

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

| ID | Description | Finish | Price | |
|----|----------------------|---------------|--------|----------------------------------|
| 1 | End Table | Cherry | 210.00 | Order & View |
| 2 | Coffee Table | Natural Ash | 200.00 | Order & View |
| 3 | Computer Desk | Natural Ash | 375.00 | Order & View |
| 4 | Entertainment Center | Natural Maple | 650.00 | Order & View |
| 5 | Writers Desk | Cherry | 325.00 | Order & View |
| 6 | 8-Drawer Desk | White Ash | 750.00 | Order & View |
| 7 | Dining Table | Natural Ash | 800.00 | Order & View |
| 8 | Computer Desk | Walnut | 250.00 | Order & View |

Customer Registration Form

Customr id:
 Customer Name:
 Address:
 City:
 State:
 Postal Address:

Note: Data could only be updated if customer is already registered

Update Catalogue

Selected Product Details

Product ID: 4

Description: Entertainment Center

Unit Price: \$650.00

Enter Your Customer ID:

Quantity:

Total: \$650.00

Proceed to Payment

Finalize Order

Select Payment Method:

Bank Card Cash On Delivery

Card Details

[Place Order Now](#)

CODE

Home.aspx

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

```
<!DOCTYPE html>
```

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

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

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

```
</head>
```

```
<body>
```

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

```
<asp:BulletedList ID="BulletedList1" runat="server"
```

```
DisplayMode="HyperLink">
```

```
<asp:ListItem Value="#">Home</asp:ListItem>
```

```
<asp:ListItem
```

```
Value="registration.aspx">Registration</asp:ListItem>
```

```
<asp:ListItem Value="updatecatalogue.aspx">Catalogue
```

```
Update</asp:ListItem>
```

```
<asp:ListItem Value="helppage.aspx">Help</asp:ListItem>
```

```
</asp:BulletedList>
```

```
<asp:TextBox ID="txtSearch" runat="server" placeholder="Search
Product" style="margin-left: 24px" Width="437px"></asp:TextBox>
```

```
<asp:Button ID="btnSearch" runat="server" Text="Search"
```

```
OnClick="BtnSearch_Click" style="margin-left: 14px" Width="156px" />
```

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

```
<asp:GridView ID="gvCrops" runat="server"
AutoGenerateColumns="False"
OnSelectedIndexChanged="gvProducts_SelectedIndexChanged"
DataKeyNames="Product_Id" CssClass="table">
  <Columns>
    <asp:BoundField DataField="Product_Id" HeaderText="ID" />
    <asp:BoundField DataField="Product_Description"
HeaderText="Description" />
    <asp:BoundField DataField="Product_Finish" HeaderText="Finish"
/>
    <asp:BoundField DataField="Standard_Price" HeaderText="Price"
/>

    <asp:CommandField ShowSelectButton="True" SelectText="Order &
View" />
  </Columns>
</asp:GridView>

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

Home.aspx.vb

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

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

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

 ' Only load data the first time the page opens

 If Not IsPostBack Then

 LoadCropData()

 End If

End Sub

Private Sub LoadCropData()

 ' 1. Connection String (Using SQL Authentication)

 Dim connStr As String =

ConfigurationManager.ConnectionStrings("PVFC_Conn").ConnectionString

 ""Server=ABDULLAH\SQLEXPRESS;Database=PVFC_DB;UserId=FarmAdmin;Password=abcd8552;""

 ' 2. The SQL Query

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

 Using conn As New SqlConnection(connStr)

 Using cmd As New SqlCommand(query, conn)

 Dim dt As New DataTable()

 Try

 conn.Open()

 ' 3. Fill the DataTable with data from SQL

 Dim adapter As New SqlDataAdapter(cmd)

 adapter.Fill(dt)

 ' 4. Bind the data to the GridView

 gvCrops.DataSource = dt

 gvCrops.DataBind()

```
    Catch ex As Exception
        ' Simple error handling for debugging
        Response.Write("Error: " & ex.Message)
    End Try
End Using
End Using
End Sub
```

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

```
    ' 1. Get the Selected Row
    Dim row As GridViewRow = gvCrops.SelectedRow

    ' 2. Get the Data (using the DataKey we set in the ASPX)
    Dim productId As String =
gvCrops.SelectedDataKey.Value.ToString()
    Dim description As String = row.Cells(1).Text ' Description is in the
2nd column
    Dim price As String = row.Cells(3).Text    ' Price is in the 4th
column

    ' 3. Navigate to order page with data in the URL
    Response.Redirect("order.aspx?ProdID=" & productId & "&Desc="
& Server.UrlEncode(description) & "&Price=" & price)
End Sub
```

```
Protected Sub BtnSearch_Click(sender As Object, e As EventArgs)
    ' 1. Get the keyword from the search textbox
    Dim keyword As String = txtSearch.Text.Trim()

    ' 2. Connection String (Consistent with your LoadCropData)
    Dim connStr As String =
"Server=ABDULLAH\SQLEXPRESS;Database=PVFC_DB;User
Id=FarmAdmin;Password=abcd8552;"

    ' 3. The SQL Search Query using LIKE to find partial matches
```

' The '%' symbols act as wildcards to find the keyword anywhere in the text

```
Dim query As String = "SELECT Product_Id, Product_Description,  
Product_Finish, Standard_Price " &  
    "FROM PRODUCT_t " &  
    "WHERE Product_Description LIKE '%' + @Keyword +  
'%' " &  
    "OR Product_Finish LIKE '%' + @Keyword + '%'"
```

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

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

```
' 4. Add the parameter to prevent SQL Injection
```

```
cmd.Parameters.AddWithValue("@Keyword", keyword)
```

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

```
Try
```

```
    conn.Open()
```

```
    Dim adapter As New SqlDataAdapter(cmd)
```

```
    adapter.Fill(dt)
```

```
' 5. Re-bind the filtered results to your GridView
```

```
gvCrops.DataSource = dt
```

```
gvCrops.DataBind()
```

```
Catch ex As Exception
```

```
    Response.Write("Error: " & ex.Message)
```

```
End Try
```

```
End Using
```

```
End Using
```

```
End Sub
```

```
End Class
```

```
Public Class Product
```

```
    Public Property Product_Name As String
```

```
    Public Property Product_Finish As String
```

```
    Public Property Price As Double
```

```
End Class
```

Registration.aspx

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

```
<!DOCTYPE html>
```

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

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

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

```
</head>
```

```
<body>
```

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

```
<div>
```

```
<asp:Label ID="Label1" runat="server" Text="<h1>Customer  
Registration Form</h1>"></asp:Label>
```

```
<asp:Label ID="Label6" runat="server" Text="Customr  
id:"></asp:Label>
```

```
<asp:TextBox ID="TextBox8" runat="server"  
TextMode="Number"></asp:TextBox> <br />
```

```
<asp:Label ID="Label2" runat="server" Text="Customer  
Name:"></asp:Label>
```

```
<asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>  
<br />
```

```
<asp:Label ID="Label8" runat="server"  
Text="Address:"></asp:Label>
```

```
<asp:TextBox ID="TextBox7" runat="server"></asp:TextBox> <br />
```

```
<asp:Label ID="Label3" runat="server" Text="City:"></asp:Label>
```

```
<asp:TextBox ID="TextBox2" runat="server"></asp:TextBox> <br />
```

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

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

```
</div>
<p>
```

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

```
<asp:Button ID="Button2" runat="server" Text="Update" /> <br
/> <br />
```

```
<i>Note: Data could only be updated if customer is already
registered</i>
```

```
</p>
</form>
```

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

Registration.aspx.vb

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

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

' Connection string remains consistent using your FarmAdmin credentials

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

```
""Server=ABDULLAH\SQLEXPRESS;Database=PVFC_DB;User  
Id=FarmAdmin;Password=abcd8552;TrustServerCertificate=True;"
```

' --- SUBMIT BUTTON LOGIC (INSERT) ---

```
Protected Sub Button1_Click(sender As Object, e As EventArgs)  
Handles Button1.Click
```

```
Dim query As String = "INSERT INTO CUSTOMER_t (Customer_Id,  
Customer_Name, Customer_Address, Customer_City, Customer_State,  
Postal_Code) " &
```

```
    "VALUES (@Id, @Name, @Address, @City, @State,  
@Zip)"
```

```
ExecuteDatabaseOperation(query, "Registered", True)
```

```
End Sub
```

' --- UPDATE BUTTON LOGIC (UPDATE) ---

```
Protected Sub Button2_Click(sender As Object, e As EventArgs)  
Handles Button2.Click
```

' SQL Update requires a WHERE clause to target the specific Customer_Id entered in TextBox8

```
Dim query 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"
```

```
ExecuteDatabaseOperation(query, "Updated", False)
```

```
End Sub
```

```

' Helper method to avoid repeating code for both buttons
Private Sub ExecuteDatabaseOperation(query As String,
actionName As String, clearAfter As Boolean)
    Using conn As New SqlConnection(connStr)
        Using cmd As New SqlCommand(query, conn)
            ' Mapping parameters from your TextBoxes
            cmd.Parameters.AddWithValue("@Id", TextBox8.Text)
            cmd.Parameters.AddWithValue("@Name", TextBox1.Text)
            cmd.Parameters.AddWithValue("@Address", TextBox7.Text)
            cmd.Parameters.AddWithValue("@City", TextBox2.Text)
            cmd.Parameters.AddWithValue("@State", TextBox3.Text)
            cmd.Parameters.AddWithValue("@Zip", TextBox4.Text)

            Try
                conn.Open()
                Dim rowsAffected As Integer = cmd.ExecuteNonQuery()

                If rowsAffected > 0 Then
                    Response.Write("<script>alert('Customer " &
TextBox8.Text & " " & actionName & " Successfully!');</script>")
                    If clearAfter Then ClearForm()
                Else
                    Response.Write("<script>alert('No record found with ID "
& TextBox8.Text & " to " & actionName.ToLower() & ".');</script>")
                End If
            Catch ex As Exception
                Response.Write("Error: " & ex.Message)
            End Try
        End Using
    End Using
End Sub

```

```

Private Sub ClearForm()

```

```

    TextBox1.Text = ""

```

```

    TextBox2.Text = ""

```

```

    TextBox3.Text = ""

```

```

    TextBox4.Text = ""

```

```
        TextBox7.Text = ""
        TextBox8.Text = ""
    End Sub
End Class
```

Updatecatalogue.aspx

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

<!DOCTYPE html>

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

        <asp:TextBox ID="TextBox5" runat="server"
placeholder="Enter Product ID"></asp:TextBox> <br />
        <asp:TextBox ID="TextBox6" runat="server"
placeholder="Enter Product Line ID"></asp:TextBox> <br />

        <asp:TextBox ID="TextBox1" runat="server" placeholder="Enter
Product Description"></asp:TextBox> <br />
        <asp:TextBox ID="TextBox2" runat="server" placeholder="Enter
Product Finish"></asp:TextBox> <br />
        <asp:TextBox ID="TextBox3" runat="server" placeholder="Enter
Product Price" TextMode="Number"></asp:TextBox> <br />

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

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

[updatecatalogue.aspx.vb](#)

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

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

```
    Protected Sub Button1_Click(sender As Object, e As EventArgs)
        Handles Button1.Click
```

```
        ' 1. Connection string using your established credentials
```

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

```
        ""Server=ABDULLAH\SQLEXPRESS;Database=PVFC_DB;User
        Id=FarmAdmin;Password=abcd8552;TrustServerCertificate=True;"
```

```
        ' 2. The SQL UPDATE Query
```

```
        ' We use WHERE Product_Id = @ID to make sure we only update
        the specific product
```

```
        Dim query As String = "UPDATE PRODUCT_t SET " &
            "Product_Description = @Desc, " &
            "Product_Finish = @Finish, " &
            "Standard_Price = @Price, " &
            "Product_Line_Id = @LineID " &
            "WHERE Product_Id = @ID"
```

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

```

Using cmd As New SqlCommand(query, conn)
    ' 3. Map TextBoxes to Parameters
    cmd.Parameters.AddWithValue("@ID", TextBox5.Text) '
Product ID (The Key)
    cmd.Parameters.AddWithValue("@LineID", TextBox6.Text) '
Product Line ID
    cmd.Parameters.AddWithValue("@Desc", TextBox1.Text) '
Description
    cmd.Parameters.AddWithValue("@Finish", TextBox2.Text) '
Finish
    cmd.Parameters.AddWithValue("@Price", TextBox3.Text) '
Price

Try
    conn.Open()
    Dim rowsAffected As Integer = cmd.ExecuteNonQuery()

    ' 4. Check if a row was actually updated
    If rowsAffected > 0 Then
        Response.Write("<script>alert('Product ID " &
TextBox5.Text & " updated successfully!');</script>")
    Else
        ' This happens if the user enters a Product ID that doesn't
exist in the DB
        Response.Write("<script>alert('Error: Product ID not
found.');

```

Order.aspx

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

```
<!DOCTYPE html>
```

```
<html>
```

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

```
    <title>Place Your Order</title>
```

```
</head>
```

```
<body>
```

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

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

```
            <h2>Selected Product Details</h2>
```

```
            <asp:Label ID="lblid" runat="server"
```

```
CssClass="data-label"></asp:Label><br />
```

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

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

```
            <asp:HiddenField ID="hfPrice" runat="server" />
```

```
        <hr />
```

```
        <p>
```

```
            <asp:Label runat="server" Text="Enter Your Customer
ID:"></asp:Label><br />
```

```
            <asp:TextBox ID="CustID_TB" runat="server"
TextMode="Number" required="required"></asp:TextBox>
```

```
        </p>
```

```
        <p>
```

```
            <asp:Label runat="server" Text="Quantity:"></asp:Label><br
/>
```

```
            <asp:TextBox ID="Quantity_TB" runat="server"
TextMode="Number" Min="1" Text="1"
AutoPostBack="true"></asp:TextBox>
```

```
        </p>
```

```
<h3><asp:Label ID="lbltotal" runat="server" Text="Total:
$0.00"></asp:Label></h3>
```

```
<asp:Button ID="btnProceed" runat="server" Text="Proceed to
Payment" Height="40px" Width="16%" />
</div>
</form>
</body>
</html>
```

Order.aspx.vb

Partial Class OrderPage

Inherits System.Web.UI.Page

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

If Not IsPostBack Then

```
' Retrieve data from the home page's query string
Dim prodID As String = Request.QueryString("ProdID")
Dim desc As String = Request.QueryString("Desc")
Dim priceStr As String = Request.QueryString("Price")
```

If Not String.IsNullOrEmpty(prodID) Then

```
lblid.Text = "Product ID: " & prodID
lblDesc.Text = "Description: " & desc
lblPrice.Text = "Unit Price: $" & priceStr
hfPrice.Value = priceStr
```

```
' Calculate initial total
UpdateTotal()
```

End If

End If

End Sub

Protected Sub Quantity_TB_TextChanged(sender As Object, e As
EventArgs) Handles Quantity_TB.TextChanged

```
UpdateTotal()
```

End Sub

```
Private Sub UpdateTotal()  
    Dim qty As Integer = If(IsNumeric(Quantity_TB.Text),  
Convert.ToInt32(Quantity_TB.Text), 1)  
    Dim price As Double = If(IsNumeric(hfPrice.Value),  
Convert.ToDouble(hfPrice.Value), 0)  
    lbltotal.Text = "Total: $" & (qty * price).ToString("0.00")  
End Sub
```

```
Protected Sub btnProceed_Click(sender As Object, e As EventArgs)  
Handles btnProceed.Click  
    ' Pass everything to the final payment/database page  
    Dim url As String =  
String.Format("payment.aspx?CustID={0}&ProdID={1}&Qty={2}",  
CustID_TB.Text, Request.QueryString("ProdID"),  
Quantity_TB.Text)  
    Response.Redirect(url)  
End Sub  
End Class
```

Payment.aspx

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

```
<!DOCTYPE html>  
<html>  
<head runat="server">  
    <title>Payment Selection</title>  
</head>  
<body>  
    <form id="form1" runat="server">  
  
        <h1>Finalize Order</h1>  
        <p>Select Payment Method:</p>
```

```

        <asp:RadioButton ID="cardRad" runat="server" Text="Bank
Card" GroupName="payGroup" AutoPostBack="True" />
        <asp:RadioButton ID="cashRad" runat="server" Text="Cash On
Delivery" GroupName="payGroup" AutoPostBack="True"
Checked="True" />

        <asp:Panel ID="pnlCardDetails" runat="server" Visible="false"
Style="border:1px solid #ccc; padding:10px; margin-top:10px;">
            <h3>Card Details</h3>
            <asp:TextBox ID="txtCardName" runat="server"
placeholder="Name on Card"></asp:TextBox><br />
            <asp:TextBox ID="txtCardNum" runat="server"
placeholder="Card Number"></asp:TextBox>
        </asp:Panel>

        <br /><br />
        <asp:Button ID="btnConfirm" runat="server" Text="Place Order
Now" Height="40px" Width="18%" BackColor="#007bff"
ForeColor="White" />

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

```

payment.aspx.vb

```

Imports System.Data.SqlClient
Imports System.Configuration

```

```

Partial Class PaymentPage
    Inherits System.Web.UI.Page

```

```

    ' Using your established credentials
    Dim connStr As String =
ConfigurationManager.ConnectionStrings("PVFC_Conn").ConnectionStr
ing

```

```
""Server=ABDULLAH\SQLEXPRESS;Database=PVFC_DB;User  
Id=FarmAdmin;Password=abcd8552;TrustServerCertificate=True;"
```

```
Protected Sub cardRad_CheckedChanged(sender As Object, e As  
EventArgs) Handles cardRad.CheckedChanged,  
cashRad.CheckedChanged  
    pnlCardDetails.Visible = cardRad.Checked  
End Sub
```

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

```
    ' 1. Retrieve the data passed through the URL
```

```
    Dim custID As String = Request.QueryString("CustID")
```

```
    Dim prodID As String = Request.QueryString("ProdID")
```

```
    Dim qty As String = Request.QueryString("Qty")
```

```
    Dim orderDate As DateTime = DateTime.Now
```

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

```
    conn.Open()
```

```
    ' Start Transaction
```

```
    Dim trans As SqlTransaction = conn.BeginTransaction()
```

```
Try
```

```
    ' 2. Calculate next Order_Id (Starting from 1010)
```

```
    Dim nextOID As Integer
```

```
    Dim idSql As String = "SELECT ISNULL(MAX(Order_Id), 1010)  
+ 1 FROM ORDER_t"
```

```
Using idCmd As New SqlCommand(idSql, conn, trans)
```

```
    nextOID = Convert.ToInt32(idCmd.ExecuteScalar())
```

```
End Using
```

```
    ' 3. Insert into ORDER_t
```

```
    Dim orderSql As String = "INSERT INTO ORDER_t (Order_Id,  
Customer_Id, Order_Date) VALUES (@OID, @CID, @Date)"
```

```
Using oCmd As New SqlCommand(orderSql, conn, trans)
```

```
    oCmd.Parameters.AddWithValue("@OID", nextOID)
```

```
    oCmd.Parameters.AddWithValue("@CID", custID)
```

```

        oCmd.Parameters.AddWithValue("@Date", orderDate)
        oCmd.ExecuteNonQuery()
    End Using

    ' 4. Insert into ORDER_LINE_†
    ' Assuming simple manual ID for lines or using Order_Id as
reference
    Dim lineSql As String = "INSERT INTO ORDER_LINE_†
(Order_Id, Product_Id, Ordered_Quantity) VALUES (@OID, @PID,
@Qty)"

    Using ICmd As New SqlCommand(lineSql, conn, trans)
        ICmd.Parameters.AddWithValue("@OID", nextOID)
        ICmd.Parameters.AddWithValue("@PID", prodID)
        ICmd.Parameters.AddWithValue("@Qty", qty)
        ICmd.ExecuteNonQuery()
    End Using

    ' 5. Commit if both succeeded
    trans.Commit()
    Response.Write("<script>alert('Order Successful! Your Order
ID is: " & nextOID & "'); window.location='default.aspx';</script>")

    Catch ex As Exception
        ' Rollback if any part fails to maintain DB integrity
        trans.Rollback()
        Response.Write("<script>alert('Database Error: " &
ex.Message.Replace("'", "'") & "');</script>")
    End Try
    End Using
    End Sub
End Class

```