2.3 Use Case Descriptions

2.3.1 User Registration

GENERAL CHARACTERISTICS

- Intent: Allow new customers to register, gaining access to pharmacy services.

- Scope: Online Pharmacy Web Application

- Primary Actor: Potential Customer

- Secondary Actors: Database, Email Verification System

- Preconditions: Potential customer requires internet access and the application's registration page.

- Assumptions: The system's database is ready for new registrations.

- Trigger: Selection of "Register" or "Sign Up".

Success Post Condition: Customer account creation and verification, providing access to the application.

Failed Post Condition: Failure in account creation due to data validation errors or system issues.

Sunny Day Scenario

1. Start: Prospective customer selects "Sign Up".

2. Action: Completes the registration form with personal details.

3. System Response: Validates and creates account, sends verification email.

4. Outcome: Customer verifies email, activates account.

5. End: Redirected to login screen.

Rainy Day Scenario

1. Start: Customer faces registration issues.

2. Action: System provides error messages.

3. System Response: Customer corrects data or seeks support.

4. Outcome: Customer either successfully registers or exits the process.

5. End: Use case ends after successful registration or withdrawal.

2.3.2 Medication Search and Selection

GENERAL CHARACTERISTICS

- Intent: Enable users to find and select medications for their health needs.

- Scope: Online Pharmacy Web Application

- Primary Actor: Registered Customer

- Secondary Actors: Search Engine, Database

- Preconditions: Customer logged in and interacting with the search feature.

- Assumptions: Up-to-date and comprehensive medication catalog.

- Trigger: Customer inputs a search query.

Success Post Condition: Desired medication added to the customer's cart.

Failed Post Condition: Unable to find or add medication.

Sunny Day Scenario

1. Start: Customer initiates medication search.

2. Action: Reviews results and selects medication.

3. System Response: Cart updates with new item.

4. Outcome: Customer proceeds to checkout or continues browsing.

5. End: Customer completes selection and checkout or logs out.

Rainy Day Scenario

1. Start: Medication unavailable or search results empty.

2. Action: Customer notified of lack of availability.

3. System Response: Offers alternatives or notification options.

4. Outcome: Customer makes alternative choice or exits search.

5. End: Use case ends with an alternate selection or customer exit.

3.2 Interface Requirements

3.2.1 User Interface Requirements

- UI1: Intuitive navigation for viewing and filtering medications.

- UI2: Profile creation process with step-by-step guidance.

- UI3: Simple login procedure with secure credential management.

- UI4: Visible and accessible logout option.

- UI5: Administrative capabilities to manage medication inventory.

- UI6: Reporting tools for admins with customizable parameters.

- UI7: Distinctive access controls for customers and admin roles.

3.2.2 Hardware and Software Interface Requirements

- HW1: Compatibility with standard web browsers on various devices.

- SW1: Integration with a backend SQL database.

- SW2: Secure API connections for payment processing and other services.

3.3 System Features

- SF1: 'View Medicines' functionality with advanced filtering options.

- SF2: Real-time shopping cart updates and management features.

- SF3: Administrative features for adding and removing medications.

- SF4: Comprehensive report generation for business analytics.

3.4 Specific Requirements

- REQ1: Medication browsing with multiple filters like disease, brand, and cost.

- REQ2: User profile management for order tracking and personal information updates.

- REQ3: Encrypted login process for user security.

- REQ4: Cart functionality with preview before purchase.

- REQ5: Multiple secure payment options.

- REQ6: Admin controls for user account management and moderation.

- REQ7: Product listing management with the ability to update inventory.

- REQ8: Dynamic reporting tools for sales, inventory, and user engagement metrics.

- REQ9: Auto-logout for inactive sessions.

- REQ10: Compliance with data protection and privacy laws.

This combined SRS document outlines the comprehensive requirements and expected interactions for the Online Pharmacy Web Application,