

## 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")

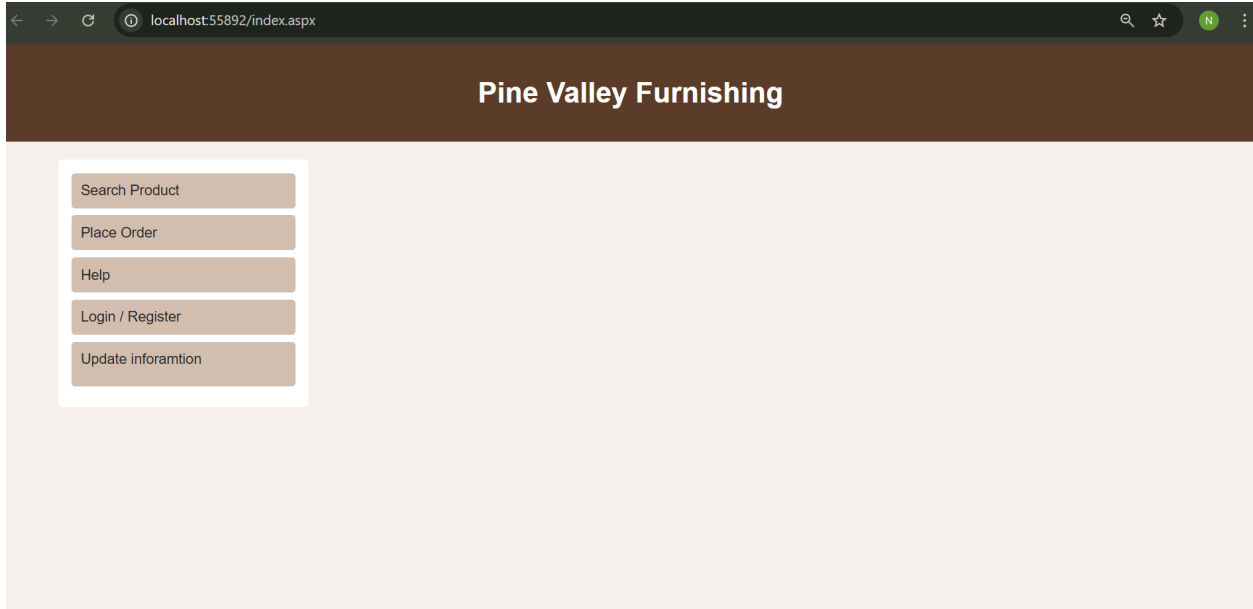
End Sub

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>

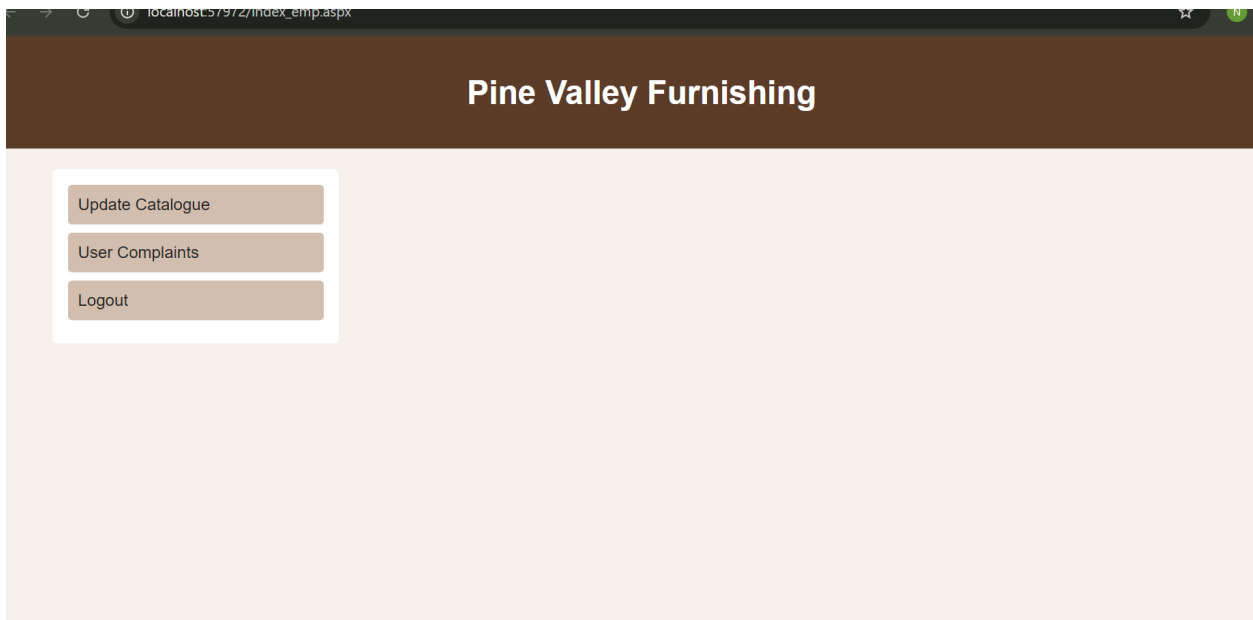
<div class="container">
<div class="menu">
<asp:LinkButton ID="lnkUpdate" runat="server"PostBackUrl="update.aspx">Update
Catalogue</asp:LinkButton>
<asp:LinkButton ID="lnkHelp" runat="server"PostBackUrl="help.aspx">User
Complaints</asp:LinkButton>
<asp:LinkButton ID="lnkLogout" runat="server"
PostBackUrl="index.aspx">Logout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

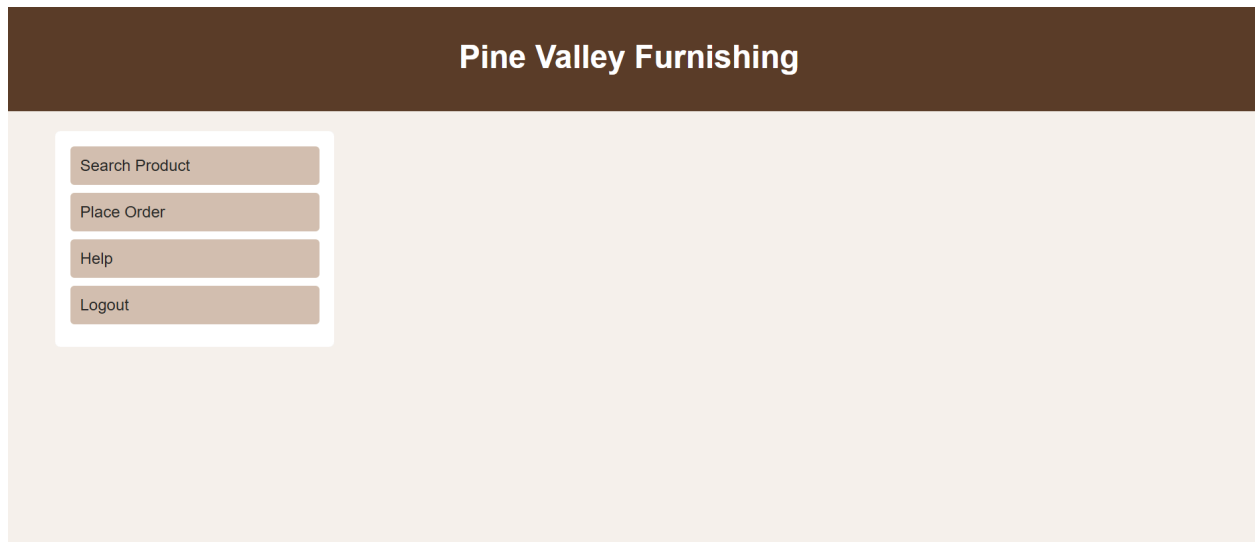
End Class

## [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

```

```

        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

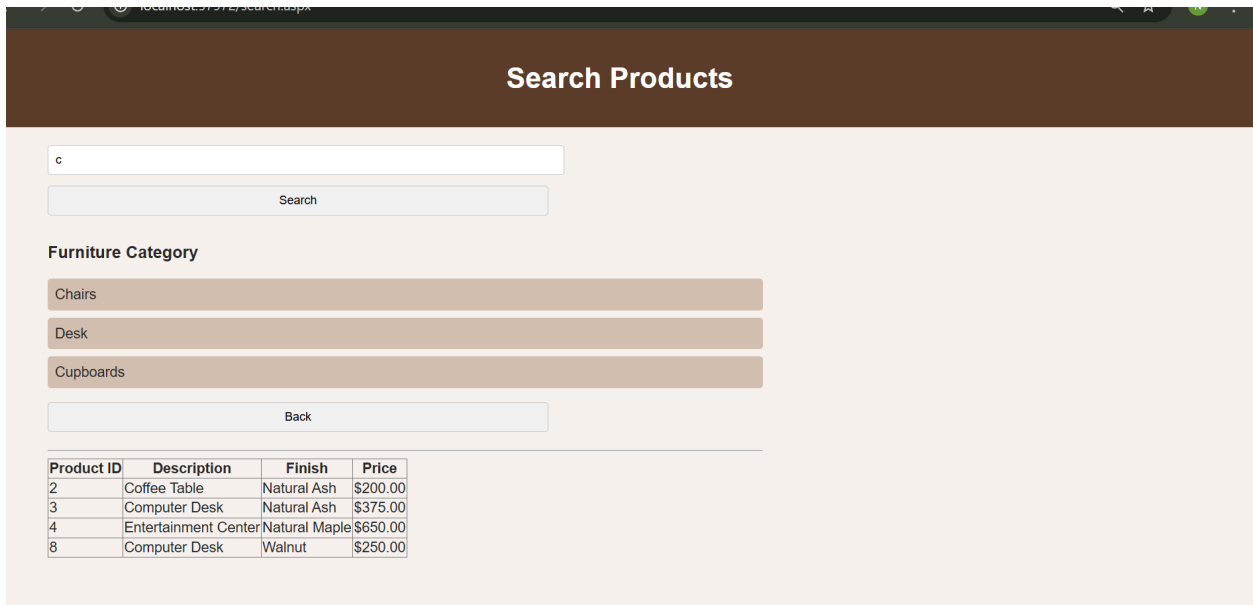
' Connect to database and execute query
Using con As New SqlConnection(conStr)
    Using cmd As New SqlCommand(sql, con)
        cmd.Parameters.AddWithValue("@keyword", "%" & keyword & "%") ' LIKE operator
        con.Open()
        Dim reader As SqlDataReader = cmd.ExecuteReader()
        GridView1.DataSource = 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
<a href="#">Select</a>	1	End Table	175.00
<a href="#">Select</a>	2	Coffee Table	200.00
<a href="#">Select</a>	3	Computer Desk	375.00
<a href="#">Select</a>	4	Entertainment Center	650.00
<a href="#">Select</a>	5	Writers Desk	325.00
<a href="#">Select</a>	6	8-Drawer Desk	750.00
<a href="#">Select</a>	7	Dining Table	800.00
<a href="#">Select</a>	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 is a white box with a light beige background. At the top of this box, the title 'Update Customer Information' is centered. Below the title, there are several input fields and buttons. The first field is labeled 'Enter CNIC:' and contains the value '00000-0000000-0'. Below this field is a 'Load' button. The next field is labeled 'Name:' and contains 'Value Furniture'. The 'Address:' field contains '15145 S.W. 17th St.'. The 'City:' field contains 'Plano'. The 'State:' field contains 'TX'. The 'Postal Code:' field contains '75094-7743'. At the bottom of the form, there 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;  
}
```