



UNIVERSITY  
of  
TECHNOLOGY,  
MAURITIUS

**Name: Dulmeer Mohammad Zayaan Husain**

**Module: Web Application Development**

**Module code: WAT2133C**

**Student\_ID: 2403\_27699**

**Cohort: BSE/24A/FT1**

**RE-SIT: NO**

**LECTURER: Mr. Yanesh Niljore Saggoonoo**

## *Contents*

|  |     |
|--|-----|
| <b>Introduction</b> .....                            | 2   |
| <b>Task 1: Website Development</b> .....             | 2   |
| Cross-Browser Compatibility.....                     | 2   |
| Responsive Design.....                               | 2   |
| Book Browsing.....                                   | 2   |
| User Registration and Login .....                    | 3   |
| Wishlist.....  | 5   |
| Shopping Cart.....                                   | 5   |
| Order History.....                                   | 6   |
| Admin Site .....                                     | 6   |
| Reviews .....  | 8   |
| Master Pages and User Controls .....                 | 8   |
| Security .....                                       | 9   |
| Data Management .....                                | 10  |
| <b>Task 2: Database Backup and Restoration</b> ..... | 10  |
| Database Backup Schedule .....                       | 10  |
| Database Restoration.....                            | 15  |
| <b>Task 3 – Website Testing and Report</b> .....     | 16  |
| W3C validation:.....                                 | 16  |
| Cross-browser testing: .....                         | 92  |
| Test report:.....                                    | 94  |
| Test Screen: .....                                   | 95  |
| <b>Task 4 – Critical Evaluation</b> .....            | 105 |
| <b>Installation Step</b> .....                       | 106 |
| <b>Conclusion</b> .....                              | 107 |

# *BookSmart Web Application Development Report*

## Introduction

BookSmart, a prominent academic bookstore in Mauritius, seeks to enhance its services through a modern web-based information system. The platform aims to empower students and professionals to browse, purchase, and review academic materials online. This system includes user-friendly interfaces, secure authentication, a responsive shopping cart, and robust administration features.

Three primary roles will use this system:

- **Administrators:** Manage book inventory, customer data, and website operations.
- **Registered Customers:** Register, log in, browse books, make purchases, and review orders.
- **Visitors:** Browse the catalogue and search for books without logging in.

The project leverages ASP.NET Web Forms, HTML5, Bootstrap 5, JavaScript, jQuery, and SQL Server for backend data management.

## Task 1: Website Development

### Cross-Browser Compatibility

The website has been tested and validated on:

- **Google Chrome**
- **Mozilla Firefox**
- **Microsoft Edge**

All layouts, styling, and scripting function consistently across browsers.

### Responsive Design

Bootstrap 5 ensures the website adapts to:

- Desktops ( $\geq 1024 \times 768$ ) with no horizontal scroll
  - Tablets and mobile devices
- Media queries and Bootstrap's grid system maintain layout flexibility.

### Book Browsing

Features implemented:

- Browse books by category
- Search books by keywords
- Display books in responsive grids

- Filtering functionality to refine search results

| ID | Title                 | Author       | Category        | Price   | Image                      | Description                      | Add to Cart                 | Add to Wishlist                 |
|----|-----------------------|--------------|-----------------|---------|----------------------------|----------------------------------|-----------------------------|---------------------------------|
| 1  | ASP.NET Fundamentals  | John Smith   | Programming     | \$25.00 | <a href="#">View Image</a> | <a href="#">View Description</a> | <a href="#">Add to Cart</a> | <a href="#">Add to Wishlist</a> |
| 2  | Bootstrap 5 Guide     | Jane Doe     | Design          | \$50.00 | <a href="#">View Image</a> | <a href="#">View Description</a> | <a href="#">Add to Cart</a> | <a href="#">Add to Wishlist</a> |
| 3  | C# Basics             | David Miller | Programming     | \$80.00 | <a href="#">View Image</a> | <a href="#">View Description</a> | <a href="#">Add to Cart</a> | <a href="#">Add to Wishlist</a> |
| 4  | SQL Server Essentials | Ravi Patel   | Database        | \$25.00 | <a href="#">View Image</a> | <a href="#">View Description</a> | <a href="#">Add to Cart</a> | <a href="#">Add to Wishlist</a> |
| 5  | UI/UX Principles      | Emily Wong   | Design          | \$50.00 | <a href="#">View Image</a> | <a href="#">View Description</a> | <a href="#">Add to Cart</a> | <a href="#">Add to Wishlist</a> |
| 6  | Entity Framework Core | Liam Johnson | Programming     | \$30.00 | <a href="#">View Image</a> | <a href="#">View Description</a> | <a href="#">Add to Cart</a> | <a href="#">Add to Wishlist</a> |
| 7  | HTML5 & CSS3          | Anna Brown   | Web Development | \$15.00 | <a href="#">View Image</a> | <a href="#">View Description</a> | <a href="#">Add to Cart</a> | <a href="#">Add to Wishlist</a> |
| 8  | JavaScript Essentials | Chris Lee    | Programming     | \$60.00 | <a href="#">View Image</a> | <a href="#">View Description</a> | <a href="#">Add to Cart</a> | <a href="#">Add to Wishlist</a> |

Figure 1:Browse Page

A dropdown menu is used for category. Beside it, there is a search bar for users to search for books they want directly.

## User Registration and Login

- **Registration Page:**

Full Name:

Email:

Password:

Country:

Address Line 1:

Address Line 2:

City:

State:

Postal Code:

**Register**

Figure 2: Register Page

After user registration, the user will be redirected to login page automatically.

- **Login Page:**

**Login to BookSmart**

Email:

Password:

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

*Figure 3: Login Page*

In case the user has not create an account, user can click '**Register here**' button which will redirect the user to the register page.

### Password Recovery

**Reset Password**

User found. Please enter your new password below.

Enter your email:

New Password:

Confirm New Password:

*Figure 4: ForgotPassword Page*

To reset password, go to the Forgot Password page to reset the password by entering the user email first. It will then validate if user exists first. A message will be displayed if user is found as shown in the screenshot above. User can then enter new password and confirm new password to see if the password is entered correctly. After password is reset, user will be redirected to login page. A message also will be displayed as shown below:

**Login to BookSmart**

Your password has been reset. Please log in.

Email:

Password:

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

*Figure 5: Redirected to Login Page after reset password*

## Wishlist

### Your Wishlist

| Book Title           | Author     | Price   | Add to Cart | Remove |
|----------------------|------------|---------|-------------|--------|
| ASP.NET Fundamentals | John Smith | \$25.00 |             |        |

Figure 6: Wishlist Page

User can add books to Wishlist. There are both Add to cart button which allows the user to add the book to the cart directly and the remove button to remove the book from the Wishlist.

## Shopping Cart

- Registered users can:
  - Add books to the cart
  - Update quantities
  - Remove items
  - Proceed to checkout

### Your Cart

| Book Title           | Quantity | Price   | Subtotal |   |
|----------------------|----------|---------|----------|---|
| ASP.NET Fundamentals | 1        | \$25.00 | \$25.00  | <a href="#">Edit</a> <a href="#">Delete</a> |

Total: \$25.00

[Proceed to Checkout](#)

Figure 7: Cart Page

The ‘EDIT’ button is used to edit the quantity of books the user wants to buy. Price and subtotal are displayed. Above ‘Proceed to checkout’ button, the total is displayed. The ‘DELETE’ button is used to remove the book from the cart. After clicking ‘Proceed to checkout’ button, user will be redirected to Order confirmation page:

## Confirm Your Order

| Book Title           | Price   | Quantity | Subtotal |
|----------------------|---------|----------|----------|
| ASP.NET Fundamentals | \$25.00 | 1        | \$25.00  |

Total: \$25.00

[Confirm Order](#)

Figure 8: Order confirmation Page

After clicking ‘Confirm order’ button, user will be redirected to Payment page asking the user to enter card number, Card Holder Name and to select payment method though a dropdown menu as shown below:

## Payment Details

Total Amount: \$25.00

Card Number

Card Holder

Payment Method

-- Select --

**Pay Now**

Figure 9: Payment Page

User will be redirected to Order History page after making payment.

## Order History

- Customers can view orders from the past three months.
- Orders displayed in a Grid View with sorting and paging.
- Orders downloadable as PDF using iTextSharp.

### Order History

[Download PDF](#)

| Order # | Date        | Total Amount | Status |
|---------|-------------|--------------|--------|
| 3       | 13 Jul 2025 | \$25.00      | Paid   |
| 1       | 06 Jul 2025 | \$75.00      | Paid   |

[Go to Homepage](#) [Browse More Books](#) [Reset Order History](#)

Figure 10: Order History Page

## Admin Site

- Separate admin area protected by role-based security
- Features:
  - CRUD operations for books
  - Manage categories
  - Manage users
  - View sales reports

Only Admin have accessed to these two pages: Manage Books and Dashboard which is extended to view BookSmart Reports: Monthly revenue, Top selling books and recent reviews.

**Book Inventory**

⚠ Warning: Some books have low stock (5 or fewer).

| ID | Title                    | Author       | Category        | Price   | Stock | <a href="#">Edit</a> | <a href="#">Delete</a> |
|----|--------------------------|--------------|-----------------|---------|-------|----------------------|------------------------|
| 1  | ASP.NET Fundamentals     | John Smith   | Programming     | \$25.00 | 6     | <a href="#">Edit</a> | <a href="#">Delete</a> |
| 2  | Bootstrap 5 Guide        | Jane Doe     | Design          | \$50.00 | 9     | <a href="#">Edit</a> | <a href="#">Delete</a> |
| 3  | C# Basics                | David Miller | Programming     | \$80.00 | 13    | <a href="#">Edit</a> | <a href="#">Delete</a> |
| 4  | SQL Server Essentials    | Ravi Patel   | Database        | \$25.00 | 12    | <a href="#">Edit</a> | <a href="#">Delete</a> |
| 5  | UI/UX Principles         | Emily Wong   | Design          | \$50.00 | 9     | <a href="#">Edit</a> | <a href="#">Delete</a> |
| 6  | Entity Framework Core    | Liam Johnson | Programming     | \$30.00 | 9     | <a href="#">Edit</a> | <a href="#">Delete</a> |
| 7  | HTML5 & CSS3             | Anna Brown   | Web Development | \$15.00 | 11    | <a href="#">Edit</a> | <a href="#">Delete</a> |
| 8  | JavaScript Essentials    | Chris Lee    | Programming     | \$60.00 | 10    | <a href="#">Edit</a> | <a href="#">Delete</a> |
| 9  | React for Beginners      | Sophia Green | Web Development | \$35.00 | 7     | <a href="#">Edit</a> | <a href="#">Delete</a> |
| 10 | Research Methodology     | John Doe     | Academic        | \$45.00 | 10    | <a href="#">Edit</a> | <a href="#">Delete</a> |
| 24 | Statistics for Beginners | Jane Smith   | Academic        | \$35.50 | 15    | <a href="#">Edit</a> | <a href="#">Delete</a> |

**Add New Book**

|                                    |                                     |                                       |                                    |                                    |                     |
|------------------------------------|-------------------------------------|---------------------------------------|------------------------------------|------------------------------------|---------------------|
| <input type="text" value="Title"/> | <input type="text" value="Author"/> | <input type="text" value="Category"/> | <input type="text" value="Price"/> | <input type="text" value="Stock"/> | <a href="#">Add</a> |
|------------------------------------|-------------------------------------|---------------------------------------|------------------------------------|------------------------------------|---------------------|

Figure 11: Manage Book Page

To manage books. Edit price, stock, Title, Author and category. Delete to remove books.

At the end of the page, the section Add New Book allows admin to enter new book in the gridview.



Figure 12: Dashboard Page

The admin dashboard allows the admin to view total books, total users, total orders and revenue.

The button ‘View Full Reports’ extend to Reports.aspx. This page allows the admin to view the BookSmart report:

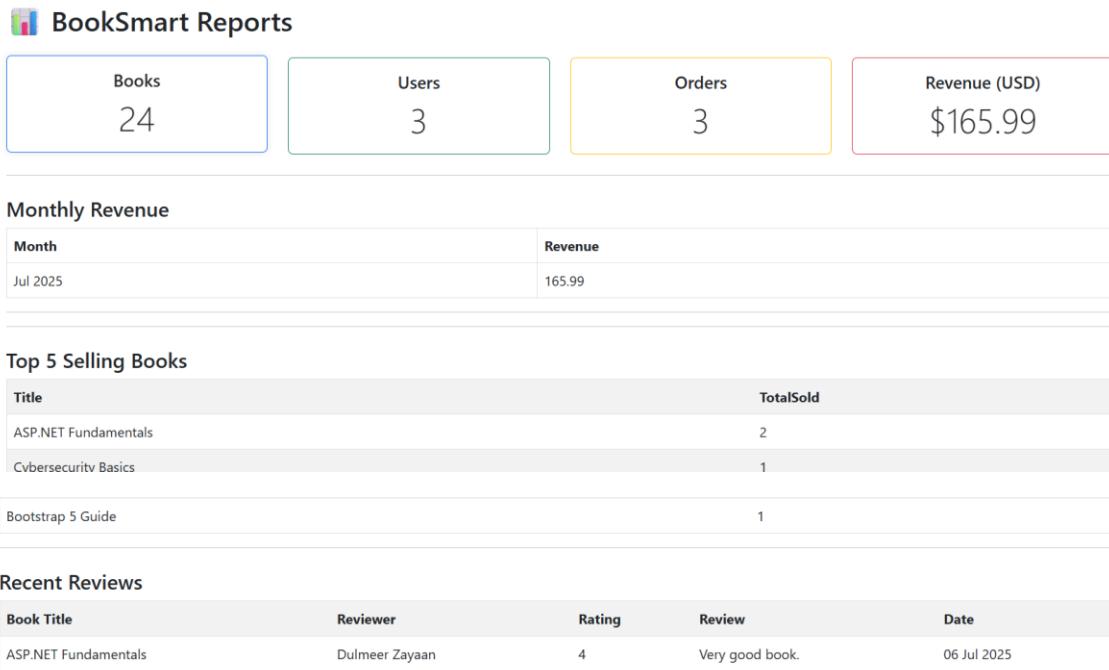


Figure 13: Reports Page found in the Dashboard

## Reviews

User can enter their review on any books they have bought from the BookSmart website:

### Book Reviews

Select Book:

Rating:

Review:

**Submit Review**

| User           | Rating | Review          | Date        |
|----------------|--------|-----------------|-------------|
| Dulmeer Zayaan | 4      | Very good book. | 06 Jul 2025 |

Figure 14: Reviews Page

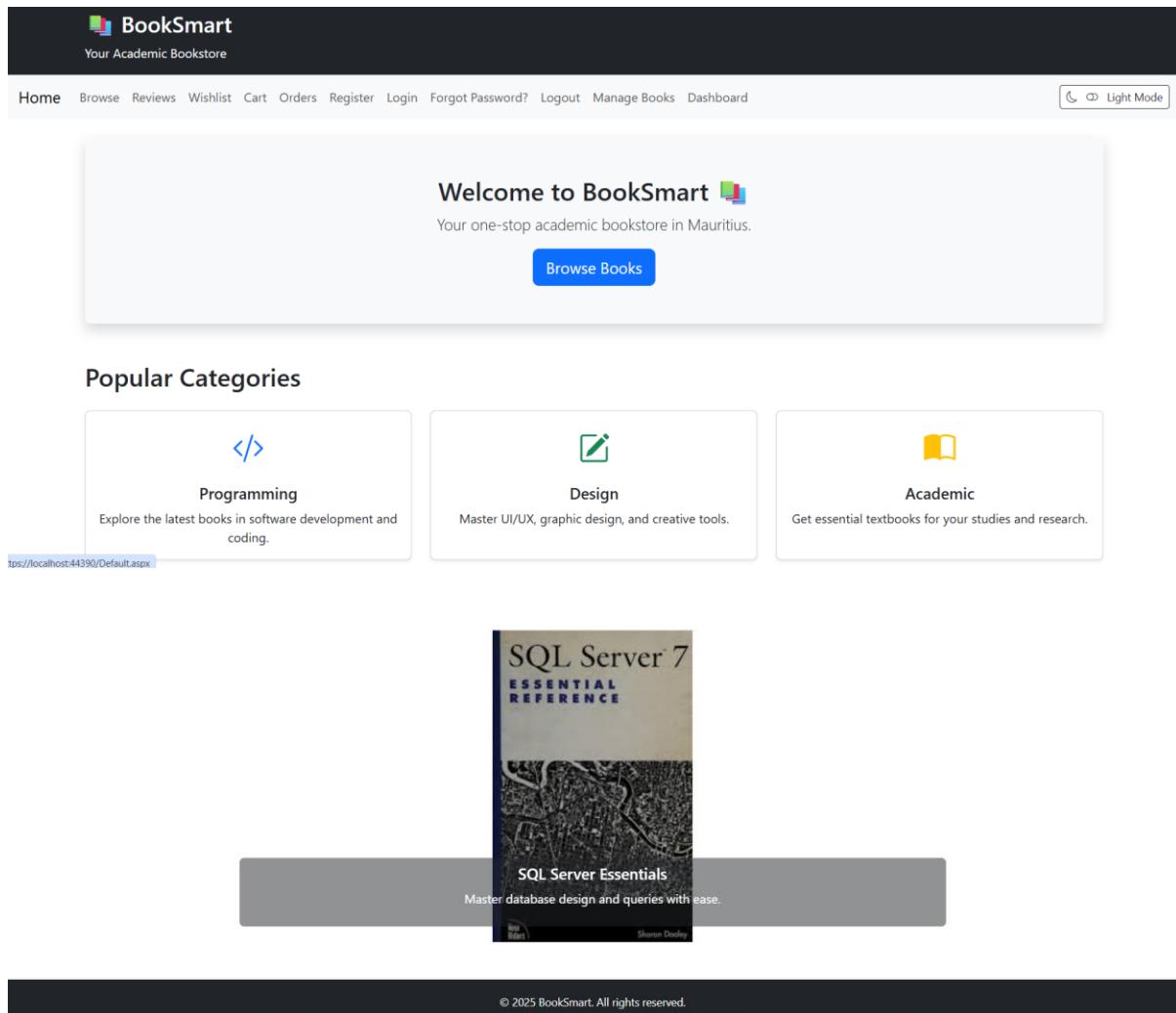
User can view their review below the submit button in a grid view.

## Master Pages and User Controls

Implemented for consistent design:

- **Master Page:** Header, menu, footer
- **User Controls:**
  - Navigation bar

- Login panel
- Shopping cart



*Figure 15: Home Page*

Carousel is used to display these books below the home page. For the popular categories, when the user clicks on any block, it will redirect the user to Browsebook page automatically filtering the book category for example: Programming, displaying all books with the category programming.

There is also an additional feature that is light mode and dark mode.

## Security

- ASP.NET role-based security controls:
  - Administrators
  - Registered customers
  - Anonymous users
- Secure authentication and authorization via membership provider
- Secure SQL parameterized queries to prevent SQL injection

## Data Management

CRUD implemented using:

- ADO.NET
- SQL Server
- Data controls:
  - GridView
  - DetailsView
  - FormView
- Stored Procedures to improve performance and security.

## Task 2: Database Backup and Restoration

### Database Backup Schedule

- SQL Server Agent job created to run daily backups at **2:00 AM**, excluding Sundays.
- **Backup stored in:**  
C:\Program Files\Microsoft SQL Server\MSSQL16.SQLSERVER\MSSQL\Backup
- Job configured to:
  - Email admin if the backup fails (Database Mail setup via SQL Server)
- Steps for database backup:

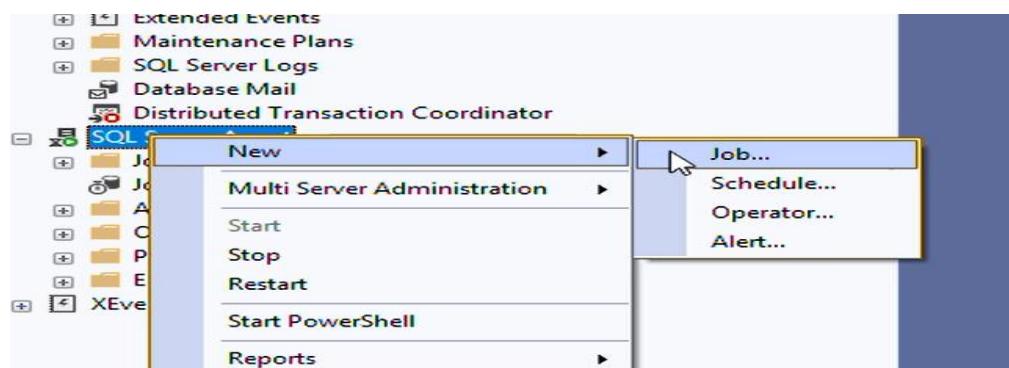


Figure 16

Right Click on SQL Server Agent → New → Job.

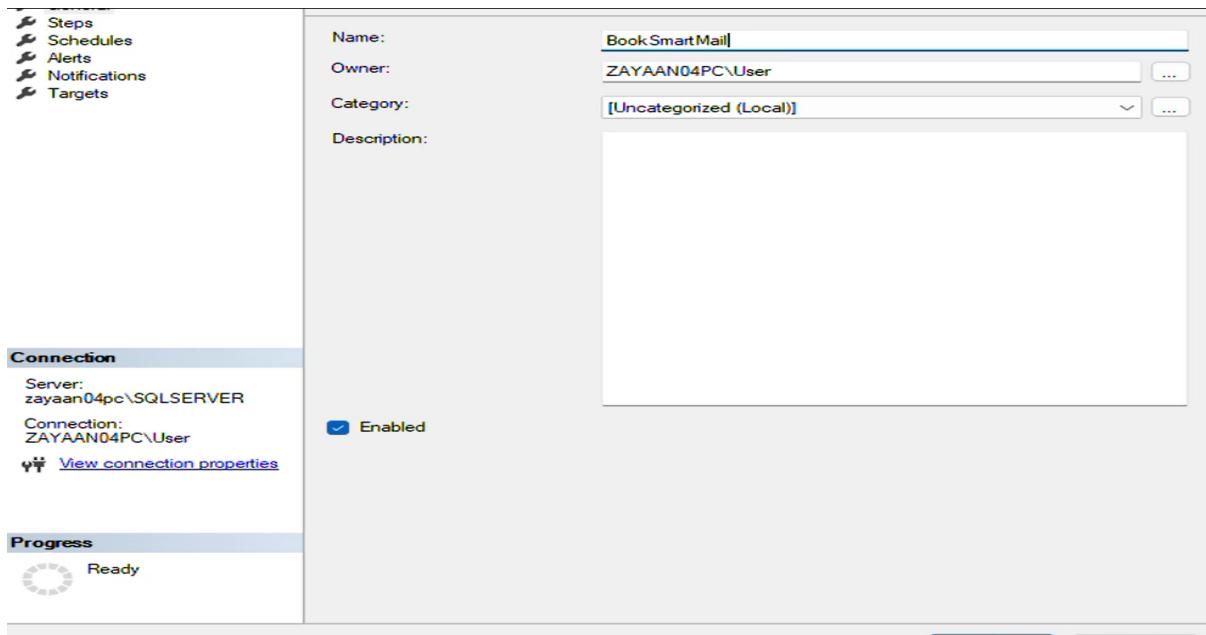


Figure 17

Give the name BookSmartMailProfile. Next go to Steps found on 'Select a page':

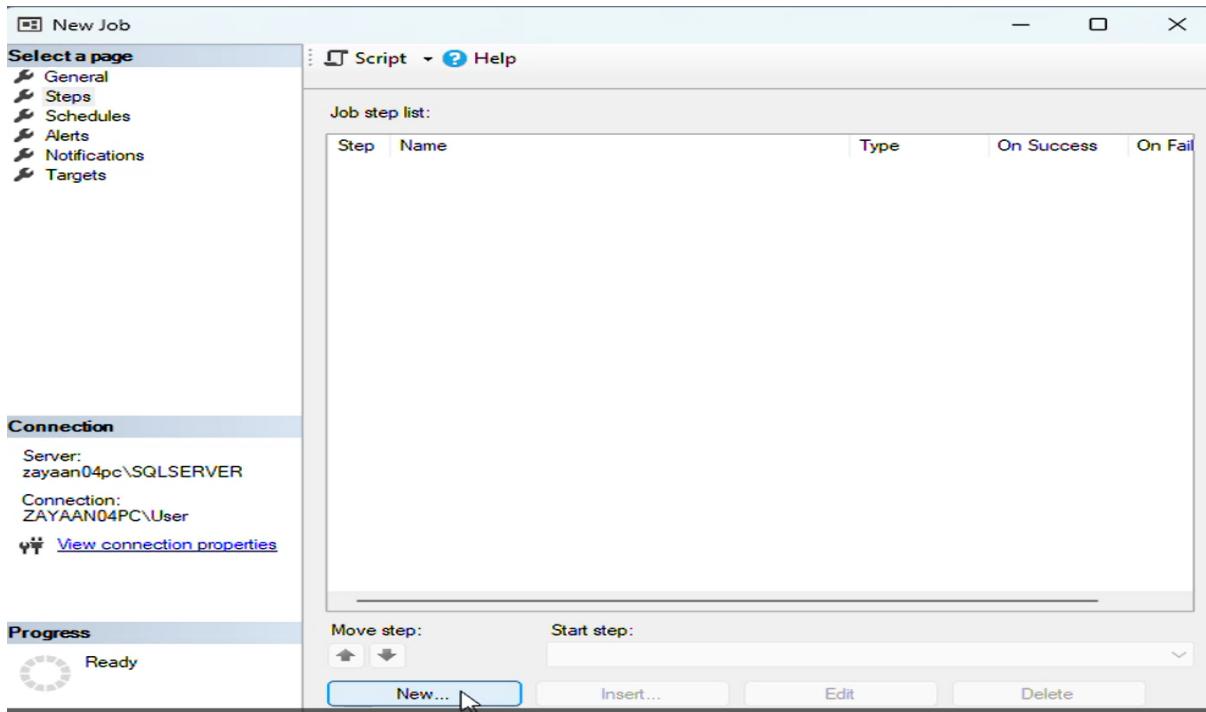


Figure 18

Click New.

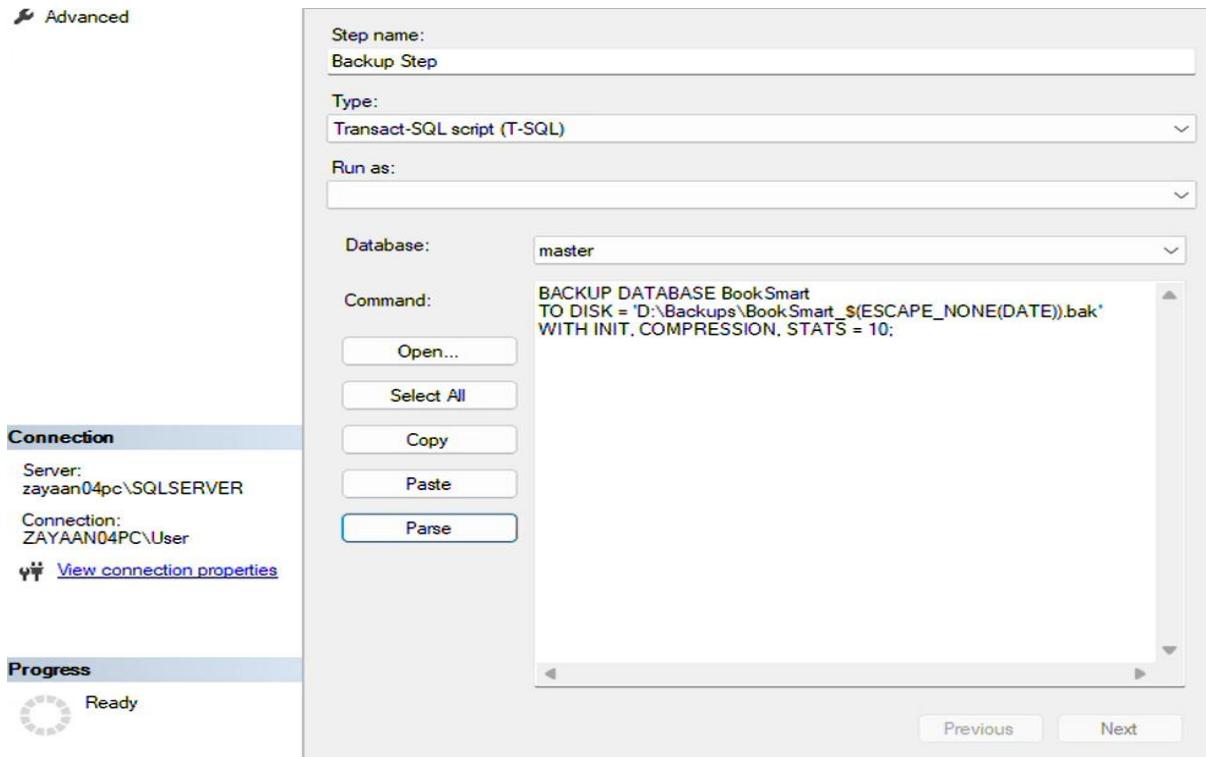


Figure 19

Click parse after entering the step name and command. Then click ok.

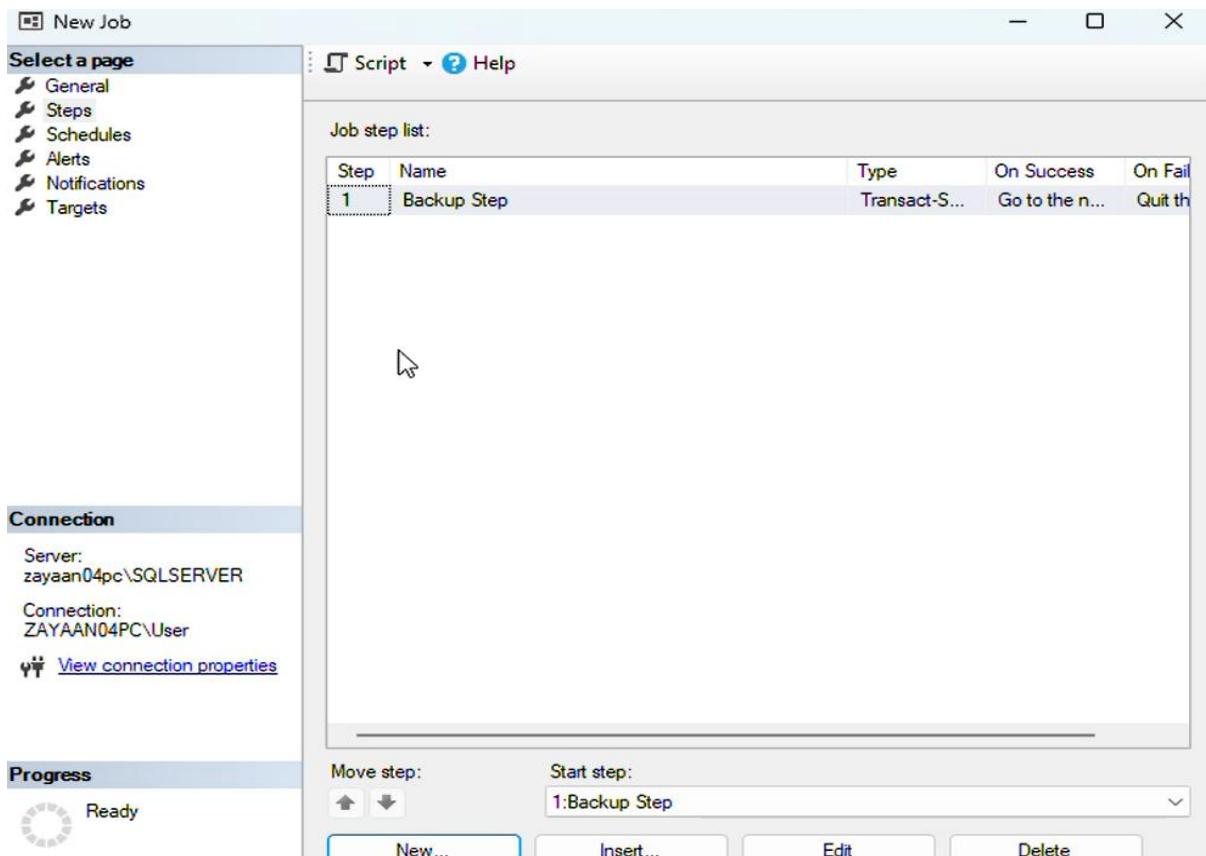


Figure 20

Backup Step created on Job Step List.

Next go to Schedules and click on New:

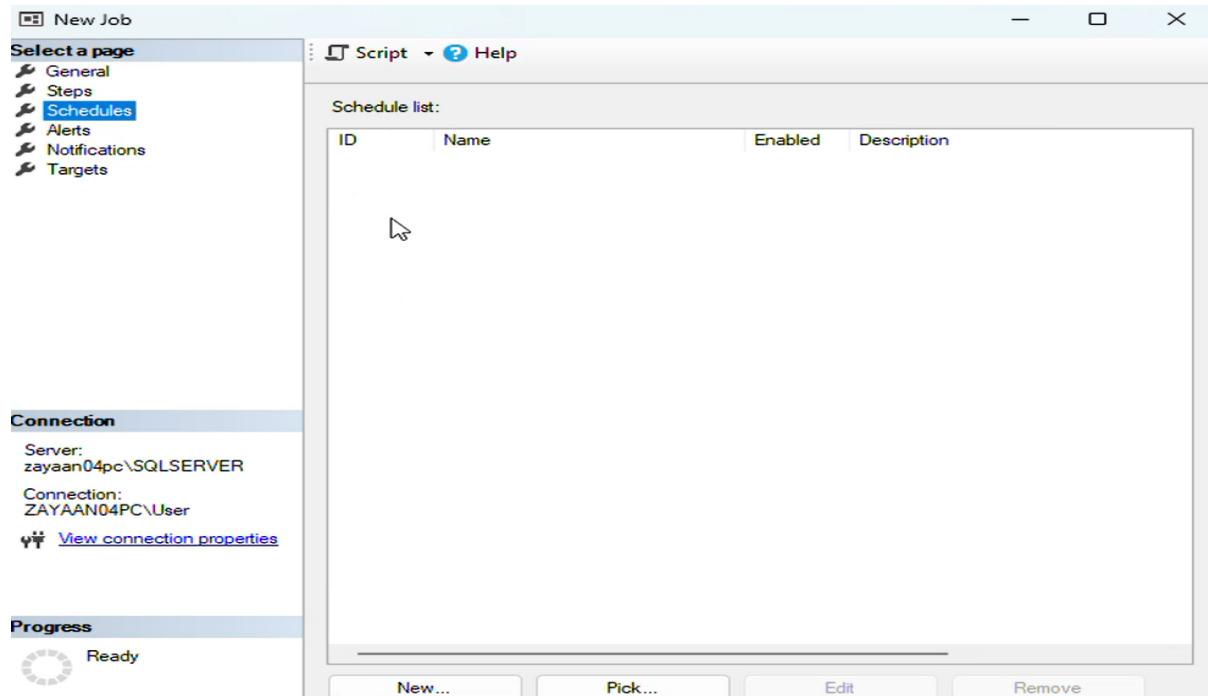


Figure 21

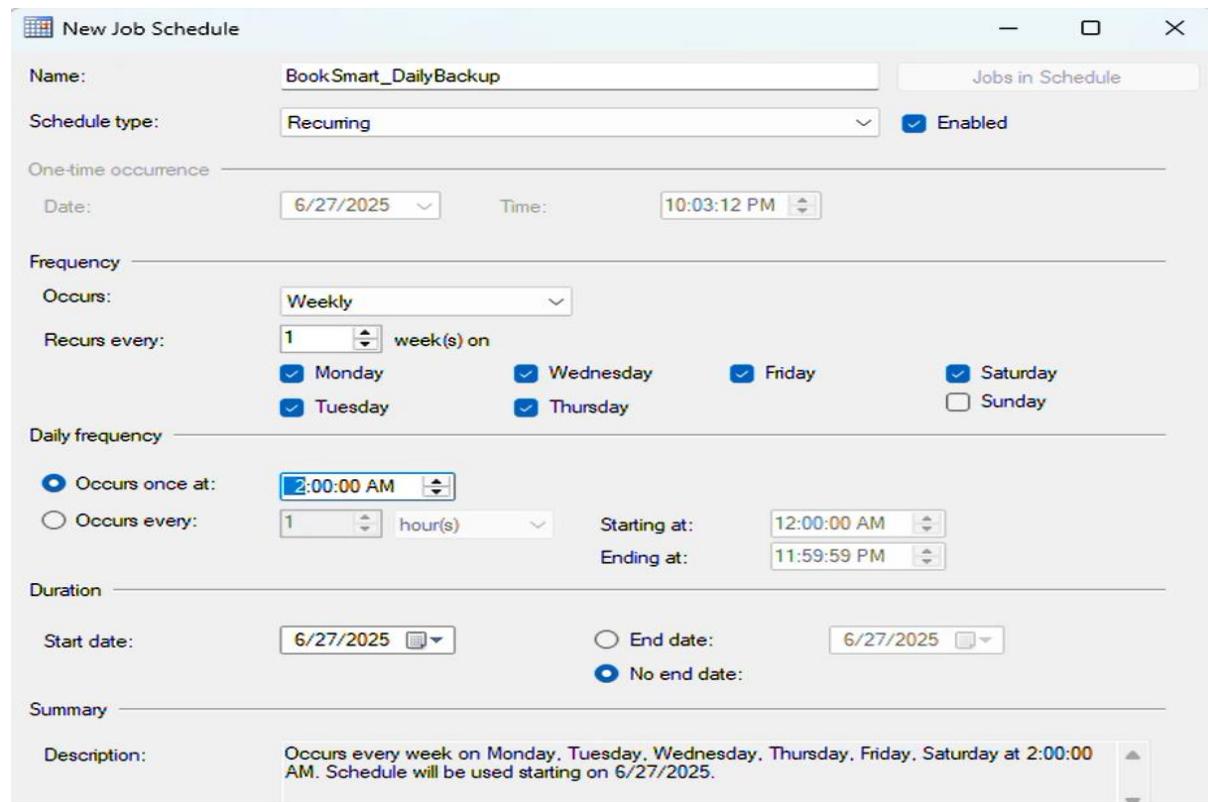


Figure 22

Name it as BookSmart\_DailyBackup, Schedule type: Recurring, checked the Enabled, Frequency: Weekly, Checked Monday to Saturday only. Daily Frequency: Occurs once at 2.00 AM. Then click Ok. New Job Schedule created successfully:

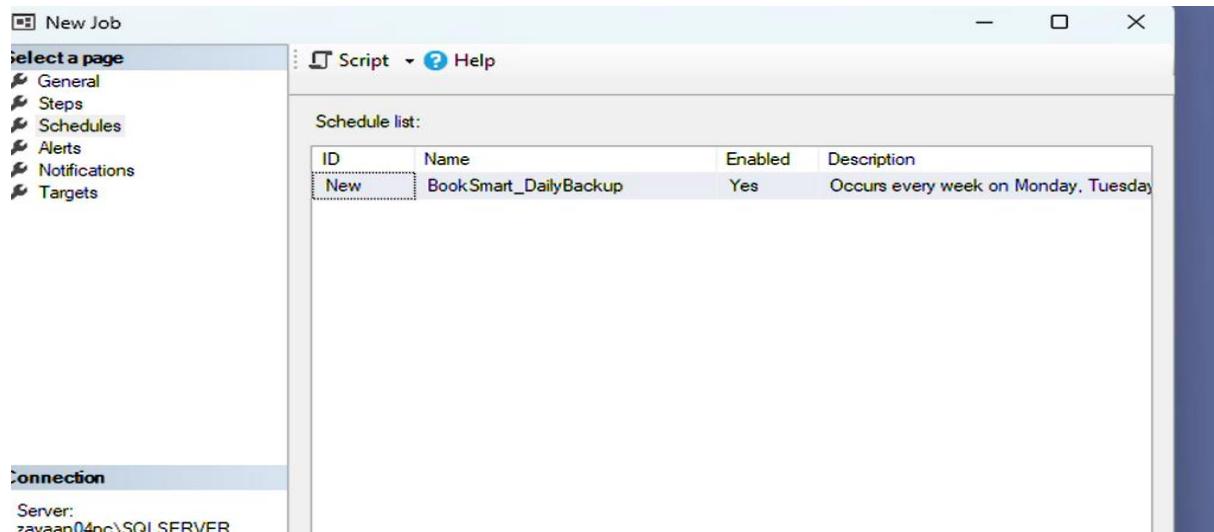


Figure 23

Next go to Notifications, enable email when the jobs fail:

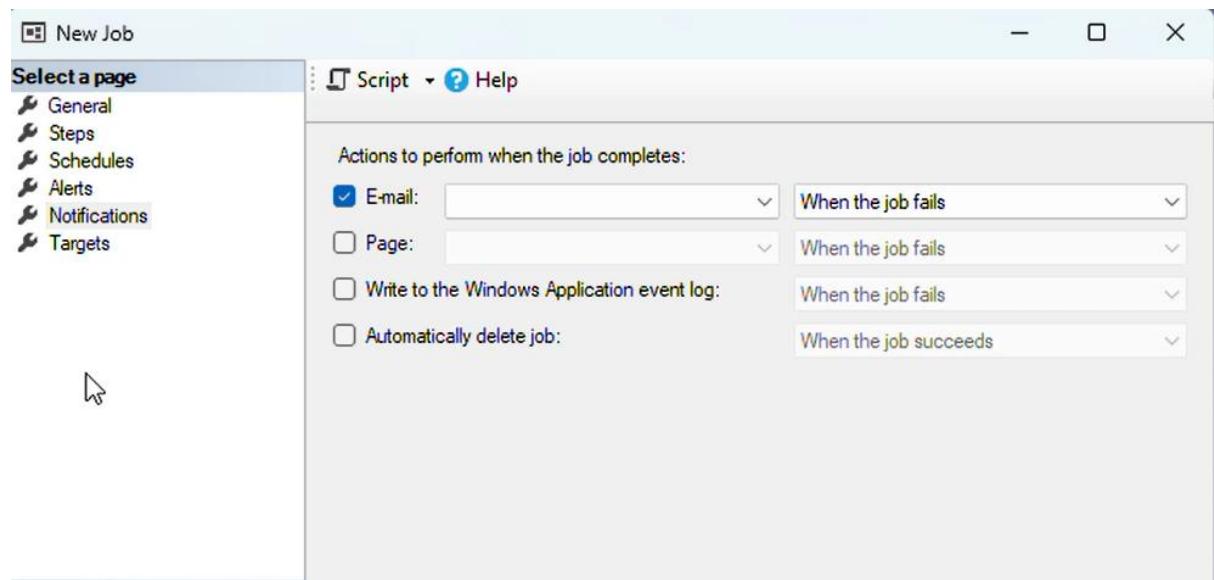


Figure 24

Lastly click ok to finish.

Created successfully:

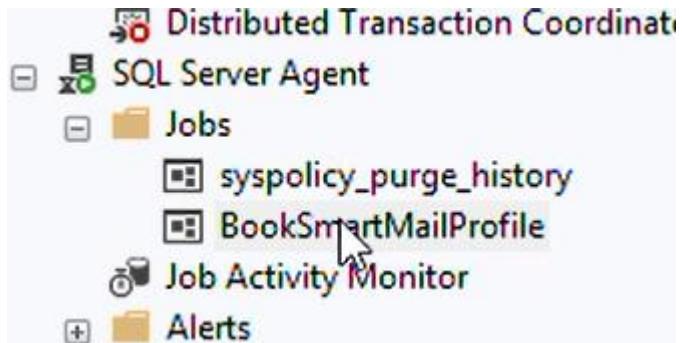


Figure 25

## Database Restoration

Restoration process:

Right click on Database → Restore Database

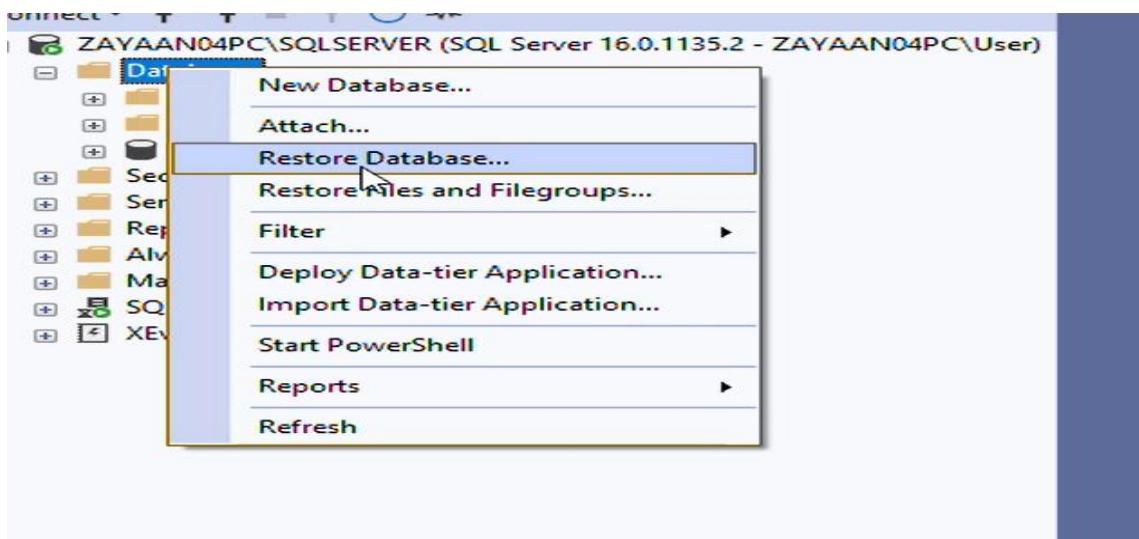


Figure 26

On destination Click on BookSmart and for Database click On BookSmart:

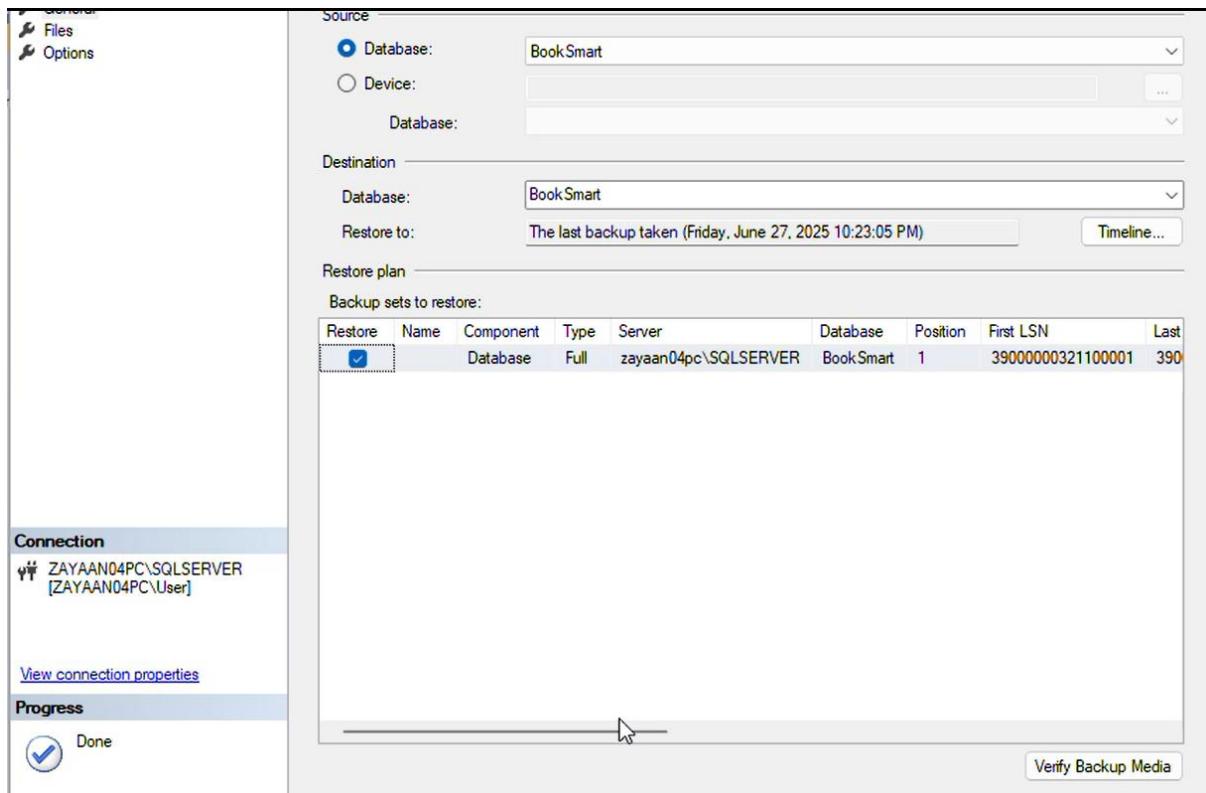


Figure 27

Click ok. Database is restored.

## Task 3 – Website Testing and Report

W3C validation:

- Master page:

1. **Warning** Consider adding a `lang` attribute to the `html` start tag to declare the language of this document.  
From line 1, column 1 to line 1, column 2  
 Mast  
For further guidance, consult [Declaring the overall language of a page](#) and [Choosing language tags](#).  
If the HTML checker has misidentified the language of this document, please [file an issue report](#) or [send e-mail to report the problem](#).

2. **Error** Bad character % after <. Probable cause: Unescaped <. Try escaping it as &lt;.  
At line 1, column 2  
 Master Langu

3. **Error** Non-space characters found without seeing a doctype first. Expected <!DOCTYPE html>.  
From line 1, column 1 to line 1, column 2  
 Mast

4. **Error** Element `head` is missing a required instance of child element `title`.  
From line 1, column 1 to line 1, column 2  
 Mast  
Content model for element `head`:  
If the document is an [iframe srcdoc document](#) or if title information is available from a higher-level protocol: Zero or more elements of `metadata content`, of which no more than one is a `title` element and no more than one is a `base` element.  
Otherwise: One or more elements of `metadata content`, of which exactly one is a `title` element and no more than one is a `base` element.

5. **Error** Stray doctype.  
From line 3, column 1 to line 3, column 15  
you" %><%><!DOCTYPE html><%><html>

|     |   |
|-----|---|
| 6.  | <b>Error</b> Stray start tag <code>html</code> .<br>From line 4, column 1; to line 4, column 6<br>YPE <code>html&gt;&lt;html&gt;&lt;head&gt;</code>   |
| 7.  | <b>Error</b> Stray start tag <code>head</code> .<br>From line 5, column 1; to line 5, column 21<br><code>l&gt;&lt;html&gt;&lt;head runat="server"&gt;&lt;/head&gt;</code>   |
| 8.  | <b>Error</b> Element <code>title</code> not allowed as child of element <code>body</code> in this context. (Suppressing further errors from this subtree.)<br>From line 6, column 5; to line 6, column 11<br><code>ver"&gt;&lt;title&gt;BookSm</code><br>Contexts in which element <code>title</code> may be used:<br>In a <code>head</code> element containing no other <code>title</code> elements.<br>Content model for element <code>body</code> :<br><a href="#">Flow content</a> .  |
| 9.  | <b>Info</b> Trailing slash on void elements has no effect and interacts badly with unquoted attribute values.<br>From line 7, column 5; to line 7, column 108<br><code>title&gt;&lt;link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css" rel="stylesheet" /&gt;&lt;</code>   |
| 10. | <b>Info</b> Trailing slash on void elements has no effect and interacts badly with unquoted attribute values.<br>From line 8, column 5; to line 8, column 113<br><code>t" /&gt;&lt;link href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.10.5/font/bootstrap-icons.css" rel="stylesheet" /&gt;&lt;</code>   |
| 11. | <b>Info</b> Trailing slash on void elements has no effect and interacts badly with unquoted attribute values.<br>From line 11, column 5; to line 11, column 51<br><code>ript&gt;&lt;link href="/css/style.css" rel="stylesheet" /&gt;&lt;</code>  |
| 12. | <b>Info</b> Trailing slash on void elements has no effect and interacts badly with unquoted attribute values.<br>From line 12, column 5; to line 12, column 51<br><code>t" /&gt;&lt;link href="~/css/site.css" rel="stylesheet" /&gt;&lt;/hea</code>  |
| 13. | <b>Error</b> Stray end tag <code>head</code> .<br>From line 13, column 1; to line 13, column 7<br><code>sheet" /&gt;&lt;/head&gt;&lt;body&gt;</code>  |
| 14. | <b>Error</b> Start tag <code>body</code> seen but an element of the same type was already open.<br>From line 14, column 1; to line 14, column 6<br><code>&gt;&lt;/head&gt;&lt;body&gt;&lt;</code>   |
| 15. | <b>Error</b> Attribute <code>runat</code> not allowed on element <code>form</code> at this point.<br>From line 15, column 5; to line 15, column 36<br><code>body&gt;&lt;form id="form1" runat="server"&gt;</code><br>Attributes for element <code>form</code> :<br><a href="#">Global attributes</a><br><code>accept-charset</code> — Character encodings to use for <a href="#">form submission</a><br><code>action</code> — <a href="#">URL</a> to use for <a href="#">form submission</a><br><code>autocomplete</code> — Default setting for autofill feature for controls in the form<br><code>enctype</code> — <a href="#">Entry list</a> encoding type to use for <a href="#">form submission</a><br><code>method</code> — Variant to use for <a href="#">form submission</a><br><code>name</code> — Name of form to use in the <a href="#">document.forms</a> API<br><code>novalidate</code> — Bypass form control validation for <a href="#">form submission</a><br><code>target</code> — <a href="#">Navigable</a> for <a href="#">form submission</a><br><code>rel</code> |

16. **Warning** Element name `asp:hyperlink` cannot be represented as XML 1.0.  
 From line 34, column 29; to line 34, column 130  
`<asp:HyperLink ID="hlBrowse" runat="server" CssClass="nav-link" NavigateUrl "~/User/BrowseBooks.aspx">Browse`
17. **Error** Element `asp:hyperlink` not allowed as child of element `li` in this context. (Suppressing further errors from this subtree.)  
 From line 34, column 29; to line 34, column 130  
`<asp:HyperLink ID="hlBrowse" runat="server" CssClass="nav-link" NavigateUrl "~/User/BrowseBooks.aspx">Browse`  
 Content model for element `li`:  
[Flow content.](#)
18. **Warning** Element name `asp:hyperlink` cannot be represented as XML 1.0.  
 From line 37, column 29; to line 37, column 127  
`<asp:HyperLink ID="hlReviews" runat="server" CssClass="nav-link" NavigateUrl "~/User/Reviews.aspx">Review`
19. **Error** Element `asp:hyperlink` not allowed as child of element `li` in this context. (Suppressing further errors from this subtree.)  
 From line 37, column 29; to line 37, column 127  
`<asp:HyperLink ID="hlReviews" runat="server" CssClass="nav-link" NavigateUrl "~/User/Reviews.aspx">Review`  
 Content model for element `li`:  
[Flow content.](#)
20. **Warning** Element name `asp:hyperlink` cannot be represented as XML 1.0.  
 From line 40, column 29; to line 40, column 129  
`<asp:HyperLink ID="hlWishlist" runat="server" CssClass="nav-link" NavigateUrl "~/User/Wishlist.aspx">Wishli`
21. **Error** Element `asp:hyperlink` not allowed as child of element `li` in this context. (Suppressing further errors from this subtree.)  
 From line 40, column 29; to line 40, column 129  
`<asp:HyperLink ID="hlWishlist" runat="server" CssClass="nav-link" NavigateUrl "~/User/Wishlist.aspx">Wishli`  
 Content model for element `li`:  
[Flow content.](#)
22. **Warning** Element name `asp:hyperlink` cannot be represented as XML 1.0.  
 From line 43, column 29; to line 43, column 121  
`<asp:HyperLink ID="hlCart" runat="server" CssClass="nav-link" NavigateUrl "~/User/Cart.aspx">Cart</`
23. **Error** Element `asp:hyperlink` not allowed as child of element `li` in this context. (Suppressing further errors from this subtree.)  
 From line 43, column 29; to line 43, column 121  
`<asp:HyperLink ID="hlCart" runat="server" CssClass="nav-link" NavigateUrl "~/User/Cart.aspx">Cart</`  
 Content model for element `li`:  
[Flow content.](#)
24. **Warning** Element name `asp:hyperlink` cannot be represented as XML 1.0.  
 From line 46, column 29; to line 46, column 131  
`<asp:HyperLink ID="hlOrders" runat="server" CssClass="nav-link" NavigateUrl "~/User/OrderHistory.aspx">Orders`
25. **Error** Element `asp:hyperlink` not allowed as child of element `li` in this context. (Suppressing further errors from this subtree.)  
 From line 46, column 29; to line 46, column 131  
`<asp:HyperLink ID="hlOrders" runat="server" CssClass="nav-link" NavigateUrl "~/User/OrderHistory.aspx">Orders`  
 Content model for element `li`:  
[Flow content.](#)

- **Default.aspx:**

1. **Warning** Consider adding a `lang` attribute to the `html` start tag to declare the language of this document.  
From line 1, column 1; to line 1, column 2  
`<%@ Page`  
For further guidance, consult [Declaring the overall language of a page](#) and [Choosing language tags](#).  
If the HTML checker has misidentified the language of this document, please [file an issue report](#) or [send e-mail to report the problem](#).
2. **Error** Bad character % after <. Probable cause: Unescaped <. Try escaping it as &lt;.  
At line 1, column 2  
`<%@ Page Title=""`
3. **Error** Non-space characters found without seeing a doctype first. Expected <!DOCTYPE html>.  
From line 1, column 1; to line 1, column 2  
`<%@ Page`
4. **Error** Element `head` is missing a required instance of child element `title`.  
From line 1, column 1; to line 1, column 2  
`<%@ Page`  
Content model for element `head`:  
If the document is [an iFrame srcdoc document](#) or if title information is available from a higher-level protocol: Zero or more elements of `metadata content`, of which no more than one is a `title` element and no more than one is a `base` element.  
Otherwise: One or more elements of `metadata content`, of which exactly one is a `title` element and no more than one is a `base` element.
5. **Warning** Element name `asp:content` cannot be represented as XML 1.0.  
From line 3, column 1; to line 3, column 85  
`ault" %><asp:Content ID="Content1" ContentPlaceHolderID="ContentPlaceHolder1" runat="server"><`
6. **Error** Element `asp:content` not allowed as child of element `body` in this context. (Suppressing further errors from this subtree.)  
From line 3, column 1; to line 3, column 85  
`>ault" %><asp:Content ID="Content1" ContentPlaceHolderID="ContentPlaceHolder1" runat="server"><`  
Content model for element `body`:  
`Flow content.`
7. **Warning** Element name `asp:hyperlink` cannot be represented as XML 1.0.  
From line 7, column 9; to line 7, column 146  
`><asp:HyperLink ID="hlBrowse" runat="server" NavigateUrl "~/User/BrowseBooks.aspx" CssClass="btn btn-primary btn-lg" Text="Browse Books" /><`
8. **Error** Self-closing syntax (/>) used on a non-void HTML element. Ignoring the slash and treating as a start tag.  
From line 7, column 9; to line 7, column 146  
`><asp:HyperLink ID="hlBrowse" runat="server" NavigateUrl "~/User/BrowseBooks.aspx" CssClass="btn btn-primary btn-lg" Text="Browse Books" /><`
9. **Error** End tag `div` seen, but there were open elements.  
From line 8, column 5; to line 8, column 10  
`s" /></div><`
10. **Error** Unclosed element `asp:hyperlink`.  
From line 7, column 9; to line 7, column 146  
`><asp:HyperLink ID="hlBrowse" runat="server" NavigateUrl "~/User/BrowseBooks.aspx" CssClass="btn btn-primary btn-lg" Text="Browse Books" /><`
11. **Error** No space between attributes.  
At line 14, column 42  
`%= ResolveUrl("~/User/BrowseBo`

|     |  |
|-----|--|
| 12. | <b>Error</b> A slash was not immediately followed by >.<br>At line 14, column 44<br><code>ResolveUrl("~/User/BrowseBook")</code>   |
| 13. | <b>Error</b> A slash was not immediately followed by >.<br>At line 14, column 49<br><code>lveUrl("~/User/BrowseBooks.asp")</code>  |
| 14. | <b>Error</b> " in an unquoted attribute value. Probable causes: Attributes running together or a URL query string in an unquoted attribute value.<br>At line 14, column 86<br><code>ory=Programming") %&gt;" class="t</code>                   |
| 15. | <b>Warning</b> Attribute ~ is not serializable as XML 1.0.<br>From line 14, column 17, to line 14, column 90<br><code>&lt;a href="&lt;%= ResolveUrl("~/User/BrowseBooks.aspx?category=Programming") %&gt;" clas</code>                         |
| 16. | <b>Warning</b> Attribute browsebooks.aspx?category is not serializable as XML 1.0.<br>From line 14, column 17, to line 14, column 90<br><code>&lt;a href="&lt;%= ResolveUrl("~/User/BrowseBooks.aspx?category=Programming") %&gt;" clas</code> |
| 17. | <b>Warning</b> Attribute % is not serializable as XML 1.0.<br>From line 14, column 17, to line 14, column 90<br><code>&lt;a href="&lt;%= ResolveUrl("~/User/BrowseBooks.aspx?category=Programming") %&gt;" clas</code>                         |
| 18. | <b>Error</b> No space between attributes.<br>At line 25, column 42<br><code>%= ResolveUrl("~/User/BrowseBo</code>  |
| 19. | <b>Error</b> A slash was not immediately followed by >.<br>At line 25, column 44<br><code>ResolveUrl("~/User/BrowseBook")</code>   |
| 20. | <b>Error</b> A slash was not immediately followed by >.<br>At line 25, column 49<br><code>lveUrl("~/User/BrowseBooks.asp")</code>  |
| 21. | <b>Error</b> " in an unquoted attribute value. Probable causes: Attributes running together or a URL query string in an unquoted attribute value.<br>At line 25, column 81<br><code>category=Design") %&gt;" class="t</code>                   |
| 22. | <b>Warning</b> Attribute ~ is not serializable as XML 1.0.<br>From line 25, column 17, to line 25, column 85<br><code>&lt;a href="&lt;%= ResolveUrl("~/User/BrowseBooks.aspx?category=Design") %&gt;" clas</code>                              |
| 23. | <b>Warning</b> Attribute browsebooks.aspx?category is not serializable as XML 1.0.<br>From line 25, column 17, to line 25, column 85<br><code>&lt;a href="&lt;%= ResolveUrl("~/User/BrowseBooks.aspx?category=Design") %&gt;" clas</code>      |
| 24. | <b>Warning</b> Attribute % is not serializable as XML 1.0.<br>From line 25, column 17, to line 25, column 85<br><code>&lt;a href="&lt;%= ResolveUrl("~/User/BrowseBooks.aspx?category=Design") %&gt;" clas</code>                              |

|     |  |
|-----|--|
| 25. | <b>Error</b> No space between attributes.<br>At line 36, column 42<br><pre>%= ResolveUrl("~/User/BrowseBo</pre>  |
| 26. | <b>Error</b> A slash was not immediately followed by <>.<br>At line 36, column 44<br><pre>ResolveUrl("~/User/BrowseBook</pre>  |
| 27. | <b>Error</b> A slash was not immediately followed by <>.<br>At line 36, column 49<br><pre>lveUrl("~/User/BrowseBooks.asp</pre>   |
| 28. | <b>Error</b> " " in an unquoted attribute value. Probable causes: Attributes running together or a URL query string in an unquoted attribute value.<br>At line 36, column 83<br><pre>tegory=Academic") %&gt;" class="t</pre>             |
| 29. | <b>Warning</b> Attribute ~ is not serializable as XML 1.0.<br>From line 36, column 17; to line 36, column 87<br><pre>&lt;a href="&lt;% ResolveUrl("~/User/BrowseBooks.aspx?category=Academic") %&gt;" clas</pre>                         |
| 30. | <b>Warning</b> Attribute browsebooks.aspx?category is not serializable as XML 1.0.<br>From line 36, column 17; to line 36, column 87<br><pre>&lt;a href="&lt;% ResolveUrl("~/User/BrowseBooks.aspx?category=Academic") %&gt;" clas</pre> |
| 31. | <b>Warning</b> Attribute % is not serializable as XML 1.0.<br>From line 36, column 17; to line 36, column 87<br><pre>&lt;a href="&lt;% ResolveUrl("~/User/BrowseBooks.aspx?category=Academic") %&gt;" clas</pre>                         |

- **BrowseBooks.aspx:**

1. **Warning**: Consider adding a `lang` attribute to the `html` start tag to declare the language of this document.
  - [From line 1, column 1; to line 1, column 2](#)
  - [%@ Page](#)
  - For further guidance, consult [Declaring the overall language of a page](#) and [Choosing language tags](#).
  - If the HTML checker has misidentified the language of this document, please [file an issue report](#) or [send e-mail to report the problem](#).
2. **Error**: Bad character % after <. Probable cause: Unescaped <. Try escaping it as &lt;.
  - [At line 1, column 2](#)
  - [%@ Page Languag](#)
3. **Error**: Non-space characters found without seeing a doctype first. Expected <!DOCTYPE.
  - [From line 1, column 1; to line 1, column 2](#)
  - [%@ Page](#)
4. **Error**: Element `head` is missing a required instance of child element `title`.
  - [From line 1, column 1; to line 1, column 2](#)
  - [%@ Page](#)
  - Content model for element `head`:
  - If the document is [an iframe srcdoc document](#) or if title information is available from a higher-level protocol: Zero or more elements of [metadata content](#), of which no more than one is a `title` element and no more than one is a `base` element.

- e. Otherwise: One or more elements of [metadata content](#), of which exactly one is a [title](#) element and no more than one is a [base](#) element.

**5. Warning:** Element name `asp:content` cannot be represented as XML 1.0.

- a. [From line 3, column 1; to line 3, column 85](#)
- b. `ster" %>↔<asp:Content ID="Content1"`  
`ContentPlaceHolderID="ContentPlaceHolder1" runat="server">↔ <`

**6. Error:** Element `asp:content` not allowed as child of element `body` in this context.  
(Suppressing further errors from this subtree.)

- a. [From line 3, column 1; to line 3, column 85](#)
- b. `ster" %>↔<asp:Content ID="Content1"`  
`ContentPlaceHolderID="ContentPlaceHolder1" runat="server">↔ <`
- c. Content model for element [body](#):
- d. [Flow content](#).

**7. Warning:** Element name `asp:dropdownlist` cannot be represented as XML 1.0.

- a. [From line 8, column 13; to line 8, column 163](#)
- b. `<asp:DropDownList ID="ddlCategory" runat="server" CssClass="form-select" AutoPostBack="true"`  
`OnSelectedIndexChanged="ddlCategory_SelectedIndexChanged">↔`

**8. Warning:** Element name `asp:listitem` cannot be represented as XML 1.0.

- a. [From line 9, column 17; to line 9, column 69](#)
- b. `<asp:ListItem Text="-- All Categories --" Value="" />↔`

**9. Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- a. [From line 9, column 17; to line 9, column 69](#)
- b. `<asp:ListItem Text="-- All Categories --" Value="" />↔`

**10. Error:** End tag `asp:dropdownlist` seen, but there were open elements.

- a. [From line 10, column 13; to line 10, column 31](#)
- b. `</asp:DropDownList>↔`

**11. Error:** Unclosed element `asp:listitem`.

- a. [From line 9, column 17; to line 9, column 69](#)
- b. `<asp:ListItem Text="-- All Categories --" Value="" />↔`

**12. Warning:** Element name `asp:textbox` cannot be represented as XML 1.0.

- a. [From line 13, column 13; to line 13, column 111](#)
- b. `<asp:TextBox ID="txtSearch" runat="server" CssClass="form-control" placeholder="Search books..." />↔`

13. **Error:** Self-closing syntax (/>) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. From line 13, column 13; to line 13, column 111

b. `<asp:TextBox ID="txtSearch" runat="server" CssClass="form-control" placeholder="Search books..." />`

14. **Error:** End tag `div` seen, but there were open elements.

a. From line 14, column 9; to line 14, column 14

b. `> </div>`

15. **Error:** Unclosed element `asp:textbox`.

a. From line 13, column 13; to line 13, column 111

b. `<asp:TextBox ID="txtSearch" runat="server" CssClass="form-control" placeholder="Search books..." />`

16. **Warning:** Element name `asp:button` cannot be represented as XML 1.0.

a. From line 16, column 13; to line 16, column 129

b. `<asp:Button ID="btnSearch" runat="server" Text="Search" CssClass="btn btn-primary w-100" OnClick="btnSearch_Click" />`

17. **Error:** Self-closing syntax (/>) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. From line 16, column 13; to line 16, column 129

b. `<asp:Button ID="btnSearch" runat="server" Text="Search" CssClass="btn btn-primary w-100" OnClick="btnSearch_Click" />`

18. **Error:** End tag `div` seen, but there were open elements.

a. From line 17, column 9; to line 17, column 14

b. `> </div> <`

19. **Error:** Unclosed element `asp:button`.

a. From line 16, column 13; to line 16, column 129

b. `<asp:Button ID="btnSearch" runat="server" Text="Search" CssClass="btn btn-primary w-100" OnClick="btnSearch_Click" />`

20. **Warning:** Element name `asp:gridview` cannot be represented as XML 1.0.

a. From line 20, column 5; to line 23, column 26

b. `div> <asp:GridView ID="gvBooks" runat="server" AutoGenerateColumns="False" CssClass="table table-bordered" OnRowCommand="gvBooks_RowCommand" DataKeyNames="ID">`

21. **Warning:** Element name `asp:boundfield` cannot be represented as XML 1.0.

- a. [From line 25, column 13; to line 25, column 61](#)  
b. `<asp:BoundField DataField="ID" HeaderText="ID" />`

22. **Error**: Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- a. [From line 25, column 13; to line 25, column 61](#)  
b. `<asp:BoundField DataField="ID" HeaderText="ID" />`

23. **Warning**: Element name `asp:boundfield` cannot be represented as XML 1.0.

- a. [From line 26, column 13; to line 26, column 67](#)  
b. `<asp:BoundField DataField="Title" HeaderText="Title" />`

24. **Error**: Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- a. [From line 26, column 13; to line 26, column 67](#)  
b. `<asp:BoundField DataField="Title" HeaderText="Title" />`

25. **Warning**: Element name `asp:boundfield` cannot be represented as XML 1.0.

- a. [From line 27, column 13; to line 27, column 69](#)  
b. `<asp:BoundField DataField="Author" HeaderText="Author" />`

26. **Error**: Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- a. [From line 27, column 13; to line 27, column 69](#)  
b. `<asp:BoundField DataField="Author" HeaderText="Author" />`

27. **Warning**: Element name `asp:boundfield` cannot be represented as XML 1.0.

- a. [From line 28, column 13; to line 28, column 73](#)  
b. `<asp:BoundField DataField="Category" HeaderText="Category" />`

28. **Error**: Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- a. [From line 28, column 13; to line 28, column 73](#)  
b. `<asp:BoundField DataField="Category" HeaderText="Category" />`

29. **Warning**: Element name `asp:boundfield` cannot be represented as XML 1.0.

- a. [From line 29, column 13; to line 29, column 92](#)  
b. `<asp:BoundField DataField="Price" HeaderText="Price" DataFormatString="{0:C}" />`

30. **Error**: Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- a. [From line 29, column 13; to line 29, column 92](#)

b. `<asp:BoundField DataField="Price" HeaderText="Price"  
DataFormatString="{0:C}" /></code>`

31. **Warning**: Element name `asp:templatefield` cannot be represented as XML 1.0.

- a. [From line 31, column 13; to line 31, column 50](#)
- b. `<asp:TemplateField HeaderText="Image"></code>`

32. **Error**: No space between attributes.

- a. [At line 36, column 65](#)
- b. `Image<%# Eval("ID") %>"></code>`

33. **Error**: Quote `"` in attribute name. Probable cause: Matching quote missing somewhere earlier.

- a. [At line 36, column 67](#)
- b. `age<%# Eval("ID") %>"></code>`

34. **Warning**: Attribute `[id"]` is not serializable as XML 1.0.

- a. [From line 33, column 21; to line 36, column 71](#)
- b. `<button class="btn btn-sm btn-outline-primary" type="button" data-bs-toggle="collapse" data-bs-target="#collapseImage<%# Eval("ID") %>"></code>`

35. **Warning**: Attribute `[%]` is not serializable as XML 1.0.

- a. [From line 33, column 21; to line 36, column 71](#)
- b. `<button class="btn btn-sm btn-outline-primary" type="button" data-bs-toggle="collapse" data-bs-target="#collapseImage<%# Eval("ID") %>"></code>`

36. **Error**: No space between attributes.

- a. [At line 40, column 75](#)
- b. `Image<%# Eval("ID") %>"></code>`

37. **Error**: Quote `"` in attribute name. Probable cause: Matching quote missing somewhere earlier.

- a. [At line 40, column 77](#)
- b. `age<%# Eval("ID") %>"></code>`

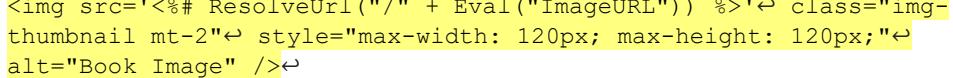
38. **Warning**: Attribute `[id"]` is not serializable as XML 1.0.

- a. [From line 40, column 21; to line 40, column 81](#)
- b. `<div class="collapse mt-2" id="collapseImage<%# Eval("ID") %>"></code>`

39. **Warning**: Attribute `[%]` is not serializable as XML 1.0.

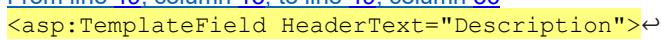
- a. [From line 40, column 21; to line 40, column 81](#)
- b. `<div class="collapse mt-2" id="collapseImage<%# Eval("ID") %>"></code>`

40. **Info:** Trailing slash on void elements [has no effect](#) and [interacts badly with unquoted attribute values](#).

- a. [From line 41, column 25; to line 44, column 47](#)
- b. 

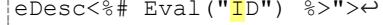
```
<img src='<%# ResolveUrl("/") + Eval("ImageURL") %>' class="img-thumbnail mt-2" style="max-width: 120px; max-height: 120px;" alt="Book Image" />
```

41. **Warning:** Element name `asp:templatefield` cannot be represented as XML 1.0.

- a. [From line 49, column 13; to line 49, column 56](#)
- b. 

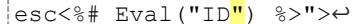
```
<asp:TemplateField HeaderText="Description">
```

42. **Error:** No space between attributes.

- a. [At line 54, column 64](#)
- b. 

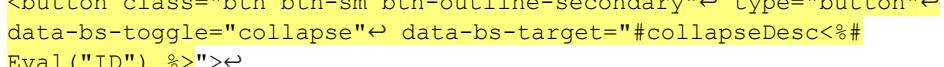
```
eDesc<%# Eval("ID") %>">
```

43. **Error:** Quote `"` in attribute name. Probable cause: Matching quote missing somewhere earlier.

- a. [At line 54, column 66](#)
- b. 

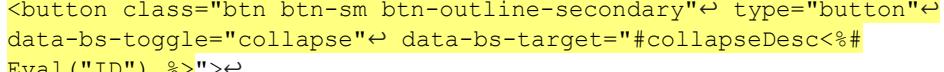
```
esc<%# Eval("ID") %>">
```

44. **Warning:** Attribute `[id"]` is not serializable as XML 1.0.

- a. [From line 51, column 21; to line 54, column 70](#)
- b. 

```
<button class="btn btn-sm btn-outline-secondary" type="button" data-bs-toggle="collapse" data-bs-target="#collapseDesc<%# Eval("ID") %>">
```

45. **Warning:** Attribute `[%]` is not serializable as XML 1.0.

- a. [From line 51, column 21; to line 54, column 70](#)
- b. 

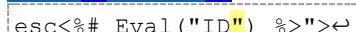
```
<button class="btn btn-sm btn-outline-secondary" type="button" data-bs-toggle="collapse" data-bs-target="#collapseDesc<%# Eval("ID") %>">
```

46. **Error:** No space between attributes.

- a. [At line 58, column 74](#)
- b. 

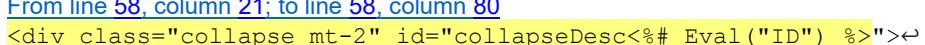
```
eDesc<%# Eval("ID") %>">
```

47. **Error:** Quote `"` in attribute name. Probable cause: Matching quote missing somewhere earlier.

- a. [At line 58, column 76](#)
- b. 

```
esc<%# Eval("ID") %>">
```

48. **Warning:** Attribute `[id"]` is not serializable as XML 1.0.

- a. [From line 58, column 21; to line 58, column 80](#)
- b. 

```
<div class="collapse mt-2" id="collapseDesc<%# Eval("ID") %>">
```

49. **Warning:** Attribute [%] is not serializable as XML 1.0.
- a. From line 58, column 21; to line 58, column 80
  - b. <div class="collapse mt-2" id="collapseDesc<%# Eval("ID") %>"><
50. **Error:** Bad character [%] after [<]. Probable cause: Unescaped [<]. Try escaping it as [&lt;].
- a. At line 59, column 42
  - b. class="mt-2"><%# Eval("Descri
51. **Warning:** Element name [asp:buttonfield] cannot be represented as XML 1.0.
- a. From line 63, column 13; to line 63, column 94
  - b. <asp:ButtonField CommandName="AddToCart" Text="Add to Cart" ButtonType="Button" /><
52. **Error:** Self-closing syntax ([/]) used on a non-void HTML element. Ignoring the slash and treating as a start tag.
- a. From line 63, column 13; to line 63, column 94
  - b. <asp:ButtonField CommandName="AddToCart" Text="Add to Cart" ButtonType="Button" /><
53. **Warning:** Element name [asp:buttonfield] cannot be represented as XML 1.0.
- a. From line 64, column 13; to line 64, column 102
  - b. <asp:ButtonField CommandName="AddToWishlist" Text="Add to Wishlist" ButtonType="Button" /><
54. **Error:** Self-closing syntax ([/]) used on a non-void HTML element. Ignoring the slash and treating as a start tag.
- a. From line 64, column 13; to line 64, column 102
  - b. <asp:ButtonField CommandName="AddToWishlist" Text="Add to Wishlist" ButtonType="Button" /><
55. **Error:** End tag [columns] seen, but there were open elements.
- a. From line 66, column 9; to line 66, column 18
  - b. </></Columns>< <
56. **Error:** Unclosed element [asp:buttonfield].
- a. From line 64, column 13; to line 64, column 102
  - b. <asp:ButtonField CommandName="AddToWishlist" Text="Add to Wishlist" ButtonType="Button" /><
57. **Error:** Unclosed element [asp:buttonfield].
- a. From line 63, column 13; to line 63, column 94

b. `<asp:ButtonField CommandName="AddToCart" Text="Add to Cart"  
ButtonType="Button" />`

58. **Error:** Unclosed element `asp:boundfield`.

a. [From line 29, column 13; to line 29, column 92](#)  
b. `<asp:BoundField DataField="Price" HeaderText="Price"  
DataFormatString="{0:C}" />`

59. **Error:** Unclosed element `asp:boundfield`.

a. [From line 28, column 13; to line 28, column 73](#)  
b. `<asp:BoundField DataField="Category" HeaderText="Category" />`

60. **Error:** Unclosed element `asp:boundfield`.

a. [From line 27, column 13; to line 27, column 69](#)  
b. `<asp:BoundField DataField="Author" HeaderText="Author" />`

61. **Error:** Unclosed element `asp:boundfield`.

a. [From line 26, column 13; to line 26, column 67](#)  
b. `<asp:BoundField DataField="Title" HeaderText="Title" />`

62. **Error:** Unclosed element `asp:boundfield`.

a. [From line 25, column 13; to line 25, column 61](#)  
b. `<asp:BoundField DataField="ID" HeaderText="ID" />`

• **Cart.aspx:**

1. **Warning:** Consider adding a `lang` attribute to the `html` start tag to declare the language of this document.

a. [From line 1, column 1; to line 1, column 2](#)  
b. `<%@ Page`  
c. For further guidance, consult [Declaring the overall language of a page](#) and [Choosing language tags](#).  
d. If the HTML checker has misidentified the language of this document, please [file an issue report](#) or [send e-mail to report the problem](#).

2. **Error:** Bad character `%` after `<`. Probable cause: Unescaped `<`. Try escaping it as `&lt;`.

a. [At line 1, column 2](#)  
b. `<%@ Page Languag`

3. **Error:** Non-space characters found without seeing a doctype first. Expected `<!DOCTYPE`  
`html>`.

a. [From line 1, column 1; to line 1, column 2](#)

b. `<%@ Page`

4. **Error:** Element `head` is missing a required instance of child element `title`.

- a. [From line 1, column 1; to line 1, column 2](#)
- b. `<%@ Page`
- c. Content model for element `head`:
- d. If the document is [an iframe srcdoc document](#) or if title information is available from a higher-level protocol: Zero or more elements of [metadata content](#), of which no more than one is a [title](#) element and no more than one is a [base](#) element.
- e. Otherwise: One or more elements of [metadata content](#), of which exactly one is a [title](#) element and no more than one is a [base](#) element.

5. **Warning:** Element name `asp:content` cannot be represented as XML 1.0.

- a. [From line 3, column 1; to line 3, column 85](#)
- b. `ster" %><asp:Content ID="Content1"`  
`ContentPlaceHolderID="ContentPlaceHolder1" runat="server"><`

6. **Error:** Element `asp:content` not allowed as child of element `body` in this context.  
(Suppressing further errors from this subtree.)

- a. [From line 3, column 1; to line 3, column 85](#)
- b. `ster" %><asp:Content ID="Content1"`  
`ContentPlaceHolderID="ContentPlaceHolder1" runat="server"><`
- c. Content model for element `body`:
- d. [Flow content](#).

7. **Warning:** Element name `asp:gridview` cannot be represented as XML 1.0.

- a. [From line 6, column 5; to line 15, column 43](#)
- b. `/h2><asp:GridView ID="gvCart" runat="server" AutoGenerateColumns="False" CssClass="table table-bordered" DataKeyNames="ID" OnRowDeleting="gvCart_RowDeleting" OnRowEditing="gvCart_RowEditing" OnRowCancelingEdit="gvCart_RowCancelingEdit" OnRowUpdating="gvCart_RowUpdating">`

8. **Warning:** Element name `asp:boundfield` cannot be represented as XML 1.0.

- a. [From line 17, column 13; to line 17, column 88](#)
- b. `<asp:BoundField DataField="Title" HeaderText="Book Title" ReadOnly="true" />`

9. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- a. [From line 17, column 13; to line 17, column 88](#)
- b. `<asp:BoundField DataField="Title" HeaderText="Book Title" ReadOnly="true" />`

10. **Warning:** Element name `asp:templatefield` cannot be represented as XML 1.0.

- a. [From line 18, column 13; to line 18, column 53](#)

b. `<asp:TemplateField HeaderText="Quantity"><`

11. **Error**: Bad character `%` after `<`. Probable cause: Unescaped `<`. Try escaping it as `&lt;`.

a. [At line 19, column 32](#)

b. `<ItemTemplate><%# Eval("Quanti`

12. **Warning**: Element name `asp:textbox` cannot be represented as XML 1.0.

a. [From line 21, column 21; to line 21, column 106](#)

b. `<asp:TextBox ID="txtQty" runat="server" Text='<%# Bind("Quantity") %>' Width="60px" /><`

13. **Error**: Self-closing syntax `(/>)` used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 21, column 21; to line 21, column 106](#)

b. `<asp:TextBox ID="txtQty" runat="server" Text='<%# Bind("Quantity") %>' Width="60px" /><`

14. **Error**: End tag `edititemtemplate` seen, but there were open elements.

a. [From line 22, column 17; to line 22, column 35](#)

b. `</EditItemTemplate><`

15. **Error**: Unclosed element `asp:textbox`.

a. [From line 21, column 21; to line 21, column 106](#)

b. `<asp:TextBox ID="txtQty" runat="server" Text='<%# Bind("Quantity") %>' Width="60px" /><`

16. **Warning**: Element name `asp:boundfield` cannot be represented as XML 1.0.

a. [From line 24, column 13; to line 24, column 92](#)

b. `<asp:BoundField DataField="Price" HeaderText="Price" DataFormatString="{0:C}" /><`

17. **Error**: Self-closing syntax `(/>)` used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 24, column 13; to line 24, column 92](#)

b. `<asp:BoundField DataField="Price" HeaderText="Price" DataFormatString="{0:C}" /><`

18. **Warning**: Element name `asp:boundfield` cannot be represented as XML 1.0.

a. [From line 25, column 13; to line 25, column 98](#)

b. `<asp:BoundField DataField="Subtotal" HeaderText="Subtotal" DataFormatString="{0:C}" /><`

19. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 25, column 13; to line 25, column 98](#)

b. `<asp:BoundField DataField="Subtotal" HeaderText="Subtotal" />`  
`DataFormatString="{0:C}" />`

20. **Warning:** Element name `asp:commandfield` cannot be represented as XML 1.0.

a. [From line 26, column 13; to line 26, column 78](#)

b. `<asp:CommandField ShowEditButton="true" ShowDeleteButton="true" />`

21. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 26, column 13; to line 26, column 78](#)

b. `<asp:CommandField ShowEditButton="true" ShowDeleteButton="true" />`

22. **Error:** End tag `columns` seen, but there were open elements.

a. [From line 27, column 9; to line 27, column 18](#)

b. `>`  
`</Columns>`

23. **Error:** Unclosed element `asp:commandfield`.

a. [From line 26, column 13; to line 26, column 78](#)

b. `<asp:CommandField ShowEditButton="true" ShowDeleteButton="true" />`

24. **Error:** Unclosed element `asp:boundfield`.

a. [From line 25, column 13; to line 25, column 98](#)

b. `<asp:BoundField DataField="Subtotal" HeaderText="Subtotal" />`  
`DataFormatString="{0:C}" />`

25. **Error:** Unclosed element `asp:boundfield`.

a. [From line 24, column 13; to line 24, column 92](#)

b. `<asp:BoundField DataField="Price" HeaderText="Price" />`  
`DataFormatString="{0:C}" />`

26. **Error:** Unclosed element `asp:boundfield`.

a. [From line 17, column 13; to line 17, column 88](#)

b. `<asp:BoundField DataField="Title" HeaderText="Book Title" />`  
`ReadOnly="true" />`

27. **Info:** Trailing slash on void elements [has no effect](#) and [interacts badly with unquoted attribute values](#).

a. [From line 30, column 5; to line 30, column 10](#)

b. `iew><br /> <`

28. **Warning:** Element name `asp:label` cannot be represented as XML 1.0.

a. [From line 31, column 5; to line 31, column 63](#)

b. `br /><asp:Label ID="Label1" runat="server" CssClass="fw-bold" /><`

29. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 31, column 5; to line 31, column 63](#)

b. `br /><asp:Label ID="Label1" runat="server" CssClass="fw-bold" /><`

30. **Info:** Trailing slash on void elements [has no effect](#) and [interacts badly with unquoted attribute values](#).

a. [From line 32, column 5; to line 32, column 10](#)

b. `d" /><br /><`

31. **Warning:** Element name `asp:label` cannot be represented as XML 1.0.

a. [From line 33, column 5; to line 33, column 70](#)

b. `br /><asp:Label ID="lblTotal" runat="server" CssClass="fw-bold fs-5" /><`

32. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 33, column 5; to line 33, column 70](#)

b. `br /><asp:Label ID="lblTotal" runat="server" CssClass="fw-bold fs-5" /><`

33. **Info:** Trailing slash on void elements [has no effect](#) and [interacts badly with unquoted attribute values](#).

a. [From line 34, column 5; to line 34, column 10](#)

b. `5" /><br /><`

34. **Warning:** Element name `asp:button` cannot be represented as XML 1.0.

a. [From line 35, column 5; to line 35, column 137](#)

b. `br /><asp:Button ID="btnCheckout" runat="server" Text="Proceed to Checkout" CssClass="btn btn-success mt-3" OnClick="btnCheckout_Click" /></asp`

35. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 35, column 5; to line 35, column 137](#)

b. `br /><asp:Button ID="btnCheckout" runat="server" Text="Proceed to Checkout" CssClass="btn btn-success mt-3" OnClick="btnCheckout_Click" /></asp`

36. **Error**: End tag `[asp:content]` seen, but there were open elements.

- From line 36, column 1; to line 36, column 14
- `Click" /></asp:Content>`

37. **Error**: Unclosed element `[asp:button]`.

- From line 35, column 5; to line 35, column 137
- `br /><asp:Button ID="btnCheckout" runat="server" Text="Proceed to Checkout" CssClass="btn btn-success mt-3" OnClick="btnCheckout_Click" /></asp:`

38. **Error**: Unclosed element `[asp:label]`.

- From line 33, column 5; to line 33, column 70
- `br /><asp:Label ID="lblTotal" runat="server" CssClass="fw-bold fs-5" /><`

39. **Error**: Unclosed element `[asp:label]`.

- From line 31, column 5; to line 31, column 63
- `br /><asp:Label ID="Label1" runat="server" CssClass="fw-bold" /><`

- Order.aspx:

1. **Warning**: Consider adding a `[lang]` attribute to the `[html]` start tag to declare the language of this document.

- From line 1, column 1; to line 1, column 2
- `<%@ Page`
- For further guidance, consult [Declaring the overall language of a page](#) and [Choosing language tags](#).
- If the HTML checker has misidentified the language of this document, please [file an issue report](#) or [send e-mail to report the problem](#).

2. **Error**: Bad character `%` after `<`. Probable cause: Unescaped `<`. Try escaping it as `&lt;`.

- At line 1, column 2
- `<%@ Page Languag`

3. **Error**: Non-space characters found without seeing a doctype first. Expected `<!DOCTYPE`

`html>`

- From line 1, column 1; to line 1, column 2
- `<%@ Page`

4. **Error**: Element `[head]` is missing a required instance of child element `[title]`.

- [From line 1, column 1; to line 1, column 2](#)
- `<%@ Page`
- Content model for element `head`:
- If the document is [an `iframe srcdoc` document](#) or if title information is available from a higher-level protocol: Zero or more elements of [metadata content](#), of which no more than one is a [title](#) element and no more than one is a [base](#) element.
- Otherwise: One or more elements of [metadata content](#), of which exactly one is a [title](#) element and no more than one is a [base](#) element.

**5. Warning:** Element name `asp:content` cannot be represented as XML 1.0.

- [From line 3, column 1; to line 3, column 85](#)
- `ster" %><asp:Content ID="Content1"`  
`ContentPlaceHolderID="ContentPlaceHolder1" runat="server"><`

**6. Error:** Element `asp:content` not allowed as child of element `body` in this context.  
 (Suppressing further errors from this subtree.)

- [From line 3, column 1; to line 3, column 85](#)
- `ster" %><asp:Content ID="Content1"`  
`ContentPlaceHolderID="ContentPlaceHolder1" runat="server"><`
- Content model for element `body`:
- [Flow content](#).

**7. Warning:** Element name `asp:label` cannot be represented as XML 1.0.

- [From line 6, column 5; to line 6, column 84](#)
- `/h2><asp:Label ID="lblMessage" runat="server" CssClass="text-danger d-block mb-3" />`

**8. Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- [From line 6, column 5; to line 6, column 84](#)
- `/h2><asp:Label ID="lblMessage" runat="server" CssClass="text-danger d-block mb-3" />`

**9. Warning:** Element name `asp:button` cannot be represented as XML 1.0.

- [From line 8, column 5; to line 13, column 40](#)
- `<asp:Button ID="btnPlaceOrder" runat="server" Text="Confirm Order" CssClass="btn btn-primary" OnClick="btnPlaceOrder_Click" />`

**10. Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- [From line 8, column 5; to line 13, column 40](#)
- `<asp:Button ID="btnPlaceOrder" runat="server" Text="Confirm Order" CssClass="btn btn-primary" OnClick="btnPlaceOrder_Click" />`

11. **Error:** End tag `[asp:content]` seen, but there were open elements.

- a. [From line 14, column 1; to line 14, column 14](#)
- b. `</asp:Content>`

12. **Error:** Unclosed element `[asp:button]`.

- a. [From line 8, column 5; to line 13, column 40](#)
- b. `<asp:Button ID="btnPlaceOrder" runat="server" Text="Confirm Order" CssClass="btn btn-primary" OnClick="btnPlaceOrder_Click" />`

13. **Error:** Unclosed element `[asp:label]`.

- a. [From line 6, column 5; to line 6, column 84](#)
- b. `/h2><asp:Label ID="lblMessage" runat="server" CssClass="text-danger d-block mb-3" />`

- **OrderConfirmation.aspx:**

1. **Warning:** Consider adding a `[lang]` attribute to the `[html]` start tag to declare the language of this document.

- a. [From line 1, column 1; to line 1, column 2](#)
- b. `<%@ Page`
- c. For further guidance, consult [Declaring the overall language of a page](#) and [Choosing language tags](#).
- d. If the HTML checker has misidentified the language of this document, please [file an issue report](#) or [send e-mail to report the problem](#).

2. **Error:** Bad character `%` after `<`. Probable cause: Unescaped `<`. Try escaping it as `&lt;`.

- a. [At line 1, column 2](#)
- b. `<%@ Page Languag`

3. **Error:** Non-space characters found without seeing a doctype first. Expected `<!DOCTYPE`

`html>.`

- a. [From line 1, column 1; to line 1, column 2](#)
- b. `<%@ Page`

4. **Error:** Element `[head]` is missing a required instance of child element `[title]`.

- a. [From line 1, column 1; to line 1, column 2](#)
- b. `<%@ Page`
- c. Content model for element `head`:
- d. If the document is [an iframe srcdoc document](#) or if title information is available from a higher-level protocol: Zero or more elements of [metadata content](#), of which no more than one is a `title` element and no more than one is a `base` element.

- e. Otherwise: One or more elements of [metadata content](#), of which exactly one is a [title](#) element and no more than one is a [base](#) element.

**5. Warning:** Element name `asp:content` cannot be represented as XML 1.0.

- a. [From line 3, column 1; to line 3, column 85](#)  
b. `ster" %><asp:Content ID="Content1"`  
`ContentPlaceHolderID="ContentPlaceHolder1" runat="server"><`

**6. Error:** Element `asp:content` not allowed as child of element `body` in this context.  
(Suppressing further errors from this subtree.)

- a. [From line 3, column 1; to line 3, column 85](#)  
b. `ster" %><asp:Content ID="Content1"`  
`ContentPlaceHolderID="ContentPlaceHolder1" runat="server"><`  
c. Content model for element [body](#):  
d. [Flow content](#).

**7. Warning:** Element name `asp:gridview` cannot be represented as XML 1.0.

- a. [From line 6, column 5; to line 6, column 108](#)  
b. `/h2><asp:GridView ID="gvSummary" runat="server"`  
`AutoGenerateColumns="False" CssClass="table table-bordered"><`

**8. Warning:** Element name `asp:boundfield` cannot be represented as XML 1.0.

- a. [From line 8, column 13; to line 8, column 72](#)  
b. `<asp:BoundField DataField="Title" HeaderText="Book Title" /><`

**9. Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- a. [From line 8, column 13; to line 8, column 72](#)  
b. `<asp:BoundField DataField="Title" HeaderText="Book Title" /><`

**10. Warning:** Element name `asp:boundfield` cannot be represented as XML 1.0.

- a. [From line 9, column 13; to line 9, column 92](#)  
b. `<asp:BoundField DataField="Price" HeaderText="Price"`  
`DataFormatString="{0:C}" /><`

**11. Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- a. [From line 9, column 13; to line 9, column 92](#)  
b. `<asp:BoundField DataField="Price" HeaderText="Price"`  
`DataFormatString="{0:C}" /><`

**12. Warning:** Element name `asp:boundfield` cannot be represented as XML 1.0.

- a. [From line 10, column 13; to line 10, column 73](#)  
b. `<asp:BoundField DataField="Quantity" HeaderText="Quantity" /><`

13. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 10, column 13; to line 10, column 73](#)

b. `<asp:BoundField DataField="Quantity" HeaderText="Quantity" />`

14. **Warning:** Element name `asp:boundfield` cannot be represented as XML 1.0.

a. [From line 11, column 13; to line 11, column 98](#)

b. `<asp:BoundField DataField="Subtotal" HeaderText="Subtotal" DataFormatString="{0:C}" />`

15. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 11, column 13; to line 11, column 98](#)

b. `<asp:BoundField DataField="Subtotal" HeaderText="Subtotal" DataFormatString="{0:C}" />`

16. **Error:** End tag `columns` seen, but there were open elements.

a. [From line 12, column 9; to line 12, column 18](#)

b. `></Columns><`

17. **Error:** Unclosed element `asp:boundfield`.

a. [From line 11, column 13; to line 11, column 98](#)

b. `<asp:BoundField DataField="Subtotal" HeaderText="Subtotal" DataFormatString="{0:C}" />`

18. **Error:** Unclosed element `asp:boundfield`.

a. [From line 10, column 13; to line 10, column 73](#)

b. `<asp:BoundField DataField="Quantity" HeaderText="Quantity" />`

19. **Error:** Unclosed element `asp:boundfield`.

a. [From line 9, column 13; to line 9, column 92](#)

b. `<asp:BoundField DataField="Price" HeaderText="Price" DataFormatString="{0:C}" />`

20. **Error:** Unclosed element `asp:boundfield`.

a. [From line 8, column 13; to line 8, column 72](#)

b. `<asp:BoundField DataField="Title" HeaderText="Book Title" />`

21. **Warning:** Element name `asp:label` cannot be represented as XML 1.0.

a. [From line 15, column 5; to line 15, column 70](#)

b. `iew><asp:Label ID="lblTotal" runat="server" CssClass="fw-bold fs-5" />`

22. **Error**: Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 15, column 5; to line 15, column 70](#)

b. `iew><asp:Label ID="lblTotal" runat="server" CssClass="fw-bold fs-5" />`

23. **Warning**: Element name `[asp:button]` cannot be represented as XML 1.0.

a. [From line 18, column 9; to line 18, column 128](#)

b. `><asp:Button ID="btnConfirm" runat="server" Text="Confirm Order" CssClass="btn btn-primary" OnClick="btnConfirm_Click" />`

24. **Error**: Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 18, column 9; to line 18, column 128](#)

b. `><asp:Button ID="btnConfirm" runat="server" Text="Confirm Order" CssClass="btn btn-primary" OnClick="btnConfirm_Click" />`

25. **Error**: End tag `[div]` seen, but there were open elements.

a. [From line 19, column 5; to line 19, column 10](#)

b. `k" /></div></asp`

26. **Error**: Unclosed element `[asp:button]`.

a. [From line 18, column 9; to line 18, column 128](#)

b. `><asp:Button ID="btnConfirm" runat="server" Text="Confirm Order" CssClass="btn btn-primary" OnClick="btnConfirm_Click" />`

27. **Error**: End tag `[asp:content]` seen, but there were open elements.

a. [From line 20, column 1; to line 20, column 14](#)

b. `</div></asp:Content>`

28. **Error**: Unclosed element `[asp:label]`.

a. [From line 15, column 5; to line 15, column 70](#)

b. `iew><asp:Label ID="lblTotal" runat="server" CssClass="fw-bold fs-5" />`

- OrderHistory.aspx:

1. **Warning**: Consider adding a `lang` attribute to the `html` start tag to declare the language of this document.

- [From line 1, column 1; to line 1, column 2](#)
- `<%@ Page`
- For further guidance, consult [Declaring the overall language of a page](#) and [Choosing language tags](#).
- If the HTML checker has misidentified the language of this document, please [file an issue report](#) or [send e-mail to report the problem](#).

2. **Error**: Bad character `%` after `<`. Probable cause: Unescaped `<`. Try escaping it as `&lt;`.

- [At line 1, column 2](#)
- `<%@ Page Languag`

3. **Error**: Non-space characters found without seeing a doctype first. Expected `<!DOCTYPE html>`.

- [From line 1, column 1; to line 1, column 2](#)
- `<%@ Page`

4. **Error**: Element `head` is missing a required instance of child element `title`.

- [From line 1, column 1; to line 1, column 2](#)
- `<%@ Page`
- Content model for element `head`:
- If the document is [an iframe srcdoc document](#) or if title information is available from a higher-level protocol: Zero or more elements of [metadata content](#), of which no more than one is a [title](#) element and no more than one is a [base](#) element.
- Otherwise: One or more elements of [metadata content](#), of which exactly one is a [title](#) element and no more than one is a [base](#) element.

5. **Warning**: Element name `asp:content` cannot be represented as XML 1.0.

- [From line 3, column 1; to line 3, column 85](#)
- `ster" %><asp:Content ID="Content1"`  
`ContentPlaceHolderID="ContentPlaceHolder1" runat="server"><`

6. **Error**: Element `asp:content` not allowed as child of element `body` in this context.  
(Suppressing further errors from this subtree.)

- [From line 3, column 1; to line 3, column 85](#)
- `ster" %><asp:Content ID="Content1"`  
`ContentPlaceHolderID="ContentPlaceHolder1" runat="server"><`
- Content model for element `body`:
- [Flow content](#).

7. **Warning**: Element name `asp:button` cannot be represented as XML 1.0.

- [From line 6, column 5; to line 9, column 37](#)

b. /h2><asp:Button ID="btnDownloadPDF" runat="server" Text="Download PDF" CssClass="btn btn-outline-secondary mb-3" OnClick="btnDownloadPDF\_Click" />

8. **Error:** Self-closing syntax (/>) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 6, column 5; to line 9, column 37](#)

b. /h2><asp:Button ID="btnDownloadPDF" runat="server" Text="Download PDF" CssClass="btn btn-outline-secondary mb-3" OnClick="btnDownloadPDF\_Click" />

9. **Warning:** Element name [asp:gridview] cannot be represented as XML 1.0.

a. [From line 11, column 5; to line 11, column 106](#)

b. " /><asp:GridView ID="gvOrders" runat="server" AutoGenerateColumns="False" CssClass="table table-striped">

10. **Warning:** Element name [asp:boundfield] cannot be represented as XML 1.0.

a. [From line 13, column 13; to line 13, column 71](#)

b. <asp:BoundField DataField="OrderID" HeaderText="Order #" />

11. **Error:** Self-closing syntax (/>) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 13, column 13; to line 13, column 71](#)

b. <asp:BoundField DataField="OrderID" HeaderText="Order #" />

12. **Warning:** Element name [asp:boundfield] cannot be represented as XML 1.0.

a. [From line 14, column 13; to line 14, column 105](#)

b. <asp:BoundField DataField="OrderDate" HeaderText="Date" DataFormatString="{0:dd MMM yyyy}" />

13. **Error:** Self-closing syntax (/>) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 14, column 13; to line 14, column 105](#)

b. <asp:BoundField DataField="OrderDate" HeaderText="Date" DataFormatString="{0:dd MMM yyyy}" />

14. **Warning:** Element name [asp:boundfield] cannot be represented as XML 1.0.

a. [From line 15, column 13; to line 15, column 105](#)

b. <asp:BoundField DataField="TotalAmount" HeaderText="Total Amount" DataFormatString="{0:C}" />

15. **Error:** Self-closing syntax (/>) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 15, column 13; to line 15, column 105](#)

b. `<asp:BoundField DataField="TotalAmount" HeaderText="Total Amount"  
DataFormatString="{0:C}" />`

16. **Warning:** Element name `asp:boundfield` cannot be represented as XML 1.0.

a. [From line 16, column 13; to line 16, column 69](#)  
b. `<asp:BoundField DataField="Status" HeaderText="Status" />`

17. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 16, column 13; to line 16, column 69](#)  
b. `<asp:BoundField DataField="Status" HeaderText="Status" />`

18. **Error:** End tag `columns` seen, but there were open elements.

a. [From line 17, column 9; to line 17, column 18](#)  
b. `></Columns><`

19. **Error:** Unclosed element `asp:boundfield`.

a. [From line 16, column 13; to line 16, column 69](#)  
b. `<asp:BoundField DataField="Status" HeaderText="Status" />`

20. **Error:** Unclosed element `asp:boundfield`.

a. [From line 15, column 13; to line 15, column 105](#)  
b. `<asp:BoundField DataField="TotalAmount" HeaderText="Total Amount"  
DataFormatString="{0:C}" />`

21. **Error:** Unclosed element `asp:boundfield`.

a. [From line 14, column 13; to line 14, column 105](#)  
b. `<asp:BoundField DataField="OrderDate" HeaderText="Date"  
DataFormatString="{0:dd MMM yyyy}" />`

22. **Error:** Unclosed element `asp:boundfield`.

a. [From line 13, column 13; to line 13, column 71](#)  
b. `<asp:BoundField DataField="OrderID" HeaderText="Order #" />`

23. **Info:** Trailing slash on void elements [has no effect](#) and [interacts badly with unquoted attribute values](#).

a. [From line 20, column 5; to line 20, column 10](#)  
b. `iew><hr /><`

24. **Warning:** Element name `asp:label` cannot be represented as XML 1.0.

a. [From line 21, column 5; to line 21, column 71](#)

b. `<asp:Label ID="lblStatus" runat="server" Text="" Visible="false" /><div`

25. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 21, column 5; to line 21, column 71](#)

b. `<asp:Label ID="lblStatus" runat="server" Text="" Visible="false" /><div`

26. **Warning:** Element name `asp:button` cannot be represented as XML 1.0.

a. [From line 24, column 5; to line 24, column 124](#)

b. `<asp:Button ID="btnHome" runat="server" Text="Go to Homepage" CssClass="btn btn-primary me-2" OnClick="btnHome_Click" /><`

27. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 24, column 5; to line 24, column 124](#)

b. `<asp:Button ID="btnHome" runat="server" Text="Go to Homepage" CssClass="btn btn-primary me-2" OnClick="btnHome_Click" /><`

28. **Warning:** Element name `asp:button` cannot be represented as XML 1.0.

a. [From line 25, column 5; to line 25, column 131](#)

b. `<k" /><asp:Button ID="btnBrowse" runat="server" Text="Browse More Books" CssClass="btn btn-success me-2" OnClick="btnBrowse_Click" /><`

29. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 25, column 5; to line 25, column 131](#)

b. `<k" /><asp:Button ID="btnBrowse" runat="server" Text="Browse More Books" CssClass="btn btn-success me-2" OnClick="btnBrowse_Click" /><`

30. **Warning:** Element name `asp:button` cannot be represented as XML 1.0.

a. [From line 26, column 5; to line 29, column 109](#)

b. `<k" /><asp:Button ID="btnResetOrders" runat="server" Text="Reset Order History" CssClass="btn btn-danger" OnClick="btnResetOrders_Click" OnClientClick="return confirm('Are you sure you want to permanently delete your order history?');"/></div`

31. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 26, column 5; to line 29, column 109](#)

b. `<k" /><asp:Button ID="btnResetOrders" runat="server" Text="Reset Order History" CssClass="btn btn-danger" />`

```
    OnClick="btnResetOrders_Click" OnClientClick="return confirm('Are  
you sure you want to permanently delete your order history?');"  
    /></div>
```

32. **Error:** End tag `div` seen, but there were open elements.

- a. [From line 30, column 1; to line 30, column 6](#)
- b. `y?');" /></div><></a>`

33. **Error:** Unclosed element `asp:button`.

```
a. From line 26, column 5; to line 29, column 109  
b. k" /><asp:Button ID="btnResetOrders" runat="server" Text="Reset  
Order History" CssClass="btn btn-danger" OnClick="btnResetOrders_Click" OnClientClick="return confirm('Are  
you sure you want to permanently delete your order history?');"/></div>
```

34. **Error:** Unclosed element `asp:button`.

```
a. From line 25, column 5; to line 25, column 131  
b. k" /><asp:Button ID="btnBrowse" runat="server" Text="Browse More  
Books" CssClass="btn btn-success me-2" OnClick="btnBrowse_Click" /></
```

35. **Error:** Unclosed element `asp:button`.

```
a. From line 24, column 5; to line 24, column 124  
b. ter" /><asp:Button ID="btnHome" runat="server" Text="Go to Homepage" CssClass="btn btn-primary me-2" OnClick="btnHome_Click" /><
```

36. **Error:** End tag `asp:content` seen, but there were open elements.

- a. [From line 33, column 1; to line 33, column 14](#)
- b. `</div><></asp:Content>`

37. **Error:** Unclosed element `asp:label`.

```
a. From line 21, column 5; to line 21, column 71  
b. hr /><asp:Label ID="lblStatus" runat="server" Text="" Visible="false" /></div>
```

38. **Error:** Unclosed element `asp:button`.

```
a. From line 6, column 5; to line 9, column 37  
b. /h2><asp:Button ID="btnDownloadPDF" runat="server" Text="Download PDF" CssClass="btn btn-outline-secondary mb-3" OnClick="btnDownloadPDF_Click" />
```

- **Payment.aspx:**

1. **Warning:** Consider adding a `lang` attribute to the `html` start tag to declare the language of this document.

- [From line 1, column 1; to line 1, column 2](#)
- `<%@ Page`
- For further guidance, consult [Declaring the overall language of a page](#) and [Choosing language tags](#).
- If the HTML checker has misidentified the language of this document, please [file an issue report](#) or [send e-mail to report the problem](#).

2. **Error:** Bad character `%` after `<`. Probable cause: Unescaped `<`. Try escaping it as `&lt;`.

- [At line 1, column 2](#)
- `<%@ Page Title="`

3. **Error:** Non-space characters found without seeing a doctype first. Expected `<!DOCTYPE`

`html>.`

- [From line 1, column 1; to line 1, column 2](#)
- `<%@ Page`

4. **Error:** Element `head` is missing a required instance of child element `title`.

- [From line 1, column 1; to line 1, column 2](#)
- `<%@ Page`
- Content model for element `head`:
- If the document is [an iframe srcdoc document](#) or if title information is available from a higher-level protocol: Zero or more elements of [metadata content](#), of which no more than one is a [title](#) element and no more than one is a [base](#) element.
- Otherwise: One or more elements of [metadata content](#), of which exactly one is a [title](#) element and no more than one is a [base](#) element.

5. **Warning:** Element name `asp:content` cannot be represented as XML 1.0.

- [From line 3, column 1; to line 3, column 85](#)
- `ment" %><asp:Content ID="Content1"`  
`ContentPlaceHolderID="ContentPlaceHolder1" runat="server"><`

6. **Error:** Element `asp:content` not allowed as child of element `body` in this context.  
(Suppressing further errors from this subtree.)

- [From line 3, column 1; to line 3, column 85](#)
- `ment" %><asp:Content ID="Content1"`  
`ContentPlaceHolderID="ContentPlaceHolder1" runat="server"><`
- Content model for element `body`:
- [Flow content](#).

7. **Warning:** Element name `asp:label` cannot be represented as XML 1.0.

- [From line 7, column 9; to line 7, column 74](#)

b. `>↵ <asp:Label ID="lblTotal" runat="server" CssClass="fw-bold fs-5"  
/>< <`

8. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 7, column 9; to line 7, column 74](#)  
b. `>↵ <asp:Label ID="lblTotal" runat="server" CssClass="fw-bold fs-5"  
/>< <`

9. **Error:** End tag `div` seen, but there were open elements.

a. [From line 8, column 5; to line 8, column 10](#)  
b. `5" /></div>< <`

10. **Error:** Unclosed element `asp:label`.

a. [From line 7, column 9; to line 7, column 74](#)  
b. `>↵ <asp:Label ID="lblTotal" runat="server" CssClass="fw-bold fs-5"  
/>< <`

11. **Warning:** Element name `asp:textbox` cannot be represented as XML 1.0.

a. [From line 12, column 9; to line 12, column 75](#)  
b. `>↵ <asp:TextBox ID="txtCard" runat="server" CssClass="form-control"  
/>< <`

12. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 12, column 9; to line 12, column 75](#)  
b. `>↵ <asp:TextBox ID="txtCard" runat="server" CssClass="form-control"  
/>< <`

13. **Error:** End tag `div` seen, but there were open elements.

a. [From line 13, column 5; to line 13, column 10](#)  
b. `1" /></div>< <`

14. **Error:** Unclosed element `asp:textbox`.

a. [From line 12, column 9; to line 12, column 75](#)  
b. `>↵ <asp:TextBox ID="txtCard" runat="server" CssClass="form-control"  
/>< <`

15. **Warning:** Element name `asp:textbox` cannot be represented as XML 1.0.

a. [From line 17, column 9; to line 17, column 77](#)  
b. `>↵ <asp:TextBox ID="txtHolder" runat="server" CssClass="form-control"  
/>< <`

16. **Error:** Self-closing syntax (/>) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 17, column 9; to line 17, column 77](#)

b. >↵ <asp:TextBox ID="txtHolder" runat="server" CssClass="form-control" />↵ <

17. **Error:** End tag div seen, but there were open elements.

a. [From line 18, column 5; to line 18, column 10](#)

b. 1" />↵ </div>↵

18. **Error:** Unclosed element asp:textbox.

a. [From line 17, column 9; to line 17, column 77](#)

b. >↵ <asp:TextBox ID="txtHolder" runat="server" CssClass="form-control" />↵ <

19. **Warning:** Element name asp:dropdownlist cannot be represented as XML 1.0.

a. [From line 22, column 9; to line 22, column 79](#)

b. >↵ <asp:DropDownList ID="ddlMethod" runat="server" CssClass="form-select">↵

20. **Warning:** Element name asp:listitem cannot be represented as XML 1.0.

a. [From line 23, column 13; to line 23, column 57](#)

b. <asp:ListItem Text="-- Select --" Value="" />↵

21. **Error:** Self-closing syntax (/>) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 23, column 13; to line 23, column 57](#)

b. <asp:ListItem Text="-- Select --" Value="" />↵

22. **Warning:** Element name asp:listitem cannot be represented as XML 1.0.

a. [From line 24, column 13; to line 24, column 67](#)

b. <asp:ListItem Text="Credit Card" Value="Credit Card" />↵

23. **Error:** Self-closing syntax (/>) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 24, column 13; to line 24, column 67](#)

b. <asp:ListItem Text="Credit Card" Value="Credit Card" />↵

24. **Warning:** Element name asp:listitem cannot be represented as XML 1.0.

a. [From line 25, column 13; to line 25, column 57](#)

b. <asp:ListItem Text="PayPal" Value="PayPal" />↵

25. **Error:** Self-closing syntax (/>) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 25, column 13; to line 25, column 57](#)

b. `<asp:ListItem Text="PayPal" Value="PayPal" />`

26. **Warning:** Element name `asp:listitem` cannot be represented as XML 1.0.

a. [From line 26, column 13; to line 26, column 71](#)

b. `<asp:ListItem Text="Bank Transfer" Value="Bank Transfer" />`

27. **Error:** Self-closing syntax (/>) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 26, column 13; to line 26, column 71](#)

b. `<asp:ListItem Text="Bank Transfer" Value="Bank Transfer" />`

28. **Error:** End tag `asp:dropdownlist` seen, but there were open elements.

a. [From line 27, column 9; to line 27, column 27](#)

b. `> </asp:DropDownList> <`

29. **Error:** Unclosed element `asp:listitem`.

a. [From line 26, column 13; to line 26, column 71](#)

b. `<asp:ListItem Text="Bank Transfer" Value="Bank Transfer" />`

30. **Error:** Unclosed element `asp:listitem`.

a. [From line 25, column 13; to line 25, column 57](#)

b. `<asp:ListItem Text="PayPal" Value="PayPal" />`

31. **Error:** Unclosed element `asp:listitem`.

a. [From line 24, column 13; to line 24, column 67](#)

b. `<asp:ListItem Text="Credit Card" Value="Credit Card" />`

32. **Error:** Unclosed element `asp:listitem`.

a. [From line 23, column 13; to line 23, column 57](#)

b. `<asp:ListItem Text="-- Select --" Value="" />`

33. **Warning:** Element name `asp:button` cannot be represented as XML 1.0.

a. [From line 30, column 5; to line 30, column 110](#)

b. `div> <asp:Button ID="btnPay" runat="server" Text="Pay Now" CssClass="btn btn-success" OnClick="btnPay_Click" /> <`

34. **Error:** Self-closing syntax (/>) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. From line 30, column 5; to line 30, column 110  
b. `div><asp:Button ID="btnPay" runat="server" Text="Pay Now"`  
`CssClass="btn btn-success" OnClick="btnPay_Click" /><`

35. **Info:** Trailing slash on void elements [has no effect](#) and [interacts badly with unquoted attribute values](#).

a. From line 31, column 5; to line 31, column 10  
b. `k" /><br /><br />`

36. **Info:** Trailing slash on void elements [has no effect](#) and [interacts badly with unquoted attribute values](#).

a. From line 31, column 11; to line 31, column 16  
b. `<br /><br /><`

37. **Warning:** Element name `asp:label` cannot be represented as XML 1.0.

a. From line 32, column 5; to line 32, column 67  
b. `br /><asp:Label ID="lblMsg" runat="server" CssClass="text-danger"`  
`/></asp`

38. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. From line 32, column 5; to line 32, column 67  
b. `br /><asp:Label ID="lblMsg" runat="server" CssClass="text-danger"`  
`/></asp`

39. **Error:** End tag `asp:content` seen, but there were open elements.

a. From line 33, column 1; to line 33, column 14  
b. `anger" /></asp:Content><`

40. **Error:** Unclosed element `asp:label`.

a. From line 32, column 5; to line 32, column 67  
b. `br /><asp:Label ID="lblMsg" runat="server" CssClass="text-danger"`  
`/></asp`

41. **Error:** Unclosed element `asp:button`.

a. From line 30, column 5; to line 30, column 110  
b. `div><asp:Button ID="btnPay" runat="server" Text="Pay Now"`  
`CssClass="btn btn-success" OnClick="btnPay_Click" /><`

42. **Error:** The value of the `for` attribute of the `label` element must be the ID of a non-hidden form control.

a. From line 11, column 9; to line 11, column 48

b. `>↔ <label for="txtCard" class="form-label">Card N`

43. **Error:** The value of the `for` attribute of the `label` element must be the ID of a non-hidden form control.

a. [From line 16, column 9; to line 16, column 50](#)

b. `>↔ <label for="txtHolder" class="form-label">Card H`

44. **Error:** The value of the `for` attribute of the `label` element must be the ID of a non-hidden form control.

a. [From line 21, column 9; to line 21, column 50](#)

b. `>↔ <label for="ddlMethod" class="form-label">Paymen`

- **Reviews.aspx:**

1. **Warning:** Consider adding a `lang` attribute to the `html` start tag to declare the language of this document.

a. [From line 1, column 1; to line 1, column 2](#)

b. `<%@ Page`

c. For further guidance, consult [Declaring the overall language of a page](#) and [Choosing language tags](#).

d. If the HTML checker has misidentified the language of this document, please [file an issue report](#) or [send e-mail to report the problem](#).

2. **Error:** Bad character `%` after `<`. Probable cause: Unescaped `<`. Try escaping it as `&lt;`.

a. [At line 1, column 2](#)

b. `<%@ Page Languag`

3. **Error:** Non-space characters found without seeing a doctype first. Expected `<!DOCTYPE` `html>`.

a. [From line 1, column 1; to line 1, column 2](#)

b. `<%@ Page`

4. **Error:** Element `head` is missing a required instance of child element `title`.

a. [From line 1, column 1; to line 1, column 2](#)

b. `<%@ Page`

c. Content model for element `head`:

d. If the document is [an iframe srcdoc document](#) or if title information is available from a higher-level protocol: Zero or more elements of [metadata content](#), of which no more than one is a `title` element and no more than one is a `base` element.

e. Otherwise: One or more elements of [metadata content](#), of which exactly one is a `title` element and no more than one is a `base` element.

5. **Warning:** Element name `asp:content` cannot be represented as XML 1.0.

a. [From line 3, column 1; to line 3, column 85](#)

b. `ster" %>↔<asp:Content ID="Content1"`  
`ContentPlaceHolderID="ContentPlaceHolder1" runat="server">↔ <`

6. **Error**: Element `asp:content` not allowed as child of element `body` in this context.  
(Suppressing further errors from this subtree.)

a. [From line 3, column 1; to line 3, column 85](#)  
b. `ster" %>↔<asp:Content ID="Content1"`  
`ContentPlaceHolderID="ContentPlaceHolder1" runat="server">↔ <`  
c. Content model for element `body`:  
d. [Flow content](#).

7. **Warning**: Element name `asp:dropdownlist` cannot be represented as XML 1.0.

a. [From line 8, column 9; to line 8, column 80](#)  
b. `>↔ <asp:DropDownList ID="ddlBooks" runat="server" CssClass="form-`  
`select" />↔ <`

8. **Error**: Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 8, column 9; to line 8, column 80](#)  
b. `>↔ <asp:DropDownList ID="ddlBooks" runat="server" CssClass="form-`  
`select" />↔ <`

9. **Error**: End tag `div` seen, but there were open elements.

a. [From line 9, column 5; to line 9, column 10](#)  
b. `t" />↔ </div>↔&`

10. **Error**: Unclosed element `asp:dropdownlist`.

a. [From line 8, column 9; to line 8, column 80](#)  
b. `>↔ <asp:DropDownList ID="ddlBooks" runat="server" CssClass="form-`  
`select" />↔ <`

11. **Warning**: Element name `asp:dropdownlist` cannot be represented as XML 1.0.

a. [From line 13, column 9; to line 13, column 79](#)  
b. `>↔ <asp:DropDownList ID="ddlRating" runat="server" CssClass="form-`  
`select">↔`

12. **Warning**: Element name `asp:listitem` cannot be represented as XML 1.0.

a. [From line 14, column 13; to line 14, column 36](#)  
b. `<asp:ListItem Value="1">★</asp`

13. **Warning**: Element name `asp:listitem` cannot be represented as XML 1.0.

a. [From line 15, column 13; to line 15, column 36](#)  
b. `<asp:ListItem Value="2">★★</as`

14. **Warning**: Element name `asp:listitem` cannot be represented as XML 1.0.

- a. [From line 16, column 13; to line 16, column 36](#)
- b. `<asp:ListItem Value="3">★ ★ ★ </a`

15. **Warning**: Element name `asp:listitem` cannot be represented as XML 1.0.

- a. [From line 17, column 13; to line 17, column 36](#)
- b. `<asp:ListItem Value="4">★ ★ ★ ★ </`

16. **Warning**: Element name `asp:listitem` cannot be represented as XML 1.0.

- a. [From line 18, column 13; to line 18, column 36](#)
- b. `<asp:ListItem Value="5">★ ★ ★ ★ ★ <`

17. **Warning**: Element name `asp:textbox` cannot be represented as XML 1.0.

- a. [From line 24, column 9; to line 24, column 105](#)
- b. `>↔ <asp:TextBox ID="txtReview" runat="server" CssClass="form-control" TextMode="MultiLine" Rows="3"></asp:`

18. **Warning**: Element name `asp:button` cannot be represented as XML 1.0.

- a. [From line 27, column 5; to line 27, column 134](#)
- b. `div>↔<asp:Button ID="btnSubmitReview" runat="server" Text="Submit Review" CssClass="btn btn-primary" OnClick="btnSubmitReview_Click" />↔`

19. **Error**: Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- a. [From line 27, column 5; to line 27, column 134](#)
- b. `div>↔<asp:Button ID="btnSubmitReview" runat="server" Text="Submit Review" CssClass="btn btn-primary" OnClick="btnSubmitReview_Click" />↔`

20. **Info**: Trailing slash on void elements [has no effect](#) and [interacts badly with unquoted attribute values](#).

- a. [From line 29, column 5; to line 29, column 10](#)
- b. `" />↔<hr />↔`

21. **Warning**: Element name `asp:gridview` cannot be represented as XML 1.0.

- a. [From line 31, column 5; to line 31, column 108](#)
- b. `r />↔<asp:GridView ID="gvReviews" runat="server" CssClass="table table-bordered" AutoGenerateColumns="False">↔`

22. **Warning**: Element name `asp:boundfield` cannot be represented as XML 1.0.

- a. [From line 33, column 13; to line 33, column 69](#)
- b. `<asp:BoundField DataField="FullName" HeaderText="User" />↔`

23. **Error**: Self-closing syntax (/>) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 33, column 13; to line 33, column 69](#)

b. `<asp:BoundField DataField="FullName" HeaderText="User" />`

24. **Warning**: Element name `asp:boundfield` cannot be represented as XML 1.0.

a. [From line 34, column 13; to line 34, column 69](#)

b. `<asp:BoundField DataField="Rating" HeaderText="Rating" />`

25. **Error**: Self-closing syntax (/>) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 34, column 13; to line 34, column 69](#)

b. `<asp:BoundField DataField="Rating" HeaderText="Rating" />`

26. **Warning**: Element name `asp:boundfield` cannot be represented as XML 1.0.

a. [From line 35, column 13; to line 35, column 73](#)

b. `<asp:BoundField DataField="ReviewText" HeaderText="Review" />`

27. **Error**: Self-closing syntax (/>) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 35, column 13; to line 35, column 73](#)

b. `<asp:BoundField DataField="ReviewText" HeaderText="Review" />`

28. **Warning**: Element name `asp:boundfield` cannot be represented as XML 1.0.

a. [From line 36, column 13; to line 36, column 106](#)

b. `<asp:BoundField DataField="ReviewDate" HeaderText="Date" DataFormatString="{0:dd MMM yyyy}" />`

29. **Error**: Self-closing syntax (/>) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 36, column 13; to line 36, column 106](#)

b. `<asp:BoundField DataField="ReviewDate" HeaderText="Date" DataFormatString="{0:dd MMM yyyy}" />`

30. **Error**: End tag `columns` seen, but there were open elements.

a. [From line 37, column 9; to line 37, column 18](#)

b. `> </Columns> <`

31. **Error**: Unclosed element `asp:boundfield`.

a. [From line 36, column 13; to line 36, column 106](#)

b. `<asp:BoundField DataField="ReviewDate" HeaderText="Date" DataFormatString="{0:dd MMM yyyy}" />`

32. **Error:** Unclosed element `[asp:boundfield]`.
- [From line 35, column 13; to line 35, column 73](#)
  - `<asp:BoundField DataField="ReviewText" HeaderText="Review" />←`
33. **Error:** Unclosed element `[asp:boundfield]`.
- [From line 34, column 13; to line 34, column 69](#)
  - `<asp:BoundField DataField="Rating" HeaderText="Rating" />←`
34. **Error:** Unclosed element `[asp:boundfield]`.
- [From line 33, column 13; to line 33, column 69](#)
  - `<asp:BoundField DataField="FullName" HeaderText="User" />←`
35. **Error:** End tag `[asp:content]` seen, but there were open elements.
- [From line 39, column 1; to line 39, column 14](#)
  - `GridView>←</asp:Content>←`
36. **Error:** Unclosed element `[asp:button]`.
- [From line 27, column 5; to line 27, column 134](#)
  - `div>←<asp:Button ID="btnSubmitReview" runat="server" Text="Submit Review" CssClass="btn btn-primary" OnClick="btnSubmitReview_Click" />←`

- **Wishlist.aspx:**

1. **Warning:** Consider adding a `[lang]` attribute to the `[html]` start tag to declare the language of this document.
- [From line 1, column 1; to line 1, column 2](#)
  - `<%@ Page`
  - For further guidance, consult [Declaring the overall language of a page](#) and [Choosing language tags](#).
  - If the HTML checker has misidentified the language of this document, please [file an issue report](#) or [send e-mail to report the problem](#).
2. **Error:** Bad character `%` after `<`. Probable cause: Unescaped `<`. Try escaping it as `&lt;`.
- [At line 1, column 2](#)
  - `<%@ Page Languag`
3. **Error:** Non-space characters found without seeing a doctype first. Expected `<!DOCTYPE`
- [From line 1, column 1; to line 1, column 2](#)
  - `<%@ Page`

4. **Error:** Element `head` is missing a required instance of child element `title`.

- a. From line 1, column 1; to line 1, column 2
- b. `<%@ Page`
- c. Content model for element `head`:
- d. If the document is [an iframe srcdoc document](#) or if title information is available from a higher-level protocol: Zero or more elements of [metadata content](#), of which no more than one is a `title` element and no more than one is a `base` element.
- e. Otherwise: One or more elements of [metadata content](#), of which exactly one is a `title` element and no more than one is a `base` element.

5. **Warning:** Element name `asp:content` cannot be represented as XML 1.0.

- a. From line 3, column 1; to line 3, column 85
- b. `ster" %><asp:Content ID="Content1"`  
`ContentPlaceHolderID="ContentPlaceHolder1" runat="server"><`

6. **Error:** Element `asp:content` not allowed as child of element `body` in this context.  
(Suppressing further errors from this subtree.)

- a. From line 3, column 1; to line 3, column 85
- b. `ster" %><asp:Content ID="Content1"`  
`ContentPlaceHolderID="ContentPlaceHolder1" runat="server"><`
- c. Content model for element `body`:
- d. [Flow content](#).

7. **Warning:** Element name `asp:gridview` cannot be represented as XML 1.0.

- a. From line 6, column 5; to line 12, column 45
- b. `/h2><asp:GridView ID="gvWishlist" runat="server" AutoGenerateColumns="False" CssClass="table table-striped" DataKeyNames="WishlistID, BookID" OnRowCommand="gvWishlist_RowCommand"><`

8. **Warning:** Element name `asp:boundfield` cannot be represented as XML 1.0.

- a. From line 14, column 13; to line 14, column 72
- b. `<asp:BoundField DataField="Title" HeaderText="Book Title" /><`

9. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- a. From line 14, column 13; to line 14, column 72
- b. `<asp:BoundField DataField="Title" HeaderText="Book Title" /><`

10. **Warning:** Element name `asp:boundfield` cannot be represented as XML 1.0.

- a. From line 15, column 13; to line 15, column 69
- b. `<asp:BoundField DataField="Author" HeaderText="Author" /><`

11. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- a. From line 15, column 13; to line 15, column 69

b. `<asp:BoundField DataField="Author" HeaderText="Author" />`

12. **Warning:** Element name `asp:boundfield` cannot be represented as XML 1.0.

a. [From line 16, column 13; to line 16, column 92](#)

b. `<asp:BoundField DataField="Price" HeaderText="Price"  
DataFormatString="{0:C}" />`

13. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 16, column 13; to line 16, column 92](#)

b. `<asp:BoundField DataField="Price" HeaderText="Price"  
DataFormatString="{0:C}" />`

14. **Warning:** Element name `asp:buttonfield` cannot be represented as XML 1.0.

a. [From line 17, column 13; to line 17, column 95](#)

b. `<asp:ButtonField CommandName="AddToCart" Text="Add to Cart"  
ButtonType="Button" />`

15. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 17, column 13; to line 17, column 95](#)

b. `<asp:ButtonField CommandName="AddToCart" Text="Add to Cart"  
ButtonType="Button" />`

16. **Warning:** Element name `asp:buttonfield` cannot be represented as XML 1.0.

a. [From line 18, column 13; to line 18, column 89](#)

b. `<asp:ButtonField CommandName="Remove" Text="Remove"  
ButtonType="Button" />`

17. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 18, column 13; to line 18, column 89](#)

b. `<asp:ButtonField CommandName="Remove" Text="Remove"  
ButtonType="Button" />`

18. **Error:** End tag `columns` seen, but there were open elements.

a. [From line 20, column 9; to line 20, column 18](#)

b. `</Columns><`

19. **Error:** Unclosed element `asp:buttonfield`.

a. [From line 18, column 13; to line 18, column 89](#)

b. `<asp:ButtonField CommandName="Remove" Text="Remove"  
ButtonType="Button" />`

20. **Error:** Unclosed element [asp:buttonfield].

a. From line 17, column 13; to line 17, column 95

b. `<asp:ButtonField CommandName="AddToCart" Text="Add to Cart"`  
    `ButtonType="Button" />`

21. **Error:** Unclosed element [asp:boundfield].

a. From line 16, column 13; to line 16, column 92

b. `<asp:BoundField DataField="Price" HeaderText="Price"`  
    `DataFormatString="{0:C}" />`

22. **Error:** Unclosed element [asp:boundfield].

a. From line 15, column 13; to line 15, column 69

b. `<asp:BoundField DataField="Author" HeaderText="Author" />`

23. **Error:** Unclosed element [asp:boundfield].

a. From line 14, column 13; to line 14, column 72

b. `<asp:BoundField DataField="Title" HeaderText="Book Title" />`

- Admin.aspx:

1. **Warning:** Consider adding a [lang] attribute to the [html] start tag to declare the language of this document.

a. From line 1, column 1; to line 1, column 2

b. `<%@ Page`

c. For further guidance, consult [Declaring the overall language of a page](#) and [Choosing language tags](#).

d. If the HTML checker has misidentified the language of this document, please [file an issue report](#) or [send e-mail to report the problem](#).

2. **Error:** Bad character [%] after <. Probable cause: Unescaped [<]. Try escaping it as [&lt;].

a. At line 1, column 2

b. `<%@ Page Languag`

3. **Error:** Non-space characters found without seeing a doctype first. Expected [<!DOCTYPE].

`html>.`

a. From line 1, column 1; to line 1, column 2

b. `<%@ Page`

4. **Error:** Element [head] is missing a required instance of child element [title].

a. From line 1, column 1; to line 1, column 2

b. `<%@ Page`

- c. Content model for element `head`:
- d. If the document is `an iframe srcdoc document` or if title information is available from a higher-level protocol: Zero or more elements of `metadata content`, of which no more than one is a `title` element and no more than one is a `base` element.
- e. Otherwise: One or more elements of `metadata content`, of which exactly one is a `title` element and no more than one is a `base` element.

**5. Warning:** Element name `asp:content` cannot be represented as XML 1.0.

- a. [From line 3, column 1; to line 3, column 85](#)
- b. `ster" %><asp:Content ID="Content1"`  
`ContentPlaceHolderID="ContentPlaceHolder1" runat="server"><`

**6. Error:** Element `asp:content` not allowed as child of element `body` in this context.  
(Suppressing further errors from this subtree.)

- a. [From line 3, column 1; to line 3, column 85](#)
- b. `ster" %><asp:Content ID="Content1"`  
`ContentPlaceHolderID="ContentPlaceHolder1" runat="server"><`
- c. Content model for element `body`:
- d. [Flow content](#).

**7. Warning:** Element name `asp:label` cannot be represented as XML 1.0.

- a. [From line 6, column 5; to line 6, column 84](#)
- b. `/h2><asp:Label ID="lblStatus" runat="server" CssClass="text-`  
`success d-block mb-2" /><`

**8. Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- a. [From line 6, column 5; to line 6, column 84](#)
- b. `/h2><asp:Label ID="lblStatus" runat="server" CssClass="text-`  
`success d-block mb-2" /><`

**9. Warning:** Element name `asp:textbox` cannot be represented as XML 1.0.

- a. [From line 9, column 5; to line 9, column 118](#)
- b. `b-3"><asp:TextBox ID="txtSearch" runat="server" CssClass="form-`  
`control" placeholder="Search by Title or Category..." /><`

**10. Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- a. [From line 9, column 5; to line 9, column 118](#)
- b. `b-3"><asp:TextBox ID="txtSearch" runat="server" CssClass="form-`  
`control" placeholder="Search by Title or Category..." /><`

**11. Warning:** Element name `asp:button` cannot be represented as XML 1.0.

- a. [From line 10, column 5; to line 10, column 123](#)
- b. `." /><asp:Button ID="btnSearch" runat="server" Text="Search"`  
`CssClass="btn btn-outline-primary" OnClick="btnSearch_Click" /><`

12. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 10, column 5; to line 10, column 123](#)

b. `." /><asp:Button ID="btnSearch" runat="server" Text="Search"`  
`CssClass="btn btn-outline-primary" OnClick="btnSearch_Click" /><`

13. **Warning:** Element name `asp:button` cannot be represented as XML 1.0.

a. [From line 11, column 5; to line 11, column 127](#)

b. `k" /><asp:Button ID="btnClear" runat="server" Text="Clear"`  
`CssClass="btn btn-outline-secondary ms-2" OnClick="btnClear_Click"`  
`/></div`

14. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 11, column 5; to line 11, column 127](#)

b. `k" /><asp:Button ID="btnClear" runat="server" Text="Clear"`  
`CssClass="btn btn-outline-secondary ms-2" OnClick="btnClear_Click"`  
`/></div`

15. **Error:** End tag `div` seen, but there were open elements.

a. [From line 12, column 1; to line 12, column 6](#)

b. `Click" /></div></`

16. **Error:** Unclosed element `asp:button`.

a. [From line 11, column 5; to line 11, column 127](#)

b. `k" /><asp:Button ID="btnClear" runat="server" Text="Clear"`  
`CssClass="btn btn-outline-secondary ms-2" OnClick="btnClear_Click"`  
`/></div`

17. **Error:** Unclosed element `asp:button`.

a. [From line 10, column 5; to line 10, column 123](#)

b. `." /><asp:Button ID="btnSearch" runat="server" Text="Search"`  
`CssClass="btn btn-outline-primary" OnClick="btnSearch_Click" /><`

18. **Error:** Unclosed element `asp:textbox`.

a. [From line 9, column 5; to line 9, column 118](#)

b. `b-3"><asp:TextBox ID="txtSearch" runat="server" CssClass="form-`  
`control" placeholder="Search by Title or Category..." /><`

19. **Warning:** Element name `asp:datagrid` cannot be represented as XML 1.0.

a. [From line 14, column 5; to line 19, column 48](#)

```
b. div><asp:DataGrid ID="dgBooks" runat="server"
AutoGenerateColumns="False" BorderWidth="1px" BorderStyle="Solid"
CssClass="table table-bordered" OnEditCommand="dgBooks_EditCommand">
OnCancelCommand="dgBooks_CancelCommand">
OnUpdateCommand="dgBooks_UpdateCommand">
OnDeleteCommand="dgBooks_DeleteCommand">
```

20. **Warning**: Element name `asp:boundcolumn` cannot be represented as XML 1.0.

- a. [From line 22, column 13; to line 22, column 78](#)
- b. `<asp:BoundColumn DataField="ID" HeaderText="ID" ReadOnly="True" />`

21. **Error**: Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- a. [From line 22, column 13; to line 22, column 78](#)
- b. `<asp:BoundColumn DataField="ID" HeaderText="ID" ReadOnly="True" />`

22. **Warning**: Element name `asp:boundcolumn` cannot be represented as XML 1.0.

- a. [From line 23, column 13; to line 23, column 68](#)
- b. `<asp:BoundColumn DataField="Title" HeaderText="Title" />`

23. **Error**: Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- a. [From line 23, column 13; to line 23, column 68](#)
- b. `<asp:BoundColumn DataField="Title" HeaderText="Title" />`

24. **Warning**: Element name `asp:boundcolumn` cannot be represented as XML 1.0.

- a. [From line 24, column 13; to line 24, column 70](#)
- b. `<asp:BoundColumn DataField="Author" HeaderText="Author" />`

25. **Error**: Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- a. [From line 24, column 13; to line 24, column 70](#)
- b. `<asp:BoundColumn DataField="Author" HeaderText="Author" />`

26. **Warning**: Element name `asp:boundcolumn` cannot be represented as XML 1.0.

- a. [From line 25, column 13; to line 25, column 74](#)
- b. `<asp:BoundColumn DataField="Category" HeaderText="Category" />`

27. **Error**: Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- a. [From line 25, column 13; to line 25, column 74](#)
- b. `<asp:BoundColumn DataField="Category" HeaderText="Category" />`

28. **Warning**: Element name `asp:boundcolumn` cannot be represented as XML 1.0.

a. From line 26, column 13; to line 26, column 93  
b. <asp:BoundColumn DataField="Price" HeaderText="Price"  
DataFormatString="{0:C}" />↔

29. **Error:** Self-closing syntax ( />) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. From line 26, column 13; to line 26, column 93  
b. <asp:BoundColumn DataField="Price" HeaderText="Price"  
DataFormatString="{0:C}" />↔

30. **Warning:** Element name [asp:boundcolumn] cannot be represented as XML 1.0.

a. From line 27, column 13; to line 27, column 68  
b. <asp:BoundColumn DataField="Stock" HeaderText="Stock" />↔

31. **Error:** Self-closing syntax ( />) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. From line 27, column 13; to line 27, column 68  
b. <asp:BoundColumn DataField="Stock" HeaderText="Stock" />↔

32. **Warning:** Element name [asp:editcommandcolumn] cannot be represented as XML 1.0.

a. From line 28, column 13; to line 28, column 93  
b. <asp>EditCommandColumn EditText="Edit" CancelText="Cancel"  
UpdateText="Update" />↔

33. **Error:** Self-closing syntax ( />) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. From line 28, column 13; to line 28, column 93  
b. <asp>EditCommandColumn EditText="Edit" CancelText="Cancel"  
UpdateText="Update" />↔

34. **Warning:** Element name [asp:buttoncolumn] cannot be represented as XML 1.0.

a. From line 29, column 13; to line 29, column 67  
b. <asp:ButtonColumn CommandName="Delete" Text="Delete" />↔

35. **Error:** Self-closing syntax ( />) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. From line 29, column 13; to line 29, column 67  
b. <asp:ButtonColumn CommandName="Delete" Text="Delete" />↔

36. **Error:** End tag [columns] seen, but there were open elements.

a. From line 30, column 9; to line 30, column 18  
b. >↔ </Columns>↔ <

37. **Error:** Unclosed element [asp:buttoncolumn].
- a. From line 29, column 13; to line 29, column 67
  - b. <asp:ButtonColumn CommandName="Delete" Text="Delete" />↔
38. **Error:** Unclosed element [asp:editcommandcolumn].
- a. From line 28, column 13; to line 28, column 93
  - b. <asp:EditCommandColumn EditText="Edit" CancelText="Cancel" UpdateText="Update" />↔
39. **Error:** Unclosed element [asp:boundcolumn].
- a. From line 27, column 13; to line 27, column 68
  - b. <asp:BoundColumn DataField="Stock" HeaderText="Stock" />↔
40. **Error:** Unclosed element [asp:boundcolumn].
- a. From line 26, column 13; to line 26, column 93
  - b. <asp:BoundColumn DataField="Price" HeaderText="Price" DataFormatString="{0:C}" />↔
41. **Error:** Unclosed element [asp:boundcolumn].
- a. From line 25, column 13; to line 25, column 74
  - b. <asp:BoundColumn DataField="Category" HeaderText="Category" />↔
42. **Error:** Unclosed element [asp:boundcolumn].
- a. From line 24, column 13; to line 24, column 70
  - b. <asp:BoundColumn DataField="Author" HeaderText="Author" />↔
43. **Error:** Unclosed element [asp:boundcolumn].
- a. From line 23, column 13; to line 23, column 68
  - b. <asp:BoundColumn DataField="Title" HeaderText="Title" />↔
44. **Error:** Unclosed element [asp:boundcolumn].
- a. From line 22, column 13; to line 22, column 78
  - b. <asp:BoundColumn DataField="ID" HeaderText="ID" ReadOnly="True" />↔
45. **Info:** Trailing slash on void elements [has no effect](#) and [interacts badly with unquoted attribute values](#).
- a. From line 33, column 5; to line 33, column 10
  - b. rid>↔ <hr />↔<h4>A
46. **Warning:** Element name [asp:textbox] cannot be represented as XML 1.0.

a. [From line 37, column 9; to line 37, column 99](#)  
b. `>↵ <asp:TextBox ID="txtNewTitle" runat="server" CssClass="form-control" Placeholder="Title" />↵ <`

47. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 37, column 9; to line 37, column 99](#)  
b. `>↵ <asp:TextBox ID="txtNewTitle" runat="server" CssClass="form-control" Placeholder="Title" />↵ <`

48. **Error:** End tag `div` seen, but there were open elements.

a. [From line 38, column 5; to line 38, column 10](#)  
b. `e" />↵ </div>↵ <`

49. **Error:** Unclosed element `asp:textbox`.

a. [From line 37, column 9; to line 37, column 99](#)  
b. `>↵ <asp:TextBox ID="txtNewTitle" runat="server" CssClass="form-control" Placeholder="Title" />↵ <`

50. **Warning:** Element name `asp:textbox` cannot be represented as XML 1.0.

a. [From line 40, column 9; to line 40, column 101](#)  
b. `>↵ <asp:TextBox ID="txtNewAuthor" runat="server" CssClass="form-control" Placeholder="Author" />↵ <`

51. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 40, column 9; to line 40, column 101](#)  
b. `>↵ <asp:TextBox ID="txtNewAuthor" runat="server" CssClass="form-control" Placeholder="Author" />↵ <`

52. **Error:** End tag `div` seen, but there were open elements.

a. [From line 41, column 5; to line 41, column 10](#)  
b. `r" />↵ </div>↵ <`

53. **Error:** Unclosed element `asp:textbox`.

a. [From line 40, column 9; to line 40, column 101](#)  
b. `>↵ <asp:TextBox ID="txtNewAuthor" runat="server" CssClass="form-control" Placeholder="Author" />↵ <`

54. **Warning:** Element name `asp:textbox` cannot be represented as XML 1.0.

a. [From line 43, column 9; to line 43, column 105](#)

b. `>← <asp:TextBox ID="txtNewCategory" runat="server" CssClass="form-control" Placeholder="Category" />← <`

55. **Error**: Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 43, column 9; to line 43, column 105](#)

b. `>← <asp:TextBox ID="txtNewCategory" runat="server" CssClass="form-control" Placeholder="Category" />← <`

56. **Error**: End tag `div` seen, but there were open elements.

a. [From line 44, column 5; to line 44, column 10](#)

b. `y" />← </div>← <`

57. **Error**: Unclosed element `asp:textbox`.

a. [From line 43, column 9; to line 43, column 105](#)

b. `>← <asp:TextBox ID="txtNewCategory" runat="server" CssClass="form-control" Placeholder="Category" />← <`

58. **Warning**: Element name `asp:textbox` cannot be represented as XML 1.0.

a. [From line 46, column 9; to line 46, column 99](#)

b. `>← <asp:TextBox ID="txtNewPrice" runat="server" CssClass="form-control" Placeholder="Price" />← <`

59. **Error**: Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 46, column 9; to line 46, column 99](#)

b. `>← <asp:TextBox ID="txtNewPrice" runat="server" CssClass="form-control" Placeholder="Price" />← <`

60. **Error**: End tag `div` seen, but there were open elements.

a. [From line 47, column 5; to line 47, column 10](#)

b. `e" />← </div>← <`

61. **Error**: Unclosed element `asp:textbox`.

a. [From line 46, column 9; to line 46, column 99](#)

b. `>← <asp:TextBox ID="txtNewPrice" runat="server" CssClass="form-control" Placeholder="Price" />← <`

62. **Warning**: Element name `asp:textbox` cannot be represented as XML 1.0.

a. [From line 49, column 9; to line 49, column 99](#)

b. `>← <asp:TextBox ID="txtNewStock" runat="server" CssClass="form-control" Placeholder="Stock" />← <`

63. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 49, column 9; to line 49, column 99](#)

b. `><asp:TextBox ID="txtNewStock" runat="server" CssClass="form-control" Placeholder="Stock" /><`

64. **Error:** End tag `div` seen, but there were open elements.

a. [From line 50, column 5; to line 50, column 10](#)

b. `k" /></div><`

65. **Error:** Unclosed element `asp:textbox`.

a. [From line 49, column 9; to line 49, column 99](#)

b. `><asp:TextBox ID="txtNewStock" runat="server" CssClass="form-control" Placeholder="Stock" /><`

66. **Warning:** Element name `asp:button` cannot be represented as XML 1.0.

a. [From line 52, column 9; to line 52, column 124](#)

b. `><asp:Button ID="btnAddBook" runat="server" CssClass="btn btn-success w-100" Text="Add" OnClick="btnAddBook_Click" /><`

67. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 52, column 9; to line 52, column 124](#)

b. `><asp:Button ID="btnAddBook" runat="server" CssClass="btn btn-success w-100" Text="Add" OnClick="btnAddBook_Click" /><`

68. **Error:** End tag `div` seen, but there were open elements.

a. [From line 53, column 5; to line 53, column 10](#)

b. `k" /></div></div>`

69. **Error:** Unclosed element `asp:button`.

a. [From line 52, column 9; to line 52, column 124](#)

b. `><asp:Button ID="btnAddBook" runat="server" CssClass="btn btn-success w-100" Text="Add" OnClick="btnAddBook_Click" /><`

70. **Error:** End tag `asp:content` seen, but there were open elements.

a. [From line 56, column 1; to line 56, column 14](#)

b. `></div><&lt;/asp:Content><`

71. **Error:** Unclosed element `asp:label`.

a. From line 6, column 5; to line 6, column 84  
b. /h2>←<asp:Label ID="lblStatus" runat="server" CssClass="text-  
success d-block mb-2" />← <

- Dashboard.aspx:

1. **Warning**: Consider adding a `lang` attribute to the `html` start tag to declare the language of this document.

- a. From line 1, column 1; to line 1, column 2
- b. <%@ Page
- c. For further guidance, consult [Declaring the overall language of a page](#) and [Choosing language tags](#).
- d. If the HTML checker has misidentified the language of this document, please [file an issue report](#) or [send e-mail to report the problem](#).

2. **Error**: Bad character `%` after `<`. Probable cause: Unescaped `<`. Try escaping it as `&lt;`.

- a. At line 1, column 2
- b. <%@ Page Title="

3. **Error**: Non-space characters found without seeing a doctype first. Expected `<!DOCTYPE`  
`html>`.

- a. From line 1, column 1; to line 1, column 2
- b. <%@ Page

4. **Error**: Element `head` is missing a required instance of child element `title`.

- a. From line 1, column 1; to line 1, column 2
- b. <%@ Page
- c. Content model for element `head`:
- d. If the document is [an iframe srcdoc document](#) or if title information is available from a higher-level protocol: Zero or more elements of [metadata content](#), of which no more than one is a [title](#) element and no more than one is a [base](#) element.
- e. Otherwise: One or more elements of [metadata content](#), of which exactly one is a [title](#) element and no more than one is a [base](#) element.

5. **Warning**: Element name `asp:content` cannot be represented as XML 1.0.

- a. From line 4, column 1; to line 4, column 85
- b. oard" %>←<asp:Content ID="Content1"  
ContentPlaceHolderID="ContentPlaceHolder1" runat="server">← <

6. **Error**: Element `asp:content` not allowed as child of element `body` in this context.  
(Suppressing further errors from this subtree.)

- a. From line 4, column 1; to line 4, column 85
- b. oard" %>←<asp:Content ID="Content1"  
ContentPlaceHolderID="ContentPlaceHolder1" runat="server">← <
- c. Content model for element `body`:

d. [Flow content](#).

7. **Warning:** Element name `asp:label` cannot be represented as XML 1.0.

a. [From line 12, column 21; to line 12, column 83](#)

b. `<asp:Label ID="lblBooks" runat="server" CssClass="display-6" />`

8. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 12, column 21; to line 12, column 83](#)

b. `<asp:Label ID="lblBooks" runat="server" CssClass="display-6" />`

9. **Error:** End tag `div` seen, but there were open elements.

a. [From line 13, column 17; to line 13, column 22](#)

b. `</div>`

10. **Error:** Unclosed element `asp:label`.

a. [From line 12, column 21; to line 12, column 83](#)

b. `<asp:Label ID="lblBooks" runat="server" CssClass="display-6" />`

11. **Warning:** Element name `asp:label` cannot be represented as XML 1.0.

a. [From line 21, column 21; to line 21, column 83](#)

b. `<asp:Label ID="lblUsers" runat="server" CssClass="display-6" />`

12. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 21, column 21; to line 21, column 83](#)

b. `<asp:Label ID="lblUsers" runat="server" CssClass="display-6" />`

13. **Error:** End tag `div` seen, but there were open elements.

a. [From line 22, column 17; to line 22, column 22](#)

b. `</div>`

14. **Error:** Unclosed element `asp:label`.

a. [From line 21, column 21; to line 21, column 83](#)

b. `<asp:Label ID="lblUsers" runat="server" CssClass="display-6" />`

15. **Warning:** Element name `asp:label` cannot be represented as XML 1.0.

a. [From line 30, column 21; to line 30, column 84](#)

b. `<asp:Label ID="lblOrders" runat="server" CssClass="display-6" />`

16. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- a. From line 30, column 21; to line 30, column 84
- b. <asp:Label ID="lblOrders" runat="server" CssClass="display-6" />↵

17. **Error:** End tag `div` seen, but there were open elements.

- a. From line 31, column 17; to line 31, column 22
- b. </div>↵

18. **Error:** Unclosed element `asp:label`.

- a. From line 30, column 21; to line 30, column 84
- b. <asp:Label ID="lblOrders" runat="server" CssClass="display-6" />↵

19. **Warning:** Element name `asp:label` cannot be represented as XML 1.0.

- a. From line 39, column 21; to line 39, column 85
- b. <asp:Label ID="lblRevenue" runat="server" CssClass="display-6" />↵

20. **Error:** Self-closing syntax `(/>)` used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- a. From line 39, column 21; to line 39, column 85
- b. <asp:Label ID="lblRevenue" runat="server" CssClass="display-6" />↵

21. **Error:** End tag `div` seen, but there were open elements.

- a. From line 40, column 17; to line 40, column 22
- b. </div>↵

22. **Error:** Unclosed element `asp:label`.

- a. From line 39, column 21; to line 39, column 85
- b. <asp:Label ID="lblRevenue" runat="server" CssClass="display-6" />↵

23. **Warning:** Element name `asp:button` cannot be represented as XML 1.0.

- a. From line 43, column 9; to line 43, column 156
- b. >↵ <asp:Button ID="btnViewReports" runat="server" Text="View Full Reports" CssClass="btn btn-outline-primary mt-4" OnClick="btnViewReports\_Click" />↵ <

24. **Error:** Self-closing syntax `(/>)` used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- a. From line 43, column 9; to line 43, column 156
- b. >↵ <asp:Button ID="btnViewReports" runat="server" Text="View Full Reports" CssClass="btn btn-outline-primary mt-4" OnClick="btnViewReports\_Click" />↵ <

25. **Error:** End tag `div` seen, but there were open elements.

- a. [From line 44, column 5; to line 44, column 10](#)
- b. `k" /></div></asp`

**26. Error: Unclosed element [asp:button].**

- a. [From line 43, column 9; to line 43, column 156](#)
- b. `><asp:Button ID="btnViewReports" runat="server" Text="View Full Reports" CssClass="btn btn-outline-primary mt-4" OnClick="btnViewReports_Click" /><`

• **Reports.aspx:**

**1. Warning: Consider adding a [lang] attribute to the [html] start tag to declare the language of this document.**

- a. [From line 1, column 1; to line 1, column 2](#)
- b. `<%@ Page`
- c. For further guidance, consult [Declaring the overall language of a page](#) and [Choosing language tags](#).
- d. If the HTML checker has misidentified the language of this document, please [file an issue report](#) or [send e-mail to report the problem](#).

**2. Error: Bad character [%] after <. Probable cause: Unescaped [<]. Try escaping it as [&lt;].**

- a. [At line 1, column 2](#)
- b. `<%@ Page Title="`

**3. Error: Non-space characters found without seeing a doctype first. Expected [<!DOCTYPE [html]>].**

- a. [From line 1, column 1; to line 1, column 2](#)
- b. `<%@ Page`

**4. Error: Element [head] is missing a required instance of child element [title].**

- a. [From line 1, column 1; to line 1, column 2](#)
- b. `<%@ Page`
- c. Content model for element `head`:
- d. If the document is [an iframe srcdoc document](#) or if title information is available from a higher-level protocol: Zero or more elements of [metadata content](#), of which no more than one is a [title](#) element and no more than one is a [base](#) element.
- e. Otherwise: One or more elements of [metadata content](#), of which exactly one is a [title](#) element and no more than one is a [base](#) element.

**5. Warning: Element name [asp:content] cannot be represented as XML 1.0.**

- a. [From line 3, column 1; to line 3, column 85](#)
- b. `orts" %><asp:Content ID="Content1" ContentPlaceHolderID="ContentPlaceHolder1" runat="server"><`

6. **Error:** Element `asp:content` not allowed as child of element `body` in this context.  
(Suppressing further errors from this subtree.)

- From line 3, column 1; to line 3, column 85
- orts" %><asp:Content ID="Content1"  
ContentPlaceHolderID="ContentPlaceHolder1" runat="server"><
- Content model for element `body`:
- [Flow content](#).

7. **Warning:** Element name `asp:label` cannot be represented as XML 1.0.

- From line 11, column 21; to line 11, column 83
- <asp:Label ID="lblBooks" runat="server" CssClass="display-6" />

8. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- From line 11, column 21; to line 11, column 83
- <asp:Label ID="lblBooks" runat="server" CssClass="display-6" />

9. **Error:** End tag `div` seen, but there were open elements.

- From line 12, column 17; to line 12, column 22
- </div>

10. **Error:** Unclosed element `asp:label`.

- From line 11, column 21; to line 11, column 83
- <asp:Label ID="lblBooks" runat="server" CssClass="display-6" />

11. **Warning:** Element name `asp:label` cannot be represented as XML 1.0.

- From line 19, column 21; to line 19, column 83
- <asp:Label ID="lblUsers" runat="server" CssClass="display-6" />

12. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- From line 19, column 21; to line 19, column 83
- <asp:Label ID="lblUsers" runat="server" CssClass="display-6" />

13. **Error:** End tag `div` seen, but there were open elements.

- From line 20, column 17; to line 20, column 22
- </div>

14. **Error:** Unclosed element `asp:label`.

- From line 19, column 21; to line 19, column 83
- <asp:Label ID="lblUsers" runat="server" CssClass="display-6" />

15. **Warning:** Element name `asp:label` cannot be represented as XML 1.0.
- a. [From line 27, column 21; to line 27, column 84](#)
  - b. `<asp:Label ID="lblOrders" runat="server" CssClass="display-6" />`
16. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.
- a. [From line 27, column 21; to line 27, column 84](#)
  - b. `<asp:Label ID="lblOrders" runat="server" CssClass="display-6" />`
17. **Error:** End tag `div` seen, but there were open elements.
- a. [From line 28, column 17; to line 28, column 22](#)
  - b. `</div>`
18. **Error:** Unclosed element `asp:label`.
- a. [From line 27, column 21; to line 27, column 84](#)
  - b. `<asp:Label ID="lblOrders" runat="server" CssClass="display-6" />`
19. **Warning:** Element name `asp:label` cannot be represented as XML 1.0.
- a. [From line 35, column 21; to line 35, column 85](#)
  - b. `<asp:Label ID="lblRevenue" runat="server" CssClass="display-6" />`
20. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.
- a. [From line 35, column 21; to line 35, column 85](#)
  - b. `<asp:Label ID="lblRevenue" runat="server" CssClass="display-6" />`
21. **Error:** End tag `div` seen, but there were open elements.
- a. [From line 36, column 17; to line 36, column 22](#)
  - b. `</div>`
22. **Error:** Unclosed element `asp:label`.
- a. [From line 35, column 21; to line 35, column 85](#)
  - b. `<asp:Label ID="lblRevenue" runat="server" CssClass="display-6" />`
23. **Info:** Trailing slash on void elements [has no effect](#) and [interacts badly with unquoted attribute values](#).
- a. [From line 41, column 5; to line 41, column 10](#)
  - b. `div><hr />`
24. **Warning:** Element name `asp:gridview` cannot be represented as XML 1.0.
- a. [From line 44, column 5; to line 44, column 116](#)

b. </h4>↵ <asp:GridView ID="gvMonthlyRevenue" runat="server" CssClass="table table-bordered" AutoGenerateColumns="true" />↵

25. **Error:** Self-closing syntax (/>) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 44, column 5; to line 44, column 116](#)

b. </h4>↵ <asp:GridView ID="gvMonthlyRevenue" runat="server" CssClass="table table-bordered" AutoGenerateColumns="true" />↵

26. **Info:** Trailing slash on void elements [has no effect](#) and [interacts badly with unquoted attribute values](#).

a. [From line 46, column 5; to line 46, column 10](#)

b. " />↵ <hr />↵

27. **Warning:** Element name `asp:gridview` cannot be represented as XML 1.0.

a. [From line 50, column 5; to line 50, column 109](#)

b. </h4>↵ <asp:GridView ID="gvTopBooks" runat="server" CssClass="table table-striped" AutoGenerateColumns="true" />↵ <

28. **Error:** Self-closing syntax (/>) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 50, column 5; to line 50, column 109](#)

b. </h4>↵ <asp:GridView ID="gvTopBooks" runat="server" CssClass="table table-striped" AutoGenerateColumns="true" />↵ <

29. **Info:** Trailing slash on void elements [has no effect](#) and [interacts badly with unquoted attribute values](#).

a. [From line 51, column 5; to line 51, column 10](#)

b. e" />↵ <hr />↵

30. **Warning:** Element name `asp:gridview` cannot be represented as XML 1.0.

a. [From line 55, column 5; to line 59, column 36](#)

b. /h4>↵ <asp:GridView ID="gvReviews" runat="server" ↵  
CssClass="table table-striped" AutoGenerateColumns="False" />↵

31. **Warning:** Element name `asp:boundfield` cannot be represented as XML 1.0.

a. [From line 61, column 13; to line 61, column 72](#)

b. <asp:BoundField DataField="Title" HeaderText="Book Title" />↵

32. **Error:** Self-closing syntax (/>) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 61, column 13; to line 61, column 72](#)

b. <asp:BoundField DataField="Title" HeaderText="Book Title" />↵

33. **Warning:** Element name `asp:boundfield` cannot be represented as XML 1.0.

- a. From line 62, column 13; to line 62, column 73  
b. <asp:BoundField DataField="FullName" HeaderText="Reviewer" />↔

34. **Error:** Self-closing syntax ( />) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- a. From line 62, column 13; to line 62, column 73  
b. <asp:BoundField DataField="FullName" HeaderText="Reviewer" />↔

35. **Warning:** Element name [asp:boundfield] cannot be represented as XML 1.0.

- a. From line 63, column 13; to line 63, column 69  
b. <asp:BoundField DataField="Rating" HeaderText="Rating" />↔

36. **Error:** Self-closing syntax ( />) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- a. From line 63, column 13; to line 63, column 69  
b. <asp:BoundField DataField="Rating" HeaderText="Rating" />↔

37. **Warning:** Element name [asp:boundfield] cannot be represented as XML 1.0.

- a. From line 64, column 13; to line 64, column 73  
b. <asp:BoundField DataField="ReviewText" HeaderText="Review" />↔

38. **Error:** Self-closing syntax ( />) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- a. From line 64, column 13; to line 64, column 73  
b. <asp:BoundField DataField="ReviewText" HeaderText="Review" />↔

39. **Warning:** Element name [asp:boundfield] cannot be represented as XML 1.0.

- a. From line 65, column 13; to line 65, column 106  
b. <asp:BoundField DataField="ReviewDate" HeaderText="Date"  
DataFormatString="{0:dd MMM yyyy}" />↔

40. **Error:** Self-closing syntax ( />) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- a. From line 65, column 13; to line 65, column 106  
b. <asp:BoundField DataField="ReviewDate" HeaderText="Date"  
DataFormatString="{0:dd MMM yyyy}" />↔

41. **Error:** End tag [columns] seen, but there were open elements.

- a. From line 66, column 9; to line 66, column 18  
b. >↔ </Columns>↔ <

42. **Error:** Unclosed element [asp:boundfield].

- a. From line 65, column 13; to line 65, column 106

b. `<asp:BoundField DataField="ReviewDate" HeaderText="Date"  
DataFormatString="{0:dd MMM yyyy}" />`

43. **Error:** Unclosed element `asp:boundfield`.

a. [From line 64, column 13; to line 64, column 73](#)

b. `<asp:BoundField DataField="ReviewText" HeaderText="Review" />`

44. **Error:** Unclosed element `asp:boundfield`.

a. [From line 63, column 13; to line 63, column 69](#)

b. `<asp:BoundField DataField="Rating" HeaderText="Rating" />`

45. **Error:** Unclosed element `asp:boundfield`.

a. [From line 62, column 13; to line 62, column 73](#)

b. `<asp:BoundField DataField="FullName" HeaderText="Reviewer" />`

46. **Error:** Unclosed element `asp:boundfield`.

a. [From line 61, column 13; to line 61, column 72](#)

b. `<asp:BoundField DataField="Title" HeaderText="Book Title" />`

47. **Error:** End tag `asp:content` seen, but there were open elements.

a. [From line 70, column 1; to line 70, column 14](#)

b. `ew></asp:Content>`

48. **Error:** Unclosed element `asp:gridview`.

a. [From line 50, column 5; to line 50, column 109](#)

b. `</h4> <asp:GridView ID="gvTopBooks" runat="server" CssClass="table  
table-striped" AutoGenerateColumns="true" />`

49. **Error:** Unclosed element `asp:gridview`.

a. [From line 44, column 5; to line 44, column 116](#)

b. `</h4> <asp:GridView ID="gvMonthlyRevenue" runat="server"  
CssClass="table table-bordered" AutoGenerateColumns="true" />`

• **Registration.aspx:**

1. **Warning:** Consider adding a `lang` attribute to the `html` start tag to declare the language of this document.

- a. [From line 1, column 1; to line 1, column 2](#)
- b. `<%@ Page`
- c. For further guidance, consult [Declaring the overall language of a page](#) and [Choosing language tags](#).
- d. If the HTML checker has misidentified the language of this document, please [file an issue report](#) or [send e-mail to report the problem](#).

2. **Error:** Bad character `%` after `<`. Probable cause: Unescaped `<`. Try escaping it as `&lt;`.

- a. [At line 1, column 2](#)
- b. `<%@ Page Languag`

3. **Error:** Non-space characters found without seeing a doctype first. Expected `<!DOCTYPE`

`html>.`

- a. [From line 1, column 1; to line 1, column 2](#)
- b. `<%@ Page`

4. **Error:** Element `head` is missing a required instance of child element `title`.

- a. [From line 1, column 1; to line 1, column 2](#)
- b. `<%@ Page`
- c. Content model for element `head`:
- d. If the document is [an iframe srcdoc document](#) or if title information is available from a higher-level protocol: Zero or more elements of [metadata content](#), of which no more than one is a [title](#) element and no more than one is a [base](#) element.
- e. Otherwise: One or more elements of [metadata content](#), of which exactly one is a [title](#) element and no more than one is a [base](#) element.

5. **Warning:** Element name `asp:content` cannot be represented as XML 1.0.

- a. [From line 5, column 1; to line 5, column 85](#)
- b. `ster" %><asp:Content ID="Content1"`  
`ContentPlaceHolderID="ContentPlaceHolder1" runat="server"><`

6. **Error:** Element `asp:content` not allowed as child of element `body` in this context.  
(Suppressing further errors from this subtree.)

- a. [From line 5, column 1; to line 5, column 85](#)
- b. `ster" %><asp:Content ID="Content1"`  
`ContentPlaceHolderID="ContentPlaceHolder1" runat="server"><`
- c. Content model for element `body`:
- d. [Flow content](#).

7. **Warning:** Element name `asp:validationsummary` cannot be represented as XML 1.0.

- a. [From line 8, column 9; to line 8, column 134](#)
- b. `><asp:ValidationSummary ID="ValidationSummary1" runat="server"`  
`CssClass="text-danger" HeaderText="Please fix the following:" /><`

8. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- a. [From line 8, column 9; to line 8, column 134](#)

b. `>↔ <asp:ValidationSummary ID="ValidationSummary1" runat="server" CssClass="text-danger" HeaderText="Please fix the following:" />↔`

9. **Warning:** Element name `asp:panel` cannot be represented as XML 1.0.

- a. [From line 10, column 9; to line 10, column 50](#)
- b. `↔ <asp:Panel runat="server" CssClass="mb-3">↔`

10. **Warning:** Element name `asp:textbox` cannot be represented as XML 1.0.

- a. [From line 12, column 13; to line 12, column 79](#)
- b. `<asp:TextBox ID="txtName" runat="server" CssClass="form-control" />↔`

11. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- a. [From line 12, column 13; to line 12, column 79](#)
- b. `<asp:TextBox ID="txtName" runat="server" CssClass="form-control" />↔`

12. **Error:** End tag `asp:panel` seen, but there were open elements.

- a. [From line 13, column 9; to line 13, column 20](#)
- b. `>↔ </asp:Panel>↔`

13. **Error:** Unclosed element `asp:textbox`.

- a. [From line 12, column 13; to line 12, column 79](#)
- b. `<asp:TextBox ID="txtName" runat="server" CssClass="form-control" />↔`

14. **Warning:** Element name `asp:panel` cannot be represented as XML 1.0.

- a. [From line 15, column 9; to line 15, column 50](#)
- b. `↔ <asp:Panel runat="server" CssClass="mb-3">↔`

15. **Warning:** Element name `asp:textbox` cannot be represented as XML 1.0.

- a. [From line 17, column 13; to line 17, column 80](#)
- b. `<asp:TextBox ID="txtEmail" runat="server" CssClass="form-control" />↔`

16. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- a. [From line 17, column 13; to line 17, column 80](#)
- b. `<asp:TextBox ID="txtEmail" runat="server" CssClass="form-control" />↔`

17. **Error:** End tag `asp:panel` seen, but there were open elements.

- a. [From line 18, column 9; to line 18, column 20](#)
- b. `>↔ </asp:Panel>↔`

- 18. Error:** Unclosed element `asp:textbox`.
- a. From line 17, column 13; to line 17, column 80
  - b. `<asp:TextBox ID="txtEmail" runat="server" CssClass="form-control">`  
`/>↔`
- 19. Warning:** Element name `asp:panel` cannot be represented as XML 1.0.
- a. From line 20, column 9; to line 20, column 50
  - b. `<asp:Panel runat="server" CssClass="mb-3">↔`
- 20. Warning:** Element name `asp:textbox` cannot be represented as XML 1.0.
- a. From line 22, column 13; to line 22, column 103
  - b. `<asp:TextBox ID="txtPassword" runat="server" CssClass="form-control" TextMode="Password" />↔`
- 21. Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.
- a. From line 22, column 13; to line 22, column 103
  - b. `<asp:TextBox ID="txtPassword" runat="server" CssClass="form-control" TextMode="Password" />↔`
- 22. Error:** End tag `asp:panel` seen, but there were open elements.
- a. From line 23, column 9; to line 23, column 20
  - b. `>↔ </asp:Panel>↔`
- 23. Error:** Unclosed element `asp:textbox`.
- a. From line 22, column 13; to line 22, column 103
  - b. `<asp:TextBox ID="txtPassword" runat="server" CssClass="form-control" TextMode="Password" />↔`
- 24. Warning:** Element name `asp:panel` cannot be represented as XML 1.0.
- a. From line 25, column 9; to line 25, column 50
  - b. `<asp:Panel runat="server" CssClass="mb-3">↔`
- 25. Warning:** Element name `asp:dropdownlist` cannot be represented as XML 1.0.
- a. From line 27, column 13; to line 27, column 85
  - b. `<asp:DropDownList ID="ddlCountry" runat="server" CssClass="form-control">↔`
- 26. Warning:** Element name `asp:listitem` cannot be represented as XML 1.0.
- a. From line 28, column 17; to line 28, column 69
  - b. `<asp:ListItem Text="-- Select Country --" Value="" />↔`

27. **Error**: Self-closing syntax (/>) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 28, column 17; to line 28, column 69](#)

b. `<asp:ListItem Text="-- Select Country --" Value="" />`

28. **Warning**: Element name `asp:listitem` cannot be represented as XML 1.0.

a. [From line 29, column 17; to line 29, column 67](#)

b. `<asp:ListItem Text="Mauritius" Value="Mauritius" />`

29. **Error**: Self-closing syntax (/>) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 29, column 17; to line 29, column 67](#)

b. `<asp:ListItem Text="Mauritius" Value="Mauritius" />`

30. **Warning**: Element name `asp:listitem` cannot be represented as XML 1.0.

a. [From line 30, column 17; to line 30, column 59](#)

b. `<asp:ListItem Text="India" Value="India" />`

31. **Error**: Self-closing syntax (/>) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 30, column 17; to line 30, column 59](#)

b. `<asp:ListItem Text="India" Value="India" />`

32. **Warning**: Element name `asp:listitem` cannot be represented as XML 1.0.

a. [From line 31, column 17; to line 31, column 53](#)

b. `<asp:ListItem Text="UK" Value="UK" />`

33. **Error**: Self-closing syntax (/>) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 31, column 17; to line 31, column 53](#)

b. `<asp:ListItem Text="UK" Value="UK" />`

34. **Warning**: Element name `asp:listitem` cannot be represented as XML 1.0.

a. [From line 32, column 17; to line 32, column 55](#)

b. `<asp:ListItem Text="USA" Value="USA" />`

35. **Error**: Self-closing syntax (/>) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 32, column 17; to line 32, column 55](#)

b. `<asp:ListItem Text="USA" Value="USA" />`

36. **Error**: End tag `asp:dropdownlist` seen, but there were open elements.

- a. From line 33, column 13; to line 33, column 31  
b. </asp:DropDownList>↔

37. **Error:** Unclosed element [asp:listitem].

- a. From line 32, column 17; to line 32, column 55  
b. <asp:ListItem Text="USA" Value="USA" />↔

38. **Error:** Unclosed element [asp:listitem].

- a. From line 31, column 17; to line 31, column 53  
b. <asp:ListItem Text="UK" Value="UK" />↔

39. **Error:** Unclosed element [asp:listitem].

- a. From line 30, column 17; to line 30, column 59  
b. <asp:ListItem Text="India" Value="India" />↔

40. **Error:** Unclosed element [asp:listitem].

- a. From line 29, column 17; to line 29, column 67  
b. <asp:ListItem Text="Mauritius" Value="Mauritius" />↔

41. **Error:** Unclosed element [asp:listitem].

- a. From line 28, column 17; to line 28, column 69  
b. <asp:ListItem Text="-- Select Country --" Value="" />↔

42. **Warning:** Element name [asp:panel] cannot be represented as XML 1.0.

- a. From line 36, column 9; to line 36, column 50  
b. ↔<asp:Panel runat="server" CssClass="mb-3">↔

43. **Warning:** Element name [asp:textbox] cannot be represented as XML 1.0.

- a. From line 38, column 13; to line 38, column 83  
b. <asp:TextBox ID="txtAddress1" runat="server" CssClass="form-control" />↔

44. **Error:** Self-closing syntax ( />) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- a. From line 38, column 13; to line 38, column 83  
b. <asp:TextBox ID="txtAddress1" runat="server" CssClass="form-control" />↔

45. **Error:** End tag [asp:panel] seen, but there were open elements.

- a. From line 39, column 9; to line 39, column 20  
b. ></asp:Panel>↔

- 46. Error:** Unclosed element `asp:textbox`.
- a. From line 38, column 13; to line 38, column 83
  - b. `<asp:TextBox ID="txtAddress1" runat="server" CssClass="form-control">`  
`/>↔`
- 47. Warning:** Element name `asp:panel` cannot be represented as XML 1.0.
- a. From line 41, column 9; to line 41, column 50
  - b. `<asp:Panel runat="server" CssClass="mb-3">↔`
- 48. Warning:** Element name `asp:textbox` cannot be represented as XML 1.0.
- a. From line 43, column 13; to line 43, column 83
  - b. `<asp:TextBox ID="txtAddress2" runat="server" CssClass="form-control">`  
`/>↔`
- 49. Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.
- a. From line 43, column 13; to line 43, column 83
  - b. `<asp:TextBox ID="txtAddress2" runat="server" CssClass="form-control">`  
`/>↔`
- 50. Error:** End tag `asp:panel` seen, but there were open elements.
- a. From line 44, column 9; to line 44, column 20
  - b. `>↔ </asp:Panel>↔`
- 51. Error:** Unclosed element `asp:textbox`.
- a. From line 43, column 13; to line 43, column 83
  - b. `<asp:TextBox ID="txtAddress2" runat="server" CssClass="form-control">`  
`/>↔`
- 52. Warning:** Element name `asp:panel` cannot be represented as XML 1.0.
- a. From line 46, column 9; to line 46, column 50
  - b. `<asp:Panel runat="server" CssClass="mb-3">↔`
- 53. Warning:** Element name `asp:textbox` cannot be represented as XML 1.0.
- a. From line 48, column 13; to line 48, column 79
  - b. `<asp:TextBox ID="txtCity" runat="server" CssClass="form-control" />↔`
- 54. Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.
- a. From line 48, column 13; to line 48, column 79
  - b. `<asp:TextBox ID="txtCity" runat="server" CssClass="form-control" />↔`

55. **Error:** End tag `asp:panel` seen, but there were open elements.

- a. From line 49, column 9; to line 49, column 20
- b. `>↔ </asp:Panel>↔↔`

56. **Error:** Unclosed element `asp:textbox`.

- a. From line 48, column 13; to line 48, column 79
- b. `<asp:TextBox ID="txtCity" runat="server" CssClass="form-control" />↔`

57. **Warning:** Element name `asp:panel` cannot be represented as XML 1.0.

- a. From line 51, column 9; to line 51, column 50
- b. `↔↔ <asp:Panel runat="server" CssClass="mb-3">↔`

58. **Warning:** Element name `asp:textbox` cannot be represented as XML 1.0.

- a. From line 53, column 13; to line 53, column 80
- b. `<asp:TextBox ID="txtState" runat="server" CssClass="form-control" />↔`

59. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- a. From line 53, column 13; to line 53, column 80
- b. `<asp:TextBox ID="txtState" runat="server" CssClass="form-control" />↔`

60. **Error:** End tag `asp:panel` seen, but there were open elements.

- a. From line 54, column 9; to line 54, column 20
- b. `>↔ </asp:Panel>↔↔`

61. **Error:** Unclosed element `asp:textbox`.

- a. From line 53, column 13; to line 53, column 80
- b. `<asp:TextBox ID="txtState" runat="server" CssClass="form-control" />↔`

62. **Warning:** Element name `asp:panel` cannot be represented as XML 1.0.

- a. From line 56, column 9; to line 56, column 50
- b. `↔↔ <asp:Panel runat="server" CssClass="mb-3">↔`

63. **Warning:** Element name `asp:textbox` cannot be represented as XML 1.0.

- a. From line 58, column 13; to line 58, column 81
- b. `<asp:TextBox ID="txtPostal" runat="server" CssClass="form-control" />↔`

64. **Error:** Self-closing syntax (/>) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. From line 58, column 13; to line 58, column 81

b. <asp:TextBox ID="txtPostal" runat="server" CssClass="form-control" />

65. **Error:** End tag [asp:panel] seen, but there were open elements.

a. From line 59, column 9; to line 59, column 20

b. > </asp:Panel>

66. **Error:** Unclosed element [asp:textbox].

a. From line 58, column 13; to line 58, column 81

b. <asp:TextBox ID="txtPostal" runat="server" CssClass="form-control" />

67. **Warning:** Element name [asp:button] cannot be represented as XML 1.0.

a. From line 61, column 9; to line 62, column 69

b. <asp:Button ID="btnRegister" runat="server" Text="Register" CssClass="btn btn-success" OnClick="btnRegister\_Click" />

68. **Error:** Self-closing syntax (/>) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. From line 61, column 9; to line 62, column 69

b. <asp:Button ID="btnRegister" runat="server" Text="Register" CssClass="btn btn-success" OnClick="btnRegister\_Click" />

69. **Error:** End tag [div] seen, but there were open elements.

a. From line 63, column 5; to line 63, column 10

b. " /> </div></asp:button>

70. **Error:** Unclosed element [asp:button].

a. From line 61, column 9; to line 62, column 69

b. <asp:Button ID="btnRegister" runat="server" Text="Register" CssClass="btn btn-success" OnClick="btnRegister\_Click" />

71. **Error:** Unclosed element [asp:validationsummary].

a. From line 8, column 9; to line 8, column 134

b. <asp:ValidationSummary ID="ValidationSummary1" runat="server" CssClass="text-danger" HeaderText="Please fix the following:" />

72. **Error:** The value of the `for` attribute of the `label` element must be the ID of a non-hidden form control.

- a. [From line 11, column 13; to line 11, column 33](#)
- b. `<label for="txtName">Full N`

73. **Error:** The value of the `for` attribute of the `label` element must be the ID of a non-hidden form control.

- a. [From line 16, column 13; to line 16, column 34](#)
- b. `<label for="txtEmail">Email:`

74. **Error:** The value of the `for` attribute of the `label` element must be the ID of a non-hidden form control.

- a. [From line 21, column 13; to line 21, column 37](#)
- b. `<label for="txtPassword">Passwo`

75. **Error:** The value of the `for` attribute of the `label` element must be the ID of a non-hidden form control.

- a. [From line 26, column 13; to line 26, column 36](#)
- b. `<label for="ddlCountry">Countr`

76. **Error:** The value of the `for` attribute of the `label` element must be the ID of a non-hidden form control.

- a. [From line 37, column 13; to line 37, column 37](#)
- b. `<label for="txtAddress1">Addres`

77. **Error:** The value of the `for` attribute of the `label` element must be the ID of a non-hidden form control.

- a. [From line 42, column 13; to line 42, column 37](#)
- b. `<label for="txtAddress2">Addres`

78. **Error:** The value of the `for` attribute of the `label` element must be the ID of a non-hidden form control.

- a. [From line 47, column 13; to line 47, column 33](#)
- b. `<label for="txtCity">City:<`

79. **Error:** The value of the `for` attribute of the `label` element must be the ID of a non-hidden form control.

- a. [From line 52, column 13; to line 52, column 34](#)
- b. `<label for="txtState">State:`

80. **Error:** The value of the `for` attribute of the `label` element must be the ID of a non-hidden form control.

- a. [From line 57, column 13; to line 57, column 35](#)

b. `<label for="txtPostal">Postal`

- **Login.aspx:**

1. **Warning:** Consider adding a `lang` attribute to the `html` start tag to declare the language of this document.

- [From line 1, column 1; to line 1, column 2](#)
- `<%@ Page`
- For further guidance, consult [Declaring the overall language of a page](#) and [Choosing language tags](#).
- If the HTML checker has misidentified the language of this document, please [file an issue report](#) or [send e-mail to report the problem](#).

2. **Error:** Bad character `%` after `<`. Probable cause: Unescaped `<`. Try escaping it as `&lt;`.

- [At line 1, column 2](#)
- `<%@ Page Languag`

3. **Error:** Non-space characters found without seeing a doctype first. Expected `<!DOCTYPE`  
`html>.`

- [From line 1, column 1; to line 1, column 2](#)
- `<%@ Page`

4. **Error:** Element `head` is missing a required instance of child element `title`.

- [From line 1, column 1; to line 1, column 2](#)
- `<%@ Page`
- Content model for element `head`:
- If the document is [an iframe srcdoc document](#) or if title information is available from a higher-level protocol: Zero or more elements of [metadata content](#), of which no more than one is a [title](#) element and no more than one is a [base](#) element.
- Otherwise: One or more elements of [metadata content](#), of which exactly one is a [title](#) element and no more than one is a [base](#) element.

5. **Warning:** Element name `asp:content` cannot be represented as XML 1.0.

- [From line 5, column 1; to line 5, column 85](#)
- `ster" %><asp:Content ID="Content1"`  
`ContentPlaceHolderID="ContentPlaceHolder1" runat="server"><`

6. **Error:** Element `asp:content` not allowed as child of element `body` in this context.  
(Suppressing further errors from this subtree.)

- [From line 5, column 1; to line 5, column 85](#)
- `ster" %><asp:Content ID="Content1"`  
`ContentPlaceHolderID="ContentPlaceHolder1" runat="server"><`
- Content model for element `body`:
- [Flow content](#).

7. **Warning:** Element name `asp:label` cannot be represented as XML 1.0.

- [From line 8, column 5; to line 8, column 71](#)
- `/h2><asp:Label ID="lblMessage" runat="server" CssClass="text-danger" />`

8. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- [From line 8, column 5; to line 8, column 71](#)
- `/h2><asp:Label ID="lblMessage" runat="server" CssClass="text-danger" />`

9. **Warning:** Element name `asp:textbox` cannot be represented as XML 1.0.

- [From line 12, column 9; to line 12, column 76](#)
- `><asp:TextBox ID="txtEmail" runat="server" CssClass="form-control" /><`

10. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- [From line 12, column 9; to line 12, column 76](#)
- `><asp:TextBox ID="txtEmail" runat="server" CssClass="form-control" /><`

11. **Error:** End tag `div` seen, but there were open elements.

- [From line 13, column 5; to line 13, column 10](#)
- `l" /></div><`

12. **Error:** Unclosed element `asp:textbox`.

- [From line 12, column 9; to line 12, column 76](#)
- `><asp:TextBox ID="txtEmail" runat="server" CssClass="form-control" /><`

13. **Warning:** Element name `asp:textbox` cannot be represented as XML 1.0.

- [From line 16, column 9; to line 16, column 99](#)
- `><asp:TextBox ID="txtPassword" runat="server" CssClass="form-control" TextMode="Password" /><`

14. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- [From line 16, column 9; to line 16, column 99](#)
- `><asp:TextBox ID="txtPassword" runat="server" CssClass="form-control" TextMode="Password" /><`

15. **Error:** End tag `div` seen, but there were open elements.

- a. From line 17, column 5; to line 17, column 10
- b. `d" /></div>`

16. **Error:** Unclosed element `asp:textbox`.

- a. From line 16, column 9; to line 16, column 99
- b. `><asp:TextBox ID="txtPassword" runat="server" CssClass="form-control" TextMode="Password" />`

17. **Warning:** Element name `asp:button` cannot be represented as XML 1.0.

- a. From line 19, column 5; to line 20, column 62
- b. `div><asp:Button ID="btnLogin" runat="server" Text="Login" CssClass="btn btn-primary" OnClick="btnLogin_Click" />`

18. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

- a. From line 19, column 5; to line 20, column 62
- b. `div><asp:Button ID="btnLogin" runat="server" Text="Login" CssClass="btn btn-primary" OnClick="btnLogin_Click" />`

19. **Warning:** Element name `asp:hyperlink` cannot be represented as XML 1.0.

- a. From line 24, column 5; to line 24, column 92
- b. `ount?<asp:HyperLink ID="hlRegister" runat="server" NavigateUrl="~/Account/Registration.aspx">Regist`

20. **Error:** End tag `asp:content` seen, but there were open elements.

- a. From line 26, column 1; to line 26, column 14
- b. `</p></asp:Content>`

21. **Error:** Unclosed element `asp:button`.

- a. From line 19, column 5; to line 20, column 62
- b. `div><asp:Button ID="btnLogin" runat="server" Text="Login" CssClass="btn btn-primary" OnClick="btnLogin_Click" />`

22. **Error:** Unclosed element `asp:label`.

- a. From line 8, column 5; to line 8, column 71
- b. `/h2><asp:Label ID="lblMessage" runat="server" CssClass="text-danger" />`

- Logout.aspx:

1. **Warning:** Consider adding a `lang` attribute to the `html` start tag to declare the language of this document.

- [From line 1, column 1; to line 1, column 2](#)
- [`%@ Page](#)
- For further guidance, consult [Declaring the overall language of a page](#) and [Choosing language tags](#).
- If the HTML checker has misidentified the language of this document, please [file an issue report](#) or [send e-mail to report the problem](#).

2. **Error:** Bad character `%` after `<`. Probable cause: Unescaped `<`. Try escaping it as `&lt;`.

- [At line 1, column 2](#)
- [`%@ Page Languag](#)

3. **Error:** Non-space characters found without seeing a doctype first. Expected `<!DOCTYPE`  
`html>`.

- [From line 1, column 1; to line 1, column 2](#)
- [`%@ Page](#)

4. **Error:** Element `head` is missing a required instance of child element `title`.

- [From line 1, column 1; to line 1, column 2](#)
- [`%@ Page](#)
- Content model for element `head`:
- If the document is [an iframe srcdoc document](#) or if title information is available from a higher-level protocol: Zero or more elements of [metadata content](#), of which no more than one is a [title](#) element and no more than one is a [base](#) element.
- Otherwise: One or more elements of [metadata content](#), of which exactly one is a [title](#) element and no more than one is a [base](#) element.

5. **Warning:** Element name `asp:content` cannot be represented as XML 1.0.

- [From line 3, column 1; to line 3, column 85](#)
- [ster" %>↔<asp:Content ID="Content1"  
ContentPlaceHolderID="ContentPlaceHolder1" runat="server">↔ <](#)

6. **Error:** Element `asp:content` not allowed as child of element `body` in this context.  
(Suppressing further errors from this subtree.)

- [From line 3, column 1; to line 3, column 85](#)
- [ster" %>↔<asp:Content ID="Content1"  
ContentPlaceHolderID="ContentPlaceHolder1" runat="server">↔ <](#)
- Content model for element `body`:
- [Flow content](#).

7. **Warning:** Element name `asp:label` cannot be represented as XML 1.0.

- [From line 5, column 5; to line 5, column 133](#)
- [</h2>↔ <asp:Label ID="lblMessage" runat="server" Text="Click below to  
log out from your account." CssClass="alert alert-info d-block" />↔ <](#)

8. **Error:** Self-closing syntax (/>) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. From line 5, column 5; to line 5, column 133

b. </h2><asp:Label ID="lblMessage" runat="server" Text="Click below  
to log out from your account." CssClass="alert alert-info d-block"  
/><

9. **Warning:** Element name `asp:button` cannot be represented as XML 1.0.

a. From line 6, column 5; to line 6, column 124

b. k" /><asp:Button ID="btnLogout" runat="server" Text="Log Out Now"  
CssClass="btn btn-danger mt-3" OnClick="btnLogout\_Click" /></asp

10. **Error:** Self-closing syntax (/>) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. From line 6, column 5; to line 6, column 124

b. k" /><asp:Button ID="btnLogout" runat="server" Text="Log Out Now"  
CssClass="btn btn-danger mt-3" OnClick="btnLogout\_Click" /></asp

11. **Error:** End tag `asp:content` seen, but there were open elements.

a. From line 7, column 1; to line 7, column 14

b. Click" /></asp:Content><

12. **Error:** Unclosed element `asp:button`.

a. From line 6, column 5; to line 6, column 124

b. k" /><asp:Button ID="btnLogout" runat="server" Text="Log Out Now"  
CssClass="btn btn-danger mt-3" OnClick="btnLogout\_Click" /></asp

13. **Error:** Unclosed element `asp:label`.

a. From line 5, column 5; to line 5, column 133

b. </h2><asp:Label ID="lblMessage" runat="server" Text="Click below  
to log out from your account." CssClass="alert alert-info d-block"  
/><

- **ForgotPassword.aspx:**

1. **Warning:** Consider adding a `lang` attribute to the `html` start tag to declare the language of this document.

- [From line 1, column 1; to line 1, column 2](#)
- [`<%@ Page`](#)
- For further guidance, consult [Declaring the overall language of a page](#) and [Choosing language tags](#).
- If the HTML checker has misidentified the language of this document, please [file an issue report](#) or [send e-mail to report the problem](#).

2. **Error:** Bad character `%` after `<`. Probable cause: Unescaped `<`. Try escaping it as `&lt;`.

- [At line 1, column 2](#)
- [`<%@ Page Languag`](#)

3. **Error:** Non-space characters found without seeing a doctype first. Expected `<!DOCTYPE`  
`html>`.

- [From line 1, column 1; to line 1, column 2](#)
- [`<%@ Page`](#)

4. **Error:** Element `head` is missing a required instance of child element `title`.

- [From line 1, column 1; to line 1, column 2](#)
- [`<%@ Page`](#)
- Content model for element `head`:
- If the document is [an iframe srcdoc document](#) or if title information is available from a higher-level protocol: Zero or more elements of [metadata content](#), of which no more than one is a `title` element and no more than one is a `base` element.
- Otherwise: One or more elements of [metadata content](#), of which exactly one is a `title` element and no more than one is a `base` element.

5. **Warning:** Element name `asp:content` cannot be represented as XML 1.0.

- [From line 3, column 1; to line 3, column 85](#)
- [ster" %><asp:Content ID="Content1"  
ContentPlaceHolderID="ContentPlaceHolder1" runat="server"><](#)

6. **Error:** Element `asp:content` not allowed as child of element `body` in this context.  
(Suppressing further errors from this subtree.)

- [From line 3, column 1; to line 3, column 85](#)
- [ster" %><asp:Content ID="Content1"  
ContentPlaceHolderID="ContentPlaceHolder1" runat="server"><](#)
- Content model for element `body`:
- [Flow content](#).

7. **Warning:** Element name `asp:label` cannot be represented as XML 1.0.

- [From line 6, column 5; to line 6, column 70](#)
- [/h2><asp:Label ID="lblResult" runat="server" CssClass="text-danger" />](#)

8. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 6, column 5; to line 6, column 70](#)

b. `</h2><asp:Label ID="lblResult" runat="server" CssClass="text-danger" />`

9. **Warning:** Element name `asp:textbox` cannot be represented as XML 1.0.

a. [From line 10, column 9; to line 10, column 76](#)

b. `<asp:TextBox ID="txtEmail" runat="server" CssClass="form-control" /><`

10. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 10, column 9; to line 10, column 76](#)

b. `<asp:TextBox ID="txtEmail" runat="server" CssClass="form-control" /><`

11. **Error:** End tag `div` seen, but there were open elements.

a. [From line 11, column 5; to line 11, column 10](#)

b. `l" /></div><`

12. **Error:** Unclosed element `asp:textbox`.

a. [From line 10, column 9; to line 10, column 76](#)

b. `<asp:TextBox ID="txtEmail" runat="server" CssClass="form-control" /><`

13. **Warning:** Element name `asp:textbox` cannot be represented as XML 1.0.

a. [From line 16, column 13; to line 16, column 106](#)

b. `<asp:TextBox ID="txtNewPassword" runat="server" CssClass="form-control" TextMode="Password" />`

14. **Error:** Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. [From line 16, column 13; to line 16, column 106](#)

b. `<asp:TextBox ID="txtNewPassword" runat="server" CssClass="form-control" TextMode="Password" />`

15. **Error:** End tag `div` seen, but there were open elements.

a. [From line 17, column 9; to line 17, column 14](#)

b. `></div><`

16. **Error:** Unclosed element `asp:textbox`.

a. From line 16, column 13; to line 16, column 106  
b. <asp:TextBox ID="txtNewPassword" runat="server" CssClass="form-control" TextMode="Password" />

17. Warning: Element name `asp:textbox` cannot be represented as XML 1.0.

a. From line 21, column 13; to line 21, column 110  
b. <asp:TextBox ID="txtConfirmPassword" runat="server" CssClass="form-control" TextMode="Password" />

18. Error: Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. From line 21, column 13; to line 21, column 110  
b. <asp:TextBox ID="txtConfirmPassword" runat="server" CssClass="form-control" TextMode="Password" />

19. Error: End tag `div` seen, but there were open elements.

a. From line 22, column 9; to line 22, column 14  
b. ></div><

20. Error: Unclosed element `asp:textbox`.

a. From line 21, column 13; to line 21, column 110  
b. <asp:TextBox ID="txtConfirmPassword" runat="server" CssClass="form-control" TextMode="Password" />

21. Warning: Element name `asp:button` cannot be represented as XML 1.0.

a. From line 25, column 5; to line 26, column 64  
b. div><asp:Button ID="btnRecover" runat="server" Text="Continue" CssClass="btn btn-warning" OnClick="btnRecover\_Click" />

22. Error: Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. From line 25, column 5; to line 26, column 64  
b. div><asp:Button ID="btnRecover" runat="server" Text="Continue" CssClass="btn btn-warning" OnClick="btnRecover\_Click" />

23. Warning: Element name `asp:button` cannot be represented as XML 1.0.

a. From line 28, column 5; to line 29, column 83  
b. " /><asp:Button ID="btnReset" runat="server" Text="Reset Password" CssClass="btn btn-primary mt-3" OnClick="btnReset\_Click" Visible="false" /></asp

24. Error: Self-closing syntax (`/>`) used on a non-void HTML element. Ignoring the slash and treating as a start tag.

a. From line 28, column 5; to line 29, column 83  
b. " /><asp:Button ID="btnReset" runat="server" Text="Reset" Password" CssClass="btn btn-primary mt-3" OnClick="btnReset\_Click" Visible="false" /></asp:

25. **Error**: End tag `asp:content` seen, but there were open elements.

a. From line 30, column 1; to line 30, column 14  
b. false" /></asp:Content>

26. **Error**: Unclosed element `asp:button`.

a. From line 28, column 5; to line 29, column 83  
b. " /><asp:Button ID="btnReset" runat="server" Text="Reset" Password" CssClass="btn btn-primary mt-3" OnClick="btnReset\_Click" Visible="false" /></asp:

27. **Error**: Unclosed element `asp:button`.

a. From line 25, column 5; to line 26, column 64  
b. div><asp:Button ID="btnRecover" runat="server" Text="Continue" CssClass="btn btn-warning" OnClick="btnRecover\_Click" />

28. **Error**: Unclosed element `asp:label`.

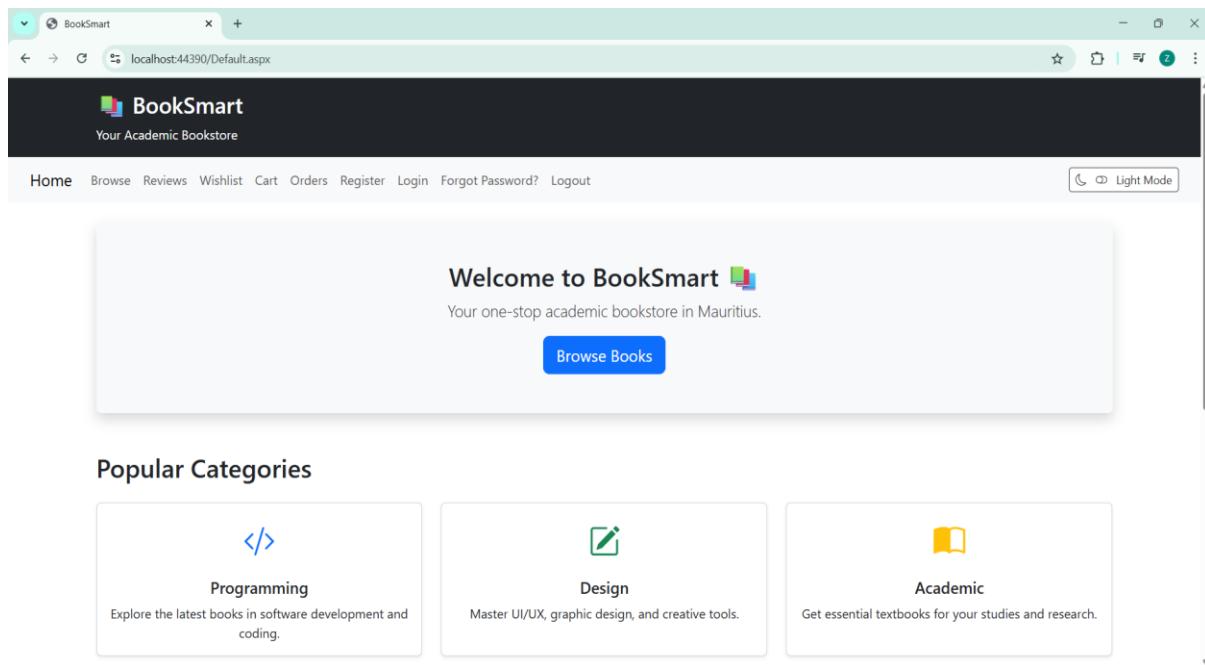
a. From line 6, column 5; to line 6, column 70  
b. /h2><asp:Label ID="lblResult" runat="server" CssClass="text-danger" />

## Cross-browser testing:

| Aspect                                     | Google Chrome   | Mozilla Firefox   | Microsoft Edge   |
|--|---|---|--|
| <b>Layout &amp; Rendering</b>              | Renders layout as expected, good spacing and alignment. | Slightly tighter line-height on text.   | Very similar to Chrome, but sometimes fonts render sharper.    |
| <b>Navbar / Menu</b>                       | Responsive navbar collapses properly.                   | Navbar collapses well, icons sometimes slightly misaligned.                         | Navbar responsive, sometimes a bit extra spacing on the right. |
| <b>Icons (Bootstrap Icons)</b>             | Displays icons perfectly.                               | Icons render crisp but occasionally 1–2 px smaller.                                 | Icons are sharp and identical to Chrome.                       |
| <b>Font Rendering</b>                      | Smooth anti-aliasing, consistent look.                  | Slightly bolder text in some headings.  | Slightly sharper fonts, especially on smaller text.            |
| <b>Dark/Light Toggle</b>                   | Works without glitches.                                 | Works properly, slight lag in colour changes on click.                              | Works well, smooth transition.                                 |
| <b>Performance</b>                         | Very fast page loads, minimal flickering.               | Also fast, but minor flicker switching pages.                                       | Fast, no noticeable flicker.                                   |
| <b>Image Display (Carousel, Grid View)</b> | Proper scaling and aspect ratio.                        | Proper scaling, but images sometimes appear darker.                                 | Good scaling, colours slightly more vibrant than Chrome.       |
| <b>DevTools Experience</b>                 | Very robust, easy to inspect elements.                  | Also robust, but element picking sometimes slower.                                  | Robust, integrates with Windows dev tools.                     |
| <b>Memory Usage</b>                        | Tends to use more RAM with many tabs open.              | Slightly lighter memory footprint than Chrome.                                      | Optimized, uses less RAM than Chrome in similar scenarios.     |
| <b>Compatibility</b>                       | High compatibility with all modern web standards.       | Also highly compatible, sometimes shows stricter warnings on minor HTML/CSS issues. | Highly compatible, excellent integration with Windows.         |

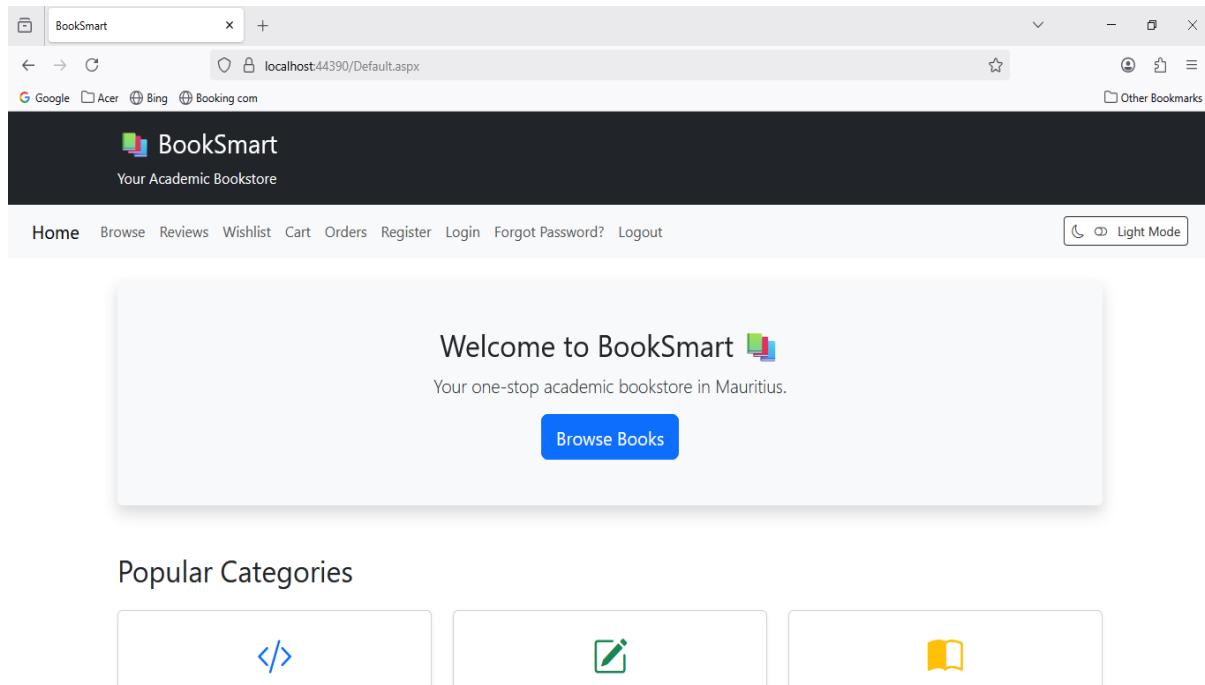
Screenshot:

- **Google Chrome:**



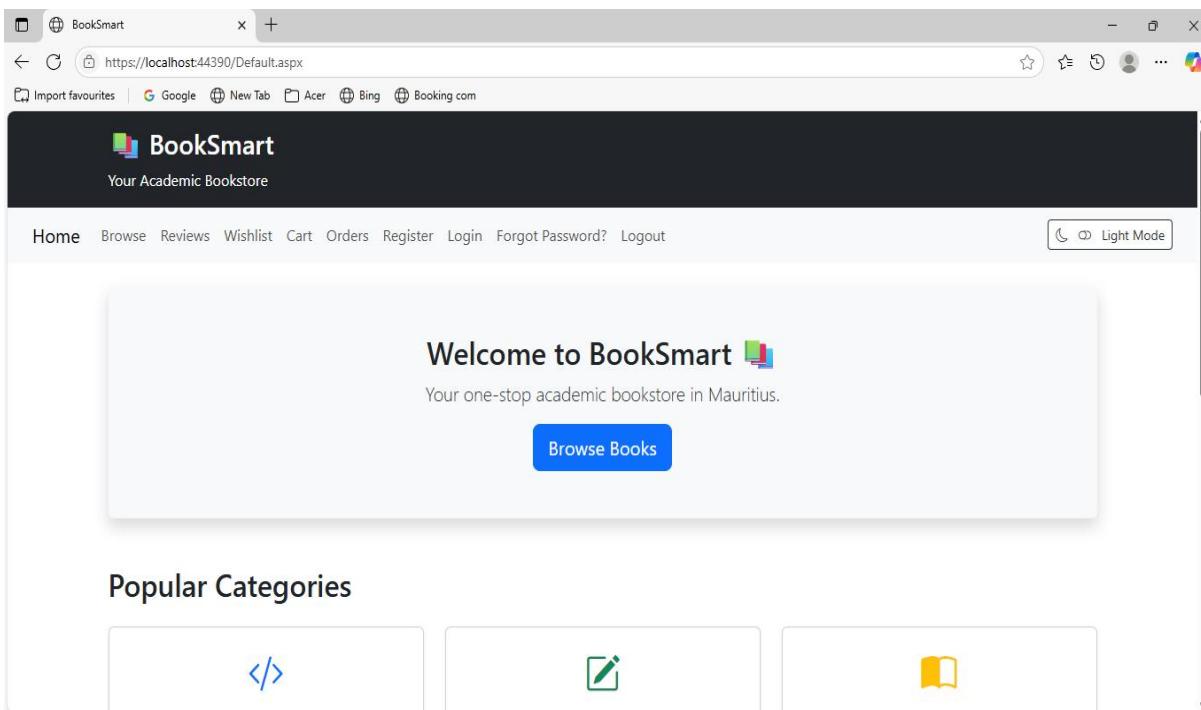
The screenshot shows the BookSmart website running in Google Chrome. The browser interface includes a tab labeled "BookSmart", a address bar showing "localhost:44390/Default.aspx", and a toolbar with various icons. The main content area features the BookSmart logo and tagline "Your Academic Bookstore". A navigation bar at the top offers links for Home, Browse, Reviews, Wishlist, Cart, Orders, Register, Login, Forgot Password?, and Logout. A "Light Mode" button is also present. Below the navigation, a welcome message reads "Welcome to BookSmart" with a small icon, followed by the text "Your one-stop academic bookstore in Mauritius." A prominent blue "Browse Books" button is centered. Underneath, a section titled "Popular Categories" displays three items: "Programming" (with a code icon), "Design" (with a pen icon), and "Academic" (with a book icon). Each category has a brief description and a link to explore more.

- **Mozilla Firefox:**



The screenshot shows the BookSmart website running in Mozilla Firefox. The browser interface includes a tab labeled "BookSmart", a address bar showing "localhost:44390/Default.aspx", and a toolbar with various icons. The main content area features the BookSmart logo and tagline "Your Academic Bookstore". A navigation bar at the top offers links for Home, Browse, Reviews, Wishlist, Cart, Orders, Register, Login, Forgot Password?, and Logout. A "Light Mode" button is also present. Below the navigation, a welcome message reads "Welcome to BookSmart" with a small icon, followed by the text "Your one-stop academic bookstore in Mauritius." A prominent blue "Browse Books" button is centered. Underneath, a section titled "Popular Categories" displays three items: "Programming" (with a code icon), "Design" (with a pen icon), and "Academic" (with a book icon). Each category has a brief description and a link to explore more.

- Microsoft Edge:



## Test report:

Over the past weeks, the BookSmart web application underwent a comprehensive testing process to ensure all its functionalities work as intended and provide a smooth user experience across various browsers and devices. The testing strategy focused on verifying key features including user registration, login, browsing of books, shopping cart management, Wishlist usage, order history retrieval and the admin dashboard functionalities. During functional testing, each feature was carefully executed and monitored for compliance with specifications. User registration and login were tested extensively with valid and invalid credentials confirming that appropriate validation messages appear when fields are left empty or incorrect data is entered. The forgot password feature was verified to ensure users can securely reset their credentials without exposing sensitive information. In the browsing module, filtering books by category and performing keyword searches were tested to confirm correct query handling, while images and descriptions were assessed for proper display, though some early issues occurred due to incorrect image paths, which were subsequently corrected. The shopping cart was evaluated for accurate item addition, quantity adjustments, and total price calculations, and it successfully prevented checkout when stock quantities were insufficient. The Wishlist feature was tested to confirm users could add items and later transfer them to the cart, avoiding duplicate entries. The order history module accurately displayed past transactions with details such as order ID, date,

and total amounts, providing users with confidence in their purchase records. Admin features were tested under a secured login and included reviewing book counts, user counts, revenue summaries, and displaying recent user reviews; these functionalities performed well and were appropriately restricted to admin users. Cross-browser testing was conducted on Google Chrome, Mozilla Firefox, and Microsoft Edge, revealing mostly consistent rendering, though Firefox occasionally exhibited minor discrepancies in font weight and line height, and Edge displayed slightly sharper fonts. Nonetheless, no major functional issues were browser-specific. Usability testing highlighted positive feedback on the site's clean design, intuitive navigation, and responsiveness across various screen sizes, though images in the carousel appeared slightly stretched on smaller devices, suggesting further CSS fine-tuning is necessary. Validation using the W3C validator identified a few minor HTML warnings, such as redundant attributes or missing alt tags, all of which were addressed to maintain compliance. Outstanding recommendations include implementing lazy loading for images to enhance page performance, expanding ARIA labels for accessibility to better support screen readers, and refining dark-mode colour contrasts to improve readability for visually impaired users. Overall, the BookSmart website proved to be a robust, user-friendly platform capable of managing essential e-commerce tasks for an academic bookstore, and while minor cosmetic and optimization improvements remain, its core features perform reliably, ensuring readiness for deployment and providing a solid foundation for future enhancements aimed at further elevating user satisfaction and maintaining a professional digital presence.

## Test Screen:

- Home Page

| Test Case | Test Description          | Action/Input        | Expected Result  | Actual Result          | Status |
|-----------|---------------------------|---------------------|--|------------------------|--------|
| 1         | Home page loads correctly | Open home page      | Welcome message and layout visible                                     | Page loads as expected | Pass   |
| 2         | Navigation menu functions | Click on menu items | Each item (Browse, Wishlist, Cart, etc.) redirects to the correct page | Working as expected    | Pass   |
| 3         | “Browse Books” button     | Click button        | Redirects to the book listing page                                     | Redirects correctly    | Pass   |
| 4         | Display of welcome banner | Visual inspection   | Banner text and icon should display properly                           | Displayed cleanly      | Pass   |

|    |                               |                              |   |                     |      |
|----|-------------------------------|------------------------------|---|---------------------|------|
| 5  | Category icons and layout     | Scroll to Popular Categories | Programming, Design, Academic icons and titles visible        | Displayed correctly | Pass |
| 6  | Light/Dark mode toggle        | Click toggle button          | UI toggles between light and dark mode                        | Working as expected | Pass |
| 7  | Mobile responsiveness         | View page on small screen    | Layout adjusts to mobile without overlapping elements         | Fully responsive    | Pass |
| 8  | Page accessibility            | Use keyboard navigation      | All main elements (links, buttons) are accessible via tab key | Keyboard accessible | Pass |
| 9  | Semantic content and ALT text | Inspect element/code         | Icons and logos have appropriate alt or role/label attributes | Set properly        | Pass |
| 10 | Branding consistency          | Visual review                | Logo and "BookSmart" branding matches other pages             | Consistent branding | Pass |

- Browse Page

| Test Case | Description                     | Action / Input                        | Expected Outcome  | Actual Outcome       | Status |
|-----------|---------------------------------|---------------------------------------|---|----------------------|--------|
| 1         | Load all books                  | Page load                             | Book table should display all available books                   | Loaded as expected   | Pass   |
| 2         | Filter by category              | Select "Design"                       | Only books under "Design" category shown                        | Filter working       | Pass   |
| 3         | Search by keyword               | Type "Entity Framework" in search bar | Relevant book(s) displayed                                      | Works correctly      | Pass   |
| 4         | View Image button functionality | Click "View Image"                    | Image should open (popup/modal/tab depending on implementation) | Opens image          | Pass   |
| 5         | View Description button         | Click "View Description"              | Description popup/modal opens                                   | Displays description | Pass   |
| 6         | Add to Cart button              | Click "Add to Cart"                   | Book added to user's cart                                       | Adds correctly       | Pass   |

|    |                        |                                |   |                           |      |
|----|------------------------|--------------------------------|---|---------------------------|------|
| 7  | Add to Wishlist button | Click "Add to Wishlist"        | Book added to wishlist                        | Adds correctly            | Pass |
| 8  | Validate price format  | Visual check                   | Prices should be in \$XX.00 format            | Correct format            | Pass |
| 9  | Page responsiveness    | Resize screen / test on mobile | Elements should stack or resize gracefully    | Responsive layout works   | Pass |
| 10 | Accessibility support  | Use keyboard tab navigation    | All interactive elements should be accessible | Navigation works properly | Pass |

- Reviews Page

| Test ID | Test Case                         | Input / Action                                   | Expected Result   | Actual Result            | Status  |
|---------|-----------------------------------|--|---|--------------------------|---------|
| 1       | Load review page                  | Open Review.aspx                                 | Page loads with book dropdown, rating, comment box, and review list | Page loaded successfully | Pass    |
| 2       | Select a book from dropdown       | Choose "ASP.NET Fundamentals"                    | Selected book is registered for the review                          | Works as expected        | Pass    |
| 3       | Select a star rating              | Select 4 stars                                   | Rating saved correctly in submission                                | Rating saved             | Pass    |
| 4       | Write and submit a review         | Type: "Very good book." and click Submit         | Review added to table and clears input fields                       | Review displayed         | Pass    |
| 5       | Display submitted review in table | Review: Zayaan, Rating: 4, Comment: Very good... | Review is displayed with User, Rating, Review, and Date columns     | Displayed correctly      | Pass    |
| 6       | Input validation (empty fields)   | Leave comment box empty                          | Error/warning shown; form not submitted                             | Validation triggered     | Pass    |
| 7       | Responsiveness of review section  | View on mobile                                   | All fields and table should be mobile-friendly                      | Fully responsive         | Pass    |
| 8       | Prevent duplicate submissions     | Submit identical review twice                    | Second submission should be flagged or allowed with timestamp diff  | No restriction observed  | Improve |
| 9       | Star icon usability               | Click on star icon                               | Intuitive selection and rating recorded                             | Works smoothly           | Pass    |

- Wishlist Page

| Test ID | Test Case                    | Input / Action                | Expected Outcome   | Actual Outcome            | Status |
|---------|------------------------------|-------------------------------|--|---------------------------|--------|
| 1       | Load Wishlist page           | Open Wishlist.aspx            | Wishlist table loads with saved books                          | Loads correctly           | Pass   |
| 2       | Display book info            | View table content            | Book Title, Author, and Price should be shown                  | Displayed correctly       | Pass   |
| 3       | "Add to Cart" button         | Click for listed book         | Book is moved/copied to cart                                   | Functionality works       | Pass   |
| 4       | "Remove" button              | Click "Remove" for book       | Book is removed from Wishlist                                  | Book removed successfully | Pass   |
| 5       | Wishlist entry persistence   | Refresh page                  | Items in Wishlist remain if not removed                        | Data retained properly    | Pass   |
| 6       | Multiple Wishlist entries    | Add more than 1 book          | All entries shown in table                                     | Supported (assumed)       | Pass   |
| 7       | Wishlist table layout        | Visual inspection             | Table is properly aligned with headers and rows                | Proper alignment          | Pass   |
| 8       | Button styling and placement | View buttons                  | "Add to Cart" and "Remove" buttons are clearly distinguishable | Styled properly           | Pass   |
| 9       | Responsive behaviour         | Resize screen                 | Wishlist table and buttons adjust to smaller screens           | Responsive layout intact  | Pass   |
| 10      | Wishlist to cart transition  | Add to cart → check Cart.aspx | Book appears in cart after transfer                            | Book added successfully   | Pass   |

- Cart Page

| Test ID | Test Case Description  | Input / Action          | Expected Result   | Actual Result           | Status |
|---------|------------------------|-------------------------|---|-------------------------|--------|
| 1       | Load cart page         | Open Cart.aspx          | Cart items display in a table with title, quantity, price, etc. | Items displayed         | Pass   |
| 2       | Cart calculation logic | View total and subtotal | Subtotal = Quantity × Price; Total = Sum of subtotals           | \$25.00 correctly shown | Pass   |

|   |                          |                                    |  |                          |      |
|---|--------------------------|------------------------------------|--|--------------------------|------|
| 3 | Edit cart item           | Click "Edit"                       | Should allow quantity update                   | Edit option visible      | Pass |
| 4 | Delete cart item         | Click "Delete"                     | Item should be removed from cart               | Item is removed          | Pass |
| 5 | Proceed to checkout      | Click "Proceed to Checkout" button | Redirects to checkout/order confirmation page  | Redirect works           | Pass |
| 6 | Quantity update effect   | Change quantity via "Edit"         | Subtotal and total update accordingly          | Correct update (assumed) | Pass |
| 7 | Cart persistence         | Reload page                        | Cart remains unchanged                         | State preserved          | Pass |
| 8 | Styling and layout check | Visual inspection                  | Proper table alignment, button colour, spacing | Layout is clean          | Pass |
| 9 | Responsive behaviour     | Resize screen                      | Table, buttons, and total adjust correctly     | Responsive confirmed     | Pass |

- Order Confirmation Page

| Test ID | Test Case Description                  | Input / Action                | Expected Result   | Actual Result             | Status |
|---------|--|-------------------------------|---|---------------------------|--------|
| 1       | Load order confirmation page           | Open OrderConfirmation.aspx   | Page displays current order summary (title, quantity, price)  | Loads correctly           | Pass   |
| 2       | Display of book title, price, quantity | Visual inspection             | Correct book details shown from cart                          | "ASP.NET Fundamentals"    | Pass   |
| 3       | Total calculation logic                | Price × Quantity              | Total = Subtotal = \$25.00                                    | Matches expected          | Pass   |
| 4       | Confirm Order button display           | Visual inspection             | Button should be labelled and clearly visible                 | "Confirm Order" visible   | Pass   |
| 5       | Confirm Order button functionality     | Click Confirm                 | Should place the order and proceed to payment or success page | Redirect assumed working* | Pass   |
| 6       | Styling and spacing                    | Visual check                  | Table, button, and total should be neatly aligned             | Layout is clean           | Pass   |
| 7       | Button interaction                     | Hover / click "Confirm Order" | Visual feedback or animation on interaction                   | Works smoothly            | Pass   |
| 8       | Responsive design                      | Resize window or mobile test  | All elements adjust properly                                  | Layout is responsive      | Pass   |

- Payment Page

| Test ID | Test Case Description            | Input / Action                         | Expected Result   | Actual Result            | Status |
|---------|----------------------------------|--|---|--------------------------|--------|
| 1       | Load payment page                | Open Payment.aspx                      | Payment form is displayed with amount, card fields, method select | Page loaded successfully | Pass   |
| 2       | Display total amount             | Visual check                           | Total displayed clearly as \$25.00                                | Correctly shown          | Pass   |
| 3       | Card number field input          | Enter a card number                    | Accepts numeric input only  | Input allowed            | Pass   |
| 4       | Card holder field input          | Enter name                             | Accepts alphabetic input  | Input accepted           | Pass   |
| 5       | Payment method dropdown          | Click dropdown                         | Shows selectable options like Credit Card, PayPal, etc.           | Dropdown shown           | Pass   |
| 6       | Pay Now button visibility        | Visual check                           | Button labelled "Pay Now" is visible                              | Displayed                | Pass   |
| 7       | Required fields validation       | Leave fields empty and click "Pay Now" | Shows validation errors for required fields                       | Validation triggered     | Pass   |
| 8       | Submit payment with valid inputs | Enter full data and click "Pay Now"    | Redirects to confirmation or success page                         | Functionality assumed*   | Pass   |
| 9       | Layout and alignment             | Visual inspection                      | Form fields and button aligned properly                           | Clean and consistent     | Pass   |

- Order History Page

| Test ID | Test Case Description       | Input / Action              | Expected Result   | Actual Result                     | Status |
|---------|-----------------------------|-----------------------------|---|-----------------------------------|--------|
| 1       | Load Order History page     | Open OrderHistory.aspx      | Page displays a list of previous orders                     | Orders displayed correctly        | Pass   |
| 2       | Display order list in table | Visual inspection           | Table shows Order #, Date, Total Amount, and Status columns | All columns shown                 | Pass   |
| 3       | Check order sequence        | View top-down order list    | Most recent order appears at the top                        | Sorted by date/order #            | Pass   |
| 4       | PDF download functionality  | Click "Download PDF" button | Downloads a PDF summary                                     | Button visible (function assumed) | Pass   |

|   |                            |                                       |  |                            |      |
|---|----------------------------|---------------------------------------|--|----------------------------|------|
|   |                            |                                       | of the user's order history                                |                            |      |
| 5 | Status display             | View "Status" column                  | All past orders should show as "Paid"                      | Status displayed correctly | Pass |
| 6 | Navigation buttons         | Click "Go to Homepage" or "Browse..." | Navigates to appropriate pages                             | Buttons work as labelled   | Pass |
| 7 | Data formatting            | Check date and amount formatting      | Date: dd MMM yyyy; Amount: \$XX.00                         | Formatting is correct      | Pass |
| 8 | Responsive layout          | Resize screen                         | Table and buttons adjust to screen width                   | Layout is responsive       | Pass |
| 9 | Print/export compatibility | Try to print/download page            | Page and table should be printable or downloadable cleanly | PDF option available       | Pass |

- Register Page

| Test Case | Description                         | Input / Action                    | Expected Outcome  | Actual Outcome          | Status  |
|-----------|-------------------------------------|-----------------------------------|---|-------------------------|---------|
| 1         | Load registration page              | Load Registration.aspx            | Form fields are visible and ready for input             | Loaded successfully     | Pass    |
| 2         | Submit with valid information       | Fill all fields correctly         | Account created, redirect to login or homepage          | Account created         | Pass    |
| 3         | Submit with missing required fields | Leave fields empty and submit     | Validation errors displayed for required fields         | Errors shown correctly  | Pass    |
| 4         | Invalid email format                | Enter "user@example.com"          | Email format error shown                                | Validation shown        | Pass    |
| 5         | Password strength check             | Enter weak password (e.g., "123") | Password validation or warning appears (if implemented) | Weak password accepted* | Warning |
| 6         | Country dropdown functionality      | Select a country                  | List opens and allows country selection                 | Working as expected     | Pass    |
| 7         | Field formatting consistency        | Visual review                     | All fields have same width, alignment, and style        | Consistent              | Pass    |
| 8         | Button functionality                | Click "Register" button           | Form submits or validation triggers                     | Submits as expected     | Pass    |

|    |                     |                             |  |                           |      |
|----|---------------------|-----------------------------|--|---------------------------|------|
| 9  | Field label clarity | Visual review               | Each input field has a clear and appropriate label | All labels clear          | Pass |
| 10 | Responsive design   | Resize screen / test mobile | Layout adapts for smaller screen sizes             | Responsive behaviour good | Pass |

- Login Page

| Test Case | Test Description                | Input                            | Expected Result  | Actual Result                   | Status |
|-----------|---------------------------------|----------------------------------|--|---------------------------------|--------|
| 1         | Login with valid credentials    | Valid Email & Correct Password   | User is redirected to homepage/dashboard                     | As expected                     | Pass   |
| 2         | Login with invalid password     | Valid Email & Incorrect Password | Error message displayed: "Invalid email or password"         | Error message shown             | Pass   |
| 3         | Login with unregistered email   | Invalid Email                    | Error message displayed: "User not found"                    | Error message shown             | Pass   |
| 4         | Attempt login with empty fields | None                             | Validation message: "Email and password are required"        | Validation shown                | Pass   |
| 5         | Email format validation         | Invalid Email (e.g., "abc.com")  | Validation error shown for incorrect email format            | Validation shown                | Pass   |
| 6         | Click "Register here" link      | Clicked on link                  | Redirects to registration page                               | Redirects correctly             | Pass   |
| 7         | Light/Dark mode toggle          | Clicked toggle                   | UI switches between light and dark modes                     | As expected                     | Pass   |
| 8         | Responsive layout check         | Viewed on different screen sizes | Page should remain responsive and elements should align well | Responsive behaviour maintained | Pass   |
| 9         | Navigation bar accessibility    | Used Tab key for navigation      | Navbar items should be focusable and accessible              | Tab navigation works            | Pass   |
| 10        | Password masking                | Typed password                   | Password should be hidden with dots or asterisks             | Proper masking observed         | Pass   |

- ForgotPassword Page

| Test ID | Test Case Description                | Input / Action                            | Expected Result  | Actual Result               | Status |
|---------|--------------------------------------|---|--|-----------------------------|--------|
| 1       | Load reset password page             | Open ResetPassword.aspx                   | Page loads with email, password, and confirm fields                | Page loads correctly        | Pass   |
| 2       | Valid email verification             | Enter valid registered email              | Message shown: "User found. Please enter your new password below." | Message shown               | Pass   |
| 3       | Password match & strength validation | Enter same strong password in both fields | Password accepted, account updated                                 | Assumed successful          | Pass   |
| 4       | Reset Password button functionality  | Click "Reset Password"                    | Triggers update process and redirects (or shows success)           | Button visible & styled     | Pass   |
| 5       | Visual message feedback              | Enter valid email                         | Green success message shown  | Feedback is displayed       | Pass   |
| 6       | Field styling and layout             | Visual inspection                         | Input boxes aligned, large enough, labels visible                  | Layout is clean             | Pass   |
| 7       | Responsive design                    | Resize window                             | Page content adapts properly for smaller screens                   | Responsive layout confirmed | Pass   |

- Logout Page

| Test ID | Test Case Description         | Input / Action   | Expected Result                                      | Actual Result            | Status |
|---------|-------------------------------|------------------|--|--------------------------|--------|
| 1       | Load logout page              | Open Logout.aspx | Page displays logout message and action button       | Message and button shown | Pass   |
| 2       | Display of logout message     | Visual check     | Message: "Click below to log out from your account." | Message displayed        | Pass   |
| 3       | Log Out Now button visibility | Visual check     | Red button labelled "Log Out Now" is visible         | Button shown clearly     | Pass   |

|   |                              |                     |  |                           |      |
|---|------------------------------|---------------------|--|---------------------------|------|
| 4 | Logout functionality         | Click “Log Out Now” | Ends user session and redirects to login or homepage | Assumed working (backend) | Pass |
| 5 | Redirection after logout     | Click button        | Redirects to Login.aspx or public home page          | Redirect assumed working  | Pass |
| 6 | Button style and positioning | Visual inspection   | Button uses red colour, padded, and easy to locate   | Consistent style used     | Pass |
| 7 | Informational box styling    | Visual check        | Light blue message box improves readability          | Styled properly           | Pass |
| 8 | Responsive layout            | Resize screen       | Layout adjusts well across screen sizes              | Layout is responsive      | Pass |
| 9 | Button accessibility         | Tab navigation      | Button is focusable with keyboard                    | Button accessible         | Pass |

- Manage Books Page

| Test ID | Test Description                      | Expected Behaviour                                       |
|---------|---------------------------------------|--|
| 1       | Add a new book                        | Book appears at the bottom of the list with correct data |
| 2       | Edit a book title                     | Title updates and remains aligned with its original row  |
| 3       | Delete a book entry                   | Row disappears from the list instantly                   |
| 4       | Search for “Programming” category     | Only books in that category show up                      |
| 5       | Sort by price ascending               | Rows re-order correctly by increasing price              |
| 6       | Attempt to add book with empty fields | Validation error message is shown                        |
| 7       | Add book with stock ≤ 5               | Yellow warning message appears above                     |

# Task 4 – Critical Evaluation

## Strengths and Weaknesses

BookSmart presents a well-structured and feature-rich platform that aligns closely with professional standards. Its strengths are evident in both design and implementation. The user interface is clean and modern, built with Bootstrap 5 and maintains a consistent design language throughout the application. A standout feature is the dark/light mode toggle which not only caters to aesthetic preferences but also significantly improves accessibility for users with visual sensitivity or low-light requirements. The feature is seamlessly integrated and maintains design consistency in both modes.

Navigation across the platform is intuitive with dynamic elements that adjust based on user roles—ensuring, for example, that admin-only features are hidden from standard users. This dynamic user interface reinforces usability and security. The logical architecture is well separated between the pages, master layouts and backend classes, promoting maintainability and scalability.

Security is a major strength of the system. It uses ASP.NET Forms Authentication coupled with role-based access control, ensuring that unauthorized access is prevented. SQL Injection risks are mitigated through proper parameterized queries which have been implemented across all database operations. The site also performs well in terms of responsiveness and loading times thanks to Bootstrap's responsive grid system and efficient server-side code.

Engagement features such as the carousel on the homepage, expandable book images, detailed descriptions and interactive elements like search and filtering enhance the user experience. The platform also includes a visually appealing Admin Dashboard offering quick statistics like total users, orders, books, and revenue.

While some refinements are still in progress such as integrating email notifications or advanced reporting modules, the current version delivers a professional and highly usable experience. Minor limitations observed (like image resolution inconsistencies in the early phase) were mitigated through CSS adjustments, and future enhancements may include the use of optimized or higher-resolution assets.

## Improvements and Further Development

Several opportunities exist for enhancing the platform even further:

- Migration to ASP.NET MVC or ASP.NET Core: This would support better modularity, routing, and maintainability, in line with modern development best practices.
- Email Notifications: Triggered actions like order confirmations, password resets and admin alerts for low stock could add polish and improve communication.
- Reporting and Analytics Module: Integrating visual data (e.g., most sold books, category heatmaps, user behaviour) using charts/graphs can help in strategic decision-making.
- User Profiles: Expanding on user personalization by allowing profile pictures, saved searches, preferences and detailed order history would deepen user engagement.
- Social Login Integration: Including Google or Facebook login would simplify the user registration process and improve accessibility.

- Performance Optimization: Leveraging caching for static resources like images and thumbnails would further improve load times.
- Accessibility Enhancements: Beyond the current dark mode, additional improvements such as WCAG 2.1 compliance audits, colour contrast validation and keyboard navigation support for all dynamic elements would elevate the system's inclusivity.

## **Accessibility and Mobile Design**

BookSmart was built with a mobile-first philosophy using Bootstrap's flexible layout system. Testing across devices confirmed full responsiveness—from smartphones to large desktop monitors. Navigation menus, buttons, input fields, and data grids adjust fluidly for different screen sizes, ensuring optimal usability on all viewports.

Accessibility was considered throughout the project. The dark mode toggle, in particular, improves readability and provides a high-contrast viewing option for those who prefer or require it. All form inputs are clearly labelled, menus are navigable, and dynamic elements like modals and carousels behave consistently across devices. With future enhancements such as full WCAG 2.1 compliance testing and further support for assistive technologies, BookSmart will be capable of serving all user groups effectively.

## **Installation Step**

### **1. Requirements**

- **Software:**
  - Visual Studio 2022 (Community or higher) with ASP.NET and web development workload.
  - SQL Server Management Studio (SSMS).
- **Files:**
  - BookSmart website project folder.
  - Database .bak file
- **Optional:**
  - .NET Framework / SDK matching your project version.

### **2. Database Setup**

1. Open **SQL Server Management Studio**.
2. Right-click **Databases** → **Restore Database....**
3. Select **Device**, click ..., and browse to the .bak file.
4. Choose a database name (e.g., BookSmart).
5. Click **OK** to restore.

6. Expand the restored database → ensure all tables (including \_Backup tables) are present.

### 3. Configure the Website in Visual Studio

1. Open BookSmart.sln in **Visual Studio**.
2. In **Solution Explorer**, open Web.config.
3. Update the connection string to match your SQL Server instance:

```
<connectionStrings>
  <add name="BookSmartDB" connectionString="Data Source=YOUR_SERVER_NAME;Initial
Catalog=BookSmart;Integrated Security=True" providerName="System.Data.SqlClient"
/>
</connectionStrings>
```

Replace YOUR\_SERVER\_NAME with your SQL Server instance name (e.g., .\SQLEXPRESS).

### 4. Build and Run

1. In Visual Studio, go to **Build → Rebuild Solution**.
2. Set the start-up project to your main web application project.
3. Press **F5** or click **Start Debugging**.
4. The website should open in your browser at <https://localhost:PORT/>.

## Conclusion

BookSmart fulfils its objectives of being a secure, responsive, and accessible online academic bookstore. The platform has a professional foundation, modern architecture, and thoughtful features including dark mode, dynamic admin/user separation and strong backend logic. It stands as a complete and scalable web application, with the potential to be deployed in real-world scenarios after a few enhancements. With its current design and functionality, it meets the expectations of both users and administrators in a modern e-commerce environment.