**USECASE DESCRIPTION**

1. Search / Filter product – UC01

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| Search / Filter product | |
| **Title** | **Content** |
| Use case Name | Search / Filter 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 | The system must have products available in the database. |
| Postconditions | - The system displays a list of products that match the search criteria.  - If no matching products are found, a message will be displayed. |
| Main Course | 1. User enters a keyword into the search bar or selects advanced filters and clicks the “Search” button.  2. The system processes the search query and retrieves relevant products.  3. If have results, the system displays a list of products to the user. |
| Alternate Course | 3a. If no results found, the system displays a “No products found” message. |
| Exception | Ex1: Problems on internet connection.  Ex2: Lost database connection.  - The system redirects user to the “Error” page. |

1. Manage permissions – UC02
   1. View permissions list – UC02.1

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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 “Permissions 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 from the database.  3. If have results, the system displays a list of permissions. |
| Alternate Course | 3a. 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.  Ex3: User does not have permission. - The system redirects user to the “Forbidden” 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 displays the current permission.  3. User modifies the information of the permission and clicks “Save” button.  4. The system validates user input.  5. If input valid, the system update permission in the database.  6. The system displays a success message the user. |
| Alternate Course | 5a. If invalid input, the system displays an error message.  6a. Go back to step 3. |
| Exception | Ex1: Problems on internet connection.  Ex2: Lost database connection.  - The system redirects user to the “Error” page.  Ex3: User does not have permission. - The system redirects user to the “Forbidden” page.  Ex4: Permission is not found.  - The system redirects user to the “Not found” 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 | - The system must have permissions available in the database.  - 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 and clicks the “Search” button.  2. The system processes the search query and retrieves relevant permissions.  3. If have results, the system displays a list of permissions to the user. |
| Alternate Course | 3a. 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 form a product listing, search results, or a promotional link. |
| Preconditions | - User accesses to the product listing page. |
| Postconditions | The system displays detailed product information. |
| Main Course | 1. The user accesses to the product listing page.  2. The user selects a product from the list or search results.  3. The system retrieves the details of the selected product.  4. The system displays the product details to the user. |
| Alternate Course | Don’t have. |
| Exception | Ex1: Problems on internet connection.  Ex2: Lost database connection.  - The system redirects user to the “Error” page.  Ex3: Product is not found.  - The system redirects user to the “Not found” page. |

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

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| 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 from the database.  3. If have results, the system displays a list of roles. |
| Alternate Course | 3a. 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. Create role – UC04.2

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| 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 and clicks “Create” button.  3. The system validates user input.  4. If input valid, the system creates a new role in the database.  5. The system displays a success message the user. |
| Alternate Course | 4a. If invalid input, the system displays an error message.  5a. 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

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| 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 displays the current role.  3. User modifies the information of the role and clicks “Save” button.  4. The system validates user input.  5. If input valid, the system update role in the database.  6. The system displays a success message the user. |
| Alternate Course | 5a. If invalid input, the system displays an error message.  6a. Go back to step 3. |
| Exception | Ex1: Problems on internet connection.  Ex2: Lost database connection.  - The system redirects user to the “Error” page.  Ex3: User does not have permission. - The system redirects user to the “Forbidden” page.  Ex4: Role is not found.  - The system redirects user to the “Not found” 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. |
| Postconditions | The role has been successfully removed in the database. |
| Main Course | 1. The user selects the role they want to remove.  2. The system displays a confirmation alert.  3. The user confirms the deletion.  4. The system removes the role from the database.  5. The system displays a success message the user. |
| Alternate Course | 5a. If invalid input, the system displays an error message.  6a. Go back to step 3. |
| Exception | Ex1: Problems on internet connection.  Ex2: Lost database connection.  - The system redirects user to the “Error” page.  Ex3: User does not have permission. - The system redirects user to the “Forbidden” page.  Ex4: Role is not found.  - The system redirects user to the “Not found” 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 | - The system must have roles available in the database.  - 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 and clicks the “Search” button.  2. The system processes the search query and retrieves relevant roles.  3. If have results, the system displays a list of roles to the user. |
| Alternate Course | 3a. 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 – UC05

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| Register | |
| **Title** | **Content** |
| Use case Name | Register |
| ID | UC5 |
| Description | The use case allow user to create new account. |
| Actor | Customer, 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 and clicks to “Register” button.  3. The system validates the input. 4. If input valid, the system creates a new account.  5. The system automatically log the user in. |
| Alternate Course | 4a. If invalid input, the system displays an error message.  5a. 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
2. Manage cart – UC07
3. Manage payments – UC08
4. Payment – UC09
5. Statistics – UC10
6. 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. If have results, the system displays a list of permissions. |
| Alternate Course | 3a. If no results, the system displays a message. |
| 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 reviews / feedbacks – UC20
4. Login – UC21
   1. Login via email/password – UC21.1

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| Login via email/password | |
| **Title** | **Content** |
| Use case Name | Login via email/password |
| ID | UC21.1 |
| Description | The use case allow user to access to the system. |
| Actor | Admin, Staff, Customer |
| Trigger | User accesses to login page. |
| Preconditions | - User must have a registered account in the system.  - 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 login via email/password.  3. User enters their account (e.g., email and password) and submit the form.  4. System authenticates the credentials. 5. If credentials are valid, the user is authenticated.  6. System redirects the user according to their role. |
| Alternate Course | 2a. User selects login via google.  - Go to UC21.2 5a. If invalid Credentials, the system displays an error message.  - Go back to step 3.  5b. The user’s account is not verified, the system redirects user to verify page.  - The system sends OTP code to user’s email.  - The user goes into their email to get OTP code.  - The user enters code and clicks “Submit”.  - System validates the OTP code.  - If OTP valid, go back to step 5. If invalid OTP, the system displays an error message and go back to 5b step 3. |
| Exception | Ex1: Problems on internet connection  Ex2: Lost database connection  - The system redirects user to the “Error” page. |

* 1. Login via google – UC21.2

1. 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. |