

Final project - Online bookshop system

Vlad-Marian Toader

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System definition

Welcome to my comprehensive online bookshop system designed to provide users with a seamless and enjoyable experience in exploring, purchasing, and interacting with a vast collection of books. This project encompasses a set of entities including publishers, authors, books, users, orders, and reviews, forming the backbone of a dynamic and feature-rich online bookshop.

1 Business requirements

1.1 Search Books

Users can search for books based on title or author, enhancing the discoverability of desired reads.

1.2 Find Books by Genre

Users can explore books within the same genre as one they input, facilitating personalized recommendations.

1.3 Find Books by Publisher

Users can discover books published by a specific entity, enabling them to explore a publisher's collection.

1.4 Place an Order

Seamless order placement with automatic stock quantity updates, ensuring a smooth and efficient transaction process.

1.5 View Order History

Users can conveniently review their order history, allowing for easy tracking of past purchases.

1.6 Update Stock Quantity

Real-time stock updates occur automatically when users place orders, maintaining accurate inventory levels.

1.7 Submit Reviews

Users have the ability to share their thoughts and experiences by submitting reviews for books they've engaged with.

1.8 View Book Reviews

Users have access to comprehensive reviews for each book, fostering an informed decision-making process.

1.9 Edit User Information

Users can easily manage and update their personal information, enhancing the user profile customization.

1.10 Delete User Profile

Providing users with the option to delete their profiles at any time, respecting user autonomy.

2 Entities

2.1 Publisher

Representing the entities responsible for publishing books, capturing details such as ID, name and location.

2.2 Author

Highlighting the creative minds behind the books, with attributes like ID, name, and a short biography.

2.3 Book

Serving as the central entity, encapsulating essential details like ID, title, author, publisher, genre, price, and quantity in stock.

2.4 User

Enabling personalized experiences, capturing information such as ID, email, password, first name, last name, and address.

2.5 Order

Facilitating the order process, including ID, user, a list of ordered books, date, and total amount.

2.6 Review

Fostering user engagement, with attributes like ID, user, book, date, rating, and comment.