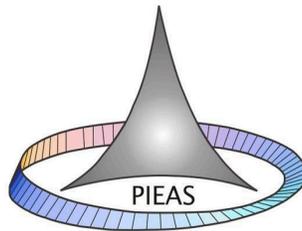


CODE FILE

Name: Nayab Ibrahim
Department: CIS
Course: IAD
Lab no: 05
Registration no: 040



Pakistan Institute of Engineering and Applied Science

Help.aspx

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="help.aspx.vb" Inherits="help"
%>
<!DOCTYPE html>
<html>
<head runat="server">
<title>Help</title>
<link href="style.css" rel="stylesheet" />
</head>
<body>
<form runat="server">

<header>
<h1>Pine Valley Furnishing</h1>
</header>

<ul>
<li>Use menu to navigate pages.</li>
<li>Register before placing order.</li>
<li>Contact support for assistance.</li>
</ul>

<asp:Button ID="btnBack" runat="server" Text="Back" OnClick="btnBack_Click" />

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

[help.aspx.vb](#)

Partial Class help

Inherits System.Web.UI.Page

Protected Sub btnBack_Click(sender As Object, e As EventArgs)

 Response.Redirect("index.aspx")

End Sub

End Class

Pine Valley Furnishing

- Use menu to navigate pages.
- Register before placing order.
- Contact support for assistance.

[Back](#)

Index.aspx

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="index.aspx.vb"
Inherits="index" %>
<!DOCTYPE html>
<html>
<head runat="server">
  <title>Pine Valley Furnishing</title>
  <link href="style.css" rel="stylesheet" />
</head>
<body>
<form runat="server">

<header>
<h1>Pine Valley Furnishing</h1>
</header>

<div class="container">
<div class="menu">
<asp:LinkButton ID="lnkSearch" runat="server" OnClick="lnkSearch_Click">Search
Product</asp:LinkButton>
<asp:LinkButton ID="lnkOrder" runat="server" OnClick="lnkOrder_Click">Place
Order</asp:LinkButton>
<asp:LinkButton ID="lnkHelp" runat="server" OnClick="lnkHelp_Click">Help</asp:LinkButton>
<asp:LinkButton ID="lnkLogin" runat="server" OnClick="lnkLogin_Click">Login /
Register</asp:LinkButton>
<asp:LinkButton ID="lnkCustomer_Update" runat="server" OnClick="lnkcust_update_Click"
Height="30px" Width="230px">Update inforamtion</asp:LinkButton>
```

</div>

</div>

</form>

</body>

</html>

[index.aspx.vb](#)

Partial Class index

Inherits System.Web.UI.Page

Protected Sub InkSearch_Click(sender As Object, e As EventArgs)

 Response.Redirect("search.aspx")

End Sub

Protected Sub InkOrder_Click(sender As Object, e As EventArgs)

 Response.Redirect("order.aspx")

End Sub

Protected Sub InkHelp_Click(sender As Object, e As EventArgs)

 Response.Redirect("help.aspx")

End Sub

Protected Sub InkLogin_Click(sender As Object, e As EventArgs)

 Response.Redirect("login_as.aspx")

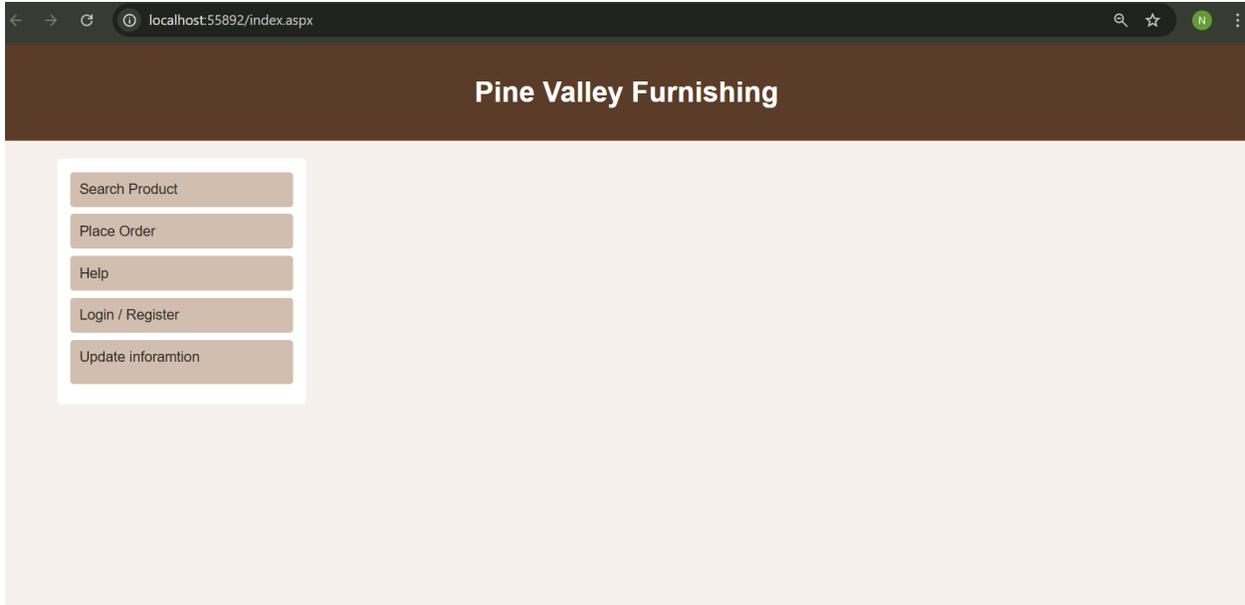
End Sub

Protected Sub InkCust_update_Click(sender As Object, e As EventArgs)

 Response.Redirect("Customer_Update.aspx")

End Sub

End Class



Index_emp.aspx

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="index_emp.aspx.vb"
Inherits="index_emp" %>
<!DOCTYPE html>
<html>
<head runat="server">
<title>Employee Home</title>
<link href="style.css" rel="stylesheet" />
</head>
<body>
<form runat="server">

<header>
<h1>Pine Valley Furnishing</h1>
</header>

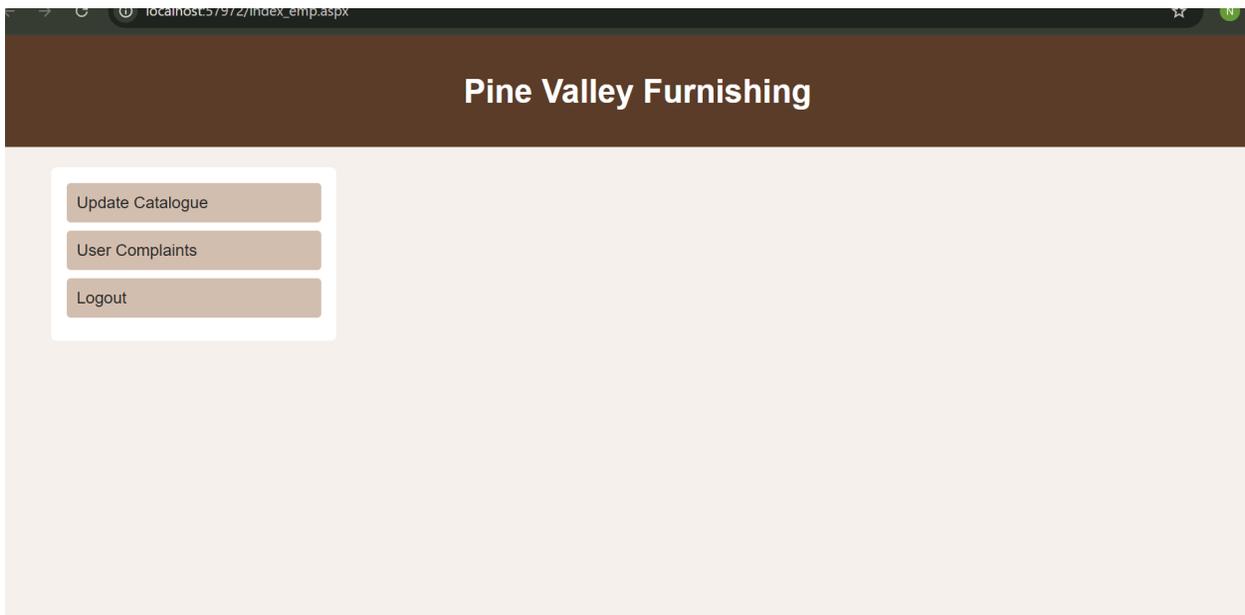
<div class="container">
<div class="menu">
<asp:LinkButton ID="lnkUpdate" runat="server"PostBackUrl="update.aspx">Update
Catalogue</asp:LinkButton>
<asp:LinkButton ID="lnkHelp" runat="server"PostBackUrl="help.aspx">User
Complaints</asp:LinkButton>
<asp:LinkButton ID="lnkLogout" runat="server"
PostBackUrl="index.aspx">Logout</asp:LinkButton>
</div>
</div>
```

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

[index_emp.aspx.vb](#)

Partial Class index_emp
Inherits System.Web.UI.Page

End Class



Login_as.aspx

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="login_as.aspx.vb"
Inherits="login_as" %>
<!DOCTYPE html>
<html>
<head runat="server">
<title>Login Option</title>
<link href="style.css" rel="stylesheet" />
</head>
<body>
<form runat="server">

<header>
<h1>Pine Valley Furnishing</h1>
```

```
</header>

<div class="form-box">
<h2>Login Options</h2>

<asp:LinkButton ID="lnkEmp" runat="server" OnClick="lnkEmp_Click">Login As
Employee</asp:LinkButton>
<asp:LinkButton ID="lnkCust" runat="server" OnClick="lnkCust_Click">Login As
Customer</asp:LinkButton>

<asp:Button ID="btnBack" runat="server" Text="Back" OnClick="btnBack_Click" />

</div>

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

login_as.aspx.vb

Partial Class login_as

Inherits System.Web.UI.Page

```
Protected Sub lnkEmp_Click(sender As Object, e As EventArgs)
    Response.Redirect("login_emp.aspx")
End Sub
```

```
Protected Sub lnkCust_Click(sender As Object, e As EventArgs)
    Response.Redirect("login_cust.aspx")
End Sub
```

```
Protected Sub btnBack_Click(sender As Object, e As EventArgs)
    Response.Redirect("index.aspx")
End Sub
```

End Class

Pine Valley Furnishing

Login Options

Login As Employee

Login As Customer

Back

Cust_index.aspx

Partial Class login_as

Inherits System.Web.UI.Page

Protected Sub InkEmp_Click(sender As Object, e As EventArgs)

 Response.Redirect("login_emp.aspx")

End Sub

Protected Sub InkCust_Click(sender As Object, e As EventArgs)

 Response.Redirect("login_cust.aspx")

End Sub

Protected Sub btnBack_Click(sender As Object, e As EventArgs)

 Response.Redirect("index.aspx")

End Sub

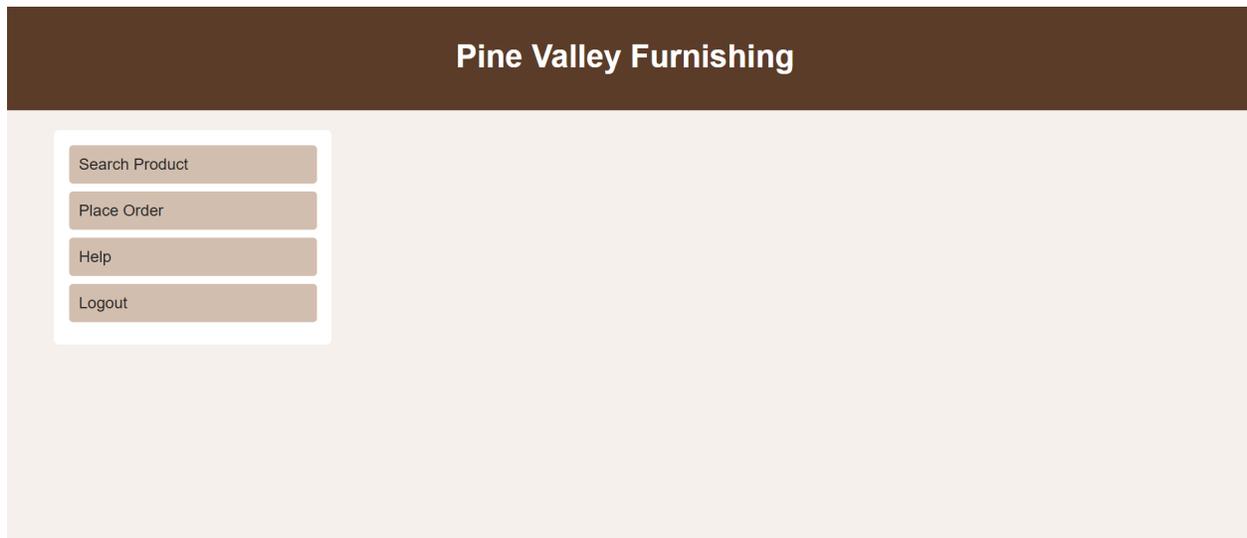
End Class

[cust_index.aspx.vb](#)

Partial Class index_cust

Inherits System.Web.UI.Page

End Class



Login_cust.aspx

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="login_cust.aspx.vb"
Inherits="login_cust" %>
<!DOCTYPE html>
<html>
<head runat="server">
<title>Customer Login</title>
<link href="style.css" rel="stylesheet" />
</head>
<body>
<form runat="server">

<header>
<h1>Pine Valley Furnishing</h1>
</header>

<div class="form-box">
<h2>Customer Login</h2>

<asp:TextBox ID="txtCustID" runat="server" Text="CUST001"
ReadOnly="True"></asp:TextBox>
<asp:TextBox ID="txtPassword" runat="server" TextMode="Password" Text="22345"
ReadOnly="True"></asp:TextBox>

<asp:Button ID="btnLogin" runat="server" PostBackUrl="index_cust.aspx" Text="Login" />
<asp:Button ID="btnBack" runat="server" PostBackUrl="login_as.aspx" Text="Back" />
```

```
<p>Don't have an account?
<asp:HyperLink ID="HyperLink1" runat="server" NavigateUrl="register.aspx"
CssClass="text-link">Register</asp:HyperLink>
</p>

</div>

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

login_cust.aspx.vb

```
Partial Class login_cust
    Inherits System.Web.UI.Page
```

```
End Class
```

Pine Valley Furnishing

Customer Login

CUST001

Login

Back

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

Login_emp.aspx

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="login_emp.aspx.vb"
Inherits="login_emp" %>
<!DOCTYPE html>
```

```
<html>
<head runat="server">
<title>Employee Login</title>
<link href="style.css" rel="stylesheet" />
</head>
<body>
<form runat="server">

<header>
<h1>Pine Valley Furnishing</h1>
</header>

<div class="form-box">
<h2>Employee Login</h2>

<asp:TextBox ID="txtEmpID" runat="server" Text="EMP001" ReadOnly="True"></asp:TextBox>
<asp:TextBox ID="txtPassword" runat="server" TextMode="Password" Text="12345"
ReadOnly="True"></asp:TextBox>

<asp:Button ID="btnLogin" runat="server" Text="Login" PostBackUrl="index_emp.aspx" />
<asp:Button ID="btnBack" runat="server" Text="Back" PostBackUrl="login_as.aspx" />

</div>

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

login_emp.[aspx.vb](#)

```
Partial Class login_emp
    Inherits System.Web.UI.Page
```

```
End Class
```

Pine Valley Furnishing

Employee Login

Search.aspx

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="search.aspx.vb"
Inherits="search" %>
<!DOCTYPE html>
<html>
<head runat="server">
  <title>Search Products</title>
  <link href="style.css" rel="stylesheet" />
</head>
<body>
<form runat="server">
<header>
  <h1>Search Products</h1>
</header>

<div class="container">
  <div class="panel">

    <asp:TextBox ID="txtSearch" runat="server" placeholder="Search..."></asp:TextBox>
    <asp:Button ID="btnSearch" runat="server" Text="Search" OnClick="btnSearch_Click" />

    <h3>Furniture Category</h3>
```

```

<ul class="list">
  <li>Chairs</li>
  <li>Desk</li>
  <li>Cupboards</li>
</ul>

<asp:Button ID="btnBack" runat="server" Text="Back" PostBackUrl="index.aspx" />

<hr />

<!-- GridView to show search results -->
<asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="False"
EmptyDataText="No products found">
  <Columns>
    <asp:BoundField DataField="Product_Id" HeaderText="Product ID" />
    <asp:BoundField DataField="Product_Description" HeaderText="Description" />
    <asp:BoundField DataField="Product_Finish" HeaderText="Finish" />
    <asp:BoundField DataField="Standard_Price" HeaderText="Price"
DataFormatString="{0:C}" />
  </Columns>
</asp:GridView>

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

```

[search.aspx.vb](#)

```

Imports System.Data
Imports System.Data.SqlClient
Imports System.Configuration

```

```

Partial Class search
  Inherits System.Web.UI.Page

```

```

  Protected Sub btnSearch_Click(sender As Object, e As EventArgs) Handles btnSearch.Click
    ' Get search text
    Dim keyword As String = txtSearch.Text.Trim()

    ' Check if user entered something
    If keyword = "" Then
      GridView1.DataSource = Nothing
    End If
  End Sub

```

```

        GridView1.DataBind()
    Return
End If

' SQL query to search products by description using LIKE operator
Dim sql As String = "SELECT Product_Id, Product_Description, Product_Finish,
Standard_Price " &
        "FROM PRODUCT_t " &
        "WHERE Product_Description LIKE @keyword"

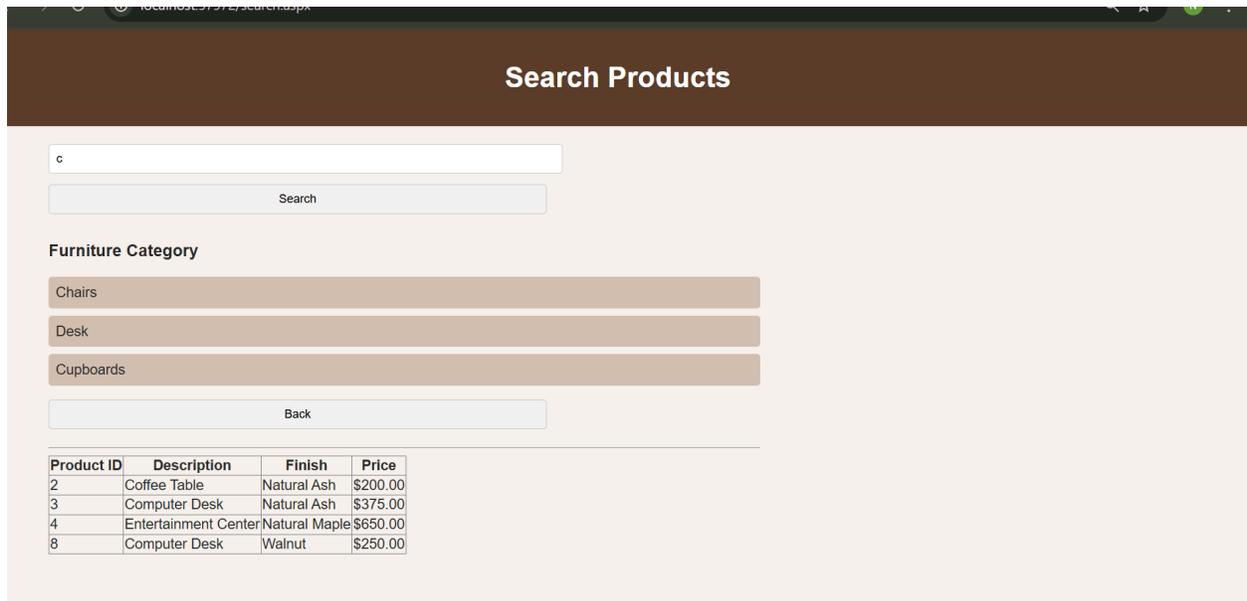
' Get connection string from web.config
Dim conStr As String =
ConfigurationManager.ConnectionStrings("PVFCCConnection").ConnectionString

' Connect to database and execute query
Using con As New SqlConnection(conStr)
    Using cmd As New SqlCommand(sql, con)
        cmd.Parameters.AddWithValue("@keyword", "%" & keyword & "%") ' LIKE operator
        con.Open()
        Dim reader As SqlDataReader = cmd.ExecuteReader()
        GridView1.DataSource = reader
        GridView1.DataBind()
    End Using
End Using
End Sub
End Class

```

Search Products

Furniture Category



Problem no 4:

Order.aspx

```

<%@ Page Language="VB" AutoEventWireup="false" CodeFile="order.aspx.vb"
Inherits="order" %>
<!DOCTYPE html>
<html>
<head runat="server">
  <title>Place Order</title>
  <link href="style.css" rel="stylesheet" />
</head>
<body>
<form runat="server">

<header>
  <h1>Available Products</h1>
</header>

<asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="False"
AutoGenerateSelectButton="True" Height="284px" Width="1039px">
  <Columns>
    <asp:BoundField DataField="Product_Id" HeaderText="ID" />
    <asp:BoundField DataField="Product_Description" HeaderText="Product" />
  
```

```
        <asp:BoundField DataField="Standard_Price" HeaderText="Standard Price"
DataFormatString="{0:N2}" />
    </Columns>
</asp:GridView>
```

```
<br />
```

Quantity:

```
<asp:TextBox ID="txtQty" runat="server" Width="82px"></asp:TextBox>
```

```
<br />
```

```
<asp:Label ID="lblMsg" runat="server" ForeColor="Red"></asp:Label>
```

```
<br />
```

```
<asp:Button ID="btnAdd" runat="server" Text="Add To Cart" Height="40px" Width="136px" />
```

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

```
<asp:Button ID="btnCart" runat="server" Text="View Cart" PostBackUrl="cart.aspx"
Width="201px" />
```

```
<asp:Button ID="btnBack" runat="server" Text="Back" PostBackUrl="index.aspx" Width="190px"
/>
```

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

```
</form>
```

```
</body>
```

```
</html>
```

[Order.aspx.vb](#)

```
Imports System.Data
```

```
Imports System.Data.SqlClient
```

```
Imports System.Configuration
```

```
Partial Class order
```

```
    Inherits System.Web.UI.Page
```

```
    Dim con As New
```

```
SqlConnection(ConfigurationManager.ConnectionStrings("PVFCCConnection").ConnectionString)
```

```

Protected Sub Page_Load(sender As Object, e As EventArgs) Handles Me.Load
    If Not IsPostBack Then
        LoadProducts()
    End If
End Sub

' Load products into GridView
Private Sub LoadProducts()
    Dim cmd As New SqlCommand("SELECT Product_Id, Product_Description,
Standard_Price FROM PRODUCT_t", con)
    Dim da As New SqlDataAdapter(cmd)
    Dim dt As New DataTable
    da.Fill(dt)

    GridView1.DataSource = dt
    GridView1.DataBind()
End Sub

' Add selected product to Cart
Protected Sub btnAdd_Click(sender As Object, e As EventArgs) Handles btnAdd.Click

    ' Ensure a product is selected
    If GridView1.SelectedIndex = -1 Then
        lblMsg.Text = "No product selected"
        Exit Sub
    End If

    ' Get selected product ID
    Dim productId As Integer = Convert.ToInt32(GridView1.SelectedRow.Cells(1).Text)

    ' Get quantity
    Dim qty As Integer
    If Not Integer.TryParse(txtQty.Text, qty) OrElse qty <= 0 Then
        lblMsg.Text = "Enter a valid quantity"
        Exit Sub
    End If

    ' Fetch product details from DB safely
    Dim productName As String = ""
    Dim standardPrice As Decimal = 0D

    Using con As New
SqlConnection(ConfigurationManager.ConnectionStrings("PVFCCConnection").ConnectionString)

```

```

    Dim cmd As New SqlCommand("SELECT Product_Description, Standard_Price FROM
PRODUCT_t WHERE Product_Id=@id", con)
    cmd.Parameters.AddWithValue("@id", productId)
    con.Open()
    Dim reader As SqlDataReader = cmd.ExecuteReader()
    If reader.Read() Then
        productName = reader("Product_Description").ToString()
        standardPrice = Convert.ToDecimal(reader("Standard_Price"))
    End If
End Using

' Create or retrieve Cart DataTable in Session
Dim dt As DataTable
If Session("Cart") Is Nothing Then
    dt = New DataTable
    dt.Columns.Add("ProductId", GetType(Integer))
    dt.Columns.Add("ProductName", GetType(String))
    dt.Columns.Add("Standard_Price", GetType(Decimal)) ' must match DB
    dt.Columns.Add("Quantity", GetType(Integer))
Else
    dt = CType(Session("Cart"), DataTable)
End If

' Add product to Cart
dt.Rows.Add(productId, productName, standardPrice, qty)

' Save back to Session
Session("Cart") = dt

lblMsg.ForeColor = System.Drawing.Color.Green
lblMsg.Text = "Product added to cart!"
txtQty.Text = ""
End Sub
End Class

```

Available Products

	ID	Product	Standard Price
Select	1	End Table	175.00
Select	2	Coffee Table	200.00
Select	3	Computer Desk	375.00
Select	4	Entertainment Center	650.00
Select	5	Writers Desk	325.00
Select	6	8-Drawer Desk	750.00
Select	7	Dining Table	800.00
Select	8	Computer Desk	250.00

Quantity:

Cart.aspx

```

<%@ Page Language="VB" AutoEventWireup="false" CodeFile="cart.aspx.vb" Inherits="cart"
%>
<!DOCTYPE html>
<html>
<head runat="server">
  <title>Cart</title>
  <link href="style.css" rel="stylesheet" />
</head>
<body>
<form runat="server">

<header>
  <h1>Your Cart</h1>
</header>

<h2>Your Items</h2>
<asp:GridView ID="GridViewCart" runat="server" AutoGenerateColumns="False"
Height="162px" Width="741px">
  <Columns>
    <asp:BoundField DataField="ProductId" HeaderText="ID" />
    <asp:BoundField DataField="ProductName" HeaderText="Product" />
    <asp:BoundField DataField="Standard_Price" HeaderText="Price"
DataFormatString="{0:N2}" />
    <asp:BoundField DataField="Quantity" HeaderText="Quantity" />
  </Columns>
</asp:GridView>

```

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

```
<asp:Label ID="lblTotal" runat="server" Font-Bold="True"></asp:Label>  
<br />
```

```
<asp:Button ID="btnCheckout" runat="server" Text="Checkout" PostBackUrl="payment.aspx"  
Height="40px" Width="193px" />  
<br /><br />
```

```
<asp:Button ID="btnBack" runat="server" Text="Back" PostBackUrl="order.aspx" Width="190px"  
/>
```

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

[Cart.aspx.vb](#)

```
Imports System.Data
```

```
Partial Class cart
```

```
    Inherits System.Web.UI.Page
```

```
    Protected Sub Page_Load(sender As Object, e As EventArgs) Handles Me.Load
```

```
        If Not IsPostBack Then
```

```
            BindCart()
```

```
        End If
```

```
    End Sub
```

```
    Private Sub BindCart()
```

```
        ' Check if cart exists
```

```
        If Session("Cart") Is Nothing OrElse CType(Session("Cart"), DataTable).Rows.Count = 0
```

```
    Then
```

```
        lblTotal.Text = "Cart is empty"
```

```
        GridViewCart.Visible = False
```

```
        btnCheckout.Enabled = False
```

```
    Else
```

```
        Dim dt As DataTable = CType(Session("Cart"), DataTable)
```

```
        GridViewCart.DataSource = dt
```

```
        GridViewCart.DataBind()
```

```
        GridViewCart.Visible = True
```

```
        btnCheckout.Enabled = True
```

```

    ' Calculate total
    Dim total As Decimal = 0D
    For Each row As DataRow In dt.Rows
        total += CType(row("Standard_Price"), Decimal) * CType(row("Quantity"), Integer)
    Next
    lblTotal.Text = "Total Amount: " & total.ToString("0.00")
End If
End Sub
End Class

```

Your Cart

Your Items

ID	Product	Price	Quantity
2	Coffee Table	200.00	4

Total Amount: 800.00

Payment.aspx

```

<%@ Page Language="VB" AutoEventWireup="false" CodeFile="payment.aspx.vb"
Inherits="payment" %>
<!DOCTYPE html>
<html>
<head runat="server">
<title>Payment</title>
<link href="style.css" rel="stylesheet" />
</head>
<body>
<form runat="server">

<header>
<h1>Pine Valley Furnishing</h1>
</header>

<div class="form-box">
<h2>Order Checkout</h2>

```

```
<asp:RadioButton ID="r1" runat="server" GroupName="payment" Text="Cash on Delivery" />
<asp:RadioButton ID="r2" runat="server" GroupName="payment" Text="Card / Credit" />
```

```
<h3>Billing Address</h3>
```

```
<asp:RadioButton ID="r3" runat="server" GroupName="address" Text="Same as Shipping" />
<asp:RadioButton ID="r4" runat="server" GroupName="address" Text="Other" />
```

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

```
<asp:Button ID="btnConfirm" runat="server" Text="Confirm Order" />
<asp:Button ID="btnBack" runat="server" Text="Back" PostBackUrl="cart.aspx" />
```

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

```
<asp:Label ID="lblMsg" runat="server" ForeColor="Red"></asp:Label>
```

```
</div>
```

```
</form>
```

```
</body>
```

```
</html>
```

[Payment.aspx.vb](#)

```
Imports System.Data
Imports System.Data.SqlClient
Imports System.Configuration
```

```
Partial Class payment
    Inherits System.Web.UI.Page
```

```
    Protected Sub btnConfirm_Click(sender As Object, e As EventArgs) Handles
        btnConfirm.Click
```

```
        ' Check if cart is empty
        If Session("Cart") Is Nothing OrElse CType(Session("Cart"), DataTable).Rows.Count = 0
        Then
            lblMsg.ForeColor = Drawing.Color.Red
            lblMsg.Text = "Cart is empty!"
            Exit Sub
        End If
```

```

' Ensure payment method is selected
Dim paymentMethod As String = ""
If r1.Checked Then
    paymentMethod = r1.Text
Elseif r2.Checked Then
    paymentMethod = r2.Text
Else
    lblMsg.ForeColor = Drawing.Color.Red
    lblMsg.Text = "Select payment method"
    Exit Sub
End If

' Billing address (optional)
Dim billingAddress As String = ""
If r3.Checked Then
    billingAddress = r3.Text
Elseif r4.Checked Then
    billingAddress = r4.Text
End If

' Get cart
Dim dt As DataTable = CType(Session("Cart"), DataTable)

' Use fixed Order_Id 1010
Dim orderId As Integer = 1010

Using con As New
SqlConnection(ConfigurationManager.ConnectionStrings("PVFCConnection").ConnectionString)
    con.Open()

    For Each row As DataRow In dt.Rows
        Dim cmd As New SqlCommand("INSERT INTO Order_line_t (Order_Id, Product_Id,
Ordered_Quantity, Standard_Price) VALUES (@orderId, @productId, @qty, @price)", con)
        cmd.Parameters.AddWithValue("@orderId", orderId)
        cmd.Parameters.AddWithValue("@productId", row("ProductId"))
        cmd.Parameters.AddWithValue("@qty", row("Quantity"))
        cmd.Parameters.AddWithValue("@price", row("Standard_Price"))
        cmd.ExecuteNonQuery()
    Next

    con.Close()
End Using

' Clear cart session

```

```
Session("Cart") = Nothing
```

```
' Show confirmation
```

```
lblMsg.ForeColor = Drawing.Color.Green
```

```
lblMsg.Text = "Order confirmed! Your cart has been cleared."
```

```
End Sub
```

```
End Class
```

Pine Valley Furnishing

Order Checkout

Cash on Delivery

Card / Credit

Billing Address

Same as Shipping

Other

Confirm Order

Back

Problem no 2:

Customer_Update.aspx:

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="Customer_Update.aspx.vb"
Inherits="Customer_Update" %>
<!DOCTYPE html>
<html>
<head runat="server">
<title>Update Customer</title>
<link href="style.css" rel="stylesheet" />
</head>
<body>
<form runat="server">
  <header>
<h1>Pine Valley Furnishing</h1>
```

```

</header>

<div class="form-box">
<h2>Update Customer Information</h2>

Enter CNIC:
<asp:TextBox ID="txtSearchId" runat="server" />
<asp:Button ID="btnLoad" runat="server" Text="Load" /><br /><br />
Name:
<asp:TextBox ID="txtName" runat="server" /><br />
Address:
<asp:TextBox ID="txtAddress" runat="server" /><br />
City:
<asp:TextBox ID="txtCity" runat="server" /><br />
State:
<asp:TextBox ID="txtState" runat="server" /><br />
Postal Code:
<asp:TextBox ID="txtZip" runat="server" /><br /><br />

<asp:Button ID="btnUpdate" runat="server" Text="Update" />
<asp:Label ID="lblMsg" runat="server" ForeColor="Green" />
<asp:Button ID="btnBack" runat="server" Text="Back" PostBackUrl="index.aspx" />

</div>

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

```

Customer_Update.aspx.vb:

```

Imports System.Configuration
Imports System.Data.SqlClient
Imports System.Net.NetworkInformation

```

```

Partial Class Customer_Update
    Inherits System.Web.UI.Page

```

```

    Dim conStr As String =
    ConfigurationManager.ConnectionStrings("PVFCCConnection").ConnectionString

```

```

    Protected Sub btnLoad_Click(sender As Object, e As EventArgs) Handles btnLoad.Click

```

```

        Dim sql As String = "SELECT * FROM CUSTOMER_t WHERE Customer_Id=@id"

```

```
Using con As New SqlConnection(conStr)
Using cmd As New SqlCommand(sql, con)
```

```
cmd.Parameters.AddWithValue("@id", txtSearchId.Text)
con.Open()
```

```
Dim dr As SqlDataReader = cmd.ExecuteReader()
```

```
If dr.Read() Then
    txtName.Text = dr("Customer_Name").ToString()
    txtAddress.Text = dr("Customer_Address").ToString()
    txtCity.Text = dr("Customer_City").ToString()
    txtState.Text = dr("Customer_State").ToString()
    txtZip.Text = dr("Postal_Code").ToString()
Else
    lblMsg.ForeColor = Drawing.Color.Red
    lblMsg.Text = "Customer not found!"
```

```
End If
```

```
End Using
```

```
End Using
```

```
End Sub
```

Protected Sub btnUpdate_Click(sender As Object, e As EventArgs) Handles btnUpdate.Click

```
Dim sql As String = "UPDATE CUSTOMER_t SET
Customer_Name=@name, Customer_Address=@address, Customer_City=@city, Customer_State=@state, Postal_Code=@zip WHERE Customer_Id=@id"
```

```
Using con As New SqlConnection(conStr)
Using cmd As New SqlCommand(sql, con)
```

```
cmd.Parameters.AddWithValue("@id", txtSearchId.Text)
cmd.Parameters.AddWithValue("@name", txtName.Text)
cmd.Parameters.AddWithValue("@address", txtAddress.Text)
cmd.Parameters.AddWithValue("@city", txtCity.Text)
cmd.Parameters.AddWithValue("@state", txtState.Text)
cmd.Parameters.AddWithValue("@zip", txtZip.Text)
```

```
con.Open()
```

```
Dim rowsAffected As Integer = cmd.ExecuteNonQuery()
```

```
con.Close()

If rowsAffected > 0 Then
    lblMsg.ForeColor = Drawing.Color.Green
    lblMsg.Text = "Customer Updated Successfully!"
Else
    lblMsg.ForeColor = Drawing.Color.Red
    lblMsg.Text = "Customer not found!"
End If

End Using
End Using

End Sub
End Class
```

The screenshot displays a web application interface for 'Pine Valley Furnishing'. The main content area features a form titled 'Update Customer Information'. The form includes the following fields and buttons:

- Enter CNIC:** A text input field containing '00000-0000000-0' and a 'Load' button below it.
- Name:** A text input field containing 'Value Furniture'.
- Address:** A text input field containing '15145 S.W. 17th St.'.
- City:** A text input field containing 'Plano'.
- State:** A text input field containing 'TX'.
- Postal Code:** A text input field containing '75094-7743'.
- Below the fields are two buttons: 'Update' and 'Back'.

Problem no 1:

Register.aspx:

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

```
<!DOCTYPE html>
<html>
<head runat="server">
<title>Customer Registration</title>
<link href="style.css" rel="stylesheet" />
</head>
<body>
<form runat="server">

<header>
<h1>Pine Valley Furnishing</h1>
</header>

<div class="form-box">
<h2>Customer Registration</h2>
NAME:
<asp:TextBox ID="txtName" runat="server" placeholder="Enter Name"></asp:TextBox>
CNIC:
<asp:TextBox ID="txtID" runat="server" placeholder="Enter CNIC"></asp:TextBox>
ADDRESS:
<asp:TextBox ID="txtAddress" runat="server" placeholder="Enter Address"></asp:TextBox>
CITY:
<asp:TextBox ID="txtCity" runat="server" placeholder="Enter City"></asp:TextBox>
STATE:
<asp:TextBox ID="txtState" runat="server" placeholder="Enter State"></asp:TextBox>
POSTAL CODE:
<asp:TextBox ID="txtPostalCode" runat="server" placeholder="Enter
PostalCode"></asp:TextBox>
PASSWORD:
<asp:TextBox ID="txtPass" runat="server" placeholder="Enter Password"></asp:TextBox>

<asp:Button ID="btnRegister" runat="server" Text="Register" />
<asp:Label ID="lblMsg" runat="server" ForeColor="Green" />

<asp:Button ID="btnBack" runat="server" Text="Back" PostBackUrl="login_as.aspx" />

</div>

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

[Register.aspx.vb](#)

```
Imports System.Data
Imports System.Data.SqlClient
Imports System.Configuration
```

```
Partial Class Register
    Inherits System.Web.UI.Page
```

```
    Protected Sub btnRegister_Click(sender As Object, e As EventArgs) Handles
        btnRegister.Click
```

```
        If txtID.Text.Trim() = "" Then
            lblMsg.ForeColor = Drawing.Color.Red
            lblMsg.Text = "CNIC is required!"
            Exit Sub
        End If
```

```
        Dim conStr As String =
            ConfigurationManager.ConnectionStrings("PVFCCConnection").ConnectionString
```

```
        Using con As New SqlConnection(conStr)
            con.Open()
```

```
            ' Check if CNIC already exists
            Dim checkCmd As New SqlCommand("SELECT COUNT(*) FROM CUSTOMER_t
            WHERE Customer_Id=@id", con)
            checkCmd.Parameters.AddWithValue("@id", txtID.Text.Trim())
```

```
            Dim exists As Integer = Convert.ToInt32(checkCmd.ExecuteScalar())
```

```
            If exists > 0 Then
                lblMsg.ForeColor = Drawing.Color.Red
                lblMsg.Text = "Customer already exists!"
                Exit Sub
            End If
```

```
            ' Insert new customer
            Dim sql As String = "INSERT INTO CUSTOMER_t (Customer_Name, Customer_Id,
            Customer_Address, Customer_City, Customer_State, Postal_Code, Customer_Password)
            VALUES (@Name, @CustID, @Address, @City, @State, @Postal, @pass)"
```

```
            Dim cmd As New SqlCommand(sql, con)
            cmd.Parameters.AddWithValue("@Name", txtName.Text.Trim())
```

```
cmd.Parameters.AddWithValue("@CustID", txtID.Text.Trim())  
cmd.Parameters.AddWithValue("@Address", txtAddress.Text.Trim())  
cmd.Parameters.AddWithValue("@City", txtCity.Text.Trim())  
cmd.Parameters.AddWithValue("@State", txtState.Text.Trim())  
cmd.Parameters.AddWithValue("@Postal", txtPostalCode.Text.Trim())  
cmd.Parameters.AddWithValue("@pass", txtPass.Text.Trim())
```

```
cmd.ExecuteNonQuery()
```

```
lblMsg.ForeColor = Drawing.Color.Green  
lblMsg.Text = "Registration Successful!"
```

```
con.Close()  
End Using
```

```
End Sub  
End Class
```

Pine Valley Furnishing

Customer Registration

NAME:

CNIC:

ADDRESS:

CITY:

STATE:

POSTAL CODE:

PASSWORD:

Problem no 3:

Update.aspx

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="update.aspx.vb"
Inherits="update" %>
<!DOCTYPE html>
<html>
<head runat="server">
<title>Update Product Catalog</title>
```

```
<link href="style.css" rel="stylesheet" />
</head>
<body>
<form runat="server">

<header>
<h1>Update Product Catalog</h1>
</header>

<div class="form-box">

<asp:Label runat="server" Text="Product ID"></asp:Label>
<asp:TextBox ID="txtID" runat="server"></asp:TextBox>

<asp:Label runat="server" Text="Description"></asp:Label>
<asp:TextBox ID="txtDesc" runat="server"></asp:TextBox>

<asp:Label runat="server" Text="Finish"></asp:Label>
<asp:TextBox ID="txtFinish" runat="server"></asp:TextBox>

<asp:Label runat="server" Text="Price"></asp:Label>
<asp:TextBox ID="txtPrice" runat="server"></asp:TextBox>

<asp:Label runat="server" Text="Product Line ID"></asp:Label>
<asp:TextBox ID="txtLineID" runat="server"></asp:TextBox>

<br /><br />

<asp:Button ID="btnLoad" runat="server" Text="Load" />
<asp:Button ID="btnUpdate" runat="server" Text="Update" />
<asp:Button ID="btnBack" runat="server" Text="Back" PostBackUrl="index_emp.aspx" />

<br /><br />
<asp:Label ID="lblMsg" runat="server" ForeColor="Green"></asp:Label>

</div>

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

[update.aspx.vb](#)

Imports System.Data.SqlClient

Imports System.Configuration

Partial Class update

Inherits System.Web.UI.Page

Protected Sub btnLoad_Click(sender As Object, e As EventArgs) Handles btnLoad.Click

```
Dim conStr As String =  
ConfigurationManager.ConnectionStrings("PVFCConnection").ConnectionString  
Dim sql As String = "SELECT * FROM PRODUCT_t WHERE Product_Id=@id"
```

```
Using con As New SqlConnection(conStr)  
Using cmd As New SqlCommand(sql, con)
```

```
    cmd.Parameters.AddWithValue("@id", txtID.Text.Trim())
```

```
    con.Open()  
    Dim dr As SqlDataReader = cmd.ExecuteReader()
```

```
    If dr.Read() Then  
        txtDesc.Text = dr("Product_Description").ToString()  
        txtFinish.Text = dr("Product_Finish").ToString()  
        txtPrice.Text = dr("Standard_Price").ToString()  
        txtLineID.Text = dr("Product_Line_Id").ToString()
```

```
        lblMsg.ForeColor = Drawing.Color.Green  
        lblMsg.Text = "Product Loaded Successfully!"
```

```
    Else  
        lblMsg.ForeColor = Drawing.Color.Red  
        lblMsg.Text = "Product ID Not Found!"
```

```
        txtDesc.Text = ""  
        txtFinish.Text = ""  
        txtPrice.Text = ""  
        txtLineID.Text = ""
```

```
    End If
```

```
    dr.Close()  
End Using  
End Using
```

End Sub

Protected Sub btnUpdate_Click(sender As Object, e As EventArgs) Handles btnUpdate.Click

```
Dim price As Decimal
Dim lineId As Integer
```

```
' Validate numeric fields
```

```
If Not Decimal.TryParse(txtPrice.Text.Trim(), price) Then
    lblMsg.ForeColor = Drawing.Color.Red
    lblMsg.Text = "Enter valid price!"
    Exit Sub
End If
```

```
If Not Integer.TryParse(txtLineID.Text.Trim(), lineId) Then
    lblMsg.ForeColor = Drawing.Color.Red
    lblMsg.Text = "Enter valid Product Line ID!"
    Exit Sub
End If
```

```
Dim conStr As String =
ConfigurationManager.ConnectionStrings("PVFCCConnection").ConnectionString
Dim sql As String = "UPDATE PRODUCT_t SET Product_Description=@desc,
Product_Finish=@finish, Standard_Price=@price, Product_Line_Id=@lineid WHERE
Product_Id=@id"
```

```
Using con As New SqlConnection(conStr)
    Using cmd As New SqlCommand(sql, con)
```

```
        cmd.Parameters.AddWithValue("@id", txtID.Text.Trim())
        cmd.Parameters.AddWithValue("@desc", txtDesc.Text.Trim())
        cmd.Parameters.AddWithValue("@finish", txtFinish.Text.Trim())
        cmd.Parameters.AddWithValue("@price", price)
        cmd.Parameters.AddWithValue("@lineid", lineId)
```

```
        con.Open()
        Dim rows As Integer = cmd.ExecuteNonQuery()
```

```
If rows > 0 Then
    lblMsg.ForeColor = Drawing.Color.Green
    lblMsg.Text = "Product Updated Successfully!"
Else
    lblMsg.ForeColor = Drawing.Color.Red
    lblMsg.Text = "Product ID Not Found!"
End If
```

```
End Using
```

End Using

End Sub

End Class

Update Product Catalog

Product ID

Description

Finish

Price

Product Line ID

Style Sheet code:

```
body {  
    font-family: Arial, sans-serif;  
    margin: 0;  
    background-color: #f5f3ef;  
    color: #2c2c2c;  
}
```

```
header {  
    background: #5a3e2b;  
    color: white;  
    padding: 15px;  
    text-align: center;
```

```
}
```

```
.container {  
  width: 90%;  
  margin: auto;  
  padding: 20px;  
}
```

```
.menu {  
  width: 250px;  
  background: white;  
  padding: 15px;  
  border-radius: 5px;  
}
```

```
.menu a {  
  display: block;  
  padding: 10px;  
  margin-bottom: 8px;  
  background: #d6c2b0;  
  text-decoration: none;  
  color: #2c2c2c;  
  border-radius: 4px;  
}
```

```
.menu a:hover {  
  background: #8b5e3c;  
  color: white;  
}
```

```
.form-box {  
  background: white;  
  padding: 50px;  
  width: 400px;  
  margin: 50px auto;  
  border-radius: 5px;  
}
```

```
.form-box a {  
  display: block;  
  padding: 10px;  
  margin-bottom: 8px;  
  background: #d6c2b0;  
  text-decoration: none;
```

```
    color: #2c2c2c;
    border-radius: 4px;
}

.form-box a:hover {
    background: #8b5e3c;
    color: white;
}

.form-box p {
    margin-top: 15px;
    font-size: 14px;
    text-align: center;
}

.form-box a.text-link {
    display: inline-block;
    padding: 0;
    margin: 0;
    background: none;
    color: #2e86ab;
    border-radius: 0;
}

.form-box a.text-link:hover {
    background: none;
    color: #2e86ab;
    text-decoration: underline;
}

.form-box label {
    display: block;
    margin-bottom: 10px;
}

.form-box input[type="checkbox"] {
    width: auto;
    margin-right: 8px;
}

input, select {
    padding: 8px;
    margin-bottom: 12px;
    border: 1px solid #ccc;
```

```
border-radius: 4px;
margin-left: 303px;
}
```

```
button {
padding: 8px 15px;
background: #d6c2b0;
color: white;
border: none;
text-decoration: none;
color: #2c2c2c;
border-radius: 4px;
cursor: pointer;
}
```

```
button:hover {
background: #8b5e3c;
}
```

```
.products {
display: flex;
gap: 20px;
}
```

```
.product-card {
background: white;
padding: 15px;
width: 150px;
text-align: center;
border-radius: 5px;
}
```

```
.group {
margin-bottom: 15px;
}
```

```
.group label {
display: block;
margin-bottom: 8px;
}
```

```
.group input[type="radio"] {
width: auto;
margin-right: 8px;
}
```

```
}
```

```
.btn-group {  
  margin-top: 15px;  
}
```

```
.btn-group button {  
  margin-right: 10px;  
}
```

```
.panel {  
  background: none;  
  border-radius: 5px;  
  max-width: 800px;  
}
```

```
.panel input {  
  width: 70%;  
  display: inline-block;  
}
```

```
.panel button {  
  display: inline-block;  
  margin-left: 10px;  
}
```

```
.list {  
  list-style: none;  
  padding: 0;  
}
```

```
.list li {  
  background: #d6c2b0;  
  margin-bottom: 8px;  
  padding: 8px;  
  border-radius: 4px;  
}
```

