

SOURABH THAPLIYAL

Online Bookstore Management



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Project Overview



The Online Bookstore Management System is a platform designed to simplify the buying and selling of books. It enables users to browse a wide selection of books, place orders, and leave reviews, while also offering administrators the ability to manage inventory, users, and orders efficiently. Built using Hibernate, the system utilizes a command-line interface (CLI) for user interaction, with secure authentication and role-based access for both users and administrators.

Goals



EFFICIENT BOOKSTORE MANAGEMENT

To develop a streamlined system for managing books, orders, users, and reviews using a command-line interface (CLI) while ensuring scalability and ease of use for both customers and administrators.



SEAMLESS USER & ADMIN EXPERIENCE

To provide secure, role-based access for users and administrators, enabling customers to easily browse and purchase books, while allowing admins to manage inventory and track orders effectively.

Requirement Analysis



01

User Features

Registration, login, placing orders, adding reviews.

02

Admin Features

Manage books and authors, user data, and order history.

03

System Requirements

- Persistent storage with MySQL.
- Secure user authentication and role-based access for admins.

Technology Stack

a



Programming Language

Java



ORM Framework

Hibernate



Database

MySQL



Development Environment

Eclipse



Version Control

GitHub



Modules Overview

User Management

Registration, login, profile, orders.

Admin Management

Manage books, authors, users, and orders.

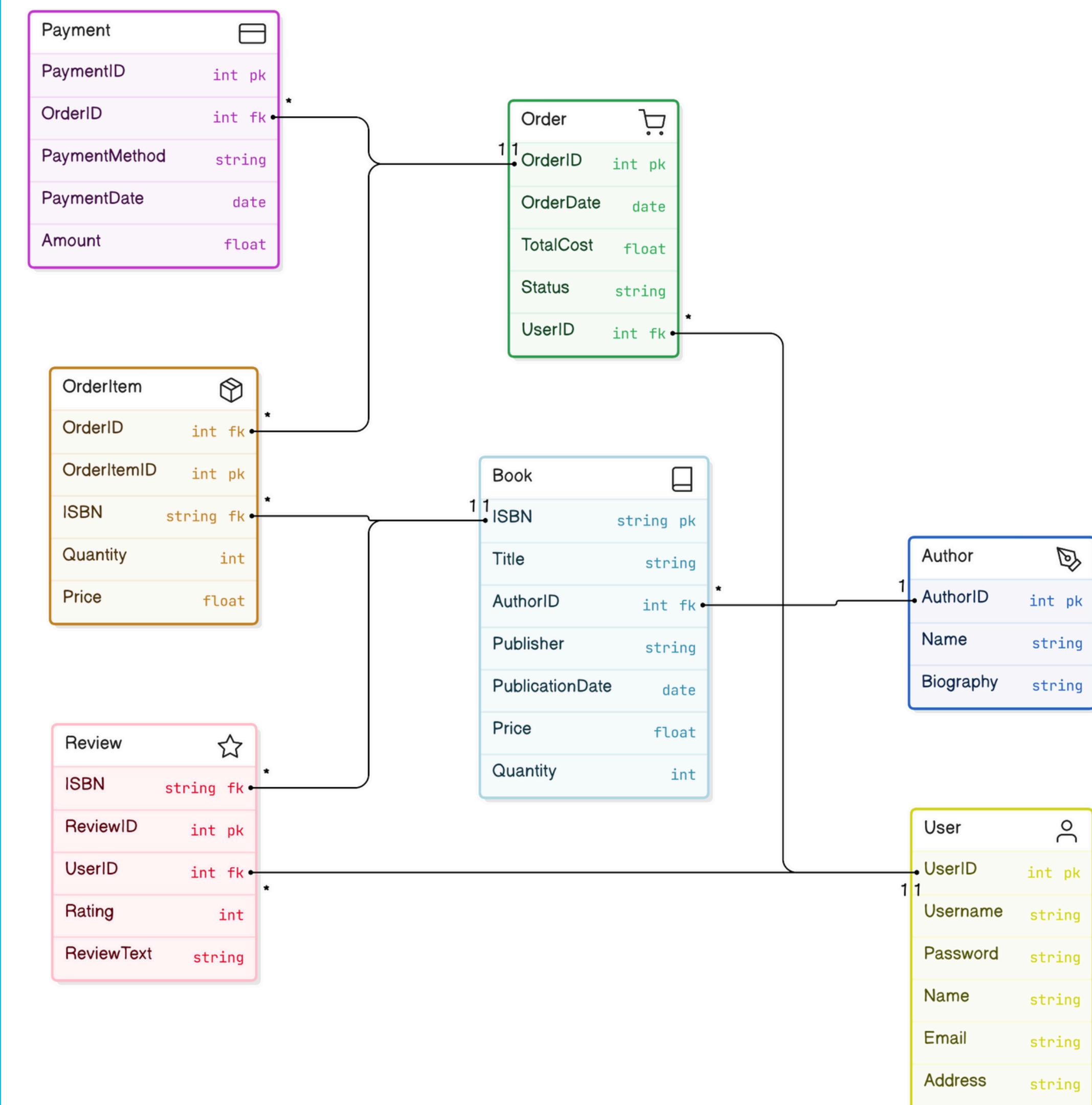
Order Management

Place and track orders.

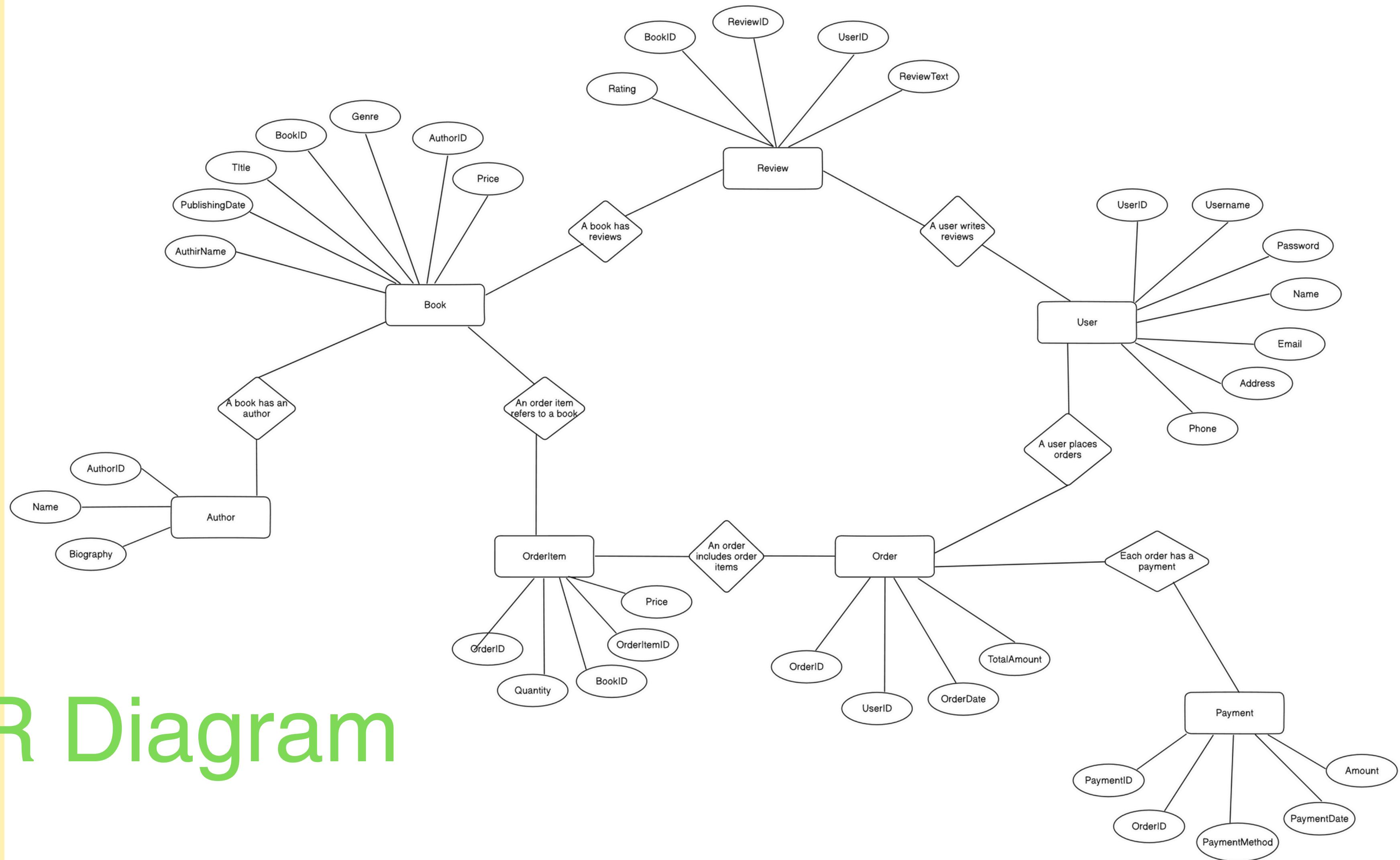
Review Management

Add and manage book reviews.

Database Design



ER Diagram



Testing

Unit Testing

Used JUnit for testing components like controllers, services, and DAOs.

Integration Testing

Ensured proper interaction between modules.

Manual Testing

Extensive testing through the CLI interface.

Future Scope

- ◆ GUI Development for better usability.
- ◆ Performance optimization through caching mechanisms.
- ◆ Mobile app version for wider accessibility.

Conclusion

In summary, the Online Bookstore Management System successfully delivers core functionalities such as user account management, book purchasing, and review capabilities, while providing robust administrative tools for inventory, user, and order management. The system leverages Hibernate for efficient database interactions and is built using a command-line interface for simplicity.

Looking forward, the project can be enhanced with a graphical user interface (GUI), improved performance through caching mechanisms, and scalability for mobile platforms, ensuring future growth and accessibility.

THANK YOU
