



IPT102 – INTEGRATIVE PROGRAMMING AND TECHNOLOGIES

WEEK 10 LABORATORY ACTIVITY

NAME: CAHILIG, EFREN DAVE

NAME: PARONI, JOHN KYLE S.

YEAR/SECTION: 1ST YEAR/ SBIT-3R

DATE: 10/31/25

SCORE

PERCENTAGE

Laboratory Activity: Integrating Model — View — Controller (MVC) using Layout & CSS (VB.NET)

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Book Catalog

Home Books

Books

Create New

Title	Author	Year Published
The Pragmatic Programmer	Andrew Hunt	1999
Clean Code	Robert C. Martin	2008

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~/Views/Shared/ Layout.vbhtml

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Book Catalog

Home Books

Create New Book

Title

HARRY POTTER

Author

J. K. Rowling

YearPublished

1997

Create

Back to List

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SOURCE CODE

```
_Layout.vbhtml | BooksController.vb | Index.vbhtml | Site.css | Web.config | Create.vbhtml | BookRepository.vb | Book.vb
1 <!DOCTYPE html>
2 <html>
3 <head>
4     <meta charset="utf-8" />
5     <meta name="viewport" content="width=device-width, initial-scale=1.0">
6     <title>@ViewBag.Title - Book Catalog</title>
7     @Styles.Render("~/Content/css")
8     @Scripts.Render("~/bundles/modernizr")
9 </head>
10 <body>
11     <nav class="navbar navbar-expand-sm navbar-toggleable-sm navbar-dark bg-dark">
12         <div class="container">
13             @Html.ActionLink("Book Catalog", "Index", "Home", New With { .area = "" }, New With { .class = "navbar-brand" })
14             <button type="button" class="navbar-toggler" data-bs-toggle="collapse" data-bs-target=".navbar-collapse" title="Toggle navigation" aria-controls="navbarSupportedContent"
15                 aria-expanded="false" aria-label="Toggle navigation">
16                 <span class="navbar-toggler-icon"></span>
17             </button>
18             <div class="collapse navbar-collapse d-sm-inline-flex justify-content-between">
19                 <ul class="navbar-nav flex-grow-1">
20                     <li>@Html.ActionLink("Home", "Index", "Home", New With { .area = "" }, New With { .class = "nav-link" })</li>
21                     <li>@Html.ActionLink("Books", "Index", "Books", New With { .area = "" }, New With { .class = "nav-link" })</li>
22                 </ul>
23             </div>
24         </div>
25     </nav>
26     <div class="container body-content">
27         @RenderBody()
28         <hr />
29         <footer>
30             <p>©copy; @DateTime.Now.Year - Book Catalog</p>
31         </footer>
32         <a href="~/Views/Shared/_Layout.vbhtml"~/Views/Shared/_Layout.vbhtml</a>
33     </div>
34     @Scripts.Render("~/bundles/jquery")
35     @Scripts.Render("~/bundles/bootstrap")
36     @RenderSection("scripts", required:=False)
37 </body>
38 </html>
39
40
```

HOME CONTROLLER

```
HomeController.vb | _Layout.vbhtml | BooksController.vb | Index.vbhtml | Site.css | Web.config | Create.vbhtml | BookRepository.vb | Book.vb
BookCatalogVB | HomeController
1 Public Class HomeController
2     Inherits System.Web.Mvc.Controller
3
4     Function Index() As ActionResult
5         Return View()
6     End Function
7
8     Function About() As ActionResult
9         ViewData("Message") = "Your application description page."
10
11         Return View()
12     End Function
13
14     Function Contact() As ActionResult
15         ViewData("Message") = "Your contact page."
16
17         Return View()
18     End Function
19 End Class
20
```

BOOK CONTROLLER

```
HomeController.vb | _Layout.vbhtml | BooksController.vb | Index.vbhtml | Site.css | Web.config | Create.vbhtml | BookRepository.vb | Book.vb
BookCatalogVB | BooksController
1 Imports System.Web.Mvc
2 Imports BookCatalogVB.Models
3
4 Namespace Controllers
5     Public Class BooksController
6         Inherits Controller
7
8         ' GET: Books
9         Function Index() As ActionResult
10             Dim books = BookRepository.GetAll()
11             Return View(books)
12         End Function
13
14         ' GET: Books/Create
15         Function Create() As ActionResult
16             Return View()
17         End Function
18
19         ' POST: Books/Create
20         <HttpPost>
21         <ValidateAntiForgeryToken>
22         Function Create(book As Book) As ActionResult
23             If ModelState.IsValid Then
24                 BookRepository.Add(book)
25                 Return RedirectToAction("Index")
26             End If
27             Return View(book)
28         End Function
29     End Class
30 End Namespace
31
```



MODEL BOOKS

BookCatalogVB

Book

YearPublished

```
1 Namespace Models
2
3     Public Class Book
4
5         Public Property Id As Integer
6
7         Public Property Title As String
8
9         Public Property Author As String
10
11        Public Property YearPublished As Integer
12    End Class
13 End Namespace
```

CREATE VIEWS

ome.controller.vb _Layout.vbhtml BooksController.vb Index.vbhtml Site.css Web.config Create.vbhtml BookRepository.vb Book.vb

```
1 @ModelType BookCatalogVB.Models.Book
2 @Code
3 ViewData("Title") = "Create New Book"
4 End Code
5
6 <h2>Create New Book</h2>
7
8 @using Html.BeginForm()
9 @Html.AntiForgeryToken()
10
11 <div class="form-horizontal">
12     @Html.ValidationSummary(true, "", New With {.class = "text-danger"})
13
14     <div class="form-group">
15         @Html.LabelFor(Function(model) model.Title, htmlAttributes:=New With {.class = "control-label col-md-2"})
16         <div class="col-md-10">
17             @Html.EditorFor(Function(model) model.Title, New With {.htmlAttributes = New With {.class = "form-control"}})
18             @Html.ValidationMessageFor(Function(model) model.Title, "", New With {.class = "text-danger"})
19         </div>
20     </div>
21
22     <div class="form-group">
23         @Html.LabelFor(Function(model) model.Author, htmlAttributes:=New With {.class = "control-label col-md-2"})
24         <div class="col-md-10">
25             @Html.EditorFor(Function(model) model.Author, New With {.htmlAttributes = New With {.class = "form-control"}})
26             @Html.ValidationMessageFor(Function(model) model.Author, "", New With {.class = "text-danger"})
27         </div>
28     </div>
29
30     <div class="form-group">
31         @Html.LabelFor(Function(model) model.YearPublished, htmlAttributes:=New With {.class = "control-label col-md-2"})
32         <div class="col-md-10">
33             @Html.EditorFor(Function(model) model.YearPublished, New With {.htmlAttributes = New With {.class = "form-control", .type = "number", .min = "1999", .max = DateTime.Now.Year}})
34             @Html.ValidationMessageFor(Function(model) model.YearPublished, "", New With {.class = "text-danger"})
35         </div>
36     </div>
37
38     <div class="form-group">
39         <div class="col-md-offset-2 col-md-10">
40             <input type="submit" value="Create" class="btn btn-primary" />
41             @Html.ActionLink("Back to List", "Index", Nothing, New With {.class = "btn btn-default"})
42         </div>
43     </div>
44 </div>
45 End Using
46
47 @Section Scripts
48 @Scripts.Render("~/bundles/jqueryval")
```