

Default.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Default.aspx.cs"
Inherits="WebApp._Default" %>
```

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

  <style>
    .linkStyle {
      display: inline-block;
      margin: 10px 0;
    }
  </style>
</head>
<body>

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

    <asp:HyperLink ID="lnkTask1Problem" runat="server"
      NavigateUrl="task_01_problem_statement.txt"
      CssClass="linkStyle">
      Task_01 Problem Statement
    </asp:HyperLink>
    <br />

    <asp:HyperLink ID="lnkTask1Report" runat="server"
      NavigateUrl="task_01_Code_Implementation_report.pdf"
      CssClass="linkStyle">
      Task_01 Code Implementation Report
    </asp:HyperLink>
    <br />

    <asp:HyperLink ID="lnkTask1Output" runat="server"
      NavigateUrl="task_01_sample_output.pdf"
      CssClass="linkStyle">
      Task_01 Sample Output
    </asp:HyperLink>
    <br />

    <asp:HyperLink ID="lnkTask1Demo" runat="server"
      NavigateUrl="task_01.aspx"
      CssClass="linkStyle">
      Task_01 Demonstration Page
    </asp:HyperLink>
    <br />

  </form>

</body>
</html>
```

Default.aspx.cs

```
using System;

namespace WebApp
{
    public partial class _Default : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            // Runs every time page loads
        }
    }
}
```

Task_01.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="task_01.aspx.cs"
Inherits="IADLAB4.task_01" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <style>
        .linkStyle {
            display: inline-block;
            margin: 10px 0;
        }
    </style>
</head>
<body>
    <form id="form1" runat="server">
        <asp:HyperLink runat="server"
NavigateUrl="task_01_Customer_Registration.aspx" CssClass="linkStyle">
Customer Registration

    </asp:HyperLink>
    <br />
        <asp:HyperLink runat="server" NavigateUrl="task_01_product_catalog.aspx"
CssClass="linkStyle">
Product Catalog
    </asp:HyperLink>
    <br />
        <asp:HyperLink runat="server" NavigateUrl="task_01_product_search.aspx"
CssClass="linkStyle">
Product Search
    </asp:HyperLink>
    <br />
        <asp:HyperLink runat="server" NavigateUrl="task_01_product_selection.aspx"
CssClass="linkStyle">
Product Selection
```

```

</asp:HyperLink>
<br />

<asp:HyperLink runat="server" NavigateUrl="task_01_payment_provision.aspx"
CssClass="linkStyle">
Payment Provision
</asp:HyperLink>
<br />
</form>
</body>
</html>

```

Task_01.aspx.cs

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace IADLAB4
{
    public partial class task_01 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }
    }
}

```

Task_01_Customer_Registration.aspx

```

<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="task_01_Customer_Registration.aspx.cs"
Inherits="PVFC.task_01_Customer_Registration" %>

<!DOCTYPE html>
<html>
<head runat="server">
    <title>Customer Registration</title>
</head>
<body>
<form id="form1" runat="server">
    <h2>New Customer Registration</h2>

    Customer ID:<br />
    <asp:TextBox ID="txtId" runat="server" /><br /><br />

    Customer Name:<br />
    <asp:TextBox ID="txtName" runat="server" /><br /><br />

    Address:<br />

```

```

<asp:TextBox ID="txtAddress" runat="server" /><br /><br />
State:<br />
<asp:TextBox ID="txtState" runat="server" /><br /><br />
City:<br />
<asp:DropDownList ID="ddlCity" runat="server" AutoPostBack="true"
    OnSelectedIndexChanged="ddlCity_SelectedIndexChanged">
    <asp:ListItem Text="Lahore" Value="54000" />
    <asp:ListItem Text="Karachi" Value="74000" />
    <asp:ListItem Text="Islamabad" Value="44000" />
    <asp:ListItem Text="Rawalpindi" Value="46000" />
</asp:DropDownList><br /><br />
Postal Code:<br />
<asp:TextBox ID="txtPostal" runat="server" ReadOnly="true" /><br /><br />
<asp:Button ID="btnRegister" runat="server"
    Text="Register Customer"
    OnClick="btnRegister_Click" />
<br /><br />
<asp:Label ID="lblMsg" runat="server" ForeColor="Green" />
</form>
</body>
</html>

```

Task_01 Customer Registration.aspx.cs

```

using System;
using System.Configuration;
using System.Data.SqlClient;

namespace PVFC
{
    public partial class task_01_Customer_Registration : System.Web.UI.Page
    {
        // Connection string to your SQL Server database
        string connStr =
        ConfigurationManager.ConnectionStrings["PVFCConnectionString"].ConnectionString;

        protected void Page_Load(object sender, EventArgs e)
        {
            if (!IsPostBack)
            {
                ddlCity.Items.Insert(0, new
                System.Web.UI.WebControls.ListItem("Select City", ""));
            }
        }

        // Auto-fill postal code from city dropdown
        protected void ddlCity_SelectedIndexChanged(object sender, EventArgs e)
        {
            txtPostal.Text = ddlCity.SelectedValue; // Postal code value from
            dropdown
        }
    }
}

```

```

    }

    protected void btnRegister_Click(object sender, EventArgs e)
    {
        try
        {
            using (SqlConnection con = new SqlConnection(connStr))
            {
                string query = @"INSERT INTO CUSTOMER_t
                (Customer_Id, Customer_Name, Customer_Address,
                Customer_City, Customer_State, Postal_Code)
                VALUES
                (@Id, @Name, @Address, @City, @State,
                @Postal)";

                using (SqlCommand cmd = new SqlCommand(query, con))
                {
                    cmd.Parameters.AddWithValue("@Id", txtId.Text);
                    cmd.Parameters.AddWithValue("@Name", txtName.Text);
                    cmd.Parameters.AddWithValue("@Address", txtAddress.Text);
                    cmd.Parameters.AddWithValue("@City",
                    ddlCity.SelectedItem.Text);
                    cmd.Parameters.AddWithValue("@State", txtState.Text);
                    cmd.Parameters.AddWithValue("@Postal", txtPostal.Text);

                    con.Open();
                    int rows = cmd.ExecuteNonQuery();

                    lblMsg.Text = rows > 0 ? "Customer Registered Successfully!"
                    : "Registration Failed!";
                }
            }
        }
        catch (Exception ex)
        {
            lblMsg.Text = "Error: " + ex.Message;
        }
    }
}

```

Task 01 payment_provision.aspx

```

<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="task_01_payment_provision.aspx.cs"
Inherits="PVFC.task_01_payment_provision" %>

```

```

<!DOCTYPE html>
<html>
<head runat="server">
<title>Payment Provision</title>

```

```

<style>

```

```

form{
width:420px;

```

```
margin:40px auto;
padding:25px;
border:1px solid #ccc;
background-color:white;
}

h2{
text-align:center;
}

input{
width:200px;
padding:5px;
}

button{
padding:6px 10px;
margin-right:5px;
}

</style>

</head>

<body>

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

<h2>Payment Provision</h2>

Order ID:<br />
<asp:TextBox ID="txtOrderId" runat="server"></asp:TextBox>

<br /><br />

Account Number:<br />
<asp:TextBox ID="txtAccount" runat="server"></asp:TextBox>

<br /><br />

Payment Method:<br />

<asp:Button ID="btnCash"
runat="server"
Text="Cash"
OnClick="btnCash_Click" />

<asp:Button ID="btnOnline"
runat="server"
Text="Online"
OnClick="btnOnline_Click" />

<asp:Button ID="btnOthers"
runat="server"
Text="Others"
OnClick="btnOthers_Click" />

<br /><br />
```

```

<asp:Button ID="btnSubmit"
runat="server"
Text="Submit Payment"
OnClick="btnSubmit_Click" />

<br /><br />

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

</form>

</body>
</html>

```

Task 01 payment_provision.aspx.cs

```

using System;

namespace PVFC
{
    public partial class task_01_payment_provision : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
        }

        protected void btnCash_Click(object sender, EventArgs e)
        {
            lblOutput.Text = "You selected Cash on Delivery.";
        }

        protected void btnOnline_Click(object sender, EventArgs e)
        {
            lblOutput.Text = "You selected Online Payment.";
        }

        protected void btnOthers_Click(object sender, EventArgs e)
        {
            lblOutput.Text = "You selected Other Payment Method.";
        }

        protected void btnSubmit_Click(object sender, EventArgs e)
        {
            string account = txtAccount.Text;

            lblOutput.Text = "Payment submitted successfully using account: " +
account;
        }
    }
}

```

Task 01 product catalog update.aspx

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="task_01_product_catalog.aspx.cs" Inherits="PVFC.task_01_product_catalog"
%>

<!DOCTYPE html>
<html>
<head runat="server">
  <title>Product Catalog Update</title>
</head>
<body>
<form id="form1" runat="server">
  <h2>Product Catalog Update</h2>

  Product ID:<br />
  <asp:TextBox ID="txtProductId" runat="server" /><br /><br />

  Product Line:<br />
  <asp:DropDownList ID="ddlProductLine" runat="server">
    <asp:ListItem Text="Select Line" Value="" />
    <asp:ListItem Text="Cherry Tree" Value="1" />
    <asp:ListItem Text="Scandinavia" Value="2" />
    <asp:ListItem Text="Country Look" Value="3" />
  </asp:DropDownList><br /><br />

  Description:<br />
  <asp:TextBox ID="txtDescription" runat="server" /><br /><br />

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

  Standard Price:<br />
  <asp:TextBox ID="txtPrice" runat="server" /><br /><br />

  <asp:Button ID="btnUpdate" runat="server"
    Text="Update Product"
    OnClick="btnUpdate_Click" />

  <br /><br />
  <asp:Label ID="lblMsg" runat="server" ForeColor="Green" />
</form>
</body>
</html>
```

Task 01 product catalog update.aspx.cs

```
using System;
using System.Configuration;
using System.Data.SqlClient;

namespace PVFC
{
  public partial class task_01_product_catalog : System.Web.UI.Page
  {
    string connStr =
    ConfigurationManager.ConnectionStrings["PVFCConnectionString"].ConnectionString;
```

```

protected void btnUpdate_Click(object sender, EventArgs e)
{
    try
    {
        using (SqlConnection con = new SqlConnection(connStr))
        {
            string query = @"UPDATE PRODUCT_t
                SET Product_Line_Id = @LineId,
                    Product_Description = @Desc,
                    Product_Finish = @Finish,
                    Standard_Price = @Price
                WHERE Product_Id = @Pid";

            using (SqlCommand cmd = new SqlCommand(query, con))
            {
                cmd.Parameters.AddWithValue("@Pid", txtProductId.Text);
                cmd.Parameters.AddWithValue("@LineId",
ddlProductLine.SelectedValue);
                cmd.Parameters.AddWithValue("@Desc", txtDescription.Text);
                cmd.Parameters.AddWithValue("@Finish", txtFinish.Text);
                cmd.Parameters.AddWithValue("@Price", txtPrice.Text);

                con.Open();
                int rows = cmd.ExecuteNonQuery();

                lblMsg.Text = rows > 0 ? "Product Updated Successfully!" :
"Product ID Not Found!";
            }
        }
    }
    catch (Exception ex)
    {
        lblMsg.Text = "Error: " + ex.Message;
    }
}
}
}

```

Task_01_product_search.aspx

```

<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="task_01_product_search.aspx.cs" Inherits="PVFC.task_01_product_search"
%>

<!DOCTYPE html>
<html>
<head runat="server">
    <title>Product Search</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            background-color: #f2f2f2;
        }
    </style>
</head>
<form

```

```

    {
        width: 800px;
        margin: 40px auto;
        padding: 25px;
        background-color: white;
        border: 1px solid #ccc;
    }
    h2
    {
        text-align: center;
        margin-bottom: 20px;
    }
    input, select
    { width: 200px;
      padding: 5px;
      margin-bottom: 15px;
    }
    .btnSearch
    {
        padding: 6px 12px;
    }
    #GridView1
    {
        margin-top: 20px;
        width: 100%;
        border-collapse: collapse;
    }
    #GridView1 th, #GridView1 td
    {
        border: 1px solid #ccc;
        padding: 5px;
        text-align: left;
    }
}
</style>
</head>
<body>
    <form id="form1" runat="server">
        <h2>Product Search</h2>

        <label>Enter Product Name:</label><br />
        <asp:TextBox ID="txtSearch" runat="server"></asp:TextBox><br />

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

        <asp:GridView ID="GridView1" runat="server"
        AutoGenerateColumns="true"></asp:GridView>
    </form>
</body>
</html>

```

Task_01_product_search.aspx.cs

```
using System;
using System.Configuration;
using System.Data;
using System.Data.SqlClient;

namespace PVFC
{
    public partial class task_01_product_search : System.Web.UI.Page
    {
        // Your database connection string
        string connStr =
ConfigurationManager.ConnectionStrings["PVFCConnectionString"].ConnectionString;

        protected void btnSearch_Click(object sender, EventArgs e)
        {
            string searchText = txtSearch.Text.Trim();

            if (string.IsNullOrEmpty(searchText))
            {
                // Clear GridView if search box is empty
                GridView1.DataSource = null;
                GridView1.DataBind();
                return;
            }

            try
            {
                using (SqlConnection con = new SqlConnection(connStr))
                {
                    // Query to select matching products
                    string query = @"SELECT Product_Id, Product_Description,
Product_Finish, Standard_Price
                                FROM PRODUCT_t
                                WHERE Product_Description LIKE '%' + @search +
                                '%';";

                    SqlCommand cmd = new SqlCommand(query, con);
                    cmd.Parameters.AddWithValue("@search", searchText);

                    SqlDataAdapter da = new SqlDataAdapter(cmd);
                    DataTable dt = new DataTable();
                    da.Fill(dt);

                    // Bind results to GridView
                    GridView1.DataSource = dt;
                    GridView1.DataBind();
                }
            }
            catch (Exception ex)
            {
                // Optional: display error in a Label if needed
                // lblMsg.Text = "Error: " + ex.Message;
            }
        }
    }
}
```

```
}  
    }  
}
```

Task 01 product_selection.aspx

```
<%@ Page Language="C#" AutoEventWireup="true"  
CodeBehind="task_01_product_selection.aspx.cs"  
Inherits="PVFC.task_01_product_selection" %>  
  
<!DOCTYPE html>  
<html>  
<head runat="server">  
<title>Product Selection</title>  
</head>  
  
<body>  
  
<form id="form1" runat="server">  
  
<h2>Select Product For Order</h2>  
  
Order ID:<br />  
<asp:TextBox ID="txtOrderId" runat="server"></asp:TextBox>  
  
<br /><br />  
  
Product ID:<br />  
<asp:TextBox ID="txtProductId" runat="server"></asp:TextBox>  
  
<br /><br />  
  
Quantity:<br />  
<asp:TextBox ID="txtQuantity" runat="server"></asp:TextBox>  
  
<br /><br />  
  
<asp:Button ID="btnAdd"  
runat="server"  
Text="Add Product"  
OnClick="btnAdd_Click" />  
  
<br /><br />  
  
<asp:Label ID="lblMsg" runat="server"></asp:Label>  
  
</form>  
  
</body>  
</html>
```

Task 01 product_selection.aspx.cs

```
using System;  
using System.Configuration;
```

```

using System.Data.SqlClient;

namespace PVFC
{
    public partial class task_01_product_selection : System.Web.UI.Page
    {
        // Connection string to your PVFC database
        string connStr =
        ConfigurationManager.ConnectionStrings["PVFCConnectionString"].ConnectionString;

        protected void btnAdd_Click(object sender, EventArgs e)
        {
            try
            {
                // Get input values
                int orderId = int.Parse(txtOrderId.Text);
                int productId = int.Parse(txtProductId.Text);
                int quantity = int.Parse(txtQuantity.Text);

                using (SqlConnection con = new SqlConnection(connStr))
                {
                    // Insert into Order_line_t table
                    string query = @"INSERT INTO Order_line_t (Order_Id, Product_Id,
Ordered_Quantity)
                                VALUES (@oid, @pid, @qty)";

                    SqlCommand cmd = new SqlCommand(query, con);
                    cmd.Parameters.AddWithValue("@oid", orderId);
                    cmd.Parameters.AddWithValue("@pid", productId);
                    cmd.Parameters.AddWithValue("@qty", quantity);

                    con.Open();
                    cmd.ExecuteNonQuery();
                    con.Close();

                    lblMsg.ForeColor = System.Drawing.Color.Green;
                    lblMsg.Text = "Product added to order successfully!";
                }
            }
            catch (FormatException)
            {
                lblMsg.ForeColor = System.Drawing.Color.Red;
                lblMsg.Text = "Please enter valid numeric values for Order ID,
Product ID, and Quantity.";
            }
            catch (SqlException ex)
            {
                lblMsg.ForeColor = System.Drawing.Color.Red;
                lblMsg.Text = "Database error: " + ex.Message;
            }
            catch (Exception ex)
            {
                lblMsg.ForeColor = System.Drawing.Color.Red;
                lblMsg.Text = "Error: " + ex.Message;
            }
        }
    }
}

```

}