

# Problem 03 Lab 04

## Problem Statement:

**Problem 3)** Refer to Lab 1 in which paper prototyping and HTML interfaces were developed for Pine Valley Furniture Company. The next task is to convert plain html into web forms in order to realize a web application. The application should incorporate following functionalities:

- i) New Customer Registration
  - ii) Searching of Products → matching of products on description
  - iii) Products Selection and Order Placement
  - iv) Product Catalog Update
  - v) Payment Provision
- (Develop in Visual studio and the host it on your site)

## Output:

- [Home](#)
- [Registration](#)
- [Catalogue Update](#)
- [Help](#)

table  Search

| Name         | Description | Price    | Action                           |
|--------------|-------------|----------|----------------------------------|
| End Table    | Cherry      | \$140.00 | <a href="#">View &amp; Order</a> |
| Coffee Table | Ash         | \$220.00 | <a href="#">View &amp; Order</a> |
| Counter Desk | Walnut      | \$330.00 | <a href="#">View &amp; Order</a> |
| Writers Desk | White Ash   | \$440.00 | <a href="#">View &amp; Order</a> |
| Dining Table | Natural Ash | \$190.00 | <a href="#">View &amp; Order</a> |

- [Home](#)
- [Registration](#)
- [Catalogue Update](#)
- [Help](#)

ash  Search

| Name         | Description | Price    | Action                           |
|--------------|-------------|----------|----------------------------------|
| Coffee Table | Ash         | \$220.00 | <a href="#">View &amp; Order</a> |
| Writers Desk | White Ash   | \$440.00 | <a href="#">View &amp; Order</a> |

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## Customer Registration Form

Customer Name:

City:

State:

Postal Address:

Password:

Email

## Employee Login Form

*Note: Login to Update Catalogue*

## Update Catalogue

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## Order Details

Product Name: Writers Desk

Description: White Ash

Price: \$440

Quantity:

Total: \$440.00

[Proceed to Pay](#)

# Payment Processing

Please select a payment method

Bank Card

Cash On Delivery

## Enter Card Details

|                   |   |
|-------------------|---|
| Visa Card         | ▼ |
| Enter Exact Name  |   |
| Enter Card Number |   |
| Enter Expiry Date |   |
| Enter CVV         |   |

Confirm Order

### Code:

#### Home.aspx

```
<%@ Page Language="VB" AutoEventWireup="false"  
CodeFile="home.aspx.vb" Inherits="_Default" %>
```

```
<!DOCTYPE html>
```

```
<html xmlns="http://www.w3.org/1999/xhtml">  
<head runat="server">  
  <title></title>  
</head>
```

```

<body>
  <form id="form1" runat="server">

<asp:BulletedList ID="BulletedList1" runat="server"
DisplayMode="HyperLink">
  <asp:ListItem Value="#">Home</asp:ListItem>
  <asp:ListItem
Value="registration.aspx">Registration</asp:ListItem>
  <asp:ListItem Value="employeelogin.aspx">Catalogue
Update</asp:ListItem>
  <asp:ListItem Value="helppage.aspx">Help</asp:ListItem>

</asp:BulletedList>

  <asp:TextBox ID="txtSearch" runat="server" placeholder="Search
Product" style="margin-left: 24px" Width="437px"></asp:TextBox>
  <asp:Button ID="btnSearch" runat="server" Text="Search"
OnClick="BtnSearch_Click" style="margin-left: 14px" Width="156px" />

  <br /> <br />

  <asp:GridView ID="gvProducts" runat="server" Height="573px"
style="margin-right: 0px" Width="1078px"
AutoGenerateColumns="false">
  <Columns>
    <asp:BoundField DataField="Product_Name" HeaderText="Name"
/>

```

```

        <asp:BoundField DataField="Product_Finish"
HeaderText="Description" />
        <asp:BoundField DataField="Price" HeaderText="Price"
DataFormatString="{0:C}" />
        <asp:TemplateField HeaderText="Action">
            <ItemTemplate>
                <asp:HyperLink ID="lnkOrder" runat="server"
                    Text="View & Order"
                    NavigateUrl='<%# "order.aspx?name=" &
Server.UrlEncode(Eval("Product_Name")) & "&desc=" &
Server.UrlEncode(Eval("Product_Finish")) & "&price=" & Eval("Price")
%>'>
                    </asp:HyperLink>
                </ItemTemplate>
            </asp:TemplateField>
        </Columns>
    </asp:GridView>

</form>
</body>
</html>

```

## [Home.aspx.vb](#)

Partial Class \_Default

Inherits System.Web.UI.Page

```

    Private Sub _Default_Load(sender As Object, e As EventArgs)
        Handles Me.Load
        If Not IsPostBack Then
            ShowAllProducts()
        End If
    End Sub

```

```

Private Sub ShowAllProducts()
    Dim products As New List(Of Product) From {
        New Product With {.Product_Name = "End Table",
.Product_Finish = "Cherry", .Price = 140.0},
        New Product With {.Product_Name = "Coffee Table",
.Product_Finish = "Ash", .Price = 220.0},
        New Product With {.Product_Name = "Counter Desk",
.Product_Finish = "Walnut", .Price = 330.0},
        New Product With {.Product_Name = "Writers Desk",
.Product_Finish = "White Ash", .Price = 440.0},
        New Product With {.Product_Name = "Dining Table",
.Product_Finish = "Natural Ash", .Price = 190.0},
        New Product With {.Product_Name = "Study Table",
.Product_Finish = "Natural Ash", .Price = 410.0},
        New Product With {.Product_Name = "Computer Desk",
.Product_Finish = "Cherry", .Price = 110.0},
        New Product With {.Product_Name = "Fancy Chair Set",
.Product_Finish = "Pine", .Price = 230.0},
        New Product With {.Product_Name = "Walnut Dest",
.Product_Finish = "Walnut", .Price = 300.0}
    }
    gvProducts.DataSource = products
    gvProducts.DataBind()
End Sub

```

```

Protected Sub BtnSearch_Click(sender As Object, e As EventArgs)
    Dim products As New List(Of Product) From {
        New Product With {.Product_Name = "End Table",
.Product_Finish = "Cherry", .Price = 140.0},
        New Product With {.Product_Name = "Coffee Table",
.Product_Finish = "Ash", .Price = 220.0},
        New Product With {.Product_Name = "Counter Desk",
.Product_Finish = "Walnut", .Price = 330.0},
        New Product With {.Product_Name = "Writers Desk",
.Product_Finish = "White Ash", .Price = 440.0},

```

```

        New Product With {.Product_Name = "Dining Table",
.Product_Finish = "Natural Ash", .Price = 190.0},
        New Product With {.Product_Name = "Study Table",
.Product_Finish = "Natural Ash", .Price = 410.0},
        New Product With {.Product_Name = "Computer Desk",
.Product_Finish = "Cherry", .Price = 110.0},
        New Product With {.Product_Name = "Fancy Chair Set",
.Product_Finish = "Pine", .Price = 230.0},
        New Product With {.Product_Name = "Walnut Dest",
.Product_Finish = "Walnut", .Price = 300.0}
    }

```

```

Dim keyword As String = txtSearch.Text.ToLower()

```

```

Dim results = products.Where(Function(p) _
    p.Product_Name.ToLower().Contains(keyword) OrElse
    p.Product_Finish.ToLower().Contains(keyword)).ToList()

```

```

    gvProducts.DataSource = results
    gvProducts.DataBind()
End Sub

```

```

End Class

```

```

Public Class Product
    Public Property Product_Name As String
    Public Property Product_Finish As String
    Public Property Price As Double
End Class

```

### **Registration.aspx:**

```

<%@ Page Language="VB" AutoEventWireup="false"
CodeFile="registration.aspx.vb" Inherits="_Default" %>

```

```

<!DOCTYPE html>

```

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
    <div>

      <asp:Label ID="Label1" runat="server" Text="<h1>Customer
Registration Form</h1>"></asp:Label>
      <asp:Label ID="Label2" runat="server" Text="Customer
Name:"></asp:Label>
      <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
      <br />

      <asp:Label ID="Label3" runat="server" Text="City:"></asp:Label>
      <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox> <br
/>

      <asp:Label ID="Label4" runat="server" Text="State:"></asp:Label>
      <asp:TextBox ID="TextBox3" runat="server"></asp:TextBox> <br
/>

      <asp:Label ID="Label5" runat="server" Text="Postal
Address:"></asp:Label>
      <asp:TextBox ID="TextBox4" runat="server"
TextMode="Number"></asp:TextBox> <br />

      <asp:Label ID="Label6" runat="server"
Text="Password:"></asp:Label>
      <asp:TextBox ID="TextBox5" runat="server"
TextMode="Password"></asp:TextBox> <br />

      <asp:Label ID="Label7" runat="server" Text="Email"></asp:Label>
      <asp:TextBox ID="TextBox6" runat="server"
TextMode="Email"></asp:TextBox> <br />
    </div>
  </form>
</body>
</html>
```

```
<asp:Button ID="Button1" runat="server" Text="Submit" />

</div>
</form>

</body>
</html>
```

### **Order.aspx:**

```
<%@ Page Language="VB" AutoEventWireup="false"
CodeFile="order.aspx.vb" Inherits="_Default" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
    <h2>Order Details</h2>
    <asp:Label ID="lblName" runat="server"></asp:Label><br />
    <asp:Label ID="lblDesc" runat="server"></asp:Label><br />
    <asp:Label ID="lblPrice" runat="server"></asp:Label><br />
    <asp:HiddenField ID="hfPrice" runat="server" />
    <asp:Label ID="Qnty" runat="server"
Text="Quantity:"></asp:Label>
    <asp:TextBox ID="Quantity_TB" runat="server"
TextMode="Number" Min="1" Text="1"
AutoPostBack="true"></asp:TextBox><br />
    <asp:Label ID="lbltotal" runat="server"
Text="Total:"></asp:Label><br />
```

```
<a href="payment.aspx" ><input id="Button1" type="button"
value="Proceed to Pay" /> </a><br />
```

```
</form>
</body>
</html>
```

### **Payment.aspx:**

```
<%@ Page Language="VB" AutoEventWireup="false"
CodeFile="payment.aspx.vb" Inherits="_Default" %>
```

```
<!DOCTYPE html>
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head runat="server">
```

```
<title></title>
```

```
</head>
```

```
<body>
```

```
<form id="form1" runat="server">
```

```
<h1>Payment Processing</h1>
```

```
<asp:Label ID="lblMessage" runat="server" ></asp:Label>
```

```
</br> <br>
```

```
<asp:RadioButton ID="cardRad" runat="server" Text="Bank Card"
GroupName="payment" AutoPostBack="True"/>
```

```
<p>
```

```
<asp:RadioButton ID="cashRad" runat="server" Text="Cash On
Delivery" GroupName="payment" AutoPostBack="True"/>
```

```
</p>
```

```
<asp:Panel ID="pnlCardDetails" runat="server" Height="205px">
```

```
<h2>Enter Card Details </h2>
```

```
<asp:DropDownList ID="DropDownList1" runat="server">
```

```
<asp:ListItem Value="1">Visa Card</asp:ListItem>
<asp:ListItem Value="2">Master Card</asp:ListItem>
</asp:DropDownList> <br />
```

```
<asp:TextBox ID="TextBox1" runat="server" placeholder="Enter
Exact Name"></asp:TextBox>
<br />
<asp:TextBox ID="TextBox2" runat="server" placeholder="Enter
Card Number"></asp:TextBox> <br />
<asp:TextBox ID="TextBox3" runat="server" placeholder="Enter
Expiry Date"></asp:TextBox> <br />
<asp:TextBox ID="TextBox4" runat="server" placeholder="Enter
CVV"></asp:TextBox>

</asp:Panel>
```

```
<asp:Button ID="Button1" runat="server" Text="Confirm Order" />
```

```
</form>
</body>
</html>
```

## UpdateCatalogue.aspx

```
<%@ Page Language="VB" AutoEventWireup="false"
CodeFile="updatecatalogue.aspx.vb" Inherits="_Default" %>
```

```
<!DOCTYPE html>
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
    <h1>Update Catalogue</h1>
```

```
<asp:TextBox ID="TextBox1" runat="server" placeholder="Enter Product Name"></asp:TextBox> <br />
```

```
<asp:TextBox ID="TextBox2" runat="server" placeholder="Enter Product Finish"></asp:TextBox> <br />
```

```
<asp:TextBox ID="TextBox3" runat="server" placeholder="Enter Product Price" TextMode="Number"></asp:TextBox> <br />
```

```
<asp:TextBox ID="TextBox4" runat="server" placeholder="Enter Quantity" TextMode="Number"></asp:TextBox> <br />
```

```
<asp:Button ID="Button1" runat="server" Text="Confirm Update" />
```

```
</form>  
</body>  
</html>
```