

IAD Lab 06

Code

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Register Page

.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 id="form1" runat="server">
```

```
<header>
```

```
  <h1>Pine Valley Furniture - Customer Registration</h1>
```

```
</header>
```

```
<nav>
```

```
  <ul>
```

```
    <li><a href="Main.aspx">Home</a></li>
```

```
    <li><a href="Register.aspx">Register</a></li>
```

```
    <li><a href="Cart.aspx">Cart</a></li>
```

```
  </ul>
```

```
</nav>
```

```
<div class="container">
```

```
  <div class="auth-box">
```

```
    <h2>New Customer</h2>
```

```
    <asp:TextBox ID="txtCustomerId" runat="server"
```

```
      CssClass="input-field" placeholder="Customer ID" />
```

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

```
    <asp:TextBox ID="txtEmail" runat="server"
```

```
      CssClass="input-field" placeholder="Email" />
```

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

```
    <asp:TextBox ID="txtPassword" runat="server"
```

```
      CssClass="input-field" placeholder="Password"
```

```
        TextMode="Password" />
    <br /><br />
    <asp:TextBox ID="txtName" runat="server"
        CssClass="input-field" placeholder="Customer Name" />
    <br /><br />

    <asp:TextBox ID="txtAddress" runat="server"
        CssClass="input-field" placeholder="Address" />
    <br /><br />

    <asp:TextBox ID="txtCity" runat="server"
        CssClass="input-field" placeholder="City" />
    <br /><br />

    <asp:TextBox ID="txtState" runat="server"
        CssClass="input-field" placeholder="State (2 letters)" />
    <br /><br />

    <asp:TextBox ID="txtPostal" runat="server"
        CssClass="input-field" placeholder="Postal Code" />
    <br /><br />

    <asp:Button ID="btnSubmit" runat="server"
        Text="Register"
        CssClass="btn"
        OnClick="btnSubmit_Click" />
    <br /><br />

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

</div>

</div>

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

.aspx.vb

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

Partial Class Register

Inherits System.Web.UI.Page

Dim connStr As String = ConfigurationManager.ConnectionStrings("PVFC").ConnectionString

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

Using conn As New SqlConnection(connStr)

Dim query As String = "INSERT INTO CUSTOMER_t " &
"(Customer_Id, Customer_Name, Customer_Address, Customer_City,
Customer_State, Postal_Code, Email, User_Password, Role_Id) " &
"VALUES (@Id, @Name, @Address, @City, @State, @Postal, @Email, @Password,
1)"

Using cmd As New SqlCommand(query, conn)

cmd.Parameters.AddWithValue("@Id", txtCustomerId.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("@Postal", txtPostal.Text)
cmd.Parameters.AddWithValue("@Email", txtEmail.Text)
cmd.Parameters.AddWithValue("@Password", txtPassword.Text)

Try

conn.Open()
cmd.ExecuteNonQuery()

lblMessage.ForeColor = Drawing.Color.Green
lblMessage.Text = "Customer Registered Successfully!"

Catch ex As Exception

lblMessage.ForeColor = Drawing.Color.Red
lblMessage.Text = "Error: " & ex.Message

End Try

End Using

End Using

End Sub

End Class

Update Customer Page

.aspx

```
<%@ Page Language="VB" AutoEventWireup="true" CodeFile="update_customer.aspx.vb"
Inherits="update_customer" %>
<!DOCTYPE html>
<html>
<head runat="server">
  <title>Update Customer</title>
  <link rel="stylesheet" href="style.css" />
</head>

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

<header>
  <h1>Pine Valley Furniture - Update Customer</h1>
</header>

<nav>
  <ul>
    <li><a href="main.aspx">Home</a></li>

    <li><a href="update_catalog.aspx">Update Catalog</a></li>

  </ul>
</nav>

<div class="container">
  <h3>Search Customer</h3>
  Customer ID:

  <asp:TextBox ID="txtCustomerId" runat="server" CssClass="input-field" Placeholder="Enter
Customer ID"></asp:TextBox>
  <asp:Button ID="btnSearch" runat="server" Text="Search" CssClass="btn"
OnClick="btnSearch_Click" /><br /><br />
  <h3>Edit Customer</h3>
  Name:
  <asp:TextBox ID="txtName" runat="server" CssClass="input-field"></asp:TextBox><br /><br
/>
```

```

Address:
<asp:TextBox ID="txtAddress" runat="server" CssClass="input-field"></asp:TextBox><br
/><br />
City:
<asp:TextBox ID="txtCity" runat="server" CssClass="input-field"></asp:TextBox><br /><br />
State:
<asp:TextBox ID="txtState" runat="server" CssClass="input-field"></asp:TextBox><br /><br />
Postal Code:
<asp:TextBox ID="txtPostal" runat="server" CssClass="input-field"></asp:TextBox><br /><br
/>

<asp:Button ID="btnUpdate" runat="server" Text="Update" CssClass="btn"
OnClick="btnUpdate_Click" Enabled="False" /><br /><br />

<asp:Label ID="lblMessage" runat="server"></asp:Label><br /><br />
<asp:HyperLink NavigateUrl="main.aspx" runat="server">
    Back
</asp:HyperLink>

</div>

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

```

.aspx.vb

```

Imports System.Configuration
Imports System.Data.SqlClient

```

```

Partial Class update_customer
    Inherits System.Web.UI.Page

```

```

    Dim connStr As String = ConfigurationManager.ConnectionStrings("PVFC").ConnectionString

```

```

Protected Sub Page_Load(sender As Object, e As EventArgs) Handles Me.Load
    ' RBAC check — employees only
    If Session("Role") Is Nothing OrElse Session("Role").ToString() <> "Employee" Then
        Response.Redirect("LoginChoice.aspx")
    End If
    ' ... rest of your existing Page_Load code

```

End Sub

' SEARCH BUTTON

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

 ' Validate ID

 If txtCustomerId.Text = "" Then

 lblMessage.Text = "Please enter Customer ID"

 Exit Sub

 End If

 Dim conn As New SqlConnection(connStr)

 Dim query As String = "SELECT * FROM CUSTOMER_t WHERE Customer_Id = " &
txtCustomerId.Text

 Dim cmd As New SqlCommand(query, conn)

 Try

 conn.Open()

 Dim reader As SqlDataReader = cmd.ExecuteReader()

 If reader.Read() Then

 txtName.Text = reader("Customer_Name").ToString()

 txtAddress.Text = reader("Customer_Address").ToString()

 txtCity.Text = reader("Customer_City").ToString()

 txtState.Text = reader("Customer_State").ToString()

 txtPostal.Text = reader("Postal_Code").ToString()

 lblMessage.Text = "Customer Found!"

 btnUpdate.Enabled = True ' Allow update now

 Else

 lblMessage.Text = "Customer ID does not exist!"

 btnUpdate.Enabled = False

 End If

 conn.Close()

 Catch ex As Exception

 lblMessage.Text = "Error: " & ex.Message

 End Try

End Sub

```
Protected Sub btnUpdate_Click(sender As Object, e As EventArgs)
```

```
    Dim conn As New SqlConnection(connStr)
```

```
    Dim query As String = "UPDATE CUSTOMER_t SET " &  
        "Customer_Name = " & txtName.Text & ", " &  
        "Customer_Address = " & txtAddress.Text & ", " &  
        "Customer_City = " & txtCity.Text & ", " &  
        "Customer_State = " & txtState.Text & ", " &  
        "Postal_Code = " & txtPostal.Text & " " &  
        "WHERE Customer_Id = " & txtCustomerId.Text
```

```
    Dim cmd As New SqlCommand(query, conn)
```

```
    Try
```

```
        conn.Open()
```

```
        cmd.ExecuteNonQuery()
```

```
        lblMessage.Text = "Customer Updated Successfully!"
```

```
        conn.Close()
```

```
    Catch ex As Exception
```

```
        lblMessage.Text = "Error: " & ex.Message
```

```
    End Try
```

```
End Sub
```

```
End Class
```

Update Catalog Page

.aspx

```
<%@ Page Language="VB" AutoEventWireup="true" CodeFile="update_catalog.aspx.vb"  
Inherits="update_catalog" %>  
<!DOCTYPE html>  
<html>  
<head runat="server">  
    <title>Update Product Catalog</title>  
    <link rel="stylesheet" href="style.css" />  
</head>
```

```

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

<header>
  <h1>Pine Valley Furniture - Update Catalog</h1>
</header>

<nav>
  <ul>
    <li><a href="employee_dashboard.aspx">Dashboard</a></li>
    <li><a href="update_customer.aspx">Update Customer</a></li>
  </ul>
</nav>

<div class="container">
  <h3>Search Product</h3>
  Product Description:
  <asp:TextBox ID="txtSearch" runat="server" CssClass="input-field" Placeholder="Enter
product description"></asp:TextBox>
  <asp:Button ID="btnSearch" runat="server" Text="Search" CssClass="btn"
OnClick="btnSearch_Click" /><br /><br />

  <h3>Edit Product</h3>
  Product ID: <asp:Label ID="lblProductID" runat="server"></asp:Label><br /><br />
  Line ID: <asp:TextBox ID="txtLineID" runat="server"
CssClass="input-field"></asp:TextBox><br /><br />
  Description: <asp:TextBox ID="txtDesc" runat="server"
CssClass="input-field"></asp:TextBox><br /><br />
  Finish: <asp:TextBox ID="txtFinish" runat="server" CssClass="input-field"></asp:TextBox><br
/><br />
  Price: <asp:TextBox ID="txtPrice" runat="server" CssClass="input-field"></asp:TextBox><br
/><br />

  <asp:Button ID="btnUpdate" runat="server" Text="Update" CssClass="btn"
OnClick="btnConfirm_Click" Enabled="False" /><br /><br />

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

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

```

.aspx.vb

Imports System.Data

Imports System.Data.SqlClient

Partial Class update_catalog

Inherits System.Web.UI.Page

Dim connString As String =

ConfigurationManager.ConnectionStrings("PVFC").ConnectionString

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

' Only employees allowed

If Session("Role") Is Nothing OrElse Session("Role").ToString() <> "Employee" Then

 Response.Redirect("LoginChoice.aspx")

End If

End Sub

Protected Sub btnSearch_Click(sender As Object, e As EventArgs) Handles btnSearch.Click

If txtSearch.Text.Trim() = "" Then

 Response.Write("<script>alert('Enter a product description');</script>")

 Return

End If

Using conn As New SqlConnection(connString)

 Dim cmd As New SqlCommand("SELECT * FROM PRODUCT_t WHERE

Product_Description LIKE @desc", conn)

 cmd.Parameters.AddWithValue("@desc", "%" & txtSearch.Text.Trim() & "%")

 conn.Open()

 Dim reader As SqlDataReader = cmd.ExecuteReader()

If reader.Read() Then

 lblProductID.Text = reader("Product_Id").ToString()

 txtLineID.Text = reader("Product_Line_Id").ToString()

 txtDesc.Text = reader("Product_Description").ToString()

 txtFinish.Text = reader("Product_Finish").ToString()

 txtPrice.Text = reader("Standard_Price").ToString()

 btnUpdate.Enabled = True

Else

 lblProductID.Text = ""

 txtLineID.Text = ""

 txtDesc.Text = ""

 txtFinish.Text = ""

 txtPrice.Text = ""

```

        btnUpdate.Enabled = False
        Response.Write("<script>alert('Product not found');</script>")
    End If
End Using
End Sub

Protected Sub btnConfirm_Click(sender As Object, e As EventArgs) Handles btnUpdate.Click
    If lblProductID.Text = "" Then
        Response.Write("<script>alert('No product selected to update');</script>")
        Return
    End If

    Using conn As New SqlConnection(connString)
        Dim cmd As New SqlCommand("UPDATE PRODUCT_t SET Product_Line_Id=@lineid,
Product_Description=@desc, Product_Finish=@finish, Standard_Price=@price WHERE
Product_Id=@id", conn)
        cmd.Parameters.AddWithValue("@lineid", Convert.ToInt32(txtLineID.Text.Trim()))
        cmd.Parameters.AddWithValue("@desc", txtDesc.Text.Trim())
        cmd.Parameters.AddWithValue("@finish", txtFinish.Text.Trim())
        cmd.Parameters.AddWithValue("@price", Convert.ToDecimal(txtPrice.Text.Trim()))
        cmd.Parameters.AddWithValue("@id", Convert.ToInt32(lblProductID.Text))

        conn.Open()
        cmd.ExecuteNonQuery()
    End Using

    lblMessage.Text = "Product updated successfully!"
End Sub
End Class

```

Search Page

.aspx

```

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

```

```

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Search Products - Pine Valley Furniture</title>
    <link rel="stylesheet" href="style.css" />
</head>

```

```
<body>

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

<header>
  <h1>Search Products</h1>
</header>

<nav>
  <ul>
    <li><a href="main.aspx">Home</a></li>
    <li><a href="Cart.aspx">Cart</a></li>
  </ul>
</nav>

<div class="container">

  <div style="margin-bottom:20px;">

    <asp:Label Text="Search Product:" runat="server" />

    <asp:TextBox
      ID="txtSearch"
      runat="server"
      style="padding:8px; border-radius:6px; border:1px solid #ccc;">
    </asp:TextBox>

    <asp:Button
      ID="btnSearch"
      runat="server"
      Text="Search"
      CssClass="btn"
      OnClick="btnSearch_Click" />

    <asp:Button
      ID="btnShowAll"
      runat="server"
      Text="Show All"
      CssClass="btn"
      OnClick="btnShowAll_Click" />

  </div>

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

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

```
<div class="product-grid">
```

```
    <asp:Repeater ID="rptProducts" runat="server"  
    OnItemCommand="rptProducts_ItemCommand">
```

```
        <ItemTemplate>
```

```
            <div class="product-card">
```

```
                <div class="image-box"></div>
```

```
                <h3><%# Eval("Product_Description") %></h3>
```

```
                <p>Finish: <%# Eval("Product_Finish") %></p>
```

```
                <p><strong>$ <%# Eval("Standard_Price") %></strong></p>
```

```
                <div style="margin-top:10px;">
```

```
                    Quantity:
```

```
                    <asp:TextBox
```

```
                        ID="txtQty"
```

```
                        runat="server"
```

```
                        Width="50px"
```

```
                        style="padding:5px; border-radius:6px; border:1px solid #ccc;">
```

```
                    </asp:TextBox>
```

```
                </div>
```

```
                <asp:Button
```

```
                    ID="btnAdd"
```

```
                    runat="server"
```

```
                    Text="Add To Cart"
```

```
                    CssClass="btn"
```

```
                    style="margin-top:10px; width:100%;"
```

```
                    CommandName="AddToCart"
```

```
                    CommandArgument='<%# Eval("Product_Id") %>' />
```

```
            </div>
```

```
        </ItemTemplate>
```

```
    </asp:Repeater>
```

```
</div>
```

```
</div>
```

```
</form>
```

```
</body>
```

```
</html>
```

.aspx.vb

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

```
Imports System.Configuration
```

```
Partial Class search
```

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

```
    Dim connStr As String = ConfigurationManager.ConnectionStrings("PVFC").ConnectionString
```

```
    Protected Sub btnSearch_Click(sender As Object, e As EventArgs)
```

```
        Dim con As New SqlConnection(connStr)
```

```
        Dim query As String = "SELECT Product_Id, Product_Description, Product_Finish,  
Standard_Price " &
```

```
            "FROM PRODUCT_t WHERE Product_Description LIKE @search"
```

```
        Dim cmd As New SqlCommand(query, con)
```

```
        cmd.Parameters.AddWithValue("@search", "%" & txtSearch.Text & "%")
```

```
        con.Open()
```

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

```
        rptProducts.DataSource = dr
```

```
        rptProducts.DataBind()
```

```
        con.Close()
```

```
    End Sub
```

```
    Protected Sub btnShowAll_Click(sender As Object, e As EventArgs)
```

```
        Dim con As New SqlConnection(connStr)
```

```
Dim query As String = "SELECT Product_Id, Product_Description, Product_Finish,  
Standard_Price FROM PRODUCT_t"
```

```
Dim cmd As New SqlCommand(query, con)
```

```
con.Open()
```

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

```
rptProducts.DataSource = dr
```

```
rptProducts.DataBind()
```

```
con.Close()
```

```
End Sub
```

```
Protected Sub rptProducts_ItemCommand(source As Object, e As  
RepeaterCommandEventArgs)
```

```
If e.CommandName = "AddToCart" Then
```

```
    If Session("Customer_Id") Is Nothing Then
```

```
        Response.Redirect("CustomerLogin.aspx")
```

```
        Exit Sub
```

```
    End If
```

```
    Dim customerId As Integer = Convert.ToInt32(Session("Customer_Id"))
```

```
    Dim productId As Integer = Convert.ToInt32(e.CommandArgument)
```

```
    Dim txtQty As TextBox = CType(e.Item.FindControl("txtQty"), TextBox)
```

```
    If txtQty.Text = "" Then
```

```
        lblMessage.Text = "Enter quantity."
```

```
        Exit Sub
```

```
    End If
```

```
    Dim quantity As Integer = Convert.ToInt32(txtQty.Text)
```

```
    Dim con As New SqlConnection(connStr)
```

```
    con.Open()
```

```
    Dim orderId As Integer = 0
```

```
    Dim checkOrderQuery As String =
```

```
"SELECT TOP 1 Order_Id FROM ORDER_t WHERE Customer_Id = @cid AND  
Order_Date = CAST(GETDATE() AS DATE)"
```

```
Dim cmdCheckOrder As New SqlCommand(checkOrderQuery, con)  
cmdCheckOrder.Parameters.AddWithValue("@cid", customerId)
```

```
Dim result = cmdCheckOrder.ExecuteScalar()
```

```
If result Is Nothing Then
```

```
    ' Create new order
```

```
    Dim newIdQuery As String = "SELECT ISNULL(MAX(Order_Id),1000)+1 FROM  
ORDER_t"
```

```
    Dim cmdNewId As New SqlCommand(newIdQuery, con)  
    orderId = Convert.ToInt32(cmdNewId.ExecuteScalar())
```

```
    Dim insertOrderQuery As String =  
        "INSERT INTO ORDER_t VALUES (@oid, @cid, CAST(GETDATE() AS DATE))"
```

```
    Dim cmdInsertOrder As New SqlCommand(insertOrderQuery, con)  
    cmdInsertOrder.Parameters.AddWithValue("@oid", orderId)  
    cmdInsertOrder.Parameters.AddWithValue("@cid", customerId)
```

```
    cmdInsertOrder.ExecuteNonQuery()
```

```
Else
```

```
    orderId = Convert.ToInt32(result)
```

```
End If
```

```
    ' Check if product already exists
```

```
    Dim checkLineQuery As String =  
        "SELECT Ordered_Quantity FROM Order_line_t WHERE Order_Id = @oid AND  
Product_Id = @pid"
```

```
    Dim cmdCheckLine As New SqlCommand(checkLineQuery, con)  
    cmdCheckLine.Parameters.AddWithValue("@oid", orderId)  
    cmdCheckLine.Parameters.AddWithValue("@pid", productId)
```

```
    Dim existingQty = cmdCheckLine.ExecuteScalar()
```

```
If existingQty IsNot Nothing Then
```

```
    Dim newQty As Integer = Convert.ToInt32(existingQty) + quantity
```

```
Dim updateQuery As String =  
    "UPDATE Order_line_t SET Ordered_Quantity = @qty WHERE Order_Id = @oid  
AND Product_Id = @pid"
```

```
Dim cmdUpdate As New SqlCommand(updateQuery, con)  
cmdUpdate.Parameters.AddWithValue("@qty", newQty)  
cmdUpdate.Parameters.AddWithValue("@oid", orderId)  
cmdUpdate.Parameters.AddWithValue("@pid", productId)
```

```
cmdUpdate.ExecuteNonQuery()
```

```
Else
```

```
Dim insertLineQuery As String =  
    "INSERT INTO Order_line_t VALUES (@oid, @pid, @qty)"
```

```
Dim cmdInsertLine As New SqlCommand(insertLineQuery, con)  
cmdInsertLine.Parameters.AddWithValue("@oid", orderId)  
cmdInsertLine.Parameters.AddWithValue("@pid", productId)  
cmdInsertLine.Parameters.AddWithValue("@qty", quantity)
```

```
cmdInsertLine.ExecuteNonQuery()
```

```
End If
```

```
con.Close()
```

```
lblMessage.Text = "Product added to YOUR cart!"
```

```
End If
```

```
End Sub
```

```
End Class
```

Cart Page

.aspx

```
<%@ Page Language="VB" AutoEventWireup="true" CodeFile="Cart.aspx.vb" Inherits="Cart"  
%>  
<!DOCTYPE html>  
<html>  
<head runat="server">
```

```

<title>My Cart</title>
<link rel="stylesheet" href="style.css" />
</head>
<body>
  <form id="form1" runat="server">
    <h2>My Cart</h2>
    <asp:GridView ID="gvCart" runat="server" AutoGenerateColumns="False"
  CssClass="cart-table">
      <Columns>
        <asp:BoundField DataField="Product_Description" HeaderText="Product" />
        <asp:BoundField DataField="Quantity" HeaderText="Quantity" />
        <asp:BoundField DataField="Price" HeaderText="Price" DataFormatString="{0:C}" />
        <asp:BoundField DataField="Total" HeaderText="Total" DataFormatString="{0:C}" />
      </Columns>
    </asp:GridView>
    <br />
    <asp:Label ID="lblGrandTotal" runat="server" Text="" Font-Bold="True"></asp:Label>
    <br /><br />
    <asp:Button ID="btnCheckout" runat="server" Text="Proceed to Checkout"
  PostBackUrl="Payment.aspx" CssClass="btn" />
  </form>
</body>
</html>

```

.aspx.vb

```

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

```

```

Partial Class Cart
  Inherits System.Web.UI.Page

```

```

  Private connStr As String =
  ConfigurationManager.ConnectionStrings("PVFC").ConnectionString

```

```

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

```

```

  Private Sub LoadCart()

```

```
If Session("Customer_Id") Is Nothing Then
    Response.Redirect("CustomerLogin.aspx")
    Return
End If
```

```
Dim customerId As Integer = Convert.ToInt32(Session("Customer_Id"))
```

```
Using conn As New SqlConnection(connStr)
```

```
    Dim query As String = "SELECT p.Product_Description, " &
        "ol.Ordered_Quantity AS Quantity, " &
        "p.Standard_Price AS Price, " &
        "(ol.Ordered_Quantity * p.Standard_Price) AS Total " &
        "FROM ORDER_t o " &
        "INNER JOIN Order_line_t ol ON o.Order_Id = ol.Order_Id " &
        "INNER JOIN PRODUCT_t p ON ol.Product_Id = p.Product_Id " &
        "WHERE o.Customer_Id = @CustomerId " &
        "AND o.Order_Id = (" &
        " SELECT MAX(Order_Id) FROM ORDER_t WHERE Customer_Id = " &
        "@CustomerId" &
        ")"
```

```
Using cmd As New SqlCommand(query, conn)
    cmd.Parameters.AddWithValue("@CustomerId", customerId)
```

```
    Dim dt As New DataTable()
```

```
Using da As New SqlDataAdapter(cmd)
    da.Fill(dt)
End Using
```

```
gvCart.DataSource = dt
gvCart.DataBind()
```

```
' Grand total
Dim grandTotal As Decimal = 0
For Each row As DataRow In dt.Rows
    grandTotal += Convert.ToDecimal(row("Total"))
Next
```

```
lblGrandTotal.Text = "Grand Total: " & grandTotal.ToString("C")
End Using
End Using
```

End Sub

End Class

CustomerLogin Page

.aspx

```
<%@ Page Language="VB" AutoEventWireup="true" CodeFile="CustomerLogin.aspx.vb"
Inherits="CustomerLogin" %>
<!DOCTYPE html>
<html>
<head runat="server">
  <title>Customer Login</title>
  <link rel="stylesheet" href="style.css" />
</head>
<body>
<form id="form1" runat="server">
<div class="auth-box">
  <h2>Customer Login</h2>
  <asp:TextBox ID="txtUsername" runat="server" Placeholder="Username"></asp:TextBox>
  <asp:TextBox ID="txtPassword" runat="server" TextMode="Password"
Placeholder="Password"></asp:TextBox>
  <asp:Button ID="btnLogin" runat="server" Text="Login" CssClass="btn"
OnClick="btnLogin_Click" />
  <br />
  <asp:Label ID="lblMsg" runat="server" ForeColor="Red"></asp:Label>
  <br />
  <a href="Register.aspx">Don't have an account? Register</a>
</div>
</form>
</body>
</html>
```

.aspx.vb

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

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

```

Protected Sub btnLogin_Click(sender As Object, e As EventArgs) Handles btnLogin.Click
    ' We declare the connection string here to avoid the "Already Declared" error
    Dim connStr As String =
ConfigurationManager.ConnectionStrings("PVFC").ConnectionString

    Dim query As String = "SELECT Customer_Id, Customer_Name FROM CUSTOMER_t
WHERE Email = @email AND User_Password = @pass"

    ' Using "Using" blocks is better practice—it closes the connection automatically even if
there's an error
    Using conn As New SqlConnection(connStr)
        Using cmd As New SqlCommand(query, conn)
            ' Use your textboxes for parameters
            cmd.Parameters.AddWithValue("@email", txtUsername.Text.Trim())
            cmd.Parameters.AddWithValue("@pass", txtPassword.Text.Trim())

            Try
                conn.Open()
                Dim reader As SqlDataReader = cmd.ExecuteReader()

                If reader.Read() Then
                    ' Set your Session variables from the database results
                    Session("Customer_Id") = reader("Customer_Id")
                    Session("UserName") = reader("Customer_Name").ToString()
                    Session("Role") = "Customer"

                    ' Redirect to homepage
                    Response.Redirect("main.aspx")
                Else
                    ' No user found
                    lblMsg.Text = "Invalid email or password."
                End If

                Catch ex As Exception
                    lblMsg.Text = "Database Error: " & ex.Message
                End Try
            End Using
        End Using
    End Using
End Sub
End Class

```

EmployeeDashboardPage

.aspx

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

```
<!DOCTYPE html>
```

```
<html>
```

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

```
  <title>Employee Dashboard</title>
```

```
  <link rel="stylesheet" href="style.css" />
```

```
</head>
```

```
<body>
```

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

```
    <header>
```

```
      <h1>Employee Dashboard</h1>
```

```
    </header>
```

```
    <!-- Navigation Menu -->
```

```
    <nav>
```

```
      <ul>
```

```
        <li>
```

```
          <asp:HyperLink ID="HomePage" runat="server" NavigateUrl="main.aspx"
Text="Home" />
```

```
        </li>
```

```
        <li>
```

```
          <asp:HyperLink ID="hlUpdateCatalog" runat="server"
NavigateUrl="update_catalog.aspx" Text="Update Product Catalog" />
```

```
        </li>
```

```
        <li>
```

```
          <asp:HyperLink ID="hlUpdateCustomer" runat="server"
NavigateUrl="update_customer.aspx" Text="Update Customer" />
```

```
        </li>
```

```
        <li>
```

```
          <asp:Button ID="btnLogout" runat="server" Text="Logout" CssClass="btn"
OnClick="btnLogout_Click" />
```

```
        </li>
```

```
      </ul>
```

```
    </nav>
```

```
    <div class="container">
```

```
      <h2>Welcome, Employee!</h2>
```

```
<p>Select an option from the menu above to proceed.</p>
</div>
```

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

.aspx.vb

```
Imports System
```

```
Imports System.Web.UI
```

```
Partial Class employee_dashboard
```

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

```
    ' Check session on page load
```

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

```
        If Session("Role") Is Nothing OrElse Session("Role").ToString() <> "Employee" Then
```

```
            Response.Redirect("EmployeeLogin.aspx")
```

```
        End If
```

```
    End Sub
```

```
    ' Logout button click
```

```
    Protected Sub btnLogout_Click(sender As Object, e As EventArgs)
```

```
        Session.Clear()
```

```
        Response.Redirect("LoginChoice.aspx")
```

```
    End Sub
```

```
End Class
```

EmployeeLoginPage

.aspx

```
<%@ Page Language="VB" AutoEventWireup="true" CodeFile="EmployeeLogin.aspx.vb"
```

```
Inherits="EmployeeLogin" %>
```

```
<!DOCTYPE html>
```

```
<html>
```

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

```
    <title>Employee Login</title>
```

```
    <link rel="stylesheet" href="style.css" />
```

```
</head>
```

```
<body>
```

```

<form id="form1" runat="server">
  <div class="auth-box">
    <h2>Employee Login</h2>
    <asp:TextBox ID="txtEmpID" runat="server" Placeholder="Employee ID"></asp:TextBox>
    <asp:TextBox ID="txtPassword" runat="server" TextMode="Password"
Placeholder="Password"></asp:TextBox>
    <asp:Button ID="btnLogin" runat="server" Text="Login" CssClass="btn"
OnClick="btnLogin_Click" />
    <br />
    <asp:Label ID="lblMsg" runat="server" ForeColor="Red"></asp:Label>
  </div>
</form>
</body>
</html>

```

.aspx.vb

```

Imports System.Data.SqlClient
Imports System.Configuration

```

```

Partial Class EmployeeLogin
  Inherits System.Web.UI.Page

```

```

  Dim connStr As String = ConfigurationManager.ConnectionStrings("PVFC").ConnectionString

```

```

  Protected Sub btnLogin_Click(sender As Object, e As EventArgs) Handles btnLogin.Click
    Using conn As New SqlConnection(connStr)
      Dim query As String = "SELECT Employee_Id, Employee_Name FROM EMPLOYEE_t
WHERE Employee_Id = @EmpID AND User_Password = @Password"
      Using cmd As New SqlCommand(query, conn)
        cmd.Parameters.AddWithValue("@EmpID", txtEmpID.Text.Trim())
        cmd.Parameters.AddWithValue("@Password", txtPassword.Text.Trim())

```

```

  Try

```

```

    conn.Open()
    Dim reader As SqlDataReader = cmd.ExecuteReader()
    If reader.Read() Then
      ' Set session for employee
      Session("Employee_Id") = reader("Employee_Id")
      Session("Employee_Name") = reader("Employee_Name")
      Session("Role") = "Employee"

```

```

      ' Redirect to dashboard
      Response.Redirect("employee_dashboard.aspx")

```

```
        Else
            lblMsg.Text = "Invalid Employee ID or Password."
        End If
    Catch ex As Exception
        lblMsg.Text = "Error: " & ex.Message
    End Try
End Using
End Using
End Sub
End Class
```

LoginChoice Page

.aspx

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

```
<!DOCTYPE html>
<html>
<head runat="server">
    <title>Login Choice</title>
    <link rel="stylesheet" href="style.css" />
</head>
<body>
<form id="form1" runat="server">

<div class="container">
    <h2>Login As</h2>

    <asp:Button ID="btnEmployee" runat="server" Text="Employee" CssClass="btn"
OnClick="btnEmployee_Click" />
    <br /><br />

    <asp:Button ID="btnCustomer" runat="server" Text="Customer" CssClass="btn"
OnClick="btnCustomer_Click" />
</div>

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

.aspx.vb

Partial Class LoginChoice

Inherits System.Web.UI.Page

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

```
Protected Sub btnCustomer_Click(sender As Object, e As EventArgs)
    Response.Redirect("main.aspx") ' MAIN CUSTOMER WEBSITE
End Sub
```

End Class

Payment Page

.aspx

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

```
<!DOCTYPE html>
```

```
<html>
```

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

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

```
    <link rel="stylesheet" href="style.css" />
```

```
</head>
```

```
<body>
```

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

```
<header>
```

```
    <h1>Payment Options</h1>
```

```
</header>
```

```
<div class="container">
```

```
    <asp:RadioButton ID="rbCash" runat="server" GroupName="Payment" Text="Cash on
Delivery" /><br />
```

```
    <asp:RadioButton ID="rbCard" runat="server" GroupName="Payment" Text="Credit/Debit
Card" /><br />
```

```
    <asp:RadioButton ID="rbWallet" runat="server" GroupName="Payment" Text="Other Wallet"
/><br /><br />
```

```
<asp:Button ID="btnConfirm" runat="server" Text="Confirm Payment" CssClass="btn"
OnClick="btnConfirm_Click" /><br /><br />
```

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

```
<asp:HyperLink ID="hlBack" runat="server" NavigateUrl="main.aspx">Back</asp:HyperLink>
</div>
```

```
</form>
```

```
</body>
```

```
</html>
```

.aspx.vb

Partial Class _payment

Inherits System.Web.UI.Page

```
Protected Sub btnConfirm_Click(sender As Object, e As EventArgs)
```

```
    ' Check which payment method is selected
```

```
    If rbCash.Checked Then
```

```
        lblMessage.Text = "Cash on Delivery Selected"
```

```
    ElseIf rbCard.Checked Then
```

```
        lblMessage.Text = "Credit/Debit Card Selected"
```

```
    ElseIf rbWallet.Checked Then
```

```
        lblMessage.Text = "Wallet Selected"
```

```
    Else
```

```
        lblMessage.ForeColor = Drawing.Color.Red
```

```
        lblMessage.Text = "Please select a payment method"
```

```
    End If
```

```
End Sub
```

```
End Class
```

Main Page

.aspx

```
<%@ Page Language="VB" AutoEventWireup="true" CodeFile="main.aspx.vb" Inherits="_main"
%>
```

```
<!DOCTYPE html>
```

```
<html>
```

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

```
    <title>Pine Valley Furniture</title>
```

```
    <link rel="stylesheet" href="style.css" />
```

```
</head>
<body>
  <form id="form1" runat="server">

    <header>
      <h1>Pine Valley Furniture</h1>
    </header>

    <nav>
      <ul>
        <li><a href="main.aspx">Home</a></li>
        <li><a href="register.aspx">Customer Registration</a></li>
        <li><a href="search.aspx">Search Products</a></li>
        <li><a href="Cart.aspx">Cart</a></li>
        <li><a href="EmployeeLogin.aspx">Employee Login</a></li>
        <li><a href="help.aspx">Help</a></li>
        <li>
          <asp:LinkButton ID="btnLogout" runat="server"
            OnClick="btnLogout_Click">
            Logout
          </asp:LinkButton>
        </li>
      </ul>
    </nav>

    <div class="container">
      <h2>Welcome to Pine Valley Furniture</h2>

      <!-- User Label -->
      <asp:Label ID="lblUser" runat="server" Font-Bold="True"></asp:Label>
      <br /><br />

      <asp:HyperLink ID="ShopNowLink" runat="server" NavigateUrl="search.aspx">
        <asp:Button ID="btnShopNow" runat="server"
          Text="Shop Now"
          CssClass="btn" />
      </asp:HyperLink>
    </div>

    <footer>
      Contact us: 0309-5878126 | Email: pvfc@gmail.com
    </footer>
```

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

.aspx.vb

```
Partial Class _main
```

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

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

```
        If Not IsPostBack Then
```

```
            ' If logged in
```

```
            If Session("Customer_Id") IsNot Nothing Then
```

```
                lblUser.Text = "Welcome, " & Session("UserName").ToString()
```

```
                btnLogout.Visible = True
```

```
            Else
```

```
                ' Guest user
```

```
                lblUser.Text = "Welcome, Guest"
```

```
                btnLogout.Visible = False
```

```
            End If
```

```
        End If
```

```
    End Sub
```

```
    ' Logout button
```

```
    Protected Sub btnLogout_Click(sender As Object, e As EventArgs)
```

```
        Session.Clear()
```

```
        Session.Abandon()
```

```
        Response.Redirect("main.aspx")
```

```
    End Sub
```

```
End Class
```

Help Page

.aspx

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

```
<!DOCTYPE html>
```

```
<html>
```

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

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

```
  <link rel="stylesheet" href="style.css" />
```

```
</head>
```

```
<body>
```

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

```
<header>
```

```
  <h1>Help & User Guide</h1>
```

```
</header>
```

```
<nav>
```

```
  <ul>
```

```
    <li><a href="index.aspx">Home</a></li>
```

```
    <li><a href="Register.aspx">Register</a></li>
```

```
    <li><a href="Search.aspx">Search</a></li>
```

```
  </ul>
```

```
</nav>
```

```
<div class="container">
```

```
<h3>New Customer Registration</h3>
```

```
<p>Customers can register by filling their name, address, city, state and postal code.</p>
```

```
<p><a href="Register.aspx">Go to Registration Page</a></p>
```

```
<hr />
```

```
<h3>Search Products</h3>
```

```
<p>Users can search products by description and product line.</p>
```

```
<p><a href="Search.aspx">Go to Search Page</a></p>
```

```
<hr />
```

```
<h3>Product Catalog Update</h3>
<p>Only employees can update product description, finish and price.</p>
<p><a href="EmployeeLogin.aspx">Employee Login</a></p>
```

```
<hr />
```

```
<h3>Payment Provision</h3>
<p>Customers can select payment method after placing order.</p>
<p><a href="payment.aspx">Go to Payment Page</a></p>
```

```
</div>
```

```
<footer>
  Contact us: 0309-5878126 | Email: hhm@gmail.com
</footer>
```

```
</form>
```

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

.aspx.vb

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

```
End Class
```