

Assignment - Web Based System

COU3303 - Software Engineering

Functional Requirements

Customer Side:

- Account Management:
 - Customers can create accounts (registration) and log in.
 - Customers can update their profile information and reset passwords.
- Book Browsing and Search:
 - Customers can browse the catalog of available books.
 - Customers can search for books by title, author, or genre.
- Shopping Cart:
 - Customers can add books to a shopping cart.
 - Customers can view the items in their cart, adjust quantities, or remove items.
 - Customers can proceed to checkout from the shopping cart.
- Order Processing and Payment:
 - Customers can enter payment details to make a secure online payment.
 - Customers receive a confirmation of the order after payment is processed.

Administrator Side:

- Book Inventory Management:
 - Administrators can add new books to the catalog, including details like title, author, genre, price, and stock quantity.
 - Administrators can update or remove books as needed.

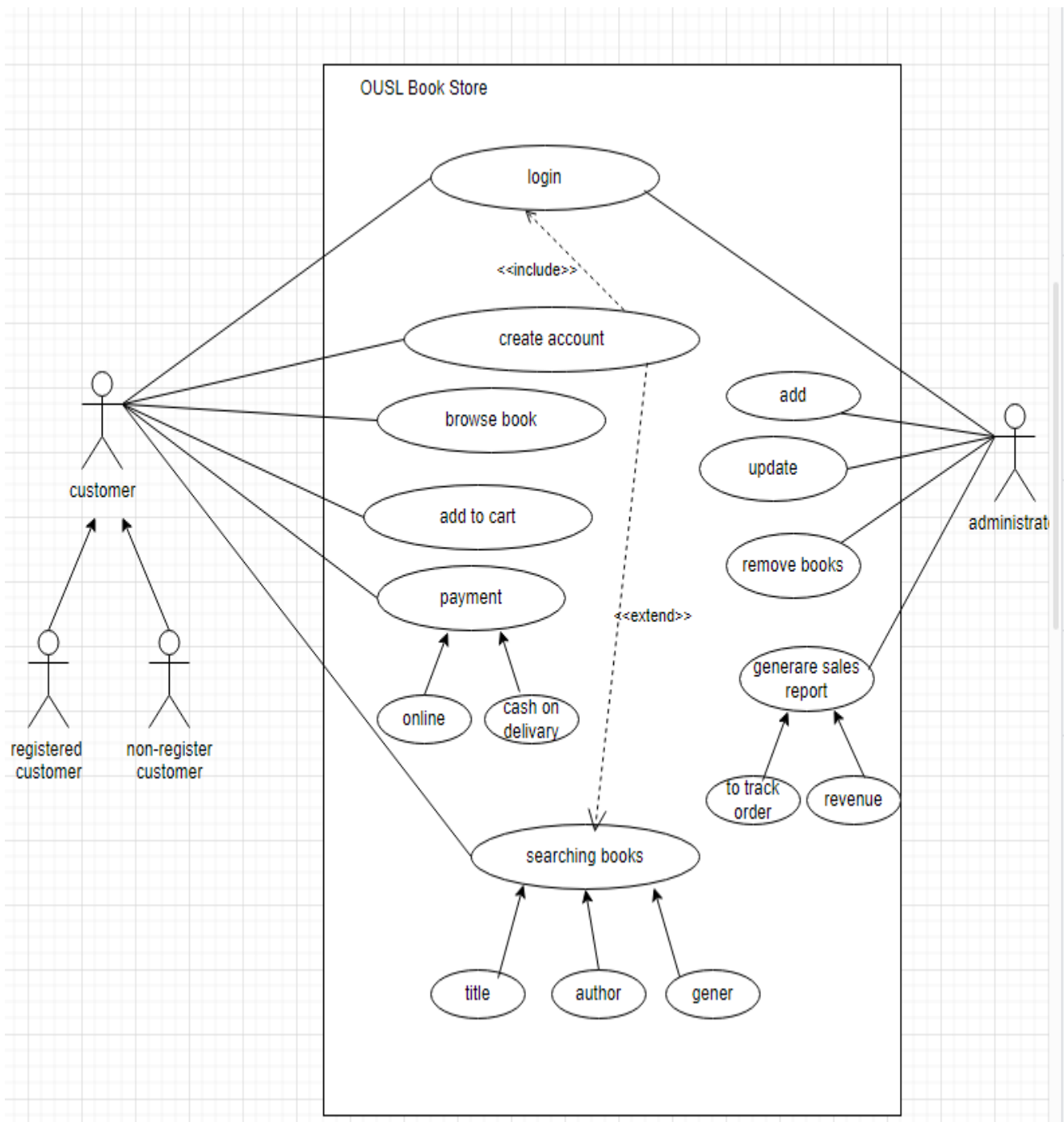
- Sales Reporting:
 - Administrators can generate sales reports to track orders and revenue.
 - Sales reports include daily, weekly, or monthly summaries.

Non-Functional Requirements

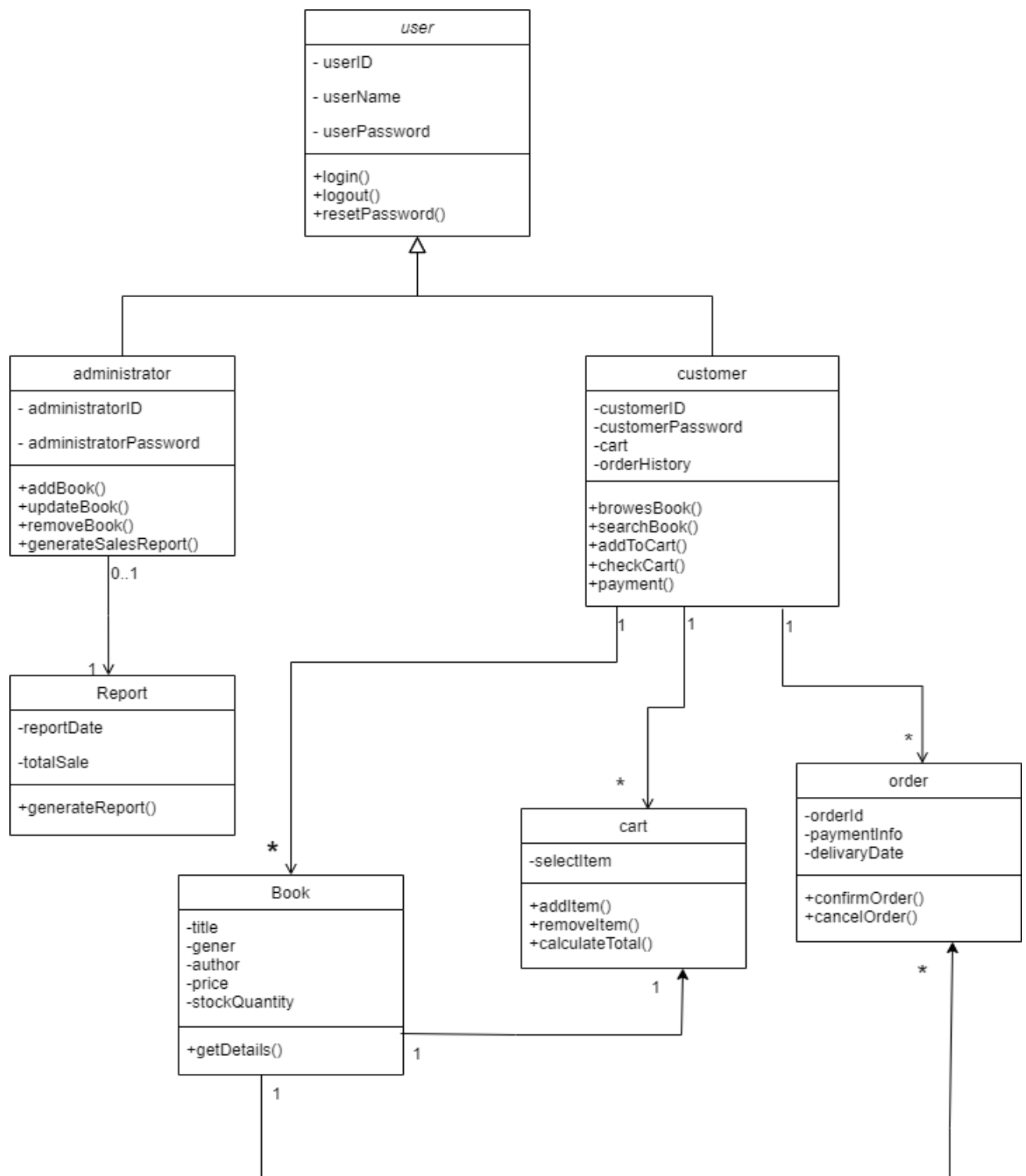
- Usability: The system should have an intuitive and user-friendly interface accessible on both desktop and mobile devices.
- Performance:
 - The system should handle up to 1,000 users simultaneously without performance degradation.
 - Page loading and transaction processing should be efficient.
- Security:
 - Secure authentication for users (both customers and administrators). ◦ Secure storage and processing of payment information.
 - Implementation of HTTPS for secure communication.
- Reliability: The system should be reliable with minimal downtime and must handle transactions accurately.
- Compatibility: Compatible across common browsers and mobile operating systems

Use case diagram

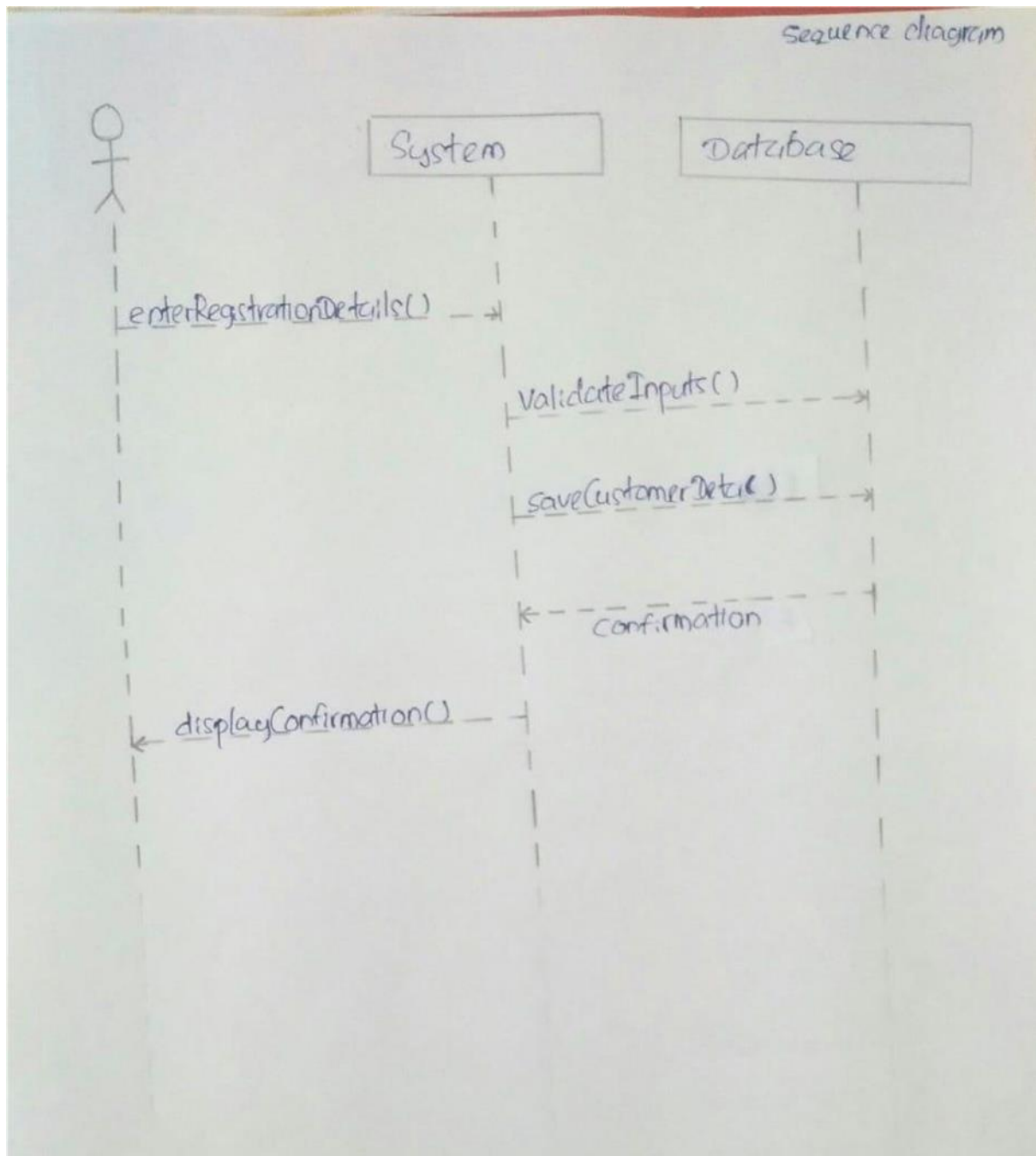
The customer logs into the OUSLBookStore and browse books by title, author or genre. Once the customer finds the required book, the book adds to the shopping cart. Then customer checks the shopping cart and proceeds to checkout. Customer will be navigating to the payment information and confirmation form. The system validates the payment information and processes the transaction and confirms the order. Then the customer receives and order conformation message



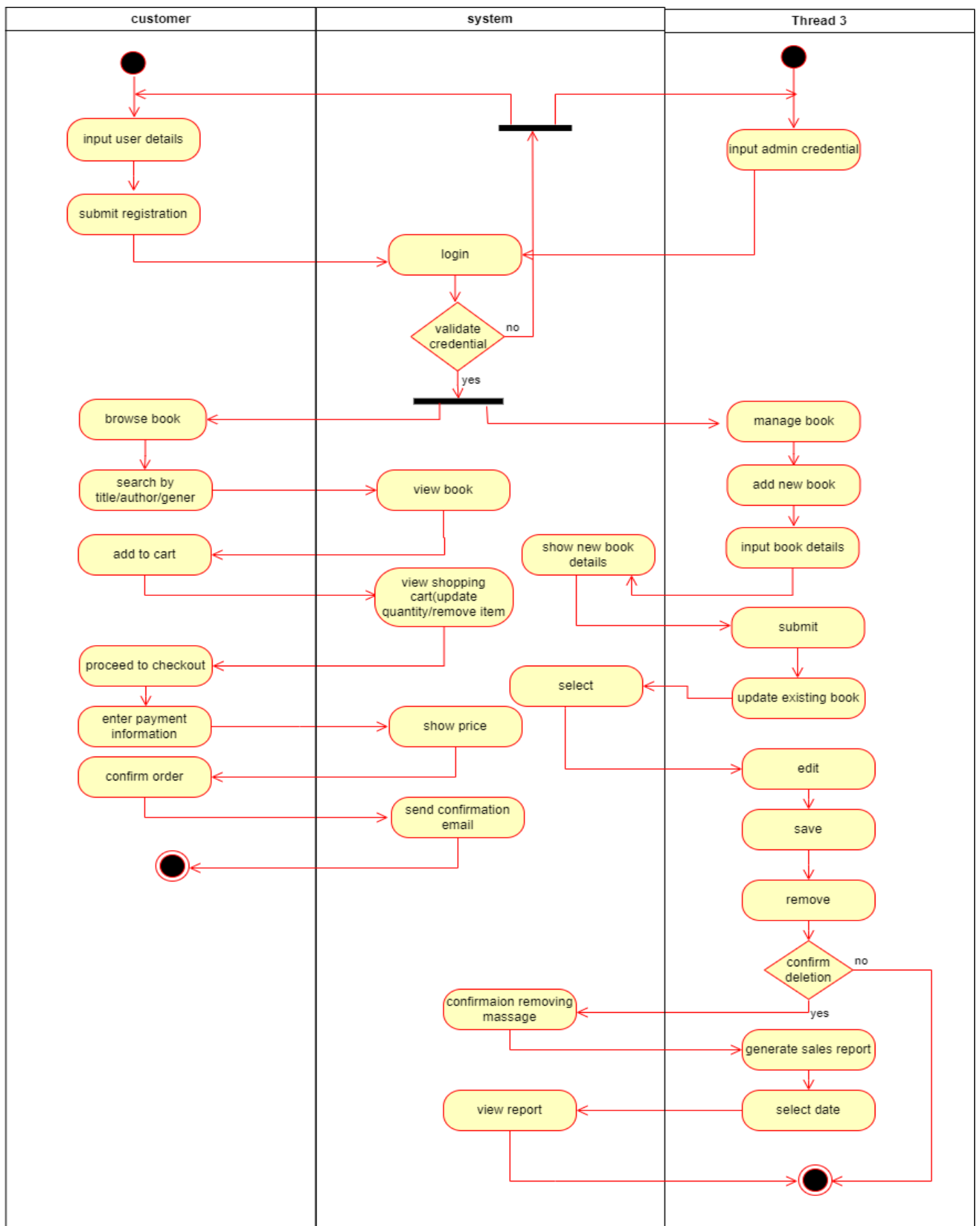
Class diagram



Sequence diagram



Activity Diagram



GitHub Link : [https://github.com/Harshamali Muditha/OUSLBookStor](https://github.com/Harshamali-Muditha/OUSLBookStor)

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