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**Online Shopping System: Use Case Description**

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| **Use Case Number: 1** | | | | | | |
| **Name** Manage Products CRUD | | | | | | |
| **Breif Description** This use case allows the admin to manage products for the customers | | | | | | |
| **Actors**  Admin | | | | | | |
|  | | | | | | |
| **Pre-conditions** | | | | | | |
| The admin must logged in to the system | | | | | | |
| **Flow of Events** | | | | | | |
| **1. Basic Flows** | | | | | | |
| **1.1.1 Create Product Description** | | | | | | |
| **Step** | **User Actions** | | **System Actions** | | | |
| 1 | The admin calls the create product command | | The system displays the product description form with the fields for product id, name, type, size and weight | | | |
| 2 | The admin fills out the product information and request the system to save the details. | | The system verifies that there’s no other product in the database with the same product id and saves the product and returns the success message or failure message in the case of failure. | | | |
| **Postconditions** | | | | | | |
| The product is persisted in the system. | | | | | | |
|  | | | | | | |
| **Business Rules** | | | | | | |
| No duplicate product id. A unique product is identified by the product id. | | | | | | |
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| **1.1.2 Read/View Product** | | | | | | |
| **Step** | **User Actions** | | | **System Actions** | | |
| 1 | The admin selects to view a list of products | | | The system returns a list of all products | | |
| 2 | The admin selects to view one of the products from the list of the products | | | The system returns the product details with product id, name, type, size and weight | | |
|  | | | | | | |
| **1.1.3 Update Product description** | | | | | | |
| **Step** | **User Actions** | | | | **System Action** | |
| 1 | The admin selects to view a list of products | | | | The system return a list of all products | |
| 2 | The admin selects the product they want to update. | | | | The system displays an editable product description from pre-populated with product details | |
| 3 | The admin the updates the product they want to update and request the system to save the new details. | | | | The system updates the record and returns the success message or a fail message on exception | |
| **Postconditions** | | | | | | |
| The product will be updated | | | | | | |
|  | | | | | | |
| **Business Rules** | | | | | | |
| The product id should be unwritable | | | | | | |
|  | | | | | | |
| **1.1.4 Delete Product Description** | | | | | | |
| **Step** | | **User Actions** | | | | **System Action** |
| 1 | | The admin selects to view a list of products | | | | The system returns a list of all products |
| 2 | | The admin selects to delete the product description from the list of products | | | | The system displays a confirmation dialogue window |
| 3 | | The admin selects OK on the confirmation dialog window to confirm deleting the product details. | | | | The system confirms the product is not assigned to any customer and deletes the product. The system returns message a success message on success or a failure message. The system should return a message indicating the product could not be deleted because it is already assigned to some customers. |
| **Postconditions** | | | | | | |
| The product description will be deleted | | | | | | |
| **Business Rule** | | | | | | |
| Only the product that is not assigned to any customers. | | | | | | |

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| **Use Case Number: 2** | | | | | | |
| **Name** Cart CRUD | | | | | | |
| **Breif Description** This use case allows the customer to list products they want | | | | | | |
| **Actors**  Customer | | | | | | |
|  | | | | | | |
| **Pre-conditions** | | | | | | |
| The customer must be logged in to the system | | | | | | |
| **Flow of Events** | | | | | | |
| **2. Basic Flows** | | | | | | |
| **2.1.1 Add Product** | | | | | | |
| **Step** | **User Actions** | | **System Actions** | | | |
| 1 | The customer calls the add product command | | The system displays the product on the cart with the product id, name and the date. | | | |
| **Postconditions** | | | | | | |
| The product is added in the system. | | | | | | |
|  | | | | | | |
| **Business Rules** | | | | | | |
| The product must be stocked | | | | | | |
| **2.1.2 Read/View Product** | | | | | | |
| **Step** | **User Actions** | | | **System Actions** | | |
| 1 | The customer requests for a list of products | | | The system returns a list of all products | | |
| 2 | The customer selects to view the product they want | | | The system returns the product details with name, type, size and weight | | |
|  | | | | | | |
| **2.1.3 Update Product description** | | | | | | |
| **Step** | **User Actions** | | | | **System Action** | |
| 1 | The customer requests for the list of products in the cart. | | | | The system returns a list of all products in the cart. | |
| 2 | The customer selects the product they want to update. | | | | The system displays an editable form with the product details pre-populated | |
| 3 | The customer changes the product they want to update and requests the system to save the new details | | | | The system updates the record and returns the success message or a fail message on exception | |
|  | | | | | | |
| **Postconditions** | | | | | | |
| The cart details will be updated | | | | | | |
|  | | | | | | |
| **Business Rules** | | | | | | |
| The customer account should be unwritable | | | | | | |
|  | | | | | | |
| **2.1.4 Delete Product Description** | | | | | | |
| **Step** | | **User Actions** | | | | **System Action** |
| 1 | | The customer selects to view a list of products in the cart | | | | The system returns a list of all products from the cart |
| 2 | | The customer selects to delete the product they want | | | | The system displays a confirmation dialogue window |
| 3 | | The customer selects OK on the confirmation dialog window to confirm deleting the product. | | | | The system confirms the product is removed from the cart. |
| **Postconditions** | | | | | | |
| The product will be deleted | | | | | | |