**USECASE DESCRIPTION**

1. Register – UC01
   1. Register via email/password – UC01.1

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| Register via email/password | |
| **Title** | **Content** |
| Use case Name | Register via email/password |
| ID | UC01.1 |
| 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 email address is not already registered in the system. |
| Postconditions | POST-1. A new user account is created with the provided email and password.  POST-2. The user is logged into the system. |
| Main Flow | 1. User enters a keyword into the search bar or selects advanced filters.  2. As soon as the user enters the keyword, the system will automatically process the query and retrieve relevant products.  3. The system check the results.  4. If have results, the system displays a list of products to the user. |
| Alternate Flow | AF1: No results found  4a. If no results found, the system displays a “No products found” message. |
| Exception | Ex1: Internal Server Error.  2a. The system redirects user to the error page. |

* 1. Register via google – UC01.2

1. Forget password – UC02
2. Search product – UC03

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| Search product | |
| **Title** | **Content** |
| Use case Name | Search product |
| ID | UC01 |
| Description | This use case describes the process by which a user searches for a product in the system using various criteria such as name, category, or price range. |
| Actor | Customer, Guest |
| Trigger | User enters a keyword into the search bar or apply filters. |
| Preconditions | Don’t have. |
| Postconditions | - Success: a list of products that match the search criteria is displayed to the user.  - Failure: if no products match the search criteria, a message will be displayed. |
| Main Flow | 1. User enters a keyword into the search bar or selects advanced filters.  2. As soon as the user enters the keyword, the system will automatically process the query and retrieve relevant products.  3. The system check the results.  4. If have results, the system displays a list of products to the user. |
| Alternate Flow | AF1: No results found  4a. If no results found, the system displays a “No products found” message. |
| Exception | Ex1: Internal Server Error.  2a. The system redirects user to the error page. |

1. View details product – UC04
2. Login – UC05
   1. Login via email/password – UC05.1
   2. Login via google – UC05.2
3. Manage shipping addresses – UC06
   1. Remove shipping address– UC06.1
   2. View list shipping addresses– UC06.2
   3. Create shipping address– UC06.3
   4. Update shipping address– UC06.4
4. Manage cart – UC07
   1. Remove product from cart – UC07.1
   2. View cart – UC07.2
   3. Add product to cart – UC07.3
   4. Update quantity in cart – UC07.4
5. Payment – UC08
   1. Payment via COD – UC08.1
   2. Payment via MoMo – UC08.2
   3. Payment via VnPay – UC08.3
6. Review product – UC09
7. Manage account – UC10
   1. Update user profile – UC10.1
   2. View user profile – UC10.2
   3. View Order Details – UC10.3
   4. View order history – UC10.4
   5. Add voucher – UC10.5
   6. View list vouchers – UC10.6
   7. Change password – UC10.7
8. Manage permissions – UC11
   1. View list permissions – UC11.1
   2. Update permission – UC11.2
   3. Search permission – UC11.3
9. 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
10. 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
11. Manage payments – UC14
    1. View list payments – UC14.1
    2. Search payment – UC14.2
12. 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
13. 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
14. 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
15. 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
16. 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
17. 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

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| --- | --- |
| 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

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| --- | --- |
| 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. View details product – UC03

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| --- | --- |
| View details product | |
| **Title** | **Content** |
| Use case Name | View details product |
| ID | UC03 |
| Description | This use case allows user to access detailed information about a specific product in the system. |
| Actor | Guest, Customer |
| Trigger | User selects a product from a product list, search results, or a promotional link. |
| Preconditions | Don’t have. |
| Postconditions | The system displays detailed product information. |
| Main Course | 1. The user selects a product from a product list, search results, or a promotional link.  2. The system navigate user to the selected product page.  3. The system retrieves the details of the selected product.  4. The system check product exist.  4.1. If exist, the system displays the product details to the user. |
| Alternate Course | 4.2. If not exist, the system redirects user to “Not found” page and exit use case. |
| 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

|  |  |
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| 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

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| --- | --- |
| 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 / Filter 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. Authorize user – UC6.6

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| --- | --- |
| Authorize user | |
| **Title** | **Content** |
| Use case Name | Authorize user |
| ID | UC06.6 |
| 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 cart – UC07
   1. View cart – UC07.1

|  |  |
| --- | --- |
| View cart | |
| **Title** | **Content** |
| Use case Name | View cart |
| ID | UC07.1 |
| Description | This use case allow user to view the products currently added to their shopping cart. |
| Actor | Customer |
| Trigger | User accesses to the “Cart” page. |
| Preconditions | - The user’s account is logged in. |
| Postconditions | - The system displays the list of products in cart.  - If cart is empty, a message is displayed. |
| Main Course | 1. User accesses to the “Cart” page.  2. The system retrieves the list of products in cart.  3. The system checks the results.  3.1. If have results, the system displays the list of products in cart. |
| Alternate Course | 3.2. If no results found, the system displays a “Cart is empty” message. |
| Exception | Ex1: Problems on internet connection.  Ex2: Lost database connection.  - The system redirects user to the “Error” page. |

* 1. Add product to cart – UC07.2

|  |  |
| --- | --- |
| Create user | |
| **Title** | **Content** |
| Use case Name | Create user |
| ID | UC07.2 |
| Description | This use case allows user to create a new user. |
| Actor | Admin |
| Trigger | User clicks to “Add to cart” button in the detail’s product page. |
| Preconditions | - The user’s account is logged in. |
| Postconditions | - A new product has been added in the user’s cart.  - If the product is in the cart, the quantity of the product in the cart will be increased. |
| Main Course | 1. The user selects a product to add to the cart.  2. The user enters the quantity they want to add (default 1).  3. The user clicks the "Add to Cart" button.  4. The system checks the quantity of product.  4.1. If in stock, the system checks the product is in cart.  4.1.1. If the product is in cart, the system updates quantity of the product in the cart.  5. The system display success message. |
| Alternate Course | 4.2. If out of stock, the system displays an error message and exit use case.  4.1.2. If the isn’t in cart, the system add the product to the cart and go back to step 5. |
| Exception | Ex1: Problems on internet connection.  Ex2: Lost database connection.  - The system redirects user to the “Error” page. |

* 1. Update cart – UC07.3

|  |  |
| --- | --- |
| Update user | |
| **Title** | **Content** |
| Use case Name | Update user |
| ID | UC07.3 |
| Description | This use case allows user to update info user. |
| Actor | Admin |
| Trigger | - User accesses to “Cart” page.  - In UC07.1 |
| Preconditions | - The user’s account is logged in. |
| Postconditions | The updated cart has been successfully saved in the database. |
| Main Course | 1. User accesses to “Cart” page.  2. The user modifies the quantity of product in the user’s cart.  3. The system checks quantity in stock.  3.1. If in stock, the system updates quantity of the product in the cart.  4. The system refreshes the cart to view updated. |
| Alternate Course | 3.2. If out if stock, the system displays an 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. Remove cart – UC07.4

|  |  |
| --- | --- |
| Remove cart | |
| **Title** | **Content** |
| Use case Name | Remove cart |
| ID | UC07.4 |
| Description | This use case allows user to remove an existing user from the system. |
| Actor | Admin |
| Trigger | User selects the product(s) they wish to remove by clicking a “Remove” button |
| Preconditions | - The user’s account is logged in. - The user has items in their cart. |
| Postconditions | The selected product(s) are successfully removed from the cart. |
| Main Course | 1. User accesses to “Cart” page.  2. User selects the product(s) and clicks to “Remove” button.  3. The system checks cart exist.  3.1. If exist, the system removes product in cart.  4. The system display a success message.  5. The system refreshes the cart to view the updated. |
| Alternate Course | 3.2. 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. 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

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| --- | --- |
| 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. Payment – UC09
2. Statistics – UC10
3. Login – UC11
   1. Login via email/password – UC11.1

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| --- | --- |
| Login via email/password | |
| **Title** | **Content** |
| Use case Name | Login via email/password |
| ID | UC11.1 |
| Description | The use case allow user to access to the system. |
| Actor | Admin, Staff, Customer |
| Trigger | User accesses to login page. |
| Preconditions | - User is not logged in. |
| Postconditions | - User is authenticated. - If is customer, system redirects to their account or to previous page.  - If is admin or staff, system redirects to dashboard page. |
| Main Course | 1. User accesses to login page.  2. User selects the options to login.  3.1. If user selects login via email/password.  4. User enters their account (e.g., email and password).  5. User clicks “Login” button.  6. System validates the credentials. 6.1. If credentials are valid, the system check user is verified.  6.1.1. If user is verified, the user is authenticated.  7. System redirects the user according to their role. |
| Alternate Course | 3.2. User selects register go to UC05, when done go back to step 6.1.  3.3. User selects login via google, go to UC11.2, when done go back to step 6.1.1. 6.2. If invalid credentials, the system displays an error message and go back to step 4.  6.1.2. The user’s account is not verified, the system redirects user to verify page.  6.1.3. The system sends OTP code to user’s email.  6.1.4. The user goes into their email to get OTP code.  6.1.5. The user enters code and clicks “Submit”.  6.1.6. System validates the OTP code.  6.1.6.1. If OTP valid, the system update user is verified and go back to step 5.  6.1.6.2. If invalid OTP, the system displays an error message and go back to 6.1.5 |
| Exception | Ex1: Problems on internet connection  Ex2: Lost database connection  - The system redirects user to the “Error” page. |

* 1. Login via google – UC11.2

1. View order history – UC11

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| View order history | |
| **Title** | **Content** |
| Use case Name | View order history |
| ID | UC11 |
| Description | The use case allow user to view a list of orders and user can track their purchase history. |
| Actor | Customer |
| Trigger | User selects the “Order history” option from their account settings or profile page. |
| Preconditions | User must be logged in. |
| Postconditions | - The system displays a list of orders.  - If no orders are found, a message is displayed. |
| Main Course | 1. User accesses to “Order history” page.  2. The system retrieves the list of orders from the database.  3. The system checks the results. 3.1. If have results, the system displays a list of orders. |
| Alternate Course | 3.2. If no results, the system displays a message “No orders found”. |
| Exception | Ex1: Problems on internet connection  Ex2: Lost database connection  - The system redirects user to the “Error” page. |

1. Manage products – UC12
2. Review product – UC13
3. Manage orders – UC14
4. Edit information – UC15

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| --- | --- |
| Edit information | |
| **Title** | **Content** |
| Use case Name | Edit information |
| ID | UC15 |
| Description | The use case allow user to update their personal or account details. |
| Actor | Customer |
| Trigger | User selects the “Edit information” option from their account settings or profile page. |
| Preconditions | User must be logged in. |
| Postconditions | The user’s updated information is saved in the system. |
| Main Course | 1. The system navigates user to the “Edit information” section.  2. The system displays the user’s current information.  3. The user updates the desired fields and submit the changes.  4. The system validates the input data.  5. If valid input, the system updates user’s information in the database.  6. The system display a success message to user. |
| Alternate Course | 5a. If invalid input, the system displays a message.  - Go back to step 3 |
| Exception | Ex1: Problems on internet connection  Ex2: Lost database connection  - The system redirects user to the “Error” page. |

1. Manage vouchers – UC16
2. Add voucher – UC17

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| --- | --- |
| 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. |

1. Manage categories – UC18
2. Manage shipping addresses – UC19
3. Manage feedback – UC20
4. Forget password – UC22

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| --- | --- |
| Forget password | |
| **Title** | **Content** |
| Use case Name | Forget password |
| ID | UC22 |
| Description | The use case allow user to recover or reset their password if they forgot it. |
| Actor | Customer |
| Trigger | User accesses to forgot password page. |
| Preconditions | - User must have a registered account in the system.  - User is not logged in. |
| Postconditions | The user’s password is updated, and they can log in with the new password. |
| Main Course | 1. User accesses to forgot password page.  2. User enters their email in input field and submit the form.  3. The system validates input.  4. If valid input, the system sends a password reset link to the user’s email.  5. The user goes into their email and clicks to the password reset link which directs them to a page to enter a new password.  6. The user enters a new password.  7. The system validates the password.  8. If valid, the system updates the password in the database.  9. The system displays a success message and redirects user to login page. |
| Alternate Course | 4a. If invalid input, the system displays an error message.  - Go back to step 2.  8a. If invalid input, the system displays an error message.  - Go back to step 6. |
| Exception | Ex1: Problems on internet connection  Ex2: Lost database connection.  - The system redirects user to the “Error” page.  Ex3: Send a password reset link to user failed.  - The system displays an error message to the user. |

1. Manage customers – UC23
2. Change password – UC24

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| --- | --- |
| Change password | |
| **Title** | **Content** |
| Use case Name | Change password |
| ID | UC24 |
| Description | The use case allow user to change password 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. |