



Final Report - BookNest Web Project

BookNest - Online Bookstore Project Report

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Subject: Web Programming

1. Introduction

BookNest is an online bookstore web application developed for the Web Programming course. It simulates a small-scale e-commerce platform where users can create accounts, browse categorized books, add them to a cart, and complete a simulated purchase. The system also supports an admin dashboard with full book management functionality.

2. Technology Stack

- PHP for backend logic
- MySQL with phpMyAdmin for database
- HTML/CSS for UI (no Bootstrap)
- JavaScript for basic interactivity
- Deployed locally using XAMPP

3. Key Features

- User registration/login
- Password hashing
- Book browsing by category
- Add to cart and remove from cart
- Purchase button clears cart and confirms order
- Admin dashboard for managing books (add/modify/delete)
- Upload book images

4. Administrator Interface

Admins can view all books and perform CRUD operations. A form allows creating or editing books with fields for title, author, price, description, genre, and image upload. This section is protected by admin-only access.

5. Shopping Cart and Purchase Flow

Users can add books to their cart and see total price. The 'Purchase' button finalizes the order by removing items from the cart and confirming success. Cart uses session-based storage and dynamically updates.

6. Screenshots of the Application

[Log in](#) | [Register](#) | 

Welcome to BookNest!

Search by title or author...



TODAY'S BESTSELLER

NEW FROM SARAH J. MAAS

Limited editions that capture the magic
and beauty of the Night Court.



FICTION



1984

George Orwell

13.99 USD

Add to Cart

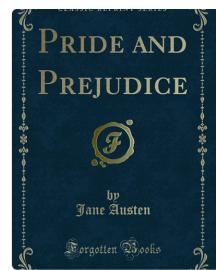


Alice's Adventures in
Wonderland

Lewis Carroll

13.99 USD

Add to Cart

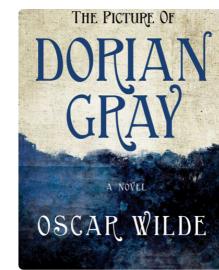


Pride and Prejudice

Jane Austen

15.60 USD

Add to Cart



The Picture of
Dorian Gray

Oscar Wilde

11.99 USD

Add to Cart

PROGRAMMING

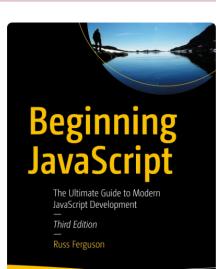


Clean
Code



THINK LIKE
A PROGRAMMER

PROGRAMMING



Beginning JavaScript

Russ Ferguson

19.99 USD

Add to Cart



Clean Code

Robert C. Martin

11.99 USD

Add to Cart

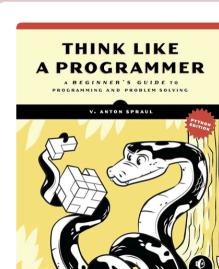


The Pragmatic
Programmer

David Thomas, Andrew Hunt

25.00 USD

Add to Cart



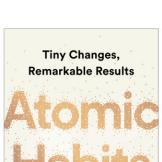
THINK LIKE
A PROGRAMMER

V. Anton Spraul

21.99 USD

Add to Cart

SELF-HELP



Tiny Changes,
Remarkable Results

EMOTIONAL
INTELLIGENCE

Why It Can Matter
more than IQ

CAROL S. DWECK, Ph.D.
mindset
THE NEW PSYCHOLOGY OF SUCCESS

RICH
DAD
POOR DAD

Create Your Account

Name

Email

Password

Register

[Already have an account? Log in here](#)

Login to Your Account

Email

Password

Log In

[Don't have an account? Register here](#)

Your Shopping Cart

Title	Author	Quantity	Price (each)	Total	Action
The Picture of Dorian Gray	Oscar Wilde	1	11.99 USD	11.99 USD	<button>Remove</button>
Clean Code	Robert C.Martin	1	11.99 USD	11.99 USD	<button>Remove</button>
1984	George Orwell	1	13.99 USD	13.99 USD	<button>Remove</button>
Grand Total:					37.97 USD

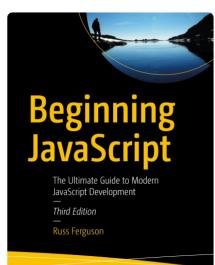
[Purchase](#)

[← Continue shopping](#)

[← Back to Bookstore](#)

Admin Dashboard

[+ Add New Book](#)



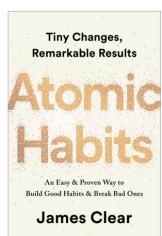
Beginning JavaScript

Author: Russ Ferguson

Price: \$19.99

[Delete](#)

[Modify](#)



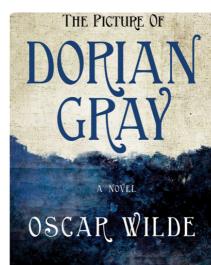
Atomic Habits

Author: James Clear

Price: \$14.99

[Delete](#)

[Modify](#)



The Picture of Dorian Gray

Author: Oscar Wilde

Price: \$11.99

[Delete](#)

[Modify](#)



Clean Code

Author: Robert C.Martin

Price: \$11.99

[Delete](#)

[Modify](#)



Edit Book

Atomic Habits

James Clear

14,99

assets/img/16122021-1621-jpg-1-1200x630.jpg

[Update Book](#)

[← Back to Dashboard](#)

Add a New Book

Title:

Author:

Price (USD):

Description:

Genre:

Upload Cover Image:

[Add Book](#)

[← Back to Admin Dashboard](#)

7. Future Improvements

- Payment gateway integration
- Book reviews
- Profile pages
- Wishlist
- Filter functionality
- Responsive layout for mobile

8. Conclusion

This project met all the core requirements and provided valuable hands-on experience in web development. It demonstrates backend logic, frontend design, and database integration in a practical e-commerce scenario.