**Use Case Name:** Sign in.

**Scope:** A user login system to access the functionality of the system.

**Level:** User-goal.

**Primary Actor:** Customer.

**Stakeholders and Interests:**

**-Customer:** Access to products on e-commerce site.

**-System:** Provides access to customer after successful entry of credentials.

**Preconditions:**  System should be connected to the network.

**Success**  **Guarantee:** Valid entry of matching username and password.

**Main** **Success** **Scenario:**

1. Click on Login.
2. Actor/User enters username and password.
3. Actor/User validates username and password.
4. Allow access to system

**Extensions:**

1a. Invalid Username, system shows an error message

2b. Invalid Username, system shows an error message

3c. Invalid Password for 4 times system forces application shutdown.

**Special** **Requirements:**

1. Should follow required format for valid username.
2. Should follow required format for valid password.
3. System should process validation within given time frame.

**Use Case Name:** Search Products.

**Scope:** Allows users to search for products available in the e-commerce website.

**Level:** User-goal.

**Primary Actor:** Customer.

**Stakeholders and Interests:**

**Customer:** Access to products on e-commerce site.

**System:** Provides access to customer after successful entry of credentials.

**Preconditions:**  System should be connected to the network.

**Success**  **Guarantee:**

**Use Case Name:** Process Sale.

**Scope:** Incorporates methods, steps and approaches to achieve sales productivity.

**Level:** User-goal.

**Primary Actor:** Customer.

**Stakeholders and Interests:**

**- Salesperson:** Wants sales commissions updated.

**- Customer:** Wants purchase and fast service with minimal effort. Wants proof of purchase to support returns.

**- Company:** Wants to accurately record transactions and satisfy customer interests. Wants to ensure that Payment Authorization Service payment receivables are recorded. Wants some fault tolerance to allow sales capture even if server components (e.g., remote credit validation) are unavailable. Wants automatic and fast update of accounting and inventory.

**- Government Tax Agencies:** Want to collect tax from every sale. May be multiple agencies, such as national, state, and county.

**- Payment Authorization Service:** Wants to receive digital authorization requests in the correct format and protocol. Wants to accurately account for their payables to the store.

**Preconditions:** Salesperson is identified and authenticated.

**Success**  **Guarantee:** Sale is saved. Tax is correctly calculated. Accounting and Inventory are updated. Commissions recorded. Receipt is generated. Payment authorization approvals are recorded.

**Main Success Scenario:**

1. Customer reviews and confirms order.
2. System records sale line item and presents item, description, price and running total.
3. System presents total with taxes calculated.
4. System displays available payment methods.
5. Customer chooses payment method and system accepts and handles valid payment method.
6. System logs completed sale and sends sale and payment information to the external Accounting system and Inventory system to update Inventory.
7. System confirms successful purchase and finalizes sales.