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Web Bookstore

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Introduction

Reading is a fundamental activity for intellectual growth and personal fulfillment. It expands knowledge, fosters critical thinking, and serves as a source of entertainment and inspiration. However, in today's world, with the ever-increasing number of books available in both digital and print formats, finding and purchasing the right book can be an overwhelming task. This is especially true considering the sheer number of genres, authors, and reviews readers must sift through to find a book that fits their preferences. The problem of discoverability and effective book recommendation is a major barrier for both readers and those new to literature. The traditional model of physical bookstores offers the benefit of human recommendations from knowledgeable staff but is limited by physical space and inventory. Meanwhile, earlier online solutions, such as basic e-commerce websites, solved the problem of limited inventory by connecting users with a vast array of titles but lacked personalization and effective recommendations.

Goal

The main goal of this work is to develop a comprehensive online platform for the sale of books,
addressing the challenges of discoverability and user engagement. The research questions guiding
this work include: How can we enhance the user experience when searching and purchasing books?
What functionalities are essential for both buyers and administrators to ensure efficient management of the bookstore?
The expected final product is an intuitive and scalable web application
that provides a seamless shopping experience for users while allowing administrators to manage the
inventory effectively.

Proposed Solution

The proposed solution involves creating an online bookstore platform that prioritizes user experience and administrative efficiency. The design leverages modern web technologies and object-oriented programming principles to ensure scalability and maintainability. Key technical considerations include using Python and Java for back-end development to handle transactions and data management effectively. The platform will feature advanced search functionalities, a user-friendly shopping cart, and robust inventory management tools for administrators, ensuring a comprehensive and engaging experience for all users.

Results

Conclusions

Biography