**USECASE DESCRIPTION**

1. Search product – UC01

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| Search product | |
| **Title** | **Content** |
| Usecase 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 | 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 is displayed. |
| Main Course | 1. User enters a keyword into the search bar or selects advanced filters.  2. User clicks to Search icon or presses “Enter” to the search.  3. The system processes the search query and retrieves relevant products.  4. The system displays the search results to the user. |
| Alternate Course | Alt1: No matching products found  3a. The system retrieve no results.  4a. 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 – UC0.2.1

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| View permissions list | |
| **Title** | **Content** |
| Usecase Name | View permissions list |
| ID | UC02.1 |
| Description | This use case allow user 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. The system displays the permissions in a paginated or scrollable list. |
| Alternate Course | Alt1: No permissions in database  3a. The system retrieve no results.  4a. 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.  Ex3. No permissions available  - The system redirects user to the “Forbidden” page. |

* 1. Update permission – UC02.2

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| Update permission | |
| **Title** | **Content** |
| Usecase Name | Update permission |
| ID | UC02.2 |
| Description | This use case allow 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 is successfully saved in the database. |
| Main Course | 1. User accesses to the specific permission page.  2. The system displays the current permissions  3. User modifies the information of the permission  4. User submits the changes  5. The system validates user input and update the permission in the database  6. A success message is displayed to the user |
| Alternate Course | Alt1: Invalid user input 5a. The system validates the input and detects the error.  6a. The system displays an error message.  7a. User re-modifies input and go back to step 3. |
| Exception | Ex1: Problems on internet connection  Ex2: Lost database connection  - The system redirects user to the “Error” page.  Ex3: No permissions available  - The system redirects user to the “Forbidden” page |

1. Manage roles – UC03
2. View details product – UC04
3. Manage users – UC05
4. Register – UC06

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| Register | |
| **Title** | **Content** |
| Usecase Name | Register |
| ID | UC6 |
| 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. |
| Main Course | 1. User accesses to register page.  2. User enters the information.  3. The user clicks the "Register" button.  4. The system validates the input. 5. If input valid, the system creates a new account. |
| Alternate Course | Alt1: Invalid Input  4a. The system detects invalid input.  5a. The system displays an error message.  6a. The user re-enter input and go back to step 2. |
| Exception | 1. Problems on internet connection  Ex2: Lost database connection  - The system redirects user to the “Error” page. |

1. Manage payments – UC07
2. Manage cart – UC08
3. Payment – UC09
4. Statistics – UC10
5. View order history – UC11
6. Manage products – UC12
7. Review product – UC13
8. Manage orders – UC14
9. Edit information – UC15
10. Manage vouchers – UC16
11. Add voucher – UC17
12. Manage categories – UC18
13. Manage shipping addresses – UC19
14. Manage reviews / feedbacks – UC20
15. Login – UC21

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| Login | |
| **Title** | **Content** |
| Usecase Name | Login |
| ID | UC21 |
| Description | The use case allow user 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 select options to login.  3. User enters their account (e.g., email and password) and submit the form.  4. System authenticates the credentials. 5. Credentials are valid, the user is authenticated.  6. System redirects the user according to their role. |
| Alternate Course | Alt1: Invalid Credentials 3a. User enters incorrect credentials.  4a. The system detects the error.  5a. The system displays an error message.  6a. The user retry the login and go back to step 3.  Alt2: The user’s account is not verified  5b. The system redirects user to verify page  6b. The system send otp code to user’s email  7b. User go into their email to get otp code and enters code in page  8b. System validates the otp code  9b. If otp valid, go back to step 5. If not system displays an error message and user try re-enter again. |
| Exception | 1. Problems on internet connection  Ex2: Lost database connection  - The system redirects user to the “Error” page. |

1. Change password – UC22
2. Forget password – UC23