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| **Use Case Name:** | Manage Account | |
| **Scenario:** | Registered users want to update their profile or account settings. | |
| **Triggering Event:** | User logs in and navigates to the account settings page. | |
| **Brief Description:** | A customer accesses their account settings to edit or update personal details such as password, email, or shipping address. The system updates and confirms the changes. | |
| **Actors:** | Customer | |
| **Related Use Cases:** | Create Account | |
| **Stakeholders:** | NuttyLoves Customers: to ensure accurate delivery and contact information. | |
| **Preconditions:** | Customer must be logged in. | |
| **Postconditions:** | User profile is updated. | |
| **Flow of Activities:** | **Actor** | **System** |
| 1. Customer logs into account.  2. Opens account settings.  3. Updates information. | 2.1 Displays editable account fields.  3.1 Validates and saves changes. |
| **Exception Conditions:** | 3. Invalid data entry or system save error. | |

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| **Use Case Name:** | Manage Inventory | |
| **Scenario:** | Admins want to update stock levels. | |
| **Triggering Event:** | Admin opens inventory management. | |
| **Brief Description:** | Admin can view stock quantities and make changes. The system updates the database and ensures the store reflects current inventory. | |
| **Actors:** | Admin | |
| **Related Use Cases:** | Manage Products | |
| **Stakeholders:** | NuttyLoves Warehouse Team: ensures product availability. | |
| **Preconditions:** | Admin is authenticated.  Products must be listed in the system. | |
| **Postconditions:** | Stock levels are updated. | |
| **Flow of Activities:** | **Actor** | **System** |
| 1. Admin opens inventory panel.  2. Updates quantities. | 1.1 Displays list of products and stock.  2.1 Validates and saves stock updates. |
| **Exception Conditions:** | 2. Entry exceeds allowed range.  2. Database save failure.  2. Invalid data entry. | |

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| **Use Case Name:** | Manage Products | |
| **Scenario:** | Admins want to update the product catalog | |
| **Triggering Event:** | Admin accesses the dashboard. | |
| **Brief Description:** | Admin creates, edits, or removes products from the catalog. The system updates the database and reflects changes in the store front. | |
| **Actors:** | Admin | |
| **Related Use Cases:** | Manage Inventory,Manage Orders | |
| **Stakeholders:** | NuttyLoves Admins: to manage the product offering. | |
| **Preconditions:** | Admin is authenticated. | |
| **Postconditions:** | Product catalog is updated. | |
| **Flow of Activities:** | **Actor** | **System** |
| 1. Admin logs in.  2. Opens product manager.  3. Edits/adds/deletes product. | 2.1 Displays product list.  3.1 Validates and saves changes. |
| **Exception Conditions:** | 1. Validation error or database failure.  1. Duplicate entry.  3. Invalid data. | |

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| **Use Case Name:** | Manage Orders and Create Orders | |
| **Scenario:** | Customers place orders while admins oversee and update their statuses. | |
| **Triggering Event:** | A customer clicks "Checkout" after adding products to the cart or an admin logs in and accesses the orders dashboard. | |
| **Brief Description:** | Customers complete a purchase by providing necessary shipping and payment information. The system verifies the data, creates an order, updates inventory, and sends confirmation. Admins can later view, track, and update the order's status (e.g., from Pending to Shipped or Delivered). Notifications are sent accordingly. | |
| **Actors:** | Admin and Customer | |
| **Related Use Cases:** | Manage Products | |
| **Stakeholders:** | NuttyLoves Admin Team: to deliver and support customer service.  NuttyLoves Customers: Expect accurate and timely delivery. | |
| **Preconditions:** | The customer is logged in.  Products are available in inventory.  Admin is authenticated. | |
| **Postconditions:** | A new order is stored in the system.  Inventory is updated.  Order status can be tracked and modified.  Customers receive order notifications. | |
| **Flow of Activities:** | **Actor** | **System** |
| 1. Customer proceeds to checkout.  2. Customer enters shipping and payment info.  3. Customer submits order.  4. Admin logs in and opens order list.  5. Admin selects an order.  6. Admin updates order status. | 1.1 Displays cart summary and order form.  2.1 Validates stock and payment data.  3.1 Creates order, updates inventory, sends confirmation.  4.1 Displays all orders with details.  5.1 Shows full order information.  6.1 Saves status update and notifies customer. |
| **Exception Conditions:** | 2. Customer provides invalid data or payment fails.  3. Item is out of stock during checkout.  5. Admin attempts to update a non-existent order.  6. System fails to send notification. | |

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| **Use Case Name:** | View Sales Report | |
| **Scenario:** | Admins want to analyze and review sales data. | |
| **Triggering Event:** | Admin accesses the sales report section in the dashboard. | |
| **Brief Description:** | The Admin generates a report to analyze recent sales, total revenue, and product performance. The system fetches data and presents the report in a readable format. | |
| **Actors:** | Admin | |
| **Related Use Cases:** |  | |
| **Stakeholders:** | NuttyLoves Admin Team: to evaluate business performance. | |
| **Preconditions:** | Sales data is recorded in the system. | |
| **Postconditions:** | Sales report is generated and displayed. | |
| **Flow of Activities:** | **Actor** | **System** |
| 1. Admin logs in.  2. Navigates to sales report.  3. Views report. | 2.1 Retrieves and processes sales data.  3.1 Displays report (e.g., graphs, tables). |
| **Exception Conditions:** | 2. Data not found or system processing error. | |

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| **Use Case Name:** | Create Account | |
| **Scenario:** | New users want to register and use the NuttyLoves platform. | |
| **Triggering Event:** | User clicks on the "Sign Up" or "Register" button. | |
| **Brief Description:** | When a new customer wants to place an order, the system allows them to create a new user account by filling out a registration form. The system validates the data, saves the new account, and notifies the customer of successful registration. | |
| **Actors:** | Customer | |
| **Related Use Cases:** | Manage Account | |
| **Stakeholders:** | NuttyLoves Admin Team: ensures secure storage of user credentials. | |
| **Preconditions:** | User has not registered previously. | |
| **Postconditions:** | A new user account is created and saved. | |
| **Flow of Activities:** | **Actor** | **System** |
| 1. Customer clicks “Sign Up”.  2. Customer completes form.  3. Submits registration. | 2.1 Validates data and checks for duplicates.  3.1 Creates user record and confirms registration. |
| **Exception Conditions:** | 2. Missing or invalid input.  3. Email already exists in the system. | |