online bookstore system

In this simplified online bookstore system, customers can search for books, place orders, and receive order confirmations. The bookstore manages its inventory based on customer’s orders.

* Within the **Search for Books**: Customer sends a request to search for books. Bookstore processes the request by checking available books. Bookstore sends the search results to the Customer.
* Within the **Place Order**: Customer selects books and initiates the order. Bookstore processes the order, updates inventory, and generates an order confirmation. Bookstore sends the confirmation to the Customer.
* Within the **Manage Inventory**: Bookstore keeps track of available books and updates inventory accordingly.

**Solution**

**Entities:**

1. Customer
2. Bookstore

**Processes:**

1. **Search for Books:**
   * Customer sends a request to search for books.
   * Bookstore processes the request by checking available books.
   * Bookstore sends the search results to the Customer.
2. **Place Order:**
   * Customer selects books and initiates the order.
   * Bookstore processes the order, updates inventory, and generates an order confirmation.
   * Bookstore sends the confirmation to the Customer.
3. **Manage Inventory:**
   * Bookstore keeps track of available books and updates inventory accordingly.

**Data Flows:**

1. **Search Results:**
   * Flow of information from the Bookstore to the Customer, conveying the search results.
2. **Order Information:**
   * Flow of information from the Customer to the Bookstore, containing details of the selected books.
3. **Order Confirmation:**
   * Flow of information from the Bookstore to the Customer, providing confirmation of the placed order.