user's interaction with it, making it easier to maintain and expand the website over time.

SCENARIO

A scenario for the website might involve a user browsing the homepage, searching for a specific product, and adding it to their shopping cart. They may then proceed to the checkout page, where they enter their billing and shipping information and complete the purchase using the payment gateway. After the purchase is complete, the user receives a confirmation email and can view their order history in their user account.

SYSTEM REQUIREMENTS

1.1.1 Create account

- 1.1.1.1 A create account button will be displayed across all the website's pages
- 1.1.1.2 User will click on the create account button
- 1.1.1.3 System will display the create account form
- 1.1.1.4 User will fill in the form information
- 1.1.1.5 User will confirm submission
- 1.1.1.6 System will verify password weakness and email validity.
- 1.1.1.7 System will check if email already exists in the database.
- 1.1.1.8 System will send sign up verification to the user's email address.
- 1.1.1.9 User clicks on email verification link.
- 1.1.1.10 System adds user data to the database.





1.1.2 **Login**

- 1.1.2.1 A login button will be displayed across all of the website's pages.
- 1.1.2.2 User clicks on login button.
- 1.1.2.3 System displays login form.
- 1.1.2.4 User fills in login form.
- 1.1.2.5 System checks if the user exists.
- 1.1.2.6 System checks if the password matches the user's data.
- 1.1.2.7 System allows the user into their account on the website.
- 1.1.2.8 System saves the user's login session.

1.1.3 Logout

- 1.1.3.1 User clicks on logout button.
- 1.1.3.2 System requests for logout confirmation from the user.
- 1.1.3.3 User responds to the request.
- 1.1.3.4 System ends the user's login session.
- 1.1.3.5 System re-direct user to normal main page.

1.1.4 Search for product

- 1.1.4.1 System will display the search bar.
- 1.1.4.2 User will enter search keyword.
- 1.1.4.3 System will retrieve the results matching the keywords searched by the user.
- 1.1.4.4 System will display the results of the available products.

1.1.5 Sort search results

- 1.1.5.1 System will display sort results button.
- 1.1.5.2 User will click on the button.
- 1.1.5.3 System will display sorting options.
- 1.1.5.4 User will select the sorting method.
- 1.1.5.5 System will display results depending on the sorting method.





1.1.6 Filter search results

- 1.1.6.1 System will display the filtering results options.
- 1.1.6.2 User will choose an option to filter the results.
- 1.1.6.3 System will display the new results depending on the filtering method.

1.1.7 View product

- 1.1.7.1 User will click on the product.
- 1.1.7.2 System will retrieve the product's details from the database.
- 1.1.7.3 System will display the product's information to the user.

1.1.8 Add product to cart

- 1.1.8.1 System will display an add to cart button in the product's page.
- 1.1.8.2 User will click on the button.
- 1.1.8.3 System will re-check for the product's availability.
- 1.1.8.4 System adds the product to the user's cart in the database.

1.1.9 View shopping cart

- 1.1.9.1 User clicks on the shopping cart button.
- 1.1.9.2 System retrieves the user's shopping cart list from the database.
- 1.1.9.3 System checks if the cart is empty or not.
- 1.1.9.4 System displays results.

1.1.10 Remove product from cart

- 1.1.10.1 User will click on remove product button.
- 1.1.10.2 System asks the user to confirm product removal.
- 1.1.10.3 User confirms removal.
- 1.1.10.4 System deletes the product from the user's shopping cart in the database.

1.1.11 Complete order purchase

1.1.11.1 User requests for order checkout.





- 1.1.11.2 System request confirmation for the user's delivery address.
- 1.1.11.3 User confirms address details.
- 1.1.11.4 System request payment detail from bank.
- 1.1.11.5 System receives request from bank.
- 1.1.11.6 System requests user to enter payment checkout code.
- 1.1.11.7 User enters the code.
- 1.1.11.8 System checks if the code matches.
- 1.1.11.9 System confirms the user's order.
- 1.1.11.10 System adds order to the user's order history in the database.

1.1.12 View order history

- 1.1.12.1 User clicks on view order history button.
- 1.1.12.2 System checks if the user has any orders.
- 1.1.12.3 System display results.

1.1.13 Track order

- 1.1.13.1 System display order id input field.
- 1.1.13.2 User enters order id.
- 1.1.13.3 System checks if the order id is valid.
- 1.1.13.4 System displays the order's status.

1.1.14 View wishlist

- 1.1.14.1 User clicks on view wishlist button.
- 1.1.14.2 System checks if the user has added any product to their list.
- 1.1.14.3 System display results.

1.1.15 Add item to wishlist

- 1.1.15.1 System will display an add to wishlist button in the product's page.
- 1.1.15.2 User will click on the button.
- 1.1.15.3 System adds the product to the user's wishlist in the database.





1.1.16 Remove from wishlist

- 1.1.16.1 User will click on remove product from wishlist button.
- 1.1.16.2 System asks the user to confirm product removal.
- 1.1.16.3 User confirms removal.
- 1.1.16.4 System deletes the product from the user's wishlist in the database.

1.1.17 Place product review

- 1.1.17.1 User click on place review button on the product.
- 1.1.17.2 System display product review form.
- 1.1.17.3 User will fill in the product review form.
- 1.1.17.4 System adds product review from the user's product review history.
- 1.1.17.5 System will add the product review to the product's page.

1.1.18 Add payment method

- 1.1.18.1 User will request to enter a new payment method.
- 1.1.18.2 System will display the add payment method form.
- 1.1.18.3 User will enter the payment method data.
- 1.1.18.4 System will validate the data.
- 1.1.18.5 System adds payment method to the user's account.

1.1.19 Update payment method

- 1.1.19.1 User will request to update the selected payment method.
- 1.1.19.2 System will display the payment method update form.
- 1.1.19.3 User will enter the updated payment method data.
- 1.1.19.4 System will validate and filter the newly entered data.
- 1.1.19.5 System updates the payment method of the user.

1.1.20 Remove payment method

1.1.20.1 User will request to remove the selected payment method





- 1.1.20.2 System will prompt for user to confirm the removal
- 1.1.20.3 User will respond to the prompt.
- 1.1.20.4 System removes payment method from the user.

1.1.21 Edit account

- 1.1.21.1 User clicks on edit account button.
- 1.1.21.2 System retrieves the user's current information.
- 1.1.21.3 System displays the user's data.
- 1.1.21.4 System prompts the user to apply changes.
- 1.1.21.5 User responds to request.
- 1.1.21.6 System checks if any changes have been done.
- 1.1.21.7 System requests user to confirm the changes.
- 1.1.21.8 User responds to request.
- 1.1.21.9 System replaces the old data with the new data in the database.
- 1.1.21.10 System confirms to the user that's changes have been made.

1.1.22 Change language

- 1.1.22.1 User will click on change language button.
- 1.1.22.2 System will display a list of available languages.
- 1.1.22.3 User will choose a language.
- 1.1.22.4 System re-displays the website's data according to the language selected.

1.1.23 Change region

- 1.1.23.1 User clicks on change the region button.
- 1.1.23.2 System displays a list of supported regions.
- 1.1.23.3 User selects a region.
- 1.1.23.4 System asks the user to confirm change.
- 1.1.23.5 User responds to the request.





- 1.1.23.6 System retrieves the respective products according to the selected region.
- 1.1.23.7 System displays the retrieved products on the main page.

1.1.24 Add product to category - admin

- 1.1.24.1 Admin clicks on create product button.
- 1.1.24.2 System displays the product creation form.
- 1.1.24.3 Admin fills in the product creation form.
- 1.1.24.4 System checks if product is already in the database.
- 1.1.24.5 System requests admin to confirm product creations.
- 1.1.24.6 Admin responds to the request.
- 1.1.24.7 System adds the product to the database.
- 1.1.24.8 System displays the product on the website.

1.1.25 Remove product from category – admin

- 1.1.25.1 Admin clicks on remove product button.
- 1.1.25.2 System requests admin to confirm product removal.
- 1.1.25.3 Admin responds to the request.
- 1.1.25.4 System removes the product from the database.
- 1.1.25.5 System displays the product has been removed on the website.

1.1.26 Update product details - admin

- 1.1.26.1 Admin clicks on update product button.
- 1.1.26.2 System displays the product update form.
- 1.1.26.3 Admin fills in the product update form.
- 1.1.26.4 System requests admin to confirm product update.
- 1.1.26.5 Admin responds to the request.
- 1.1.26.6 System updates the product's details in the database.
- 1.1.26.7 System displays the product on the website.

1.1.27 Open customer support ticket





- 1.1.27.1 User clicks on open ticket button.
- 1.1.27.2 System displays ticket form.
- 1.1.27.3 User enters the ticket form details.
- 1.1.27.4 System sends ticket number to support & user.
- 1.1.27.5 Support confirms ticket number.
- 1.1.27.6 User contacts the support.

1.1.28 View customer support ticket

- 1.1.28.1 User clicks on view ticket button.
- 1.1.28.2 System checks if the user has opened any tickets.
- 1.1.28.3 System displays results.

1.1.29 Close customer support - support & user

- 1.1.29.1 Actor clicks on close ticket button.
- 1.1.29.2 System requests confirmation from the actor.
- 1.1.29.3 Actor responds to the request.
- 1.1.29.4 System closes the ticket.





PHASE 2

EVENT LIST

- 2.1.1 Create an account for the website
- 2.1.2 Log-in into the website
- 2.1.3 Log-out from the website
- 2.1.4 Search for a product
- 2.1.5 Sort your search
- 2.1.6 Filter your search
- 2.1.7 Request to view a product
- 2.1.8 Add product to the cart
- 2.1.9 Request to view shopping cart
- 2.1.10 Remove the product from the cart
- 2.1.11 Complete the order purchase
- 2.1.12 Add payment method
- 2.1.13 Remove payment method
- 2.1.14 Update payment method
- 2.1.15 Request to view order history
- 2.1.16 view tracking order
- 2.1.17 Request to view wish list
- 2.1.18 Add an item to wish list
- 2.1.19 Remove the item from wish list
- 2.1.20 Add product review
- 2.1.21 Update account
- 2.1.22 Change website language
- 2.1.23 Update region
- 2.1.24 Add product to category





- 2.1.25 Remove product from category
- 2.1.26 Update product details
- 2.1.27 Request to open customer support ticket
- 2.1.28 Request to view customer support ticket
- 2.1.29 Request to close customer support ticket





Destinatio Event Trigger Response **Source Use Case** n System check if Create A customer request the username User User Create account account to buy a product and password valid or not. System checks Initiate a log in if the username Log in request after form is User User Log in and password filled are found The user's local storage is Initiate a log out Log out User Log out user cleared and the request user is logged out. Search for request to see a Display the User User Search for product product specific product specific product Display the Sort your request to search products in a User User Sort your search with specific order search sorted way Display the Filter your request to search User Filter your search products in a User with filtered option search filtered way Request to Display the Request to view Click into product User User view product product product





| Add product to cart | Clicks on the button "add to cart" | Send product to cart | User | User | Add product to cart |
|-----------------------------------|--|---|------|------|-------------------------------|
| Request to view shopping cart | Click "Shopping Cart" to view shopping cart | Display shopping cart details | User | User | Request to view shopping cart |
| Remove product from the cart | Clicks on the button "remove product" | Display the updated shopping cart | User | User | Remove product from the cart |
| Complete the order purchase | Clicks on the button "proceed to checkout" | Display the order details | User | User | Complete the order purchase |
| Add payment method | Click on "add payment" | Display payment form | User | User | Add payment method |
| Remove payment method | Click on "remove payment" | Display message about the payment that has been removed | User | User | Remove payment method |
| Update payment method | Click on "Edit" | Allow to modify the information | User | User | Update payment method |





| Request to view order history | Clicks on the button "ordering history" | Display the previous orders | User | User | Request to view order history |
|--|--|---|--------------|--------------|--------------------------------|
| view tracking order | Clicks on the button "track order" | Display the current location of the order | User | User | Request to view tracking order |
| Request to view wishlist | Click on "your wishlist" button | Display the product that user selected berfore | User | User | Request to view wishlist |
| Add an item to wishlist | Click on"heart shape" to add the item | Send the item to wishlist | User | User | Add an item to wishlist |
| Remove the item from wishlist | Click on"heart shape" to remove the item | Display the updated wishlist page | User | User | Remove the item from wishlist |
| Add product review | Click on "write a review" | Send the review and update product review | User | User | Add product review |
| Update account | Enter information and modifies the current information by clicking "update" button | System replaces the old information with the new data | User / Admin | User / Admin | Update account |
| Change language | Request to change language | Display the website with the chosen language | User / Admin | User / Admin | Change language |





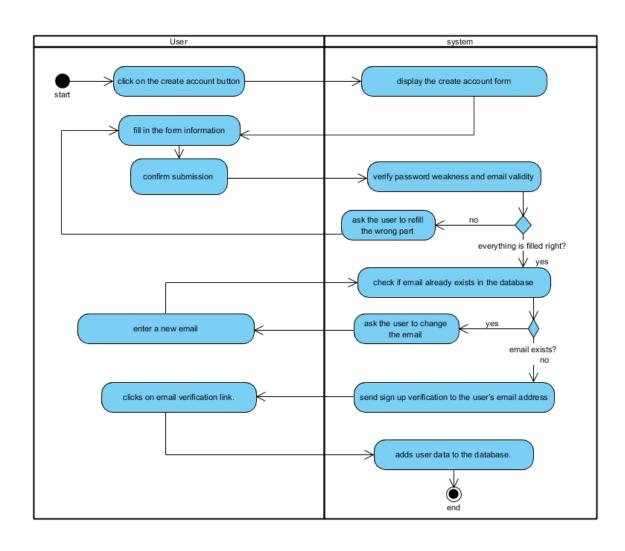
| Change region | Request to change your region | Display the website with the chosen region | User / Admin | User / Admin | Change region |
|--|--|---|--------------|--------------|----------------------------------|
| Add product to category | Click on "add item" | Send the item and update the system | Admin | Admin | Add product to category |
| Remove product from category | Click on "remove item" | Display the updated products | Admin | Admin | Remove product from category |
| Update product details | Enter information and modifies the current information by clicking "update" button | System replaces the old information with the new data | Admin | Admin | Update product details |
| Open customer support ticket | Click on "open ticket" | Display form of the ticket to fill | User / Admin | User / Admin | Open customer support ticket |
| view customer support ticket | Request to view ticket | Display the ticket | User / Admin | User / Admin | view customer support ticket |
| close customer support ticket | Click on "close the ticket" | Display a message | Admin | Admin | close customer support ticket |





ACTIVITY DIAGRAMS

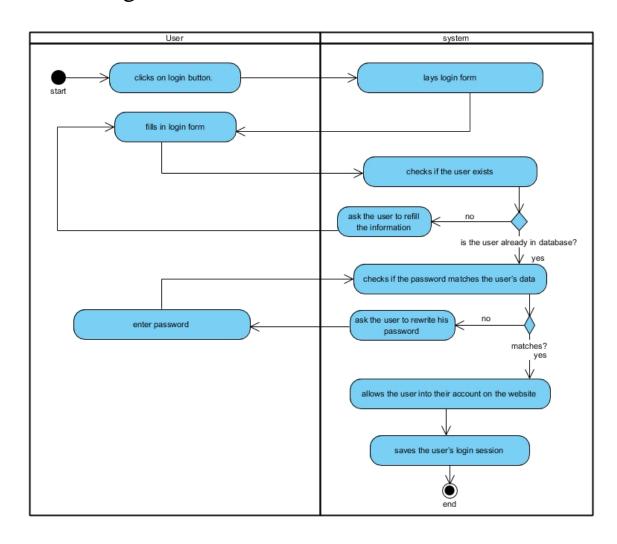
2.3.1. Create account







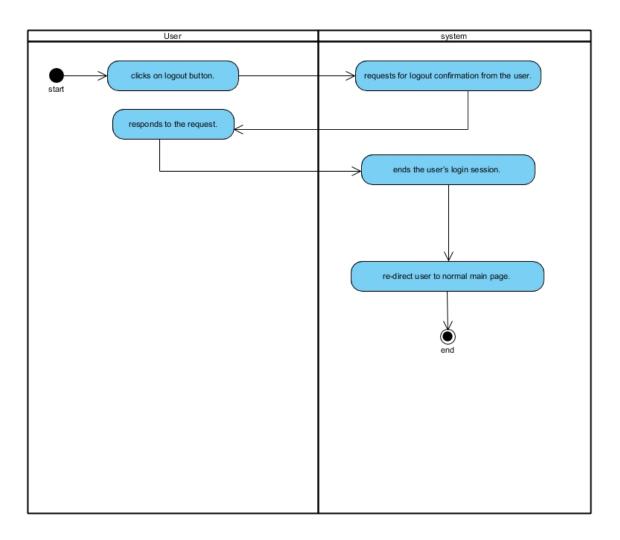
2.3.2. Login







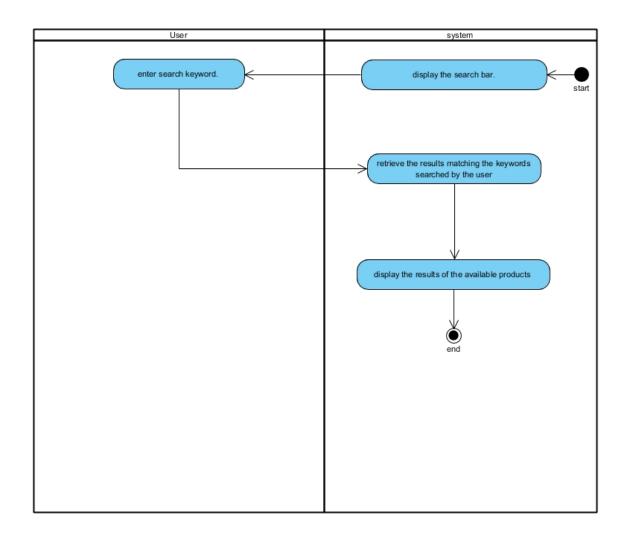
2.3.3. Logout







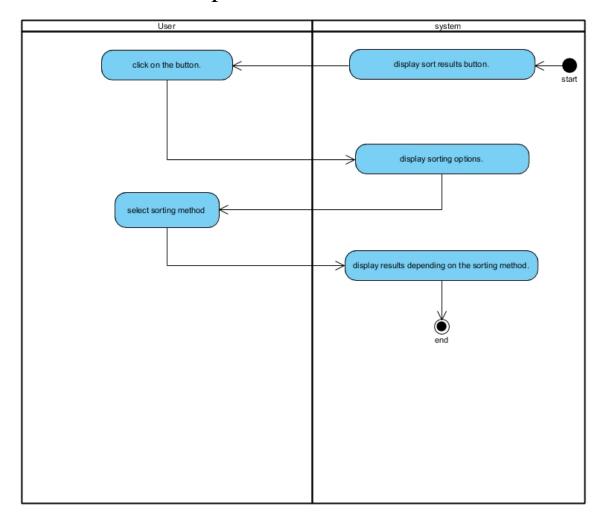
2.3.4. Search for product







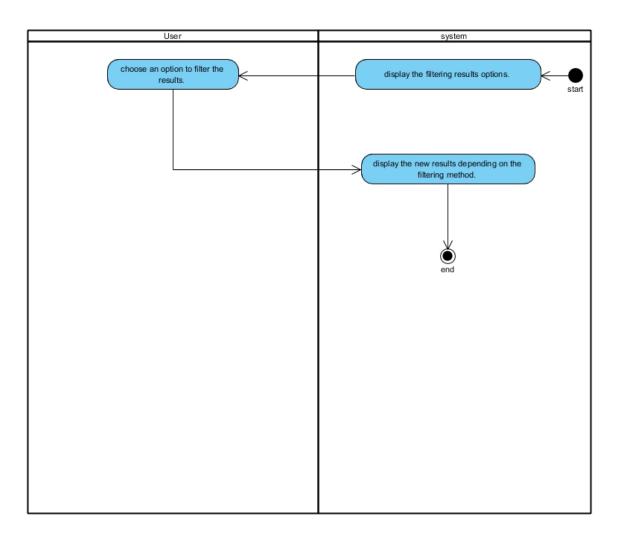
2.3.5. Sort search product







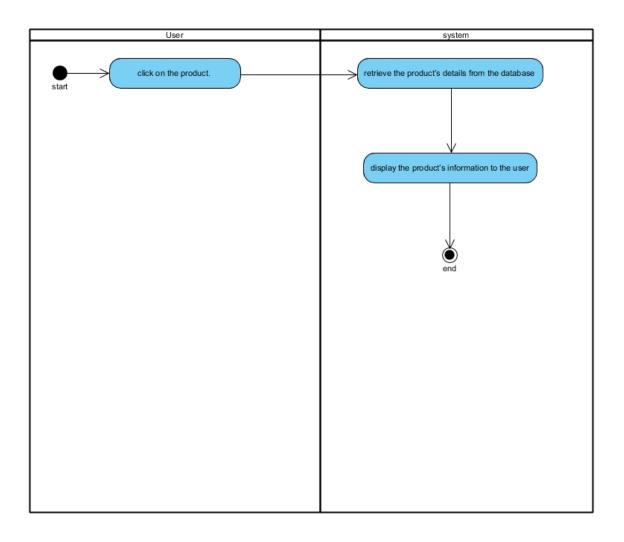
2.3.6. Filter search product







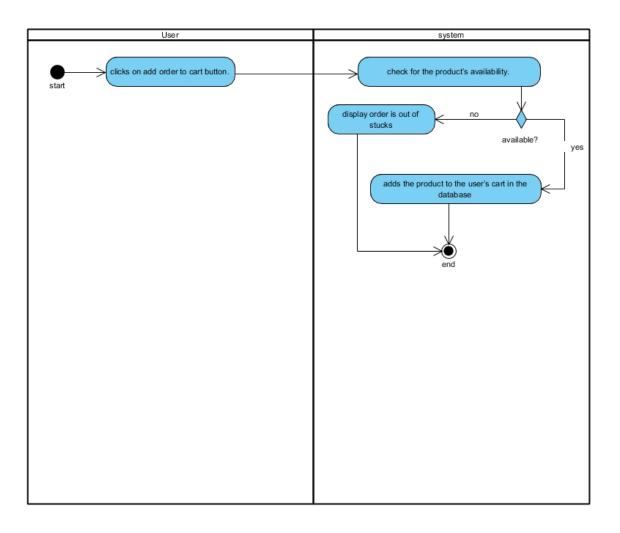
2.3.7. View product







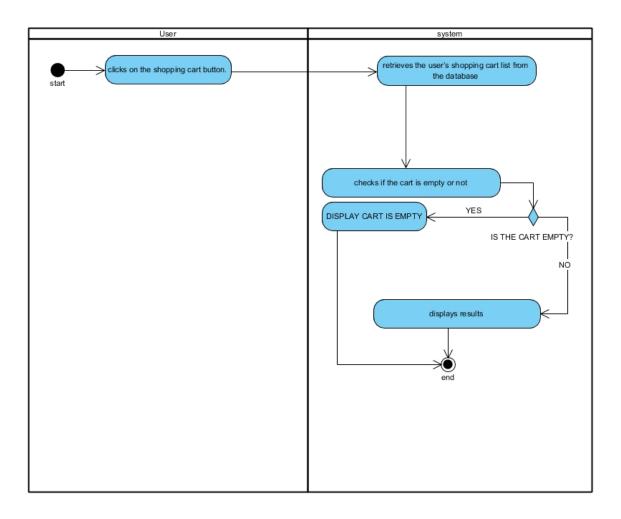
2.3.8. Add product to cart







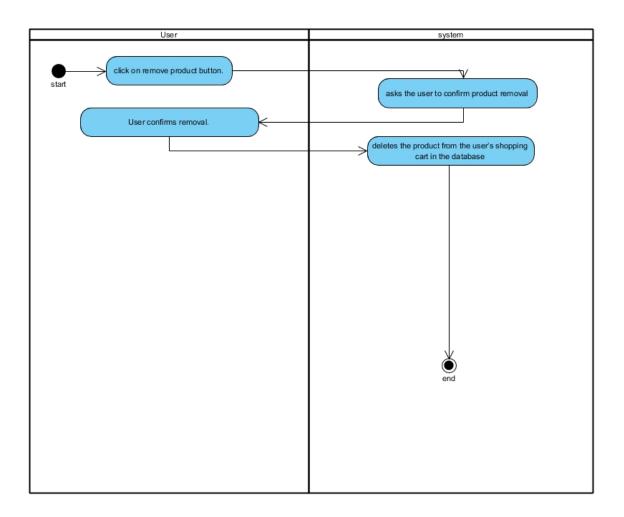
2.3.9. View shopping cart







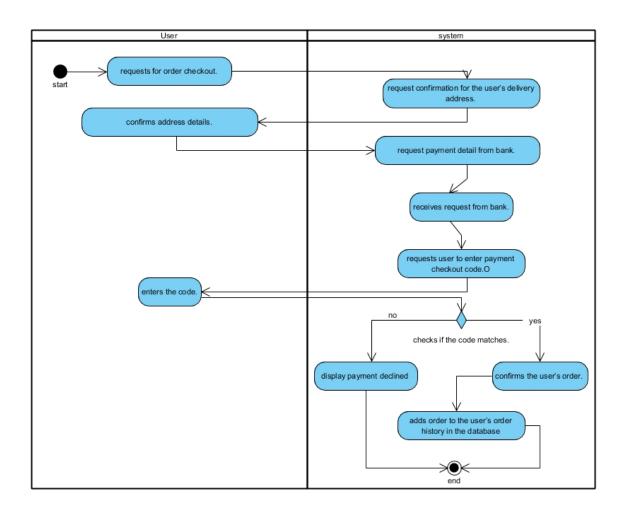
2.3.10. Remove product from cart







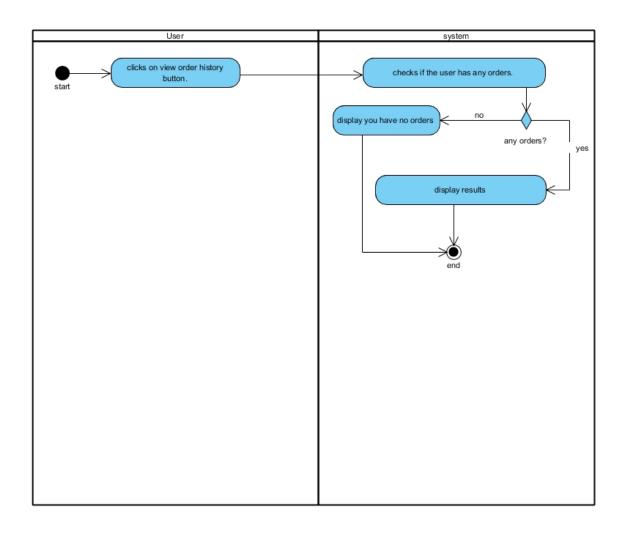
2.3.11. Complete order purchase







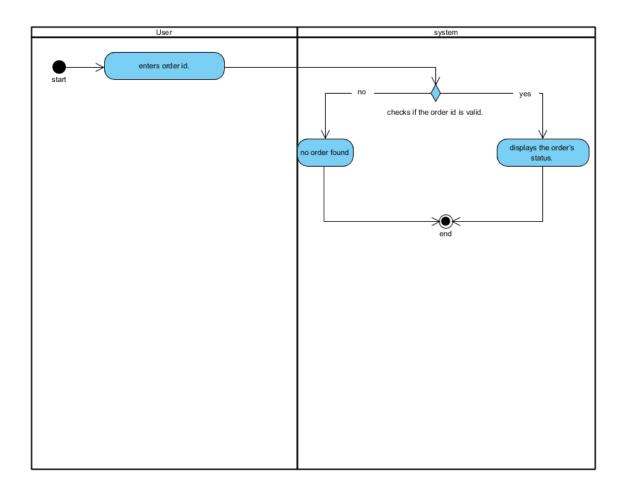
2.3.12. View order history







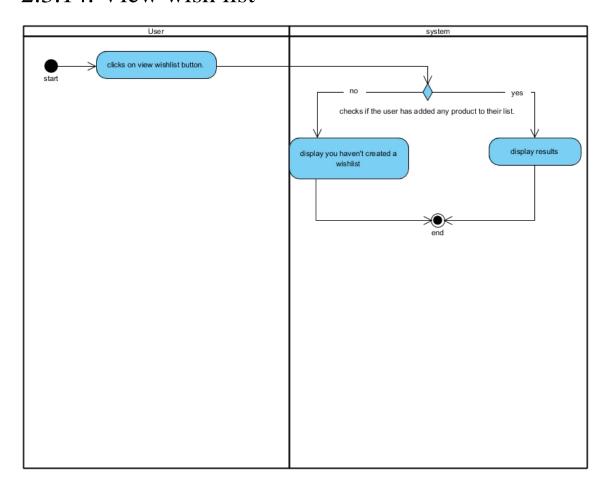
2.3.13. Track order







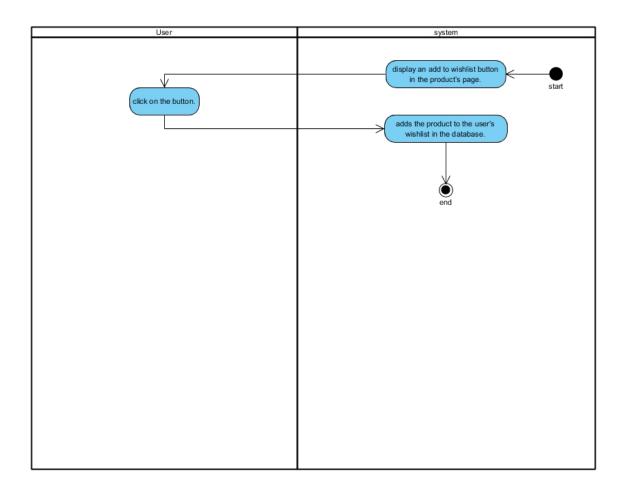
2.3.14. View wish list







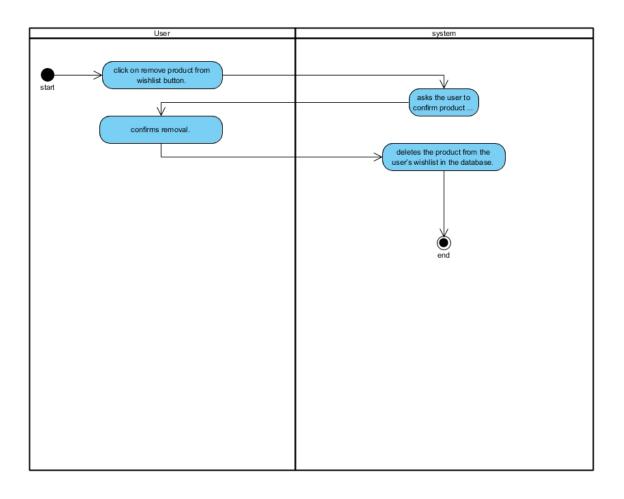
2.3.15. Add item to wish list







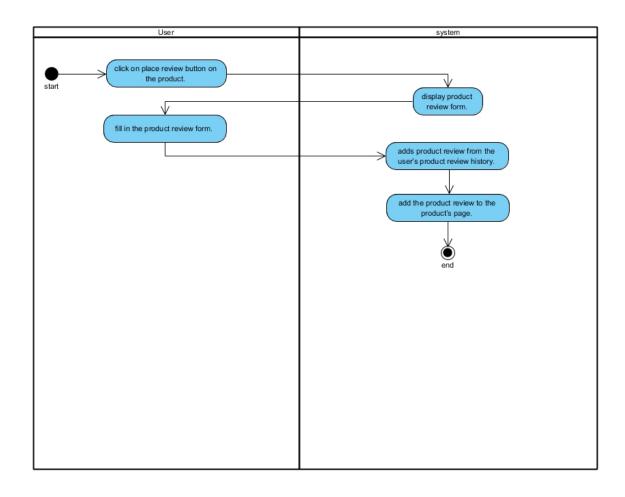
2.3.16. Remove from wish list







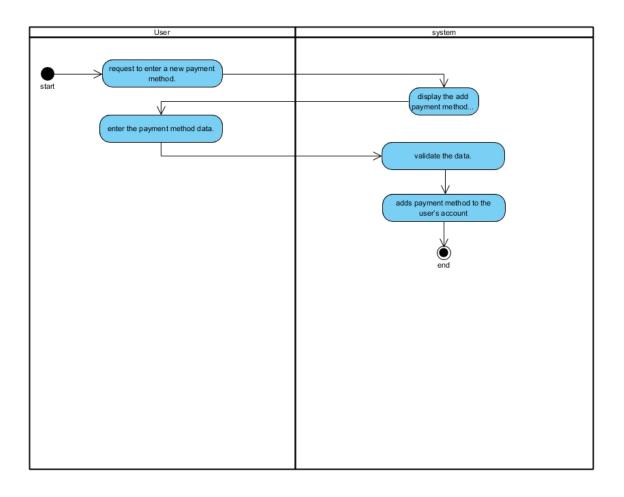
2.3.17. Place product Review







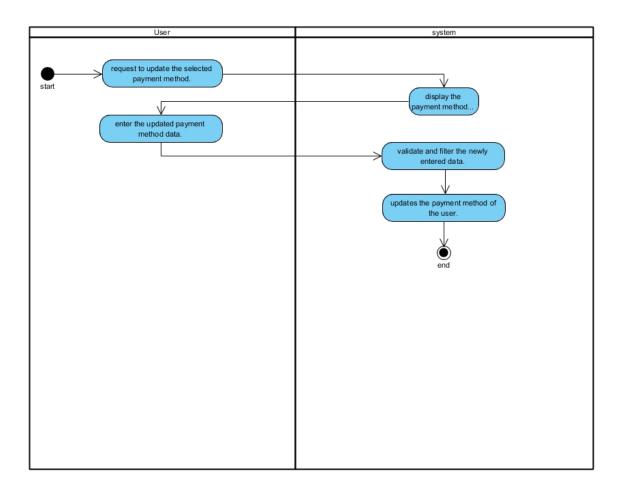
2.3.18. Add payment method







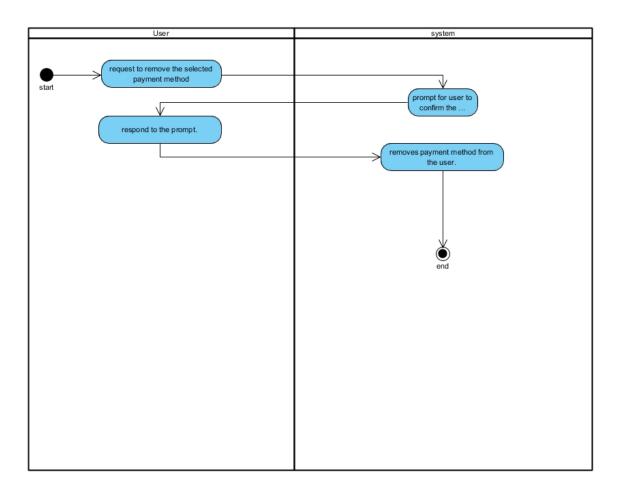
2.3.19. Update payment method







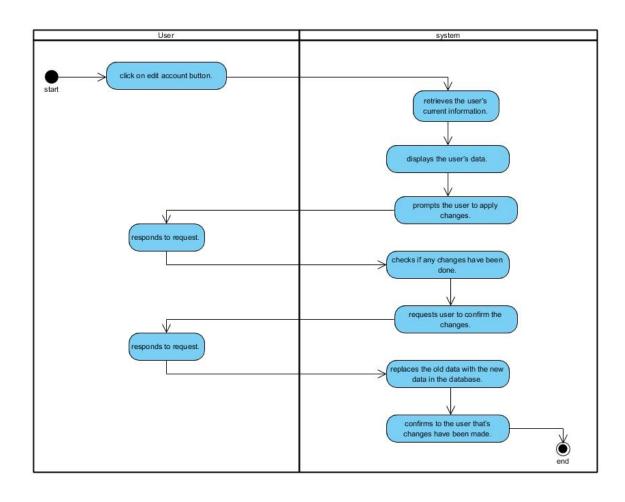
2.3.20. Remove payment method







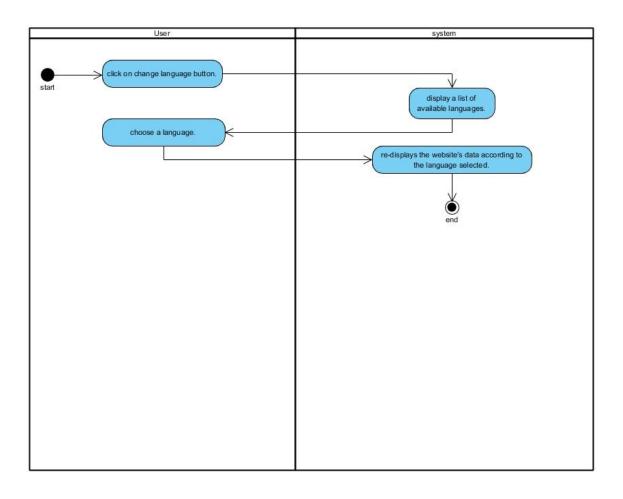
2.3.21. Edit account







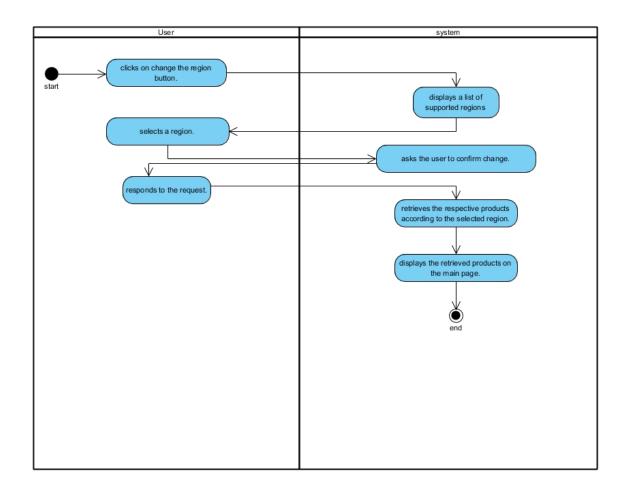
2.3.22. Change Language







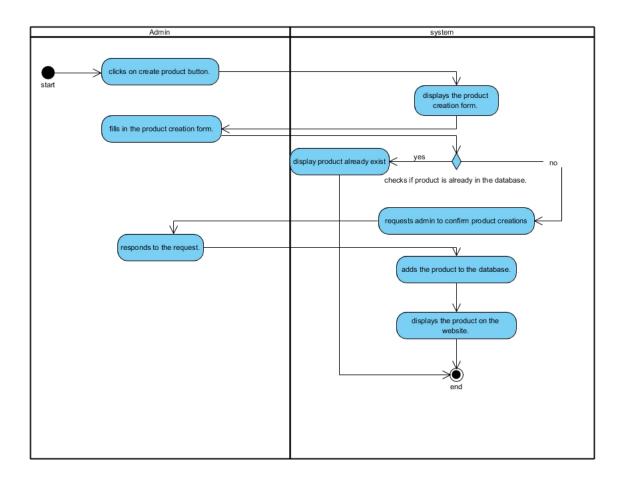
2.3.23. Change Region







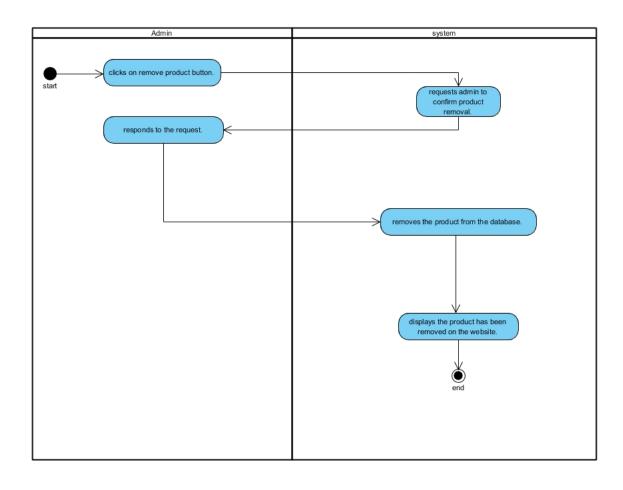
2.3.24. Add product to category







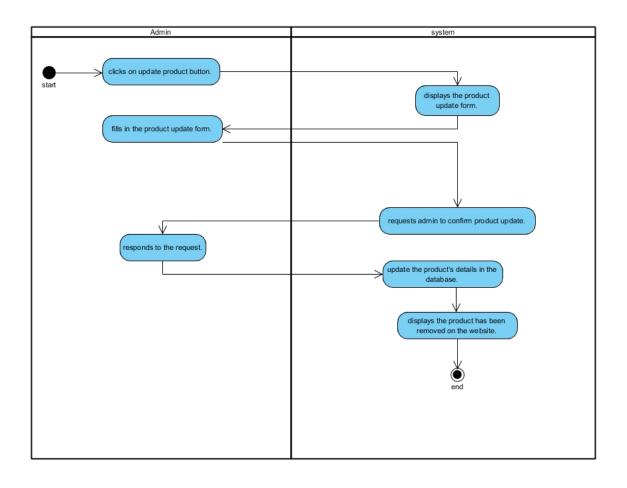
2.3.25. Remove product from category







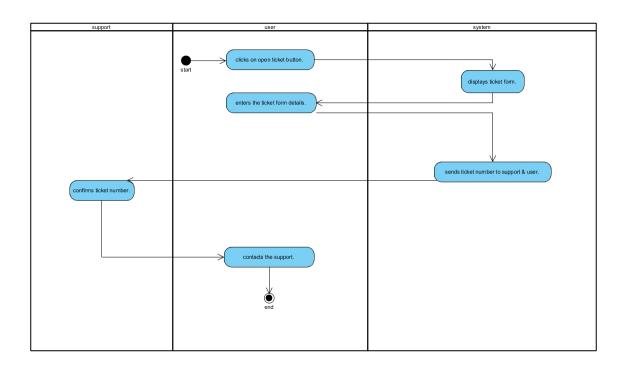
2.3.26. Update product details







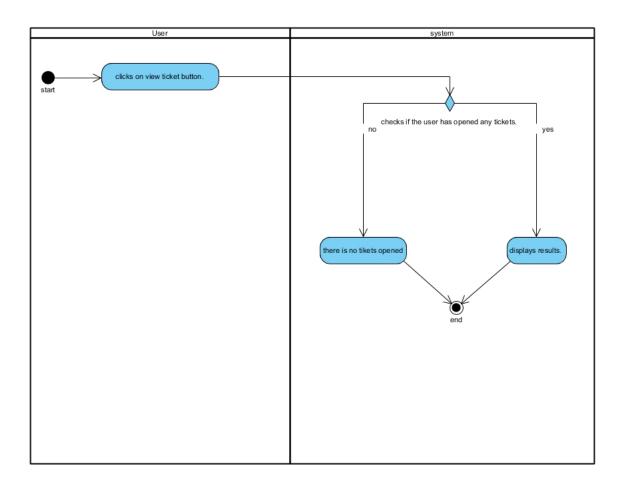
2.3.27. Open customer support ticket







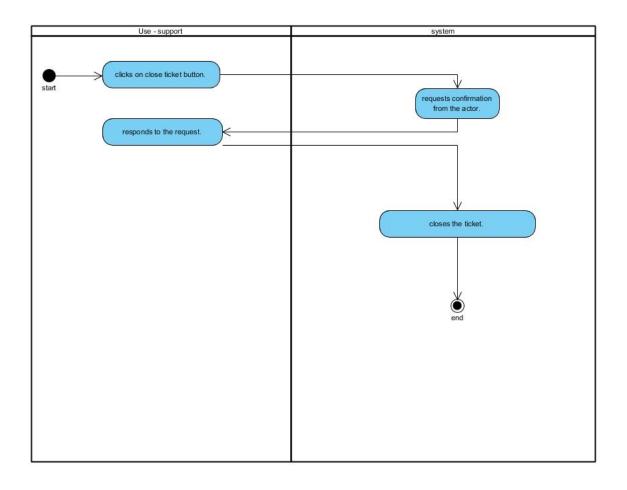
2.3.28. View customer support ticket







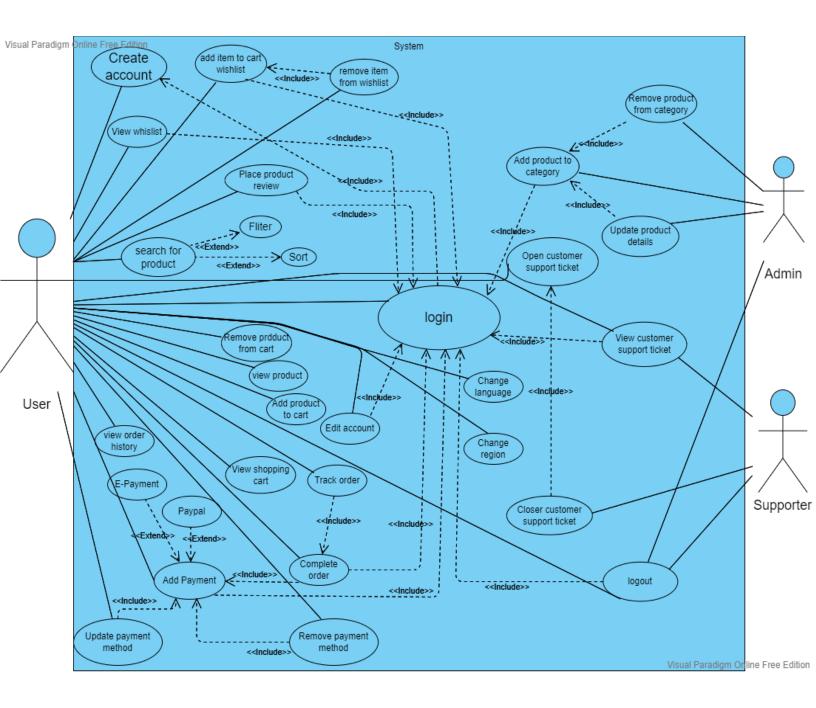
2.3.29. Close customer support







USE CASE DIAGRAM







USE CASE SPECIFICATION

| Use case name | Create Account | |
|----------------------|--|--|
| Scenario | The User open the system to sign up in the website | |
| Brief description | The User will create account in the website | |
| Triggering events | A create account button will be displayed across all the website's pages | |
| Actors | User | |
| Related use cases | *NONE* | |
| Preconditions | User should login to the system | |
| Post conditions | System shall add the data to the database for the website | |
| Flow of events | Actor System | |
| | click on the create account button User will fill the form User will confirm submission clicks on email verification link | 1.1 System will display the create account form 3.1. check if all information are valid 3.2. System will verify password weakness and email validity 4.1. adds user data to the database |
| Exception conditions | 3.1. if information is invalid, display error message3.2. if password weakness and email invalid, display error message | |





| Use case name | Login | |
|----------------------|---|--|
| Scenario | Allow the user to login in the syster | n |
| Brief description | The User login across all of the web | site's pages |
| Triggering events | User clicks on login button | |
| Actors | User | |
| Related use cases | < <include>>: Create account</include> | |
| Preconditions | User should create account before login | |
| Post conditions | System shall allow the user into their account | |
| Flow of events | Actor | System |
| | A login button will be displayed across all of the website's pages User clicks on login button. | 2.1 System displays login form 2.2 System checks if the user exists 2.3 System checks if the password matches the user's data 2.4 System allows the user into their account on the website 2.5 System saves the user's login session |
| Exception conditions | 2.2. if the user invalid, display error message2.3. if password and email invalid, display error message | |





| Use case name | Logout | |
|----------------------|--|--|
| Scenario | To logout from the system | |
| Brief description | Allow the user to logout fro | m system |
| Triggering events | The system display a logout button | |
| Actors | Admin / Supporter / Logout | |
| Related use cases | < <include>>: login</include> | |
| Preconditions | The user login to the system | |
| Post conditions | System requests for logout confirmation from the user | |
| Flow of events | Actor System | |
| | User clicks on logout button User responds to the request | 1.1.System requests for logout confirmation from the user 2.1.System ends the user's login session 2.2.System re-direct user to normal main page |
| Exception conditions | NONE | |





| Use case name | Search for product | |
|----------------------|--|---|
| Scenario | To Search for product in the website | |
| Brief description | The user enter to search in the search bar | |
| Triggering events | User will enter search keyword. | |
| Actors | User | |
| Related use | < <extend>>:Filter</extend> | |
| cases | < <extend>>:Sort</extend> | |
| Preconditions | User enter Search for product | |
| Post conditions | Display the result for search | |
| Flow of events | Actor | System |
| | 1. User will enter search keyword | 1.1 Retrieve the results matching the keywords searched by the user |
| Exception conditions | NONE | |





| Use case name | Sort search results | | |
|----------------------|--|---|--|
| Scenario | To Sort the result for the s | To Sort the result for the search | |
| Brief description | The user | | |
| Triggering events | The user enter to sort the search result | | |
| Actors | User | | |
| Related use cases | *None* | | |
| Preconditions | User enter to search for the product | | |
| Post conditions | Display the result for the sorted search | | |
| Flow of events | Actor System | | |
| | click on the button select the sorting method | 1.1.System will display sorting options 2.1.System will display results depending on the sorting method | |
| Exception conditions | NONE | | |





| Use case name | Filter search results | |
|----------------------|---|--|
| Scenario | To filter search | |
| Brief description | The user allow to filter the result for search | |
| Triggering events | The user enter to filter the search result | |
| Actors | User | |
| Related use cases | NONE | |
| Preconditions | User enter to search for the product | |
| Post conditions | Display the result for the filtered search | |
| Flow of events | Actor System | |
| | User request to view filter User will choose an option to filter the results | 2.1 System will display the filtering results options.2.2 System will display the new results depending on the filtering method |
| Exception conditions | NONE | |





| Use case name | View product | |
|----------------------|--|--|
| Scenario | To View the product | |
| Brief description | The user click to view the product details | |
| Triggering events | The user enter to viev | v the product |
| Actors | User | |
| Related use cases | *NONE* | |
| Preconditions | User find the specific product | |
| Post conditions | Display the information for the product | |
| Flow of events | Actor System | |
| | 1. User will click on the product | 1.1 System will retrieve the product's details from the database 1.2 System will display the product's information to the user |
| Exception conditions | NONE | |





| Use case name | Add product to card | |
|----------------------|---|--|
| Scenario | To add the product th | at the user choose it to the cart |
| Brief description | The user choose his product that want it and add it to product cart | |
| Triggering events | User enter to click on add to cart button in the product's page | |
| Actors | User | |
| Related use cases | *NONE* | |
| Preconditions | The User modify to view the products that want to buy it | |
| Post conditions | The product are selected and add it to cart | |
| Flow of events | Actor | System |
| | 1. User will click on the button | 1.1 System will re-check for the product's availability1.2 System adds the product to the user's cart in the database |
| Exception conditions | 1.1 | |





| Use case name | View shopping cart | | |
|----------------------|---|--|--|
| Scenario | To view the shopping cart | To view the shopping cart that the user see it in the cart | |
| Brief description | The user view his product that add it to cart | | |
| Triggering events | User enter to click on shopping cart button | | |
| Actors | User | | |
| Related use cases | *NONE* | | |
| Preconditions | The User modify to add the products that are selected | | |
| Post conditions | The System display the results for the shopping cart | | |
| Flow of events | Actor | System | |
| | 1. User clicks on the shopping cart button | 1.1 System retrieves the user's shopping cart list from the database 1.2 System checks if the cart is empty or not | |
| Exception conditions | None | | |





| Use case name | Remove product from card | | |
|----------------------|---|--|--|
| Scenario | To remove the product th | To remove the product that the user choose it from the cart | |
| Brief description | The user remove the chos | en product that was add it to product cart | |
| Triggering events | User enter to click on User clicks on the shopping cart button | | |
| Actors | User | | |
| Related use cases | *NONE* | | |
| Preconditions | The User modify to remove the products | | |
| Post conditions | The product remove it from the cart | | |
| Flow of events | Actor System | | |
| | User will click on remove product button User confirms removal | 1.1 System asks the user to confirm product removal2.1 System deletes the product from the user's shopping cart in the database | |
| Exception conditions | NONE | | |





| Use case name | Complete order purchase | |
|----------------------|---|---|
| Scenario | To complete the order ch | eckout details |
| Brief description | The User completes the st | teps for the order purchase |
| Triggering events | The User enter to the che | ckout button |
| Actors | User | |
| Related use cases | < <include>>: Login</include> | |
| Preconditions | User requests for order checkout | |
| Post conditions | The System shall confirms the user's order | |
| Flow of events | Actor System | |
| | User confirms address details User enters the code | 1.1 System request confirmation for the user's delivery address 1.2 System request payment detail and request from bank 1.3 System requests user to enter payment checkout code 1.4 System adds order to the user's order history in the database 2.1 System checks if the code matches 2.2 System confirms the user's order |
| Exception conditions | NONE | |





| Use case name | View order history | |
|----------------------|--|---|
| Scenario | To view the history for the order | to and check it |
| Brief description | The user view the history for the product that the user are buy it | |
| Triggering events | The User clicks on view order history button | |
| Actors | User | |
| Related use cases | *NONE* | |
| Preconditions | The user should complete the order before view it | |
| Post conditions | The system shall display the result for order history | |
| Flow of events | Actor | System |
| | User clicks on view order history button | 1.1 System checks if the user has any orders1.2 System display results |
| Exception conditions | 1.1 if the user has not any orders , display error message | |





| Use case name | Track order | |
|----------------------|---|---|
| Scenario | To allow the users to login | in the systems |
| Brief description | Allow the user to check the order location | |
| Triggering events | The User enters the id for the order | |
| Actors | User | |
| Related use cases | < <include>>: complete order</include> | |
| Preconditions | User should complete the order | |
| Post conditions | The system shall display the track order status | |
| Flow of events | Actor | System |
| | User enters order id | 1.1 System checks if the order id is valid1.2 System displays the order's status |
| Exception conditions | 1.1 System checks if the order id is invalid, display error message | |





| Use case name | View wishlist | |
|----------------------|--|--|
| Scenario | To view the wishlist for the products in website | |
| Brief description | Allow the user to view the favourite product from wishlist | |
| Triggering events | The User clicks on view wishlist button | |
| Actors | User | |
| Related use cases | < <include>>: login</include> | |
| Preconditions | The user should login to the system to view the wishlist | |
| Post conditions | The system shall display results for the wishlist | |
| Flow of events | Actor System | |
| | 1. User clicks on view wishlist button | 1.1 System checks if the user has added any product to their list 1.2 System display results |
| Exception conditions | 1.1 System checks if the user has not added any product to their list, display error message | |





| Use case name | Add item to wishlist | |
|----------------------|--|--|
| Scenario | To add the items in wishli | st for the products in website |
| Brief description | Allow the user to add the favourite product to wishlist | |
| Triggering events | The User clicks on add to wishlist button | |
| Actors | User | |
| Related use cases | < <include>>: login</include> | |
| Preconditions | The user should login to the system to view the wishlist | |
| Post conditions | The system shall add the product to wishlist | |
| Flow of events | Actor | System |
| | 1. User will click on the button(Add) | 1.1 System adds the product to the user's wishlist in the database |
| Exception conditions | NONE | |





| Use case name | Remove item from wishlist | |
|----------------------|--|---|
| Scenario | To remove the items from wishlist | for the products in website |
| Brief description | Allow the user to remove the favo | urite product to wishlist |
| Triggering events | The User clicks on remove to wishlist button | |
| Actors | User | |
| Related use cases | < <include>>: Add item to wishlist</include> | |
| Preconditions | The user should add items to remove it | |
| Post conditions | The system shall remove the product to wishlist | |
| Flow of events | Actor | System |
| | User will click on remove product from wishlist button | 1.1 System asks the user to confirm product removal |
| | 2. User confirms removal | 2.1 System deletes the product from the user's wishlist in the database |
| Exception conditions | NONE | |





| Use case name | Place product review | |
|----------------------|---|---|
| Scenario | To place review for the product in the website | |
| Brief description | The User add the review for fee | dback for the products |
| Triggering events | User click on review button on the product | |
| Actors | User | |
| Related use cases | < <include>>: login</include> | |
| Preconditions | The user should login to the system | |
| Post conditions | The system shall add the product review | |
| Flow of events | Actor System | |
| | User click on place review button on the product User will fill in the product review form | 1.1 System display product review form 2.1 System adds product review from the user's product review history 1.2 System will add the product review to the product's page |
| Exception conditions | NONE | |





| Use case name | Add payment method | |
|----------------------|--|---|
| Scenario | To add the payment method to buy the products | |
| Brief description | User allow to add the payment met | hod to get the products |
| Triggering events | User will enter "add payment method" | |
| Actors | User | |
| Related use cases | < <include>>: Login</include> | |
| Preconditions | User should login to the system to add payment | |
| Post conditions | The system shall adds payment method for the user | |
| Flow of events | Actor | System |
| | User will request to enter a new payment method User will enter the payment method data | 1.1 System will display the add payment method form 2.1 System will validate the data System adds payment method to the user's account |
| Exception conditions | NONE | |





| Use case name | Update payment method | |
|----------------------|---|---|
| Scenario | To update the payment method t | o buy the products |
| Brief description | User allow to Update the payment method to get the products | |
| Triggering events | User will enter "update payment method" | |
| Actors | User | |
| Related use cases | < <include>>: Add payment</include> | |
| Preconditions | User should add payment method | |
| Post conditions | The system shall update payment method for the user | |
| Flow of events | Actor System | |
| | User will request to update the selected payment method User will enter the updated payment method data | 1.1 System will display the payment method update form 2.1. System will validate and filter the newly entered data 2.2. System updates the payment method of the user |
| Exception conditions | NONE | |





| Use case name | Remove payment method | |
|----------------------|--|---|
| Scenario | To remove the payment method for buy the products | |
| Brief description | User allow to remove the payment method | |
| Triggering events | User will enter "remove payment method" | |
| Actors | User | |
| Related use cases | < <include>>: add payment method</include> | |
| Preconditions | User should add payment method to the system | |
| Post conditions | The system shall remove payment method for the user | |
| Flow of events | Actor System | |
| | User will request to remove the selected payment method User will respond to the prompt | 1.1 System will prompt for user to confirm the removal 2.1. System removes payment method from the user |
| Exception conditions | NONE | • |





| Use case name | Edit account | | |
|----------------------|--|---|--|
| Scenario | To edit the account inform | ation for the user | |
| Brief description | The User allow to update a | The User allow to update account information by changing it | |
| Triggering events | User click on edit account button | | |
| Actors | User | User | |
| Related use cases | < <include>>: Login</include> | | |
| Preconditions | User should login to the system to edit the account | | |
| Post conditions | The system shall confirms to the user that's changes have been made. | | |
| Flow of events | Actor | System | |
| | User click on edit account button User responds to request System checks if any changes have been done and confirm the changes System replaces the old data with the new data in the database | | |
| Exception conditions | 2.1 System checks if any changes have not been done, display error message | | |





| Use case name | Change language | |
|----------------------|--|---|
| Scenario | To Change language for the v | vebsite |
| Brief description | The User allow to change the | language according user language |
| Triggering events | User enter language button | |
| Actors | User | |
| Related use cases | *NONE* | |
| Preconditions | User should enter to the system | |
| Post conditions | The system shall re-display the website language | |
| Flow of events | Actor | System |
| | User will click on change language button User will choose a language | 1.1 System will display a list of available languages2.1System re-displays the website's data according to the language selected |
| Exception conditions | *NONE* | |





| Use case name | Change region | | |
|----------------------|--|---|--|
| Scenario | To Change region for the website | | |
| Brief description | The User allow to change the | region according user region | |
| Triggering events | User enter region button | | |
| Actors | User | User | |
| Related use cases | *NONE* | | |
| Preconditions | User should enter to the system | | |
| Post conditions | The system shall re-display the website region | | |
| Flow of events | Actor System | | |
| | User clicks on change the region button User selects a region User responds to the request | 1.1 System displays a list of supported regions 2.1 System asks the user to confirm change 3.1. System retrieves the respective products according to the selected region 3.2. System displays the retrieved products on the main page | |
| Exception conditions | *NONE* | · - | |





| Use case name | Add product to category | | |
|----------------------|---|-------------------|--|
| Scenario | To add the product to category i | in the system | |
| Brief description | Allow the admin to add the proc | ducts to category | |
| Triggering events | Admin clicks on "create product | " button | |
| Actors | Admin | Admin | |
| Related use cases | < <include>>: Login</include> | | |
| Preconditions | User should login to add the product to category | | |
| Post conditions | The system shall displays the product on the website | | |
| Flow of events | Actor System | | |
| | Admin clicks on create product button Admin fills in the product creation form Admin responds to the request System displays the product creation form System checks if product is already in the database System requests admin to confirm product creations System adds the product to the database System displays the product on the website | | |
| Exception conditions | 2.1 System checks if product is not in the database, display error message | | |





| Use case name | Remove product from category | |
|----------------------|--|---|
| Scenario | To remove the product from category in the system | |
| Brief description | Allow the admin to remove the products from category | |
| Triggering events | Admin clicks on "remove product" button | |
| Actors | Admin | |
| Related use cases | < <include>>: add product to category</include> | |
| Preconditions | admin should add product to category before remove | |
| Post conditions | The system shall display the product has been removed on the website | |
| Flow of events | Actor | System |
| | Admin clicks on remove product button Admin responds to the request | 1.1 System requests admin to confirm product removal2.1 System removes the product from the database2.2 System displays the product has |
| | tile request | been removed on the website |
| Exception conditions | *NONE* | |





| Use case name | Update product details | | |
|----------------------|--|--|--|
| Scenario | To update the product from category in the system | | |
| Brief description | Allow the admin to update the products from category | | |
| Triggering events | Admin clicks on "update product" button | | |
| Actors | Admin | | |
| Related use cases | < <include>>: add product to category</include> | | |
| Preconditions | admin should add product to category before update | | |
| Post conditions | The system shall display the product has been updated on the website | | |
| Flow of events | Actor | System | |
| | Admin clicks on update product button Admin responds to the | 1.1 System displays the product update form 2.1 System requests admin to | |
| | request 3. Admin fills in the product update form | confirm product update 3.1 System update the product's details in the database | |
| Exception conditions | *NONE* | | |





| Use case name | Open customer support ticket | |
|----------------------|---|---|
| Scenario | To open customer support ticket in the website | |
| Brief description | Allow the user to open the support ticket for contact with the supporter | |
| Triggering events | User clicks on "open ticket" button | |
| Actors | User | |
| Related use cases | *NONE* | |
| Preconditions | User should login to the system before open the support | |
| Post conditions | The system shall sends ticket number to support & user | |
| Flow of events | Actor | System |
| | User clicks on open ticket button User enters the ticket form details User contacts the support | 1.1 System displays ticket form 2.1 System sends ticket number to support & user 2.2 Support confirms ticket number |
| Exception conditions | *NONE* | |





| Use case name | View customer support ticket | |
|----------------------|---|--|
| Scenario | To view customer support ticket in the website | |
| Brief description | Allow the User and Supporter to see the support ticket | |
| Triggering events | User and Supporter clicks on "view ticket" button | |
| Actors | User / Supporter | |
| Related use cases | < <include>>: Login</include> | |
| Preconditions | User and supporter should login to the website before view | |
| Post conditions | The system shall display the support ticket result | |
| Flow of events | Actor | System |
| | actor clicks on view ticket button | 1.1 System checks if the user has opened any tickets1.2 System displays results |
| Exception conditions | 1.1 System checks if the user has not opened any tickets, display error message | |



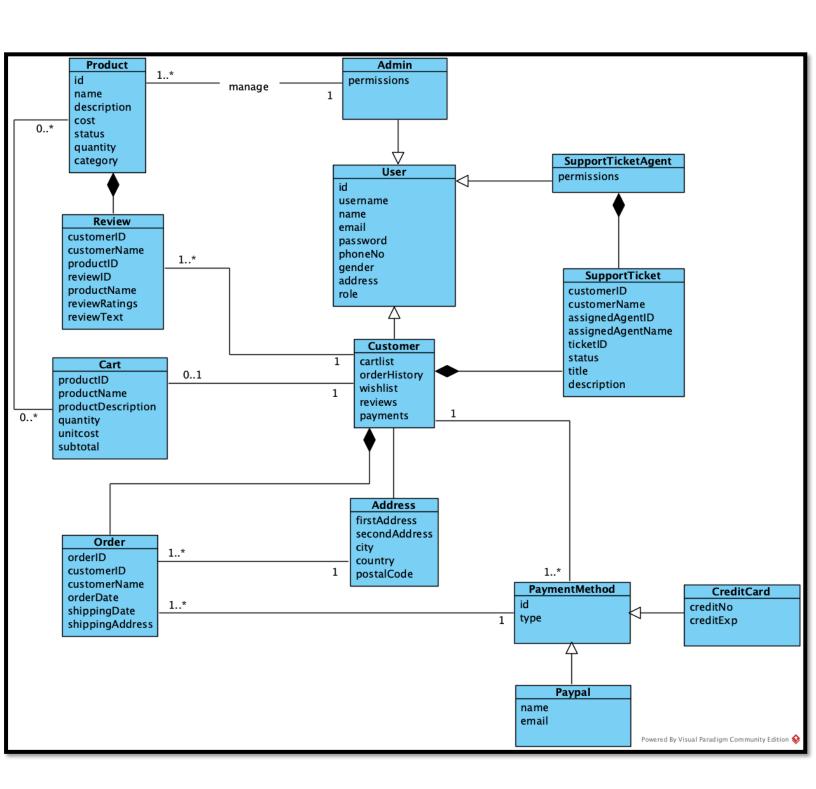


| Use case name | Close customer support ticket | |
|----------------------|--|--|
| Scenario | To close customer support ticket in the website | |
| Brief description | Allow the User and Supporter to close the support ticket | |
| Triggering events | User and Supporter clicks on "close ticket" button | |
| Actors | User / Supporter | |
| Related use cases | < <include>>: open customer support ticket</include> | |
| Preconditions | User and supporter should open customer support ticket | |
| Post conditions | The system shall display the close support ticket | |
| Flow of events | Actor | System |
| | Actor clicks on close ticket button Actor responds to the request | 1.1 System requests confirmation from the actor 2.1 System closes the ticket |
| Exception conditions | *NONE* | |





DOMAIN CLASS DIAGRAM

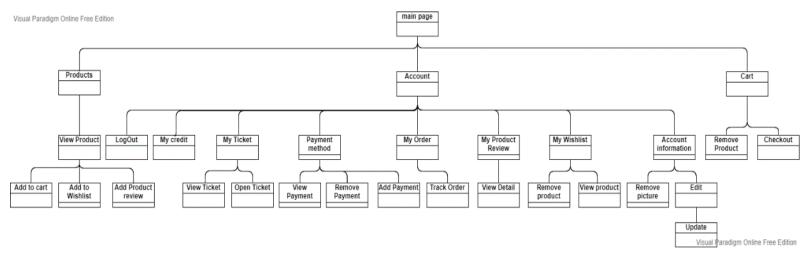




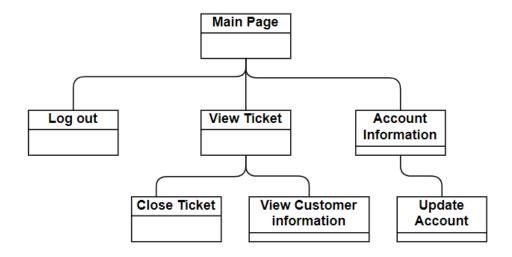


NAVIGATION DIAGRAM

2.7.1. User



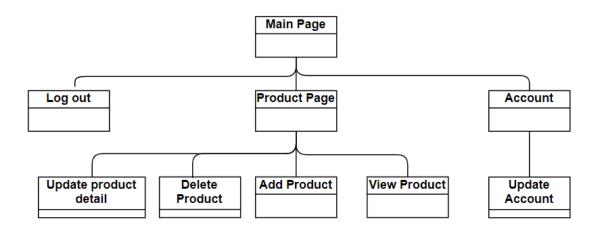
2.7.2. Supporter







2.7.3. Admin



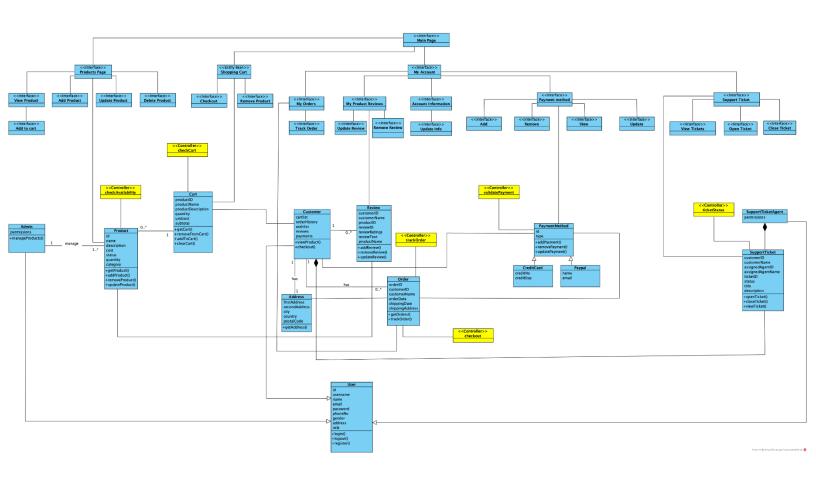


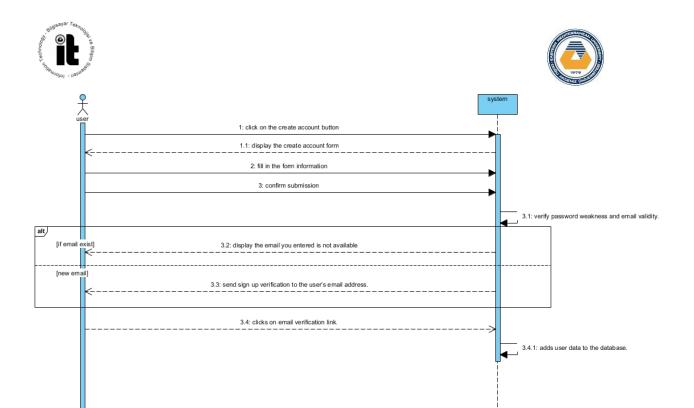


DESIGN CLASS DIAGRAM

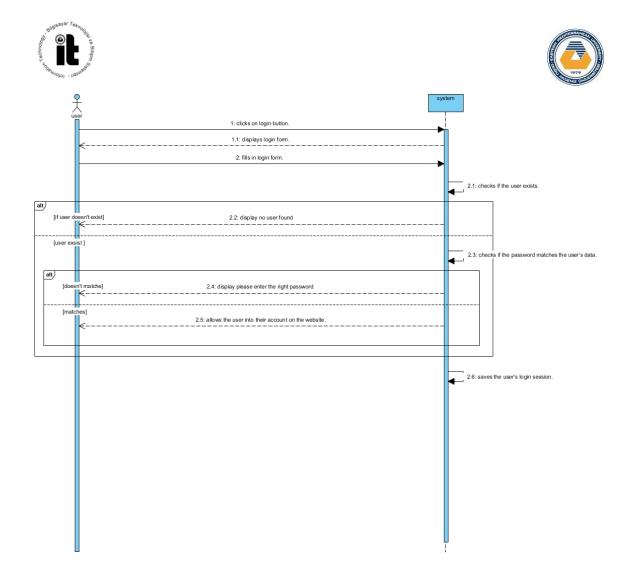
SEQUENCE DIAGRAM

2.9.1. Create account

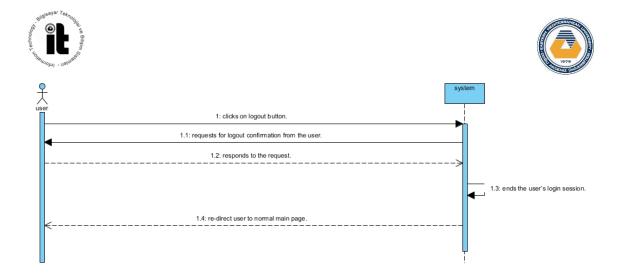




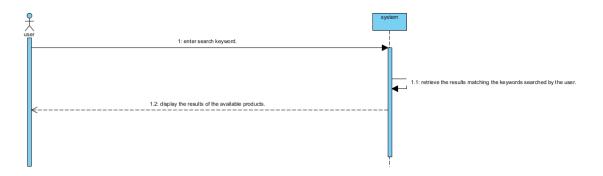
2.9.2. Login



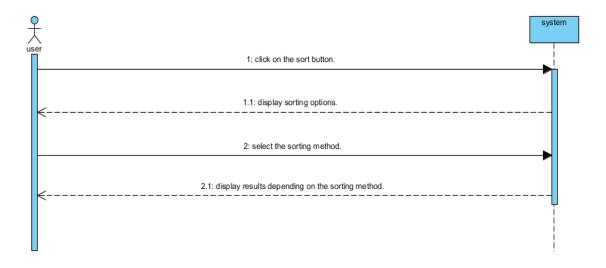
2.9.3. Logout



2.9.4. Search for product



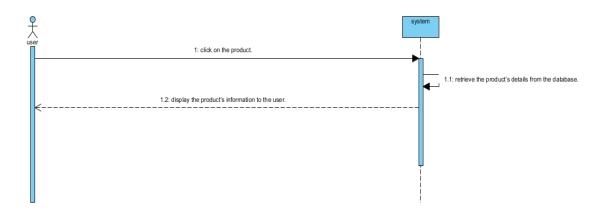
2.9.5. Sort search result



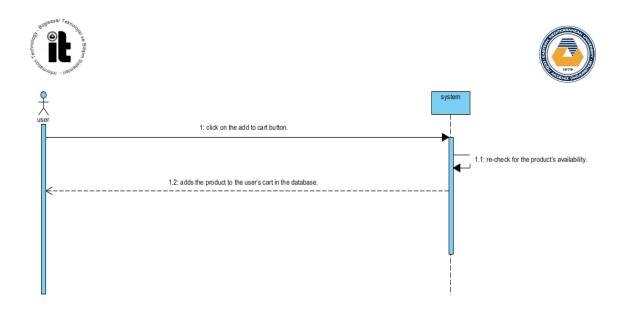
2.9.6. Filter search result



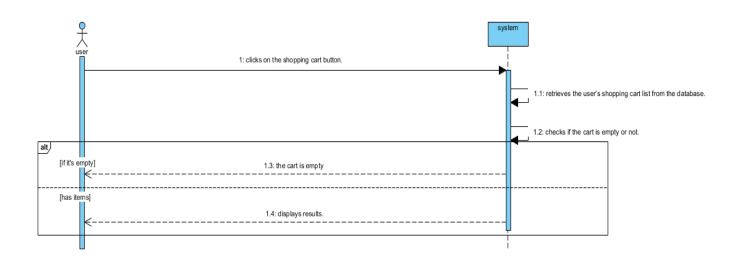
2.9.7. View product



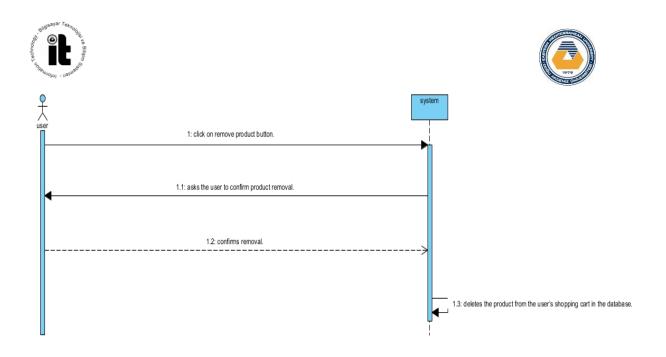
2.9.8. Add product to cart



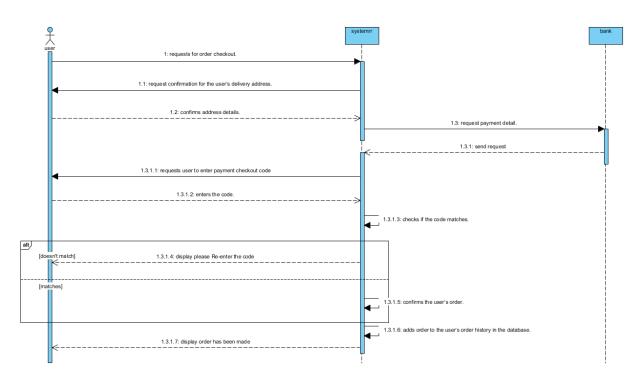
2.9.9. View shopping cart



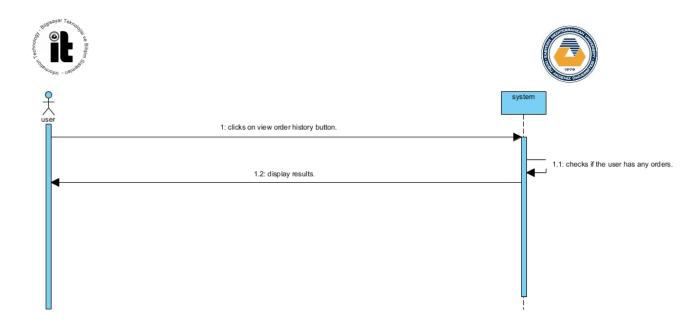
2.9.10. Remove product from cart



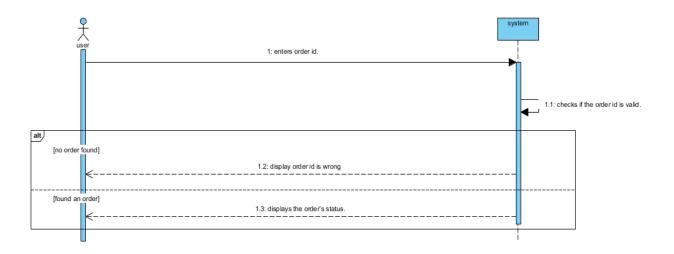
2.9.11. Complete our purchase



2.9.12. View order history



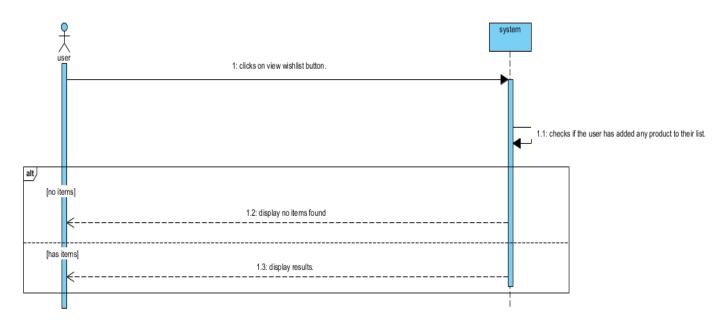
2.9.13. Track order



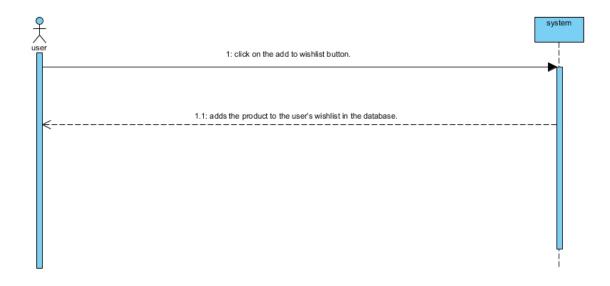




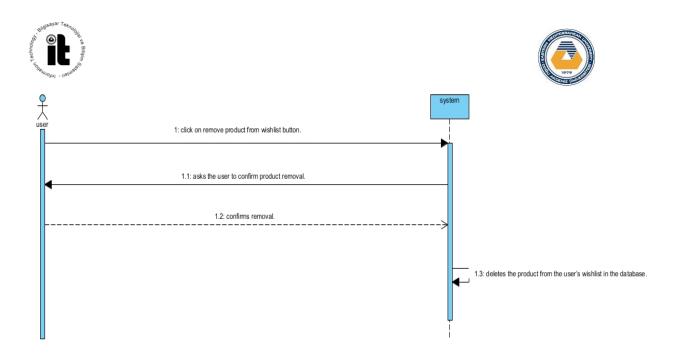
2.9.14. View wish list



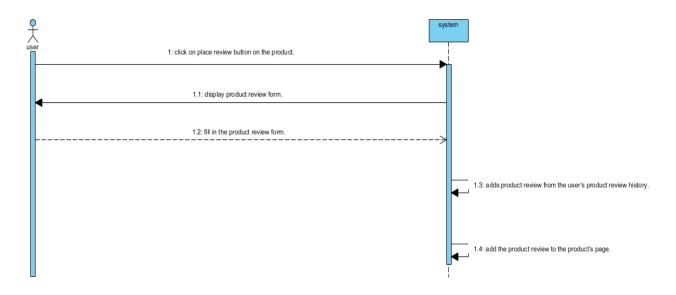
2.9.15. Add item to whish list



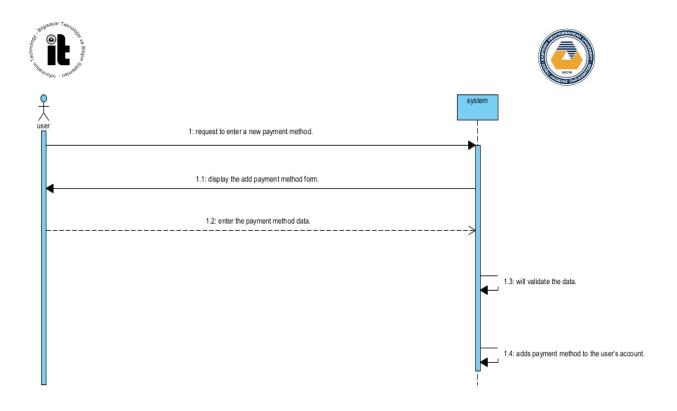
2.9.16. Remove from wish list



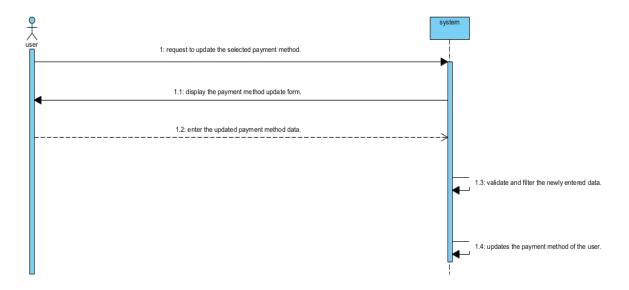
2.9.17. Place product review



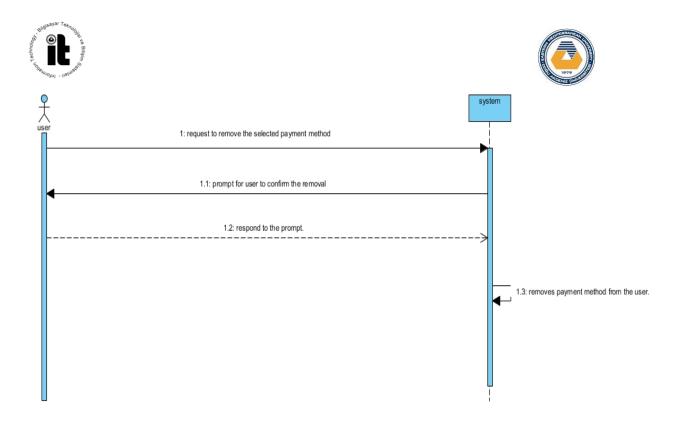
2.9.18. Add payment method



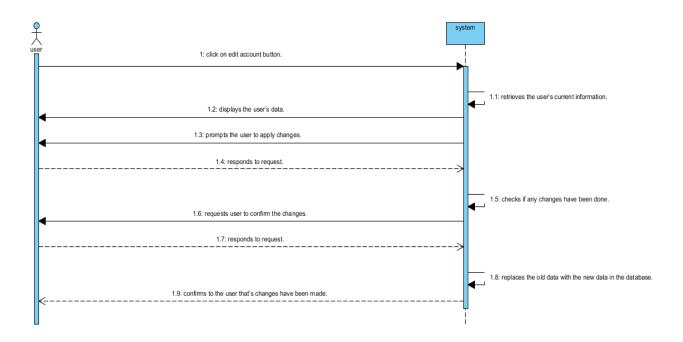
2.9.19. Update payment method



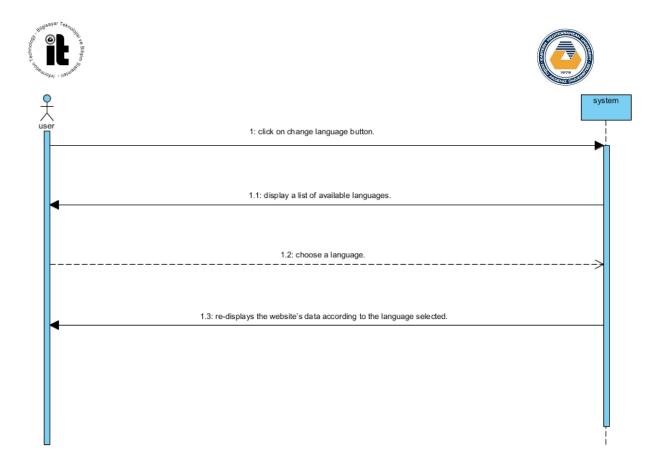
2.9.20. Remove payment method



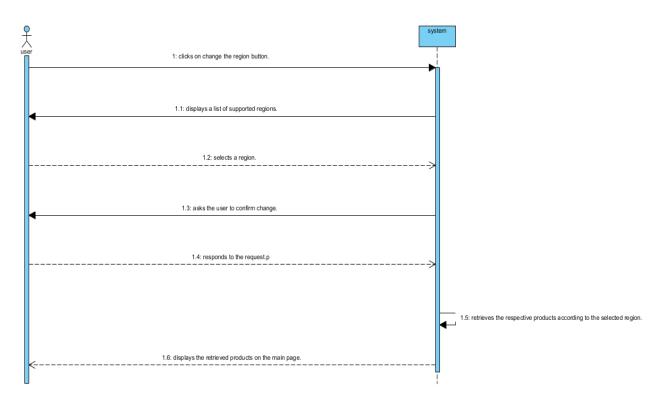
2.9.21. Edit account



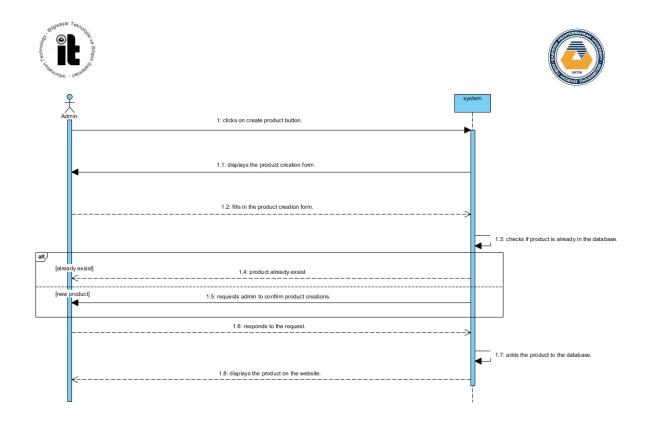
2.9.22. Change Language



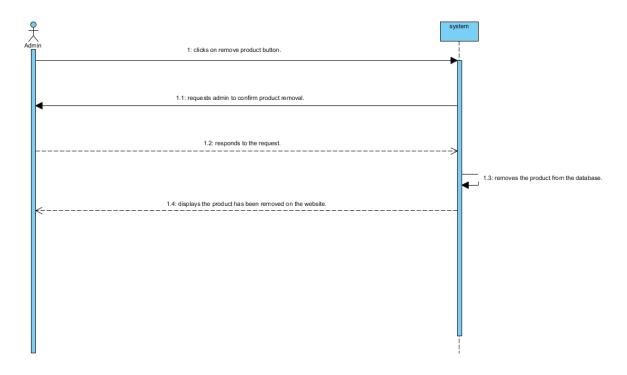
2.9.23. Change region



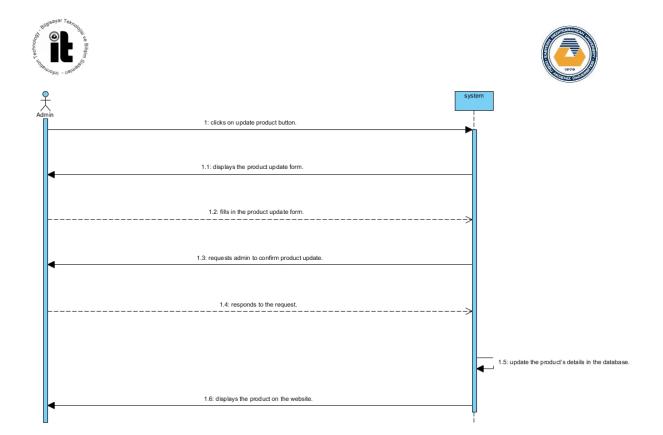
2.9.24. Add product to category



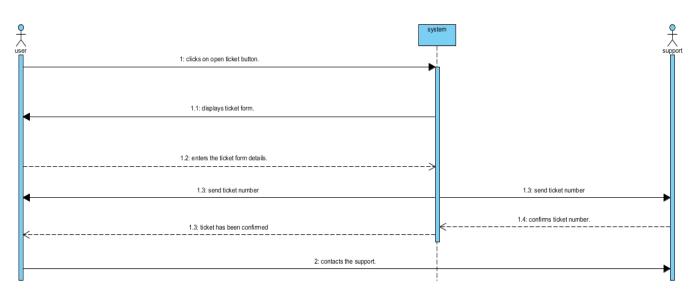
2.9.25. Remove product from category



2.9.26. Update product details



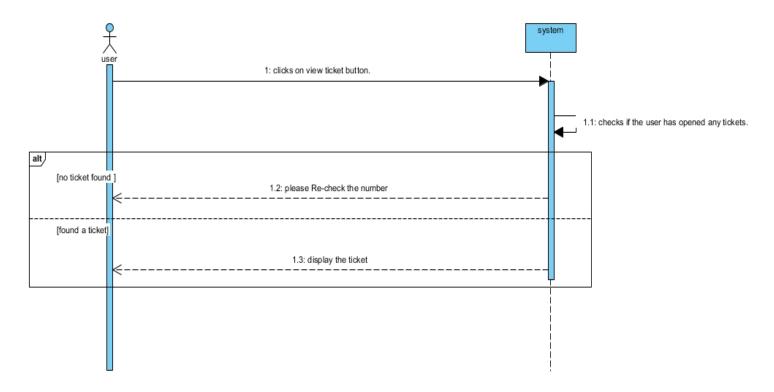
2.9.27. Open customer support ticket



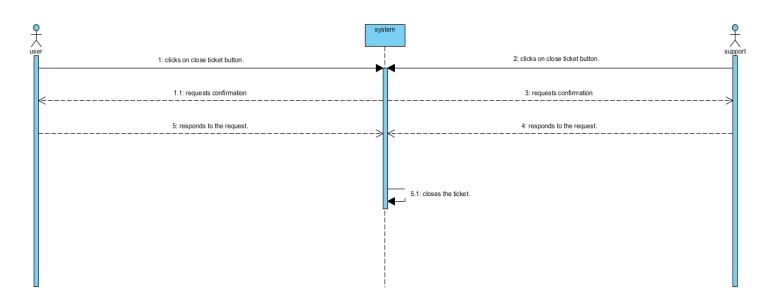




2.9.28. View customer support ticket



2.9.29. Close customer support







PACKAGE DIAGRAM

