

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="InkTask1Problem" runat="server"
            NavigateUrl="task_01_problem_statement.txt"
            CssClass="linkStyle">
            Task_01 Problem Statement
        </asp:HyperLink>
        <br />

        <asp:HyperLink ID="InkTask1Report" runat="server"
            NavigateUrl="task_01_Code_Implementation_report.pdf"
            CssClass="linkStyle">
            Task_01 Code Implementation Report
        </asp:HyperLink>
        <br />

        <asp:HyperLink ID="InkTask1Output" runat="server"
            NavigateUrl="task_01_sample_output.pdf"
            CssClass="linkStyle">
            Task_01 Sample Output
        </asp:HyperLink>
        <br />

        <asp:HyperLink ID="InkTask1Demo" 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="Lab04IAD.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 Lab04IAD
{
    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.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.aspx.cs:

```
using System.Web.UI;
using System.Web.UI.WebControls;

<%@ 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_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;
    }
    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;
    }
}
}
```