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| **Use Case “View list of products in the homepage”**   1. **Use case code**   UC00X   1. **Brief Description**   This use case describes the interaction between customers and the AIMS Software when customers wish to view a list of available products on the homepage.   1. **Actors**  * Customer  1. **Preconditions**  * The customer launched the AIMS Project application. * The customer has logged in successfully  1. **Basic Flow of Events**  |  |  |  | | --- | --- | --- | | **No** | **Doer** | **Action** | | 1 | Software | retrieves a list of available products from the database | | 2 | Software | displays the list of products on the homepage (see Table B) | | 3 | Customer | views the products displayed on the homepage |  1. **Alternative flows**   Table N-Alternative flows of events for UC Place order   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Location** | **Condition** | **Action** | **Resume location** | |  | Step 3 | Customer wishes to add products to cart | - Decrease the amount of availability of products in store  - Notify success of adding products to cart or unsuccess due to lack of products  - Increase the number of products in customer’s cart | Step 3 | |  | Step 3 | Customer wishes to view cart | - Directs the customer to the “View Cart” Use case | The use case ends | |  | Step 3 | Customer wishes to save cart | - The current cart is saved to the data base | Step 3 | |  | Step 3 | Customer wishes to search for products | - Directs the customer to the “Search for products” Use case | The use case ends |  1. **Input data**   Table A - Input data of …   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Mandatory** | **Valid condition** | **Example** | |  |  |  |  |  |  |  1. **Output data**   Table B - Output data of …   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Display format** | **Example** | |  | Product list | List of available products | Gallery view | Each product will have title, image, price, number of items left in the store |  1. **Postconditions** |

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| **Use Case “Search for products”**   1. **Use case code**   UC00X   1. **Brief Description**   This use case describes the interaction between customers and the AIMS Project when customers wish to search for specific products.   1. **Actors**   Customer   1. **Preconditions**  * The customer is on the homepage of the AIMS Project application. * The customer wishes to search for a/some specific products.  1. **Basic Flow of Events**  |  |  |  | | --- | --- | --- | | **No** | **Doer** | **Action** | | 1 | Customer | enters a search query | | 2 | Software | processes the search query. | | 3 | Software | displays a list of products matching the search query (see Table B) |  1. **Alternative flows**   Table N-Alternative flows of events for UC Place order   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Location** | **Condition** | **Action** | **Resume location** | | 1. | Step 3 | Customer wishes to view cart | - Directs the customer to the “View Cart” Use case | The use case ends | |  | Step 3 | Customer wishes to save cart | - The current cart is saved to the data base | Step 3 |  1. **Input data**   Table A-Input data of …   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Mandatory** | **Valid condition** | **Example** | | 1. | Search Query | Keywords for products | Yes | Non-empty string | “The Hobits” |  1. **Output data**   Table B-Output data of …   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Display format** | **Example** | | 1. | Product list | List of products matched the search query | Gallery view | Each product will have title, image, price, number of items left in the store |  1. **Postconditions** |

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| **Use Case “Add products to cart”**   1. **Use case code**   UC00X   1. **Brief Description**   This use case describes the interaction between customers and the AIMS Software when customers wish to add products to their shopping cart   1. **Actors**  * **Customer**  1. **Preconditions**  * The customer is logged into their account.  1. **Basic Flow of Events**  |  |  |  | | --- | --- | --- | | **No** | **Doer** | **Action** | | 1 | Customer | chooses a product to add to cart | | 2 | Software | adds the product to the customer's shopping cart | | 3 | Software | decreases the number of products in the store | | 4 | Software | announces success of adding products to cart |  1. **Alternative flows**   Table N-Alternative flows of events for UC Place order   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Location** | **Condition** | **Action** | **Resume location** | | 1. | At Step 2 | If product is out of stock | Displays a message and the current availability of the product | The use case ends |  1. **Input data**   Table A-Input data of …   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Mandatory** | **Valid condition** | **Example** | | 1. | Number of products wished to add |  | Yes | An integer | 1 |  1. **Output data**   Table B-Output data of …   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Display format** | **Example** | | 1. | Current availability of products | The availability of products after being added to the customer’s cart | Integer | Avail: 5 | | 2. | Number of products in cart | The number of products in cart after adding | Integer | 10 | | 3. | Announce message | Announce success/failure of adding the product to cart | Test | The media “Game of Thrones” added to cart |  1. **Postconditions**  * The selected product is added to the customer's shopping cart. * The availability of product is decreased in the store. |

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| **Use Case “View cart”**   1. **Use case code**   UC00X   1. **Brief Description**   This use case describes the interaction between customers and the AIMS Project when customers wish to view the contents of their shopping cart.   1. **Actors**  * Customer  1. **Preconditions**  * The customer is logged into their account.  1. **Basic Flow of Events**  |  |  |  | | --- | --- | --- | | **No** | **Doer** | **Action** | | 1 | Customer | chooses to view the shopping cart | | 2 | Software | retrieves the contents of the shopping cart. | | 3 | Software | displays the list of products in the shopping cart (see Table B). |  1. **Alternative flows**   Table N-Alternative flows of events for UC Place order   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Location** | **Condition** | **Action** | **Resume location** | | 1. | At Step 3 | If customer wishes to update the cart | Moves to the “Update Cart” Use case | The use case ends |  1. **Input data**   Table A-Input data of …   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Mandatory** | **Valid condition** | **Example** | |  |  |  |  |  |  |  1. **Output data**   Table B-Output data of …   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Display format** | **Example** | | 1. | Cart Contents | List of products in the cart | Gallery view |  | | 2. | Total price of the products in cart | Total price of the products in cart before and after including tax | Float | 10.86đ |  1. **Postconditions** |

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| **Use Case “Update cart”**   1. **Use case code**   UC00X   1. **Brief Description**   This use case describes the interaction between customer and the AIMS Software when the customer wants to update the contents of their shopping cart, such as changing the quantity of products or removing items.   1. **Actors**  * Customer  1. **Preconditions**  * The customer is logged into their account. * The customer has added one or more products to their shopping cart.  1. **Basic Flow of Events**  |  |  |  | | --- | --- | --- | | **No** | **Doer** | **Action** | | 1 | Customer | selects a product to update | | 2 | Customer | modifies the quantity or removes the product from the cart. | | 3 | Software | updates the cart contents accordingly (see Table B). |  1. **Alternative flows**   Table N-Alternative flows of events for UC Place order   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Location** | **Condition** | **Action** | **Resume location** | | 1. | Step 3 | If the product is out of stock after update | Display failure message | The use case ends |  1. **Input data**   Table A-Input data of …   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Mandatory** | **Valid condition** | **Example** | | 1. | Quantity | New quantity of the product | No | Non-negative integer | 3 |  1. **Output data**   Table B-Output data of …   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Display format** | **Example** | | 1. | Cart Contents | List of products in the cart | Gallery view |  | | 2. | Total price of the products in cart | Total price of the products in cart before and after including tax | Float | 10.86đ |  1. **Postconditions**  * The shopping cart reflects the updated quantities or removal of products as specified by the customer. * The availability of the product is updated accordingly |