**Case Study OF Final Project**



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**Case Study 1: Online Bookstore**

**Introduction:**

An online bookstore is a web-based platform that allows customers to browse and purchase books from various genres. The platform enables the customers to search for books, read book reviews, and make payments online.

**Actors:**

* Customers
* Bookstore staff (administrators, content managers, and customer service representatives)

**Features:**

* Search functionality to find books by author, title, or keyword.
* Recommendation system that suggests books based on the customer's browsing and purchase history.
* Online payment system.
* User registration and login functionality to track orders and purchase history.

**Constraints:**

**Security:** Secure user authentication and data protection are necessary to ensure customer data is not compromised.

**Performance:** The platform should be responsive and able to handle a large number of customers concurrently.

**Scalability:** The platform must be scalable to accommodate a growing number of customers and orders.

**How the developed system works in DBMS:**

The database system for the online bookstore includes tables for customers, books, orders, payments, and reviews. The tables are interconnected using foreign keys to maintain data integrity. The system uses a relational database management system (RDBMS) such as MySQL or PostgreSQL. The system stores the customer's details, their purchase history, and book information, including titles, authors, ISBN, and prices. The database also stores customer reviews and ratings of the books. The system processes the user's search queries and recommends books based on their browsing and purchase history.