**Use Case 1: User Registration**

**Created By :** Salvin Sorgy

**Actors:**

* Customer

**Preconditions:**

* User has access to the registration page.

**Postconditions:**

* User account is created and saved in the system.

**Main Flow:**

1. User navigates to the registration page.
2. User fills in the registration form with required details (e.g., name, email, password).
3. User submits the form.
4. System validates the input and checks for duplicate email.
5. System creates a new user account and sends a confirmation email.
6. User receives a confirmation email with a link to activate the account.

**Alternate Flow:**

* If the email is already in use, the system displays an error message.

**Use Case 2: User Login**

**Created By :** Salvin Sorgy

**Actors:**

* Customer

**Preconditions:**

* User has an existing account.

**Postconditions:**

* User is authenticated and logged into the system.

**Main Flow:**

1. User navigates to the login page.
2. User enters email and password.
3. User submits the login form.
4. System validates credentials.
5. If credentials are valid, the user is redirected to the homepage; otherwise, an error message is displayed.

**Use Case 3: Product Search and Filter**

**Created By :** Salvin Sorgy

**Actors:**

* Customer

**Preconditions:**

* User is logged into the system.

**Postconditions:**

* User sees a list of products based on search and filter criteria.

**Main Flow:**

1. User enters a search term in the search bar.
2. User applies filters (e.g., category, price range).
3. User submits the search query.
4. System retrieves matching products from the database.
5. System displays the filtered product list.

**Use Case 4: View Product**

**Created By :** Salvin Sorgy

**Actors:**

* Customer

**Preconditions:**

* User is logged into the system and has performed a product search.

**Postconditions:**

* User views detailed information about the selected product.

**Main Flow:**

1. User clicks on a product from the search results.
2. System retrieves product details (e.g., name, description, price, images).
3. System displays the product details page.

**Use Case 5: Product Management (Admin)**

**Created By :** Salvin Sorgy

**Actors:**

* Admin

**Preconditions:**

* Admin is logged into the system.

**Postconditions:**

* Admin can add, edit, or delete products.

**Main Flow:**

1. Admin navigates to the product management section.
2. Admin chooses to add, edit, or delete a product.
3. Admin submits the changes.
4. System updates the product list accordingly.

**Use Case 6: Checkout and Ordering**

**Created By :** Salvin Sorgy

**Actors:**

* Customer

**Preconditions:**

* User has products in their cart.

**Postconditions:**

* Order is created and saved in the system.

**Main Flow:**

1. User navigates to the cart.
2. User reviews items and clicks on the checkout button.
3. User enters shipping information and reviews the order summary.
4. User submits the order.
5. System generates an order ID and confirms the order.

**Use Case 7: Payment**

**Created By :** Salvin Sorgy

**Actors:**

* Customer

**Preconditions:**

* User has completed the checkout process.

**Postconditions:**

* Payment is processed and confirmed.

**Main Flow:**

1. User selects a payment method (e.g., credit card, PayPal).
2. User enters payment details.
3. User submits the payment.
4. System processes the payment.
5. If payment is successful, the user receives a confirmation message; otherwise, an error message is displayed.

**Use Case 8: Customer Support**

**Created By :** Salvin Sorgy

**Actors:**

* Customer

**Preconditions:**

* User is logged into the system.

**Postconditions:**

* User receives assistance with their query.

**Main Flow:**

1. User navigates to the customer support section.
2. User fills out a support request form with their issue.
3. User submits the form.
4. System sends the request to the support team.
5. User receives a confirmation that their request has been received.

**Use Case 9: Sales Analysis (Admin)**

**Created By :** Salvin Sorgy

**Actors:**

* Admin

**Preconditions:**

* Admin is logged into the system.

**Postconditions:**

* Admin can view sales data and generate reports.

**Main Flow:**

1. Admin navigates to the sales analysis section.
2. Admin selects the desired date range and filters.
3. Admin requests to view sales data.
4. System retrieves and displays sales reports.

**Use Case 10: User Management (Admin)**

**Created By :** Salvin Sorgy

**Actors:**

* Admin

**Preconditions:**

* Admin is logged into the system.

**Postconditions:**

* Admin can manage user accounts.

**Main Flow:**

1. Admin navigates to the user management section.
2. Admin views a list of users and selects a user to manage.
3. Admin can edit user details or deactivate accounts.
4. System updates user information accordingly.

**Use Case 11: Order Management (Admin)**

**Created By :** Salvin Sorgy

**Actors:**

* Admin

**Preconditions:**

* Admin is logged into the system.

**Postconditions:**

* Admin can view and manage customer orders.

**Main Flow:**

1. Admin navigates to the order management section.
2. Admin views a list of orders.
3. Admin can update order status (e.g., processing, shipped, delivered).
4. System updates the order status accordingly.

**Use Case 12: Logout**

**Created By :** Salvin Sorgy

**Actors:**

* Customer

**Preconditions:**

* User is logged into the system.

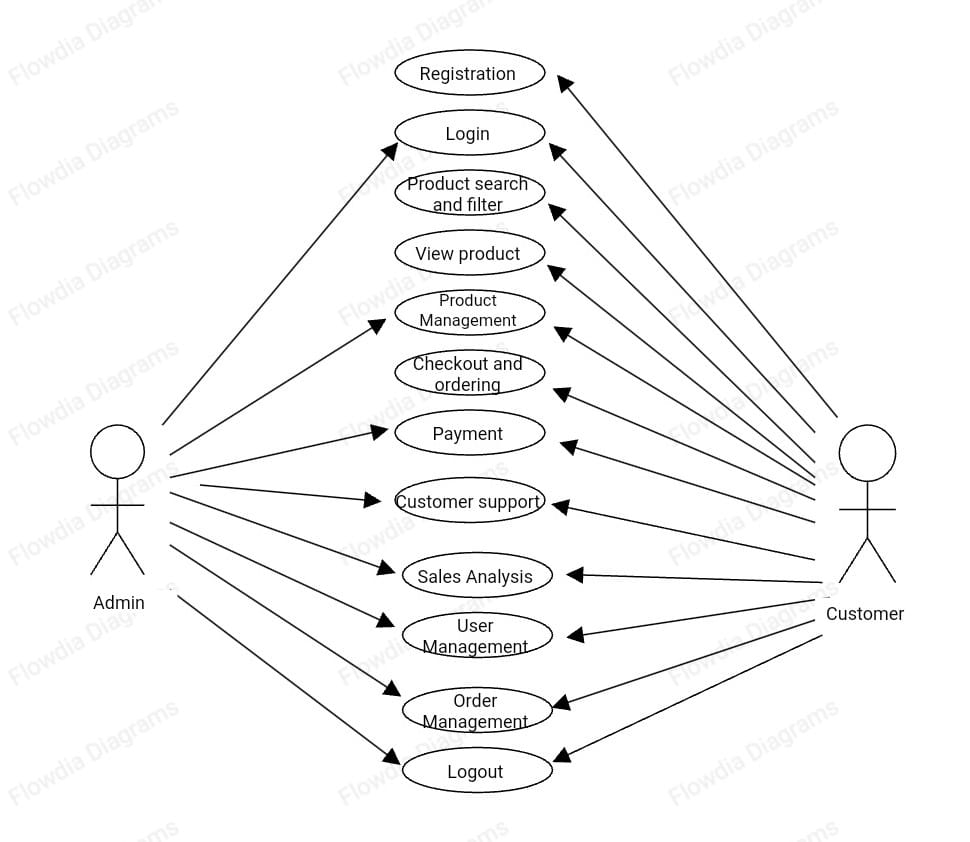
**Postconditions:**

* User is logged out of the system.

**Main Flow:**

1. User clicks on the logout button.
2. System terminates the user session.
3. User is redirected to the login page.

**Use Case Diagram**

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