**Assignment No. 1:**

**Project Title:** Online Book Store

### **Requirement Analysis Task:**

1. **Refine User requirements to identify the preferences and expectations in online book shopping.**

Based on user expectations, refined requirements for an online book store are:

* Users expect a smooth and intuitive interface to search and browse books by category, author, and genre.
* Secure and easy registration/login process, with optional social login.
* Real-time search results with filters for price, author, genre, rating, etc.
* Secure and fast checkout with multiple payment options.
* Ability to view and manage previous orders.
* Option to leave and read reviews/ratings on books.
* Personalized user profiles with order history and preferences.
* Promotional discounts/coupons applied easily at checkout.
* Efficient customer support and FAQs section.

1. **Write clear and concise acceptance criteria for the scenarios**

**Scenario: Successful Registration**  
Given the user is on the registration page  
When the user provides all required information and submits the form  
Then the account should be created and a confirmation message should be displayed

**Scenario: Filter Books by Genre**  
Given the user is on the book catalog page  
When the user selects “Science Fiction” from the genre filter  
Then only books under the “Science Fiction” category should be displayed

**Scenario: Add Book to Cart**  
Given the user is logged in and on a book detail page  
When the user clicks “Add to Cart”  
Then the book should appear in their shopping cart

**Scenario: Apply Discount Coupon**  
Given the user has books in the cart and is on the checkout page  
When the user enters a valid coupon code  
Then the discount should be applied to the total amount

### **3. Define functional requirements, including user authentication, book catalog management, search functionality, and the shopping cart process.**

* **User Authentication:**
  + Users must register and log in to access personal features.
  + Forgot password and reset functionality.
* **Book Catalog Management:**
  + Display books by categories, bestsellers, and recommended reads.
  + Admin can add, update, or delete books with stock status.
* **Search and Filter:**
  + Search by title, author, or ISBN.
  + Filters for genre, price, reviews, language, etc.
* **Shopping Cart Process:**
  + Add, update, or remove items in the cart.
  + Display total price and apply discounts.
  + Checkout flow with payment and order confirmation.
* **Order Tracking:**
  + Users can track order status and view history.
* **Admin Panel:**
  + View orders, manage books and discounts, monitor site activity.

**4. Identify non-functional requirements, such as performance expectations.**

* **Performance:** Pages should load within 3 seconds.
* **Scalability:** Should support up to 10,000 concurrent users.
* **Security:** Secure user data, encrypted transactions.
* **Usability:** Mobile responsive, clean UI.
* **Availability:** 99.9% uptime required.

### **Develop user stories to describe how users will interact with the system. (Using Gherkins)**

**User Registration**  
As a new user  
I want to register with email and password  
So that I can log in and manage my purchases

**Book Browsing**  
As a visitor  
I want to browse books by categories  
So that I can find books that interest me

**Search Functionality**  
As a user  
I want to search books by title or author  
So that I can quickly find a specific book

**Shopping Cart**  
As a registered user  
I want to add books to a cart  
So that I can buy multiple items in one order

**Order Tracking**  
As a customer  
I want to track my order status  
So that I know when to expect delivery

**Admin Management**  
As an admin  
I want to manage the book inventory  
So that the catalog stays updated

**QA Fundamentals Certificate**

