**USECASE DESCRIPTION**

1. Register via email/password – UC01

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| Register via email/password | |
| **Title** | **Content** |
| Use case Name | Register via email/password |
| ID | UC01 |
| Description | This use case allows a new user to register by providing an email address and creating a password. |
| Actor | Guest |
| Trigger | The user accesses to the registration page. |
| Preconditions | PRE-1: The user is not logged in. |
| Postconditions | POST-1: The system creates a new account in database.  POST-2: The system sends an OTP to the user’s email and go to UC5.2. |
| Main Flow | 1. The user accesses to the registration page.  2. The system displays a registration form.  3. The user enters the required details (e.g. name, email, password, etc.).  4. The user submits the registration form.  5. The system validates the input.  6. The system checks the email is already registered.  7. The system creates a new account in the database with an unverified status.  8. The system creates an OTP and sends it to the user’s email.  9. The system redirects the user to the OTP verification page.  Go to UC5.2 (Verify account via OTP). |
| Alternate Flow | AF-1: Invalid input  5a. If invalid input, the system displays detailed error message and go back to step 3.  AF-2: Email already exists  6a. If email exist, the system displays error message and go back to step 3. |
| Exception | Ex-1: Internal Server Error.  - At any step, the system redirects user to the error page.  Ex-2: Too many requests. - At any step, the system displays error message. Ex-3: Email Service Unavailable.  - At step 8, the system displays error message. |

1. Forgot password – UC02

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| Forgot password | |
| **Title** | **Content** |
| Use case Name | Forgot password |
| ID | UC02 |
| Description | This use case allows a user to reset their password if they forget it. The system will send a password reset link to the user's registered email. The user can then create a new password and regain access to their account. |
| Actor | Guest |
| Trigger | The user accesses to the forgot password page. |
| Preconditions | PRE-1: The user is not logged in. |
| Postconditions | POST-1: The system updates the user’s password in the database. |
| Main Flow | 1. The user accesses to the forgot password page.  2. The system displays a forgot password form.  3. The user enters email.  4. The user submits the forgot password form.  5. The system validates the input.  6. The system checks account exists with the email provided.  7. The system checks the time limit that requires a password reset.  8. The system creates a password reset token and saves it in database.  9. The system sends a reset link to the user’s email.  10. The user checks their email and clicks the reset link.  11. The system validates token.  12. The system redirects user to the reset password page and display the form.  13. The user enters a new password and confirm password.  14. The user submits the reset password form.  15. The system validates the new password.  16. The system updates the user’s password in the database.  17. The system displays a success message and redirects the user to the login page. |
| Alternate Flow | AF-1: Invalid email  5a. If invalid email, the system displays detailed error message and go back to step 3.  AF-2: User not found  6a. If user not found, the system displays error message and go back to step AF-3: Request limit  7a. IF error request limit, the system displays error message and go back to step 3.  AF-4: Reset password token invalid  11a. The system displays error message and redirects user to the forgot password page and go back to step 2.  AF-5: Invalid new password or confirm password  15a. If invalid email, the system displays detailed error message and go back to step 13. |
| Exception | Ex-1: Internal Server Error.  - At any step, the system redirects user to the error page.  Ex-2: Too many requests. - At any step, the system displays error message. Ex-3: Email Service Unavailable.  - At step 9, the system displays error message. |

1. Search product – UC03

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| Search product | |
| **Title** | **Content** |
| Use case Name | Search product |
| ID | UC03 |
| Description | This use case allows users to search for products by entering keywords, applying filters, or sorting results. The system retrieves and displays relevant products based on the search criteria. |
| Actor | Customer, Guest |
| Trigger | User enters a keyword into the search bar or apply filters. |
| Preconditions | Don’t have. |
| Postconditions | POST-1: The system displays relevant products matching the search query.  POST-2: If no matching products are found, the system displays a message. |
| Main Flow | 1. The user enters a keyword into the search bar or selects advanced filters.  2. The system retrieves matching products from the database.  3. The system check the results.  4. The system displays a list of products with relevant details to the user. |
| Alternate Flow | AF-1: No results found  3a. If no results found, the system displays a “No products found” message. |
| Exception | Ex-1: Internal Server Error.  - At any step, the system redirects user to the error page. Ex-2: Too many requests. - At any step, the system displays error message. |

1. View details product – UC04

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| View details product | |
| **Title** | **Content** |
| Use case Name | View details product |
| ID | UC04 |
| Description | This use case allows user to see details information about a selected product. |
| Actor | Customer, Guest |
| Trigger | The user selects a product from a list or grid of products to view its detailed information. |
| Preconditions | PRE-1: Product available in the system |
| Postconditions | POST-1: The product details are displayed to the user. |
| Main Flow | 1. The user selects a specific product on the page or click to the promotional link.  2. The system retrieves the product details from the database.  3. The system checks the result.  4. The system displays the product details. |
| Alternate Flow | AF-1: Product not found  4a. The system redirects to “Not found” page and end use case. |
| Exception | Ex-1: Internal Server Error  1. At any step, the system displays error message. |

1. Login – UC05
   1. Login via email/password – UC05.1

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| Login via email/password | |
| **Title** | **Content** |
| Use case Name | Login via email/password |
| ID | UC5.1 |
| Description | This use case describes the process of a user logging into the system using their registered email and password. |
| Actor | All actors |
| Trigger | User accesses to login page. |
| Preconditions | PRE-1: The user is not logged in. PRE-2: The user has a registered account. |
| Postconditions | POST-1: The user is authenticated and redirected to the appropriate page. |
| Main Flow | 1. The user accesses to login page.  2. The system displays a login form.  3. The user enters their email and password.  4. The user submits the login form  5. The system validates the input.  6. The system checks the credentials.  7. The system checks the user’s account need two-factor authentication by checking the account is verified and is the user.  8. The system creates access token and refresh token, saves the refresh token in the database.  9. The system logs the user in.  10. The system redirects the user to the appropriate page based on user type. |
| Alternate Flow | AF-1: Invalid input: 5a. The system displays an error message and go back to step 3. AF-2: Incorrect Credentials  6a. If the user enters incorrect credentials, the system displays an error message and go back to step 3.  AF-3: Account need two-factor authentication  7a. The system creates an OTP in the database.  7a1. The system sends OTP to the user’s email.  7a2. The system redirects user to the OTP verification page and go to UC5.2. |
| Exception | Ex-1: Internal Server Error.  - At any step, the system redirects user to the error page. Ex-2: Too many requests. - At any step, the system displays error message.  Ex-3: Email Service Unavailable.  - At step 7a, the system displays error message. |

* 1. Verify account via OTP – UC5.2

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| Verify account via OTP | |
| **Title** | **Content** |
| Use case Name | Verify account via OTP |
| ID | UC5.2 |
| Description | This use case allows a user to verify their account using a One-Time Password (OTP) sent to their registered email or phone number. |
| Actor | All actors |
| Trigger | The system redirects the user to the OTP verification page. |
| Preconditions | PRE-1: The user is not logged in. PRE-2: The system has sent an OTP to the user's email.  PRE-3: The user is redirected to verify OTP page by the system. |
| Postconditions | POST-1. The system updates the user’s account is verified in the database.  POST-2. The user is authenticated and redirected to the appropriate page. |
| Main Flow | 1. The system redirects the user to the OTP verification page.  2. The system displays an OTP verification form.  3. The user checks their email and enters the OTP code to the form.  4. The user submits the OTP verification form  5. The system validates the OTP input.  6. The system checks the OTP matches in the database by OTP code and expiration time.  7. The system updates the user’s account is verified and removes the OTP in the database.  8. The system sends a welcome email to the user’s email.  9. The system creates access token and refresh token, saves the refresh token in the database.  10. The system logs the user in.  11. The system redirects the user to the appropriate page based on user type. |
| Alternate Flow | AF-1: Resend OTP  3a. The user clicks to resend OTP.  3a1. The system checks the user has a valid OTP.  3a2. The system displays a message asking the user to wait for OTP to expire and go back to step 3a. AF-1.1: The user has invalid OTP  3a1a. If invalid OTP, the system creates a new OTP for the user.  3a1a1. The system sends the OTP to the user’s email.  3a1a2. The system displays a success message and go back to step 3.  AF-2: Invalid OTP 5a. The system displays an error message and go back to step 3. AF-3: OTP does not match  6a. The system displays an error message and go back to step 3. |
| Exception | Ex-1: Internal Server Error.  - At any step, the system redirects user to the error page. Ex-2: Too many requests. - At any step, the system displays error message.  Ex-3: Email Service Unavailable.  - At step 7a or 3a1a1, the system displays error message. |

* 1. Login via google – UC5.3

1. Manage shipping addresses – UC06
   1. View list shipping addresses – UC06.1

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| View list shipping addresses | |
| **Title** | **Content** |
| Use case Name | View list shipping addresses |
| ID | UC6.1 |
| Description | This use case describes the process by which a user can view a list of their saved shipping addresses. |
| Actor | Customer |
| Trigger | The user navigates to the shipping address section of their account profile or during checkout. |
| Preconditions | PRE-1. The user is logged into their account. |
| Postconditions | POST-1. The system displays a list of the user’s saved shipping addresses. It is possible that the list is empty. |
| Main Flow | 1. The user navigates to the shipping address section.  2. The system retrieves the user’s saved shipping address list.  3. The system checks the results.  4. The system displays the list of shipping addresses to the user. |
| Alternate Flow | AF-1: No saved shipping address:  4a. The system displays a message that no shipping addresses are found |
| Exception | Ex-1: Internal Server Error.  - At any step, the system redirects user to the error page. Ex-2: Too many requests. - At any step, the system displays error message. |

* 1. Create shipping address – UC06.2

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| Create shipping address | |
| **Title** | **Content** |
| Use case Name | Create shipping address |
| ID | UC6.2 |
| Description | This use case describes the process by which a user can add a new shipping address. |
| Actor | Customer |
| Trigger | The user navigates to the create shipping address section by clicking on the add new address button or link. |
| Preconditions | PRE-1. In UC6.1: View list shipping addresses. |
| Postconditions | POST-1. The new shipping address is saved to the user's account. |
| Main Flow | 1. The user navigates to the create shipping address section.  2. The system displays a form for the user to enter the new shipping address details.  3. The user enters information in the form.  4. The user submits the form.  5. The system validates the entered information.  6. The system saves the new shipping address.  7. The system notifies a success message. |
| Alternate Flow | AF-1: Invalid input  6a. The system displays an error message and go back to step 3. |
| Exception | Ex-1: Internal Server Error.  - At any step, the system redirects user to the error page. Ex-2: Too many requests. - At any step, the system displays error message. |

* 1. View shipping address details – UC06.3

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| View shipping address details | |
| **Title** | **Content** |
| Use case Name | View shipping address details |
| ID | UC6.3 |
| Description | This use case describes the process by which a user can view the full details of a specific saved shipping address. |
| Actor | Customer |
| Trigger | The user selects the specific address they want to view and clicks on update button/link. |
| Preconditions | PRE-1: In UC6.1 - View list shipping addresses. PRE-2: The user must have at least one shipping address saved. |
| Postconditions | POST-1: The system displays the details of selected shipping address. |
| Main Flow | 1. The user selects the specific address they want to view and clicks on update button/link.  2. The system retrieves the selected shipping address.  3. The system displays the full details of the selected address to the user. |
| Alternate Flow | Don’t have. |
| Exception | Ex-1: Internal Server Error.  - At any step, the system redirects user to the error page. Ex-2: Too many requests. - At any step, the system displays error message. |

* 1. Update shipping address – UC06.4

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| Update shipping address | |
| **Title** | **Content** |
| Use case Name | Update shipping address |
| ID | UC6.4 |
| Description | This use case allows a user to modify an existing shipping address. |
| Actor | Customer |
| Trigger | The user initiates the creation process by adding a new shipping address. |
| Preconditions | PRE-1: In UC6.1 - View list shipping addresses. |
| Postconditions | POST-1: The selected shipping address is updated in the system. |
| Main Flow | 1. The user selects an address to update.  2. The user retrieves the address details.  3. The user modifies the details.  4. The user submits the updated information.  5. The system validates the input.  6. If valid, the system updates the address.  7. The system displays a success message. |
| Alternate Flow | AF-1: Invalid input  6a. If invalid input, the system displays an error message and go back to step 3. |
| Exception | Ex-1: Internal Server Error.  - At any step, the system redirects user to the error page. Ex-2: Too many requests. - At any step, the system displays error message. |

* 1. Remove shipping address – UC6.5

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| Remove shipping address | |
| **Title** | **Content** |
| Use case Name | Remove shipping address |
| ID | UC6.5 |
| Description | This use case allows a user to remove an existing shipping address from their account. |
| Actor | Customer |
| Trigger | The user initiates the removal process by selecting a saved shipping address to delete. |
| Preconditions | PRE-1. The user is logged into their account. PRE-2. In UC6.2: View list shipping addresses. |
| Postconditions | POST-1. The selected shipping address is removed from the system. |
| Main Flow | 1. The user selects an address to delete.  2. The system prompts for confirmation.  3. The user confirms the removal.  4. The system deletes the selected address. |
| Alternate Flow | AF-1: Cancellation  4a. If the user cancels the removal, the system does not delete the address and end use case. |
| Exception | Ex-1: Internal Server Error.  - At any step, the system redirects user to the error page. Ex-2: Too many requests. - At any step, the system displays error message. |

1. Manage cart – UC07
   1. View cart – UC07.1

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| View cart | |
| **Title** | **Content** |
| Use case Name | View cart |
| ID | UC7.1 |
| Description | The user views the contents of their shopping cart. |
| Actor | Customer |
| Trigger | The user wants to check the products in their cart. |
| Preconditions | PRE-1: The user is logged into their account. |
| Postconditions | POST-1: A list of products in cart is displayed to the user. |
| Main Flow | 1. The user navigates to the cart page.  2. The system retrieves the cart details.  3. The system displays the list of products with their details (name, price, quantity). |
| Alternate Flow | AF-1: Cart is empty: 3a. The system displays a message “Cart is empty” and end use case. |
| Exception | Ex-1: Internal Server Error.  - At any step, the system redirects user to the error page. Ex-2: Too many requests. - At any step, the system displays error message. |

* 1. Add product to cart – UC07.2

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| Add product to cart | |
| **Title** | **Content** |
| Use case Name | Add product to cart |
| ID | UC7.2 |
| Description | The user adds a product to their shopping cart. |
| Actor | Customer |
| Trigger | The user decides to purchase a product. |
| Preconditions | PRE-1: The user is logged into their account.  PRE-2: The product must be available in stock. |
| Postconditions | POST-1: The selected shipping address is removed from the system. |
| Main Flow | 1. The user selects a product from the store.  2. The user clicks the "Add to Cart" button.  3. The system adds the product to the cart.  4. The system updates the cart and displays the new contents. |
| Alternate Flow | AF-1: Product is already in cart: 3a. The system increases its quantity instead of adding a new entry. |
| Exception | Ex-1: Internal Server Error.  - At any step, the system redirects user to the error page. Ex-2: Too many requests. - At any step, the system displays error message.  EX-3: Product is out of stock  1. At step 3, the system displays and error message and end use case. |

* 1. Update quantity in cart – UC07.3

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| Update quantity in cart | |
| **Title** | **Content** |
| Use case Name | Update quantity in cart |
| ID | UC7.3 |
| Description | The user updates the quantity of a product in the cart. |
| Actor | Customer |
| Trigger | The customer wants to change the quantity of a product in the cart. |
| Preconditions | PRE-1: The user is logged into their account.  PRE-2: The product must already be in the cart.  PRE-3: In UC7.2 - View cart |
| Postconditions | POST-1: The selected shipping address is removed from the system. |
| Main Flow | 1. The user navigates to the cart.  2. The user selects a product and modifies the quantity.  3. The system updates the quantity in the cart.  4. The system recalculates the total price and updates the cart display. |
| Alternate Flow | AF-1: Product is already in cart: 3a. The system increases its quantity instead of adding a new entry. |
| Exception | Ex-1: Internal Server Error.  - At any step, the system redirects user to the error page. Ex-2: Too many requests. - At any step, the system displays error message. EX-2: Product is out of stock  1. At step 3, the system displays and error message and end use case. |

* 1. Remove product from cart – UC07.4

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| Remove product from cart | |
| **Title** | **Content** |
| Use case Name | Remove product from cart |
| ID | UC7.4 |
| Description | This use case allows a user to remove a selected product from the shopping cart. |
| Actor | Customer |
| Trigger | The customer decides to remove an item from their cart. |
| Preconditions | PRE-1: The user is logged into their account. PRE-2: In UC7.1 - View cart.  PRE-3: The product must already be in the cart. |
| Postconditions | POST-1: The selected shipping address is removed from the system. |
| Main Flow | 1. The user selects a product from the cart.  2. The user clicks the "Remove" button.  3. The system removes the product from the cart.  4. The system displays the new contents. |
| Alternate Flow | Don’t have. |
| Exception | Ex-1: Internal Server Error.  - At any step, the system redirects user to the error page. Ex-2: Too many requests. - At any step, the system displays error message.  Ex-3: Product is unavailable in cart  1. At step 3, the system displays an error message, end use case. |

1. Payment – UC08
   1. Payment via COD – UC08.1
   2. Payment via MoMo – UC08.2
   3. Payment via VnPay – UC08.3
2. Review product – UC09
3. Manage account – UC10
   1. Update user profile – UC10.1

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| Update user profile | |
| **Title** | **Content** |
| Use case Name | Update user profile |
| ID | UC10.1 |
| Description | This use case allows a registered user to update their personal details, including name, email, phone number, and profile picture, to keep their profile up to date. |
| Actor | Customer |
| Trigger | In UC10.2 |
| Preconditions | PRE-1: The user is logged into their account.  PRE-2: In UC10.2 |
| Postconditions | POST-1: The user’s profile is updated with the new information. |
| Main Flow | 1. The user modifies their profile information.  2. The user submits the change.  3. The system validates the input data.  4. The system saves the updated information in the database.  5. The system displays a success message. |
| Alternate Flow | AF-1: Invalid input  3a. The system displays detailed error message and go back to step 3 |
| Exception | Ex-1: Internal Server Error.  - At any step, the system redirects user to the error page. Ex-2: Too many requests. - At any step, the system displays error message. |

* 1. View user profile – UC10.2

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| View user profile | |
| **Title** | **Content** |
| Use case Name | View user profile |
| ID | UC10.2 |
| Description | This use case allows a registered user to view their personal profile details, such as their name, email, phone number, and profile picture. |
| Actor | Customer |
| Trigger | User accesses to the profile page |
| Preconditions | PRE-1: The user is logged into their account. |
| Postconditions | POST-1: The system displays the user’s current profile information on the profile page. |
| Main Flow | 1. The user accesses to the profile page.  2. The system retrieves the user’s current data.  3. The system displays the information. |
| Alternate Flow | Don’t’ have. |
| Exception | Ex-1: Internal Server Error.  - At any step, the system redirects user to the error page. Ex-2: Too many requests. - At any step, the system displays error message. |

* 1. View Order Details – UC10.3

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| View order details | |
| **Title** | **Content** |
| Use case Name | View order history |
| ID | UC10.3 |
| Description | This use case allows a user to view the detailed information of a specific order from their order history. It displays detailed order information such as items purchased, quantities, prices, shipping details, payment status, delivery status, and any applicable tracking numbers. The user can track the status of their order and review order-specific details. |
| Actor | Customer |
| Trigger | The user clicks to specific order in UC10.4 |
| Preconditions | PRE-1: The user is logged into their account. |
| Postconditions | POST-1: The system displays detailed information about the selected order, including the order items, order status, payment status, shipping details, and any tracking information.  POST-2: In UC10.4. |
| Main Flow | 1. The user clicks to specific order in the order history page.  2. The system retrieves the selected order’s details from the database.  3. The system checks the order exists.  4. The system displays detailed information. |
| Alternate Flow | AF-1: Order not found  3a. The system redirects user to not found page. |
| Exception | Ex-1: Internal Server Error.  - At any step, the system redirects user to the error page. Ex-2: Too many requests. - At any step, the system displays error message.  Ex-3: Order not found |

* 1. View order history – UC10.4

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| View order history | |
| **Title** | **Content** |
| Use case Name | View order history |
| ID | UC10.4 |
| Description | This use case allows a registered user to view a list of their previous orders, including order details such as order ID, items purchased, order status, payment status, delivery information, and date of purchase. The user can review their past transactions and track the status of any pending orders. |
| Actor | Customer |
| Trigger | User accesses to the order history page |
| Preconditions | PRE-1: The user is logged into their account. |
| Postconditions | POST-1: The system displays the user’s order history with relevant details. |
| Main Flow | 1. The user accesses to the order history page.  2. The system retrieves the user's order history from the database.  3. The system checks the results.  4. The system displays the user’s order history with relevant details. |
| Alternate Flow | AF-1: No results found  3a. The system displays a message “No results found”. |
| Exception | Ex-1: Internal Server Error.  - At any step, the system redirects user to the error page. Ex-2: Too many requests. - At any step, the system displays error message. |

* 1. Add voucher – UC10.5
  2. View list vouchers – UC10.6
  3. Change password – UC10.7

1. Manage permissions – UC11
   1. View list permissions – UC11.1
   2. Update permission – UC11.2
   3. Search permission – UC11.3
2. Manage roles – UC12
   1. Search role – UC12.1
   2. Remove role – UC12.2
   3. View list orders – UC12.3
   4. Create role – UC12.4
   5. Update role – UC12.5
3. Manage users – UC13
   1. Search user – UC13.1
   2. Remove user – UC13.2
   3. View list users – UC13.3
   4. Create user – UC13.4
   5. View user details – UC13.5
   6. Change user role – UC13.6
4. Manage payments – UC14
   1. View list payments – UC14.1
   2. Search payment – UC14.2
5. Manage products – UC15
   1. Search product – UC15.1
   2. Remove product – UC15.2
   3. View list products – UC15.3
   4. Create product – UC15.4
   5. View product details – UC15.5
   6. Update product – UC15.6
6. Manage orders – UC16
   1. Search order – UC16.1
   2. Remove order – UC16.2
   3. View list orders – UC16.3
   4. Create order – UC16.4
   5. View order details – UC16.5
   6. Update order – UC16.6
7. Manage vouchers – UC17
   1. Search voucher – UC17.1
   2. Remove voucher – UC17.2
   3. View list vouchers – UC17.3
   4. Create voucher – UC17.4
   5. View voucher details – UC17.5
   6. Update voucher – UC17.6
8. Manage categories – UC18
   1. Search category – UC18.1
   2. Remove category – UC18.2
   3. View list categories – UC18.3
   4. Create category – UC18.4
   5. View category details – UC18.5
   6. Update category – UC18.6
9. Manage review – UC19
   1. Search review – UC19.1
   2. Remove review – UC19.2
   3. View list reviews – UC19.3
   4. Create review – UC19.4
   5. View review details – UC19.5
   6. Update review – UC19.6
10. Manage customers – UC20
    1. Search customer – UC20.1
    2. Remove customer – UC20.2
    3. View list customer s – UC20.3
    4. Create customer – UC20.4
    5. View customer details – UC20.5
    6. Update customer – UC20.6

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| View permissions list | |
| **Title** | **Content** |
| Use case Name | View permissions list |
| ID | UC02.1 |
| Description | This use case allow user to view the list of permissions. |
| Actor | Admin |
| Trigger | User accesses to the “Permission Management” page. |
| Preconditions | - The user’s account is logged in. - The user’s account has permission. |
| Postconditions | - The system displays a list of permissions.  - If no permissions are found, a message is displayed |
| Main Course | 1. User accesses to the “Permissions management” page.  2. The system retrieves the list of permissions.  3. The system checks the results.  3.1. If have results, the system displays a list of permissions. |
| Alternate Course | 3.2. If no results found, the system displays a “No results found” message. |
| Exception | Ex1: Problems on internet connection.  Ex2: Lost database connection.  - The system redirects user to the “Error” page. |

* 1. Update permission – UC02.2

|  |  |
| --- | --- |
| Update permission | |
| **Title** | **Content** |
| Use case Name | Update permission |
| ID | UC02.2 |
| Description | This use case allows user update info permission. |
| Actor | Admin |
| Trigger | User accesses to the specific permission page. |
| Preconditions | - The user’s account is logged in. - The user’s account has permission. |
| Postconditions | The updated permission has been successfully saved in the database. |
| Main Course | 1. User accesses to the specific permission page.  2. The system retrieves current permission.  3. The system check permission exist.  3.1. If exist, the system displays the current permission.  4. User modifies the information of the permission.  5. User click to “save” button.  6. The system validates user input.  6.1. If input valid, the system update permission in the database.  7. The system displays a success message the user.  8. The system redirect user to permission list page to view the updated. |
| Alternate Course | 3.2. If not exist, the system redirect user to “Not found” page and exit use case.  6.2. If invalid input, the system displays an error message and go back to step 4. |
| Exception | Ex1: Problems on internet connection.  Ex2: Lost database connection.  - The system redirects user to the “Error” page. |

* 1. Search permission – UC02.3

|  |  |
| --- | --- |
| Search permission | |
| **Title** | **Content** |
| Use case Name | Search permission |
| ID | UC02.3 |
| Description | This use case describes the process by which a user searches for a permission in the system. |
| Actor | Admin |
| Trigger | User enters a keyword into the search bar. |
| Preconditions | User in UC02.1. |
| Postconditions | - The system displays a list of permissions that match the search criteria.  - If no matching permissions are found, a message will be displayed. |
| Main Course | 1. User enters a keyword into the search bar.  2. The system retrieves relevant permissions.  3. The system check the results.  3.1. If have results, the system displays a list of permissions to the user. |
| Alternate Course | 3.2. If no results found, the system displays a “No permissions found” message. |
| Exception | Ex1: Problems on internet connection.  Ex2: Lost database connection.  - The system redirects user to the “Error” page. |

1. Manage roles – UC04
   1. View roles list – UC04.1

|  |  |
| --- | --- |
| View roles list | |
| **Title** | **Content** |
| Use case Name | View roles list |
| ID | UC04.1 |
| Description | This use case allow user to view the list of roles. |
| Actor | Admin |
| Trigger | User accesses to the “Roles management” page. |
| Preconditions | - The user’s account is logged in. - The user’s account has permission. |
| Postconditions | - The system displays a list of roles.  - If no roles are found, a message is displayed |
| Main Course | 1. User accesses to the “Roles management” page.  2. The system retrieves the list of roles.  3. The system checks the results.  3.1. If have results, the system displays a list of roles. |
| Alternate Course | 3.2. If no results found, the system displays a “No permissions found” message. |
| Exception | Ex1: Problems on internet connection.  Ex2: Lost database connection.  - The system redirects user to the “Error” page. |

* 1. Create role – UC04.2

|  |  |
| --- | --- |
| Create role | |
| **Title** | **Content** |
| Use case Name | Create role |
| ID | UC04.2 |
| Description | This use case allows user to create a new role. |
| Actor | Admin |
| Trigger | User accesses to the create role page. |
| Preconditions | - The user’s account is logged in. - The user’s account has permission. |
| Postconditions | The new role has been successfully created in the database. |
| Main Course | 1. User accesses to the create role page.  2. User enters the information.  3. User clicks to “Create” button.  4. The system validates user input.  4.1. If input valid, the system creates a new role in the database.  5. The system displays a success message the user.  6. The system redirect user to role list page to view the updated. |
| Alternate Course | 4.2. If invalid input, the system displays an error message and go back to step 2. |
| Exception | Ex1: Problems on internet connection.  Ex2: Lost database connection.  - The system redirects user to the “Error” page. |

* 1. Update role – UC04.3

|  |  |
| --- | --- |
| Update role | |
| **Title** | **Content** |
| Use case Name | Update role |
| ID | UC04.3 |
| Description | This use case allows user to update info role. |
| Actor | Admin |
| Trigger | User accesses to the specific role page. |
| Preconditions | - The user’s account is logged in. - The user’s account has permission. |
| Postconditions | The updated role has been successfully saved in the database. |
| Main Course | 1. User accesses to the specific role page.  2. The system retrieves current role.  3. The system check role exist.  3.1. If exist, the system displays the current role.  4. User modifies the information of the role.  5. User click to “save” button.  6. The system validates user input.  6.1. If input valid, the system update role in the database.  7. The system displays a success message the user.  8. The system redirect user to role list page to view the updated. |
| Alternate Course | 3.2. If not exist, the system redirect user to “Not found” page and exit use case.  6.2. If invalid input, the system displays an error message and go back to step 4. |
| Exception | Ex1: Problems on internet connection.  Ex2: Lost database connection.  - The system redirects user to the “Error” page. |

* 1. Remove role – UC04.4

|  |  |
| --- | --- |
| Remove role | |
| **Title** | **Content** |
| Use case Name | Remove role |
| ID | UC04.4 |
| Description | This use case allows user to remove an existing role from the system. |
| Actor | Admin |
| Trigger | User selects the option to remove a specific role from the “Role management” page |
| Preconditions | - The user’s account is logged in. - The user’s account has permission.  - User in UC04.1 |
| Postconditions | The role has been successfully removed in the database. |
| Main Course | 1. User selects the role they want to remove.  2. The system displays a confirmation alert.  3.1. User clicks to “Confirm” button.  4. The system check role exist.  4.1. If exist, the system removes the role from the database.  5. The system displays a success message the user.  6. The system refresh the role list to view the updated. |
| Alternate Course | 3.2. If user clicks to “Cancel” button, exit use case.  4.2. If not exist, the system display error message and exit use case. |
| Exception | Ex1: Problems on internet connection.  Ex2: Lost database connection.  - The system redirects user to the “Error” page. |

* 1. Search role – UC04.5

|  |  |
| --- | --- |
| Search role | |
| **Title** | **Content** |
| Use case Name | Search role |
| ID | UC04.5 |
| Description | This use case describes the process by which a user searches for a role in the system. |
| Actor | Admin |
| Trigger | User enters a keyword into the search bar. |
| Preconditions | User in UC04.1. |
| Postconditions | - The system displays a list of roles that match the search criteria.  - If no matching roles are found, a message will be displayed. |
| Main Course | 1. User enters a keyword into the search bar.  2. The system retrieves relevant roles.  3. The system check the results.  3.1. If have results, the system displays a list of roles to the user. |
| Alternate Course | 3.2. If no results found, the system displays a “No roles found” message. |
| Exception | Ex1: Problems on internet connection.  Ex2: Lost database connection.  - The system redirects user to the “Error” page. |

1. Register – UC01

|  |  |
| --- | --- |
| Register | |
| **Title** | **Content** |
| Use case Name | Register |
| ID | UC01 |
| Description | The use case allow user to create new account. |
| Actor | Guest |
| Trigger | User accesses to register page. |
| Preconditions | User is not logged in. |
| Postconditions | - The user is created in the database.  - The system will automatically log the user in. |
| Main Course | 1. User accesses to register page.  2. User enters the information.  3. User clicks to “Register” button.  4. The system validates the input. 4.1. If input valid, the system creates a new account. |
| Alternate Course | 4.2. If invalid input, the system displays an error message and go back to step 2. |
| Exception | Ex1: Problems on internet connection  Ex2: Lost database connection  - The system redirects user to the “Error” page. |

1. Manage users – UC06
   1. View user list – UC06.1

|  |  |
| --- | --- |
| View user list | |
| **Title** | **Content** |
| Use case Name | View users list |
| ID | UC06.1 |
| Description | This use case allow user to view the list of users. |
| Actor | Admin |
| Trigger | User accesses to the “User management” page. |
| Preconditions | - The user’s account is logged in. - The user’s account has permission. |
| Postconditions | - The system displays a list of users.  - If no users are found, a message is displayed |
| Main Course | 1. User accesses to the “User management” page.  2. The system retrieves the list of users.  3. The system checks the results.  3.1. If have results, the system displays a list of users. |
| Alternate Course | 3.2. If no results found, the system displays a “No users found” message. |
| Exception | Ex1: Problems on internet connection.  Ex2: Lost database connection.  - The system redirects user to the “Error” page. |

* 1. Create user – UC06.2

|  |  |
| --- | --- |
| Create user | |
| **Title** | **Content** |
| Use case Name | Create user |
| ID | UC06.2 |
| Description | This use case allows user to create a new user. |
| Actor | Admin |
| Trigger | User accesses to the create user page. |
| Preconditions | - The user’s account is logged in. - The user’s account has permission. |
| Postconditions | The new user has been successfully created in the database. |
| Main Course | 1. User accesses to the create user page.  2. User enters the information.  3. User clicks to “Create” button.  4. The system validates user input.  4.1. If input valid, the system creates a new user in the database.  5. The system displays a success message the user.  6. The system redirect user to user list page to view the updated. |
| Alternate Course | 4.2. If invalid input, the system displays an error message and go back to step 2. |
| Exception | Ex1: Problems on internet connection.  Ex2: Lost database connection.  - The system redirects user to the “Error” page. |

* 1. Update user – UC06.3

|  |  |
| --- | --- |
| Update user | |
| **Title** | **Content** |
| Use case Name | Update user |
| ID | UC06.3 |
| Description | This use case allows user to update info user. |
| Actor | Admin |
| Trigger | User accesses to the specific user page. |
| Preconditions | - The user’s account is logged in. - The user’s account has permission. |
| Postconditions | The updated user has been successfully saved in the database. |
| Main Course | 1. User accesses to the specific user page.  2. The system retrieves current user.  3. The system check user exist.  3.1. If exist, the system displays the current user.  4. User modifies the information of the user.  5. User click to “save” button.  6. The system validates user input.  6.1. If input valid, the system update user in the database.  7. The system displays a success message the user.  8. The system redirect user to user list page to view the updated. |
| Alternate Course | 3.2. If not exist, the system redirect user to “Not found” page and exit use case.  6.2. If invalid input, the system displays an error message and go back to step 4. |
| Exception | Ex1: Problems on internet connection.  Ex2: Lost database connection.  - The system redirects user to the “Error” page. |

* 1. Remove user – UC06.4

|  |  |
| --- | --- |
| Remove user | |
| **Title** | **Content** |
| Use case Name | Remove user |
| ID | UC06.4 |
| Description | This use case allows user to remove an existing user from the system. |
| Actor | Admin |
| Trigger | User selects the option to remove a specific user from the “User management” page |
| Preconditions | - The user’s account is logged in. - The user’s account has permission.  - User in UC06.1. |
| Postconditions | The user has been successfully removed in the database. |
| Main Course | 1. User selects the user they want to remove.  2. The system displays a confirmation alert.  3.1. User clicks to “Confirm” button.  4. The system check user exist.  4.1. If exist, the system removes the user from the database.  5. The system displays a success message the user.  6. The system refreshes the user list to view the updated. |
| Alternate Course | 3.2. If user clicks to “Cancel” button, exit use case.  4.2. If not exist, the system display error message and exit use case. |
| Exception | Ex1: Problems on internet connection.  Ex2: Lost database connection.  - The system redirects user to the “Error” page. |

* 1. Search user – UC6.5

|  |  |
| --- | --- |
| Search user | |
| **Title** | **Content** |
| Use case Name | Search user |
| ID | UC06.5 |
| Description | This use case describes the process by which a user searches for a user in the system. |
| Actor | Admin |
| Trigger | User enters a keyword into the search bar. |
| Preconditions | User in UC06.1. |
| Postconditions | - The system displays a list of users that match the search criteria.  - If no matching users are found, a message will be displayed. |
| Main Course | 1. User enters a keyword into the search bar.  2. The system retrieves relevant users.  3. The system check the results.  3.1. If have results, the system displays a list of users to the user. |
| Alternate Course | 3.2. If no results found, the system displays a “No users found” message. |
| Exception | Ex1: Problems on internet connection.  Ex2: Lost database connection.  - The system redirects user to the “Error” page. |

1. Manage payments – UC08
   1. View payments list – UC08.1

|  |  |
| --- | --- |
| View payments list | |
| **Title** | **Content** |
| Use case Name | View payments list |
| ID | UC08.1 |
| Description | This use case allows user to view payments for each order. |
| Actor | Admin, Staff |
| Trigger | - User accesses to “Payment management” page. |
| Preconditions | - The user’s account is logged in.  - The user’s account has permission. |
| Postconditions | - The system displays the payments list.  - If no payments, the system display a message “No payments found” |
| Main Course | 1. User accesses to the “Payment management” page.  2. The system retrieves the list of payments.  3. The system checks the results.  3.1. If have results, the system displays the list of payments. |
| Alternate Course | 3.2. If no results, the system displays a message “No payments found” |
| Exception | Ex1: Problems on internet connection.  Ex2: Lost database connection.  - The system redirects user to the “Error” page. |

* 1. Search payment – UC08.2

|  |  |
| --- | --- |
| Search / Filter payment | |
| **Title** | **Content** |
| Use case Name | Search / Filter payment |
| ID | UC08.2 |
| Description | This use case describes the process by which a user searches or apply filters for a payment in the system. |
| Actor | Admin, Staff |
| Trigger | User enters order id into the search bar. |
| Preconditions | - The user’s account is logged in.  - The user’s account has permission.  - User in UC08.1. |
| Postconditions | - The system displays a list of payments that match the search criteria.  - If no matching payments are found, a message will be displayed. |
| Main Course | 1. User enters order id into the search bar or apply filters.  2. The system retrieves relevant payments.  3. The system check the results.  3.1. If have results, the system displays a list of payments to the user. |
| Alternate Course | 3.2. If no results found, the system displays a “No payments found” message. |
| Exception | Ex1: Problems on internet connection.  Ex2: Lost database connection.  - The system redirects user to the “Error” page. |

1. Add voucher – UC17

|  |  |
| --- | --- |
| Add voucher | |
| **Title** | **Content** |
| Use case Name | Add voucher |
| ID | UC17 |
| Description | The use case allow user to add new voucher code into their account. |
| Actor | Customer |
| Trigger | User selects the “Vouchers” option from their account settings or profile page. |
| Preconditions | User must be logged in. |
| Postconditions | The new voucher is added to the user’s account. |
| Main Course | 1. The system navigates user to the “Vouchers” section.  2. The system retrieve a list of vouchers in the user’s account.  3. If have results, the system displays a list of vouchers. If no results, the system displays a message.  4. The user enters code in the provided input field and submit the form.  5. The system validates the input data.  6. If valid input, the system applies the voucher to the user’s account.  7. The system display a success message to user. |
| Alternate Course | 6a. Invalid input, the system displays a message.  - Go back to step 4. |
| Exception | Ex1: Problems on internet connection  Ex2: Lost database connection  - The system redirects user to the “Error” page. |