

Project Report

New And Old Book Shop

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1. Introduction

The “New And Old Book Shop” is a web-based application designed to provide users with a convenient way to buy and sell books online. The platform aims to create a seamless experience for book enthusiasts, allowing them to browse through a wide range of books, purchase them securely, and also sell their own books to interested buyers.

2. Project Overview

2.1 Project Objectives

- To create a user-friendly and intuitive online bookstore platform.
- To facilitate easy registration and authentication for users.
- To provide a comprehensive catalogue of books with search functionality.
- To enable users to buy books securely and track their transactions.
- To allow users to upload books for sale and manage their listings.
- To implement a robust user profile management system.

2.2 Scope of the Project

The project includes the development of the following key components:

- Landing Page:** Provides options for user registration and login.
- User Registration:** Allows new users to create accounts.
- User Authentication:** Ensures secure login for registered users.
- Main Menu:** Central hub for navigation within the platform.
- Book Listing:** Displays available books with search and filter options.
- Buying and Selling:** Enables users to buy books and upload books for sale.
- User Profile:** Allows users to manage their personal information and transaction history.

2.3 Technologies Used

The project utilizes the following technologies and frameworks:

Frontend: HTML5, CSS3, JavaScript.

Backend: Java Servlets, JSP (JavaServer Pages)

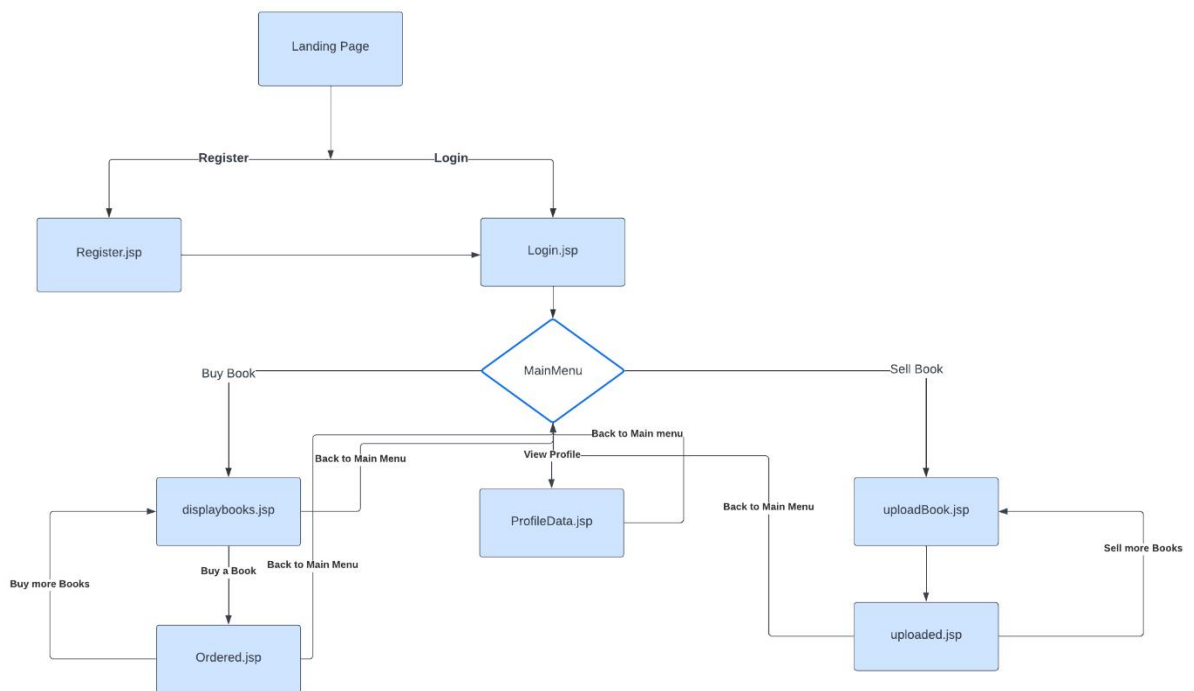
Connectivity: JDBC

Database: MySQL

Development Tools: Eclipse IDE, Apache Tomcat Server

3. System Architecture:

3.1 .Data Flow Diagram:



3.2. System Components

The system comprises several key components:

Landing Page: This is the entry point for users, offering options for registration and login.

User Registration Component: Responsible for handling user registration by capturing and validating user data.

User Login Component: Authenticates users with existing accounts using their credentials.

Main Menu: Acts as the central navigation hub after login, providing options for buying books, selling books, and managing the user profile and logout options.

Buy a Book Component: Allows users to browse books, add them to a cart, and complete purchases.

Sell a Book Component: Enables users to upload book details for selling purposes.

User Profile Component: Displays user information and their transaction history.

Database: Stores user accounts, book details, orders, and profile information securely.

3.3. Data Flow

The following steps outline the data flow within the system:

User Registration:

User accesses the Landing Page and chooses the registration option.

User enters registration details (name, email, password, address).

User submits the registration form.

User Registration Component validates the data and creates a new user account in the Database.

User Login:

User accesses the Landing Page and chooses the login option.

User enters login credentials (email, password).

User submits the login form.

User Login Component authenticates the user against the stored credentials in the Database and redirects to the Main Menu upon successful login.

Main Menu Interaction:

After login, the user interacts with the Main Menu, choosing options like Buy a Book, Sell a Book, User Profile, or logout.

Each option leads to the respective component for further interaction.

Buying a Book:

User navigates to Buy a Book Component from the Main Menu.

Displays all available books for sale with book id, title, cost, condition.

Buy a Book Component updates the Database with the order details.

Selling a Book:

User navigates to Sell a Book Component from the Main Menu.

User uploads book details (title, author, ISBN, condition).

Sell a Book Component stores the book details securely in the Database.

Viewing User Profile:

User navigates to User Profile Component from the Main Menu.

User Profile Component retrieves user information from the Database and displays it.

4. Features and Functionalities

4.1 User Registration and Authentication:

User Registration: New users can register by providing necessary details such as name, email address, and password. The registration process validates the data and creates a new user account in the system.

User Authentication: Registered users can securely log in to the platform using their email address and password. The system authenticates the user credentials to grant access to the user dashboard.

4.2 Book Listing and Search:

Book Listing: The platform displays a comprehensive list of available books retrieved from the database. Each book listing includes details such as book ID, name, author, price, and condition.

Book Search: Users can search for specific books using the search functionality. The search feature allows users to enter keywords of book title to find relevant books.

4.3 Buying and Selling Books:

Buying a Book: Users can select a book from the listing and buy that book.

Selling a Book: Sellers can upload details of the books they want to sell. The system captures information such as book name, author, price, and condition. Upon successful upload, the book is listed for sale on the platform.

4.4 User Profile Management:

User Profile: Registered users have access to their personalized profile dashboard. Here, they can their profile information, including name, email address, and password. The profile also displays the user's transaction history.

5. Future Enhancements

- Implementing a rating and review system for books.
- Introducing a recommendation engine based on user preferences.
- Integrating third-party payment gateways payment options.
- Adding social media sharing capabilities for book listings.
- Enhancing the search functionality with filters for genre, price range, etc.

6. Conclusion

The “New And Old Book Shop” has successfully implemented core functionalities such as user registration, book listing, buying and selling, and user profile management. With a user-friendly interface and secure authentication mechanisms, the platform provides a seamless experience for book enthusiasts.

Moving forward, incorporating future enhancements like a rating system, recommendation engine, and improved search capabilities will further enhance the platform's usability and user engagement. Overall, the project showcases the potential for creating a robust online marketplace for book lovers, catering to their diverse needs and preferences.