

Login.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Login.aspx.cs" Inherits="IADProject10.Login" %>
```

```
<!DOCTYPE html>
```

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

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

```
<title>Ivory Haya Login</title>
```

```
<style>
```

```
body {
    font-family: Arial;
    background-color: #f4f4f4;
    margin: 0;
    padding: 0;
}

.container {
    width: 400px;
    margin: 60px auto;
    background: white;
    padding: 30px;
    border-radius: 10px;
    box-shadow: 0px 0px 10px #ccc;
    text-align: center;
}

h2 {
    color: #333;
}

.textbox {
    width: 90%;
    padding: 10px;
    border: 1px solid #ccc;
    border-radius: 5px;
}

.btn {
    background: black;
    color: white;
    border: none;
    padding: 10px 20px;
    border-radius: 5px;
    cursor: pointer;
}

.btn:hover {
    background: #444;
}
```

```
.message {  
    color: red;  
    font-weight: bold;  
}  
  
.demo {  
    margin-top:20px;  
    border:1px solid #ddd;  
    padding:15px;  
    border-radius:8px;  
    text-align:left;  
}
```

```
</style>
```

```
</head>
```

```
<body>
```

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

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

```
<h2>Ivory Haya Login</h2>
```

Email

```
<br />
```

```
<asp:TextBox ID="txtEmail"  
    runat="server"  
    CssClass="textbox">  
</asp:TextBox>
```

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

Password

```
<br />
```

```
<asp:TextBox ID="txtPassword"  
    runat="server"  
    TextMode="Password"  
    CssClass="textbox">  
</asp:TextBox>
```

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

```
<asp:Button ID="btnLogin"  
    runat="server"  
    Text="Login"  
    CssClass="btn"  
    OnClick="btnLogin_Click" />
```

```

<br /><br />

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

<div class="demo">

<b>Admin</b><br />
admin@gmail.com / admin123

<br /><br />

<b>Sales Person</b><br />
sales@gmail.com / sales123

<br /><br />

<b>Customer</b><br />
ayesha@gmail.com / 123

</div>

<br />

New User?

<a href="Register.aspx">Register Here</a>

</div>

</form>

</body>
</html>

```

Login.aspx.cs

```

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

namespace IADProject10
{
    public partial class Login : System.Web.UI.Page
    {
        protected void btnLogin_Click(object sender, EventArgs e)
        {
            string connectionString =
                ConfigurationManager.ConnectionStrings["IvoryHayaConnectionString"].ConnectionString;

            SqlConnection con = new SqlConnection(connectionString);

```

```

string query =
    @"SELECT
        Users_t.UserID,
        Users_t.FullName,
        Roles_t.RoleName
    FROM Users_t
    INNER JOIN Roles_t
    ON Users_t.RoleID = Roles_t.RoleID
    WHERE Email=@Email
    AND Password=@Password
    AND IsActive=1";

SqlCommand cmd = new SqlCommand(query, con);

cmd.Parameters.AddWithValue("@Email", txtEmail.Text);
cmd.Parameters.AddWithValue("@Password", txtPassword.Text);

con.Open();

SqlDataReader dr = cmd.ExecuteReader();

if (dr.Read())
{
    Session["UserID"] = dr["UserID"].ToString();
    Session["FullName"] = dr["FullName"].ToString();
    Session["Role"] = dr["RoleName"].ToString();

    Response.Redirect("Dashboard.aspx");
}
else
{
    lblMessage.Text = "Invalid Email or Password.";
}

con.Close();
}
}
}

```

Cart.aspx

```

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Cart.aspx.cs" Inherits="IADProject10.Cart" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">

<title>My Cart</title>

<style>

```

```
body{
    font-family:Arial;
    background:#f4f4f4;
}

.container{
    width:85%;
    margin:40px auto;
    background:white;
    padding:25px;
    border-radius:10px;
    box-shadow:0px 0px 10px #ccc;
}

.grid{
    width:100%;
    border-collapse:collapse;
}

.grid th{
    background:black;
    color:white;
    padding:10px;
}

.grid td{
    border:1px solid #ccc;
    padding:10px;
    text-align:center;
}

.btn{
    background:black;
    color:white;
    padding:10px 15px;
    border:none;
    border-radius:5px;
    cursor:pointer;
}
```

</style>

</head>

<body>

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

<div class="container">

<h2>My Cart</h2>

<asp:Label

```
ID="lblMessage"
runat="server"
ForeColor="Green"
Font-Bold="true">
</asp:Label>

<br /><br />

<asp:GridView
ID="gvCart"
runat="server"
AutoGenerateColumns="False"
CssClass="grid">

<Columns>

<asp:BoundField
DataField="ProductName"
HeaderText="Product" />

<asp:BoundField
DataField="Price"
HeaderText="Price" />

<asp:BoundField
DataField="Quantity"
HeaderText="Quantity" />

<asp:BoundField
DataField="Total"
HeaderText="Total" />

</Columns>

</asp:GridView>

<br />

<asp:Label
ID="lblTotal"
runat="server"
Font-Bold="true">
</asp:Label>

<br /><br />

<h3>Recommended Products</h3>

<asp:GridView
ID="gvRecommendation"
runat="server"
AutoGenerateColumns="False"
CssClass="grid">
```

```
<Columns>
```

```
<asp:BoundField  
DataField="ProductName"  
HeaderText="Product" />
```

```
<asp:BoundField  
DataField="Price"  
HeaderText="Price" />
```

```
<asp:BoundField  
DataField="CategoryName"  
HeaderText="Category" />
```

```
</Columns>
```

```
</asp:GridView>
```

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

Payment Method

```
<asp:DropDownList  
ID="ddlPayment"  
runat="server">
```

```
<asp:ListItem>Cash On Delivery</asp:ListItem>
```

```
<asp:ListItem>Card</asp:ListItem>
```

```
<asp:ListItem>JazzCash</asp:ListItem>
```

```
</asp:DropDownList>
```

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

```
<asp:Button  
ID="btnOrder"  
runat="server"  
Text="Place Order"  
CssClass="btn"  
OnClick="btnOrder_Click" />
```



```
<asp:Button  
ID="btnShop"  
runat="server"  
Text="Continue Shopping"  
CssClass="btn"  
PostBackUrl="~/Products.aspx" />
```



```

<asp:Button
ID="btnBack"
runat="server"
Text="Back To Dashboard"
CssClass="btn"
PostBackUrl="~/Dashboard.aspx" />

</div>

</form>

</body>
</html>

```

Cart.aspx.cs

```

using System;
using System.Collections.Generic;
using System.Configuration;
using System.Data;
using System.Data.SqlClient;
using System.IO;
using System.Net;
using Newtonsoft.Json;

namespace IADProject10
{
    public partial class Cart : System.Web.UI.Page
    {
        string conStr =
            ConfigurationManager.ConnectionStrings["IvoryHayaConnectionString"].ConnectionString;

        double total = 0;

        protected void Page_Load(object sender, EventArgs e)
        {
            if (Session["UserID"] == null)
            {
                Response.Redirect("Login.aspx");
                return;
            }

            if (!IsPostBack)
            {
                if (Request.QueryString["order"] == "success")
                {
                    lblMessage.Text = "Order Placed Successfully!";
                }

                LoadCart();
            }
        }
    }
}

```

```

        LoadRecommendations();
    }
}

void LoadCart()
{
    int userID = Convert.ToInt32(Session["UserID"]);

    SqlConnection con = new SqlConnection(conStr);

    string query =
        @"SELECT
            Products_t.ProductName,
            Products_t.Price,
            Cart_t.Quantity,
            (Products_t.Price * Cart_t.Quantity) AS Total
        FROM Cart_t
        INNER JOIN Products_t
        ON Cart_t.ProductID = Products_t.ProductID
        WHERE Cart_t.UserID=@UserID";

    SqlDataAdapter da = new SqlDataAdapter(query, con);

    da.SelectCommand.Parameters.AddWithValue("@UserID", userID);

    DataTable dt = new DataTable();

    da.Fill(dt);

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

    total = 0;

    foreach (DataRow row in dt.Rows)
    {
        total += Convert.ToDouble(row["Total"]);
    }

    lblTotal.Text = "Total Amount : Rs. " + total;

    if (dt.Rows.Count == 0)
    {
        gvCart.Visible = false;
        lblTotal.Text = "";
        lblMessage.Text = "Your cart is empty.";
    }
    else
    {
        gvCart.Visible = true;
    }
}

void LoadRecommendations()

```

```

{
    int userID = Convert.ToInt32(Session["UserID"]);

    SqlConnection con = new SqlConnection(conStr);

    string query =
        @"SELECT TOP 1 ProductID
        FROM Cart_t
        WHERE UserID=@UserID";

    SqlCommand cmd = new SqlCommand(query, con);

    cmd.Parameters.AddWithValue("@UserID", userID);

    con.Open();

    object result = cmd.ExecuteScalar();

    con.Close();

    if (result == null)
    {
        gvRecommendation.DataSource = null;
        gvRecommendation.DataBind();
        return;
    }

    int productID = Convert.ToInt32(result);

    List<int> ids = GetRecommendations(productID);

    if (ids == null || ids.Count == 0)
    {
        gvRecommendation.DataSource = null;
        gvRecommendation.DataBind();
        return;
    }

    string list = string.Join(",", ids);

    string sql =
        @"SELECT
        Products_t.ProductName,
        Products_t.Price,
        Categories_t.CategoryName
        FROM Products_t
        INNER JOIN Categories_t
        ON Products_t.CategoryID = Categories_t.CategoryID
        WHERE ProductID IN (" + list + ")";

    SqlDataAdapter da = new SqlDataAdapter(sql, con);

    DataTable dt = new DataTable();

```

```

da.Fill(dt);

gvRecommendation.DataSource = dt;
gvRecommendation.DataBind();
}

List<int> GetRecommendations(int productID)
{
    List<int> recs = new List<int>();

    try
    {
        string url =
            Request.Url.GetLeftPart(UriPartial.Authority) +
            "/Recommendation.aspx?pid=" + productID;

        HttpWebRequest req =
            (HttpWebRequest)WebRequest.Create(url);

        req.Method = "GET";

        req.Timeout = 5000;

        ServicePointManager.ServerCertificateValidationCallback =
            (sender, cert, chain, sslPolicyErrors) => true;

        using (HttpWebResponse res =
            (HttpWebResponse)req.GetResponse())

        using (StreamReader reader =
            new StreamReader(res.GetResponseStream()))
        {
            string json = reader.ReadToEnd();

            if (!string.IsNullOrEmpty(json))
            {
                recs =
                    JsonConvert.DeserializeObject<List<int>>(json);
            }
        }
    }
    catch
    {
        recs = new List<int>();
    }

    return recs;
}

protected void btnOrder_Click(object sender, EventArgs e)
{
    int userID = Convert.ToInt32(Session["UserID"]);

    SqlConnection con = new SqlConnection(conStr);

```

```

con.Open();

try
{
    total = 0;

    string cartQuery =
        @"SELECT
            Cart_t.ProductID,
            Cart_t.Quantity,
            Products_t.Price
        FROM Cart_t
        INNER JOIN Products_t
        ON Cart_t.ProductID = Products_t.ProductID
        WHERE Cart_t.UserID=@UserID";

    SqlDataAdapter da = new SqlDataAdapter(cartQuery, con);

    da.SelectCommand.Parameters.AddWithValue("@UserID", userID);

    DataTable dt = new DataTable();

    da.Fill(dt);

    if (dt.Rows.Count == 0)
    {
        lblMessage.Text = "Cart is Empty!";
        con.Close();
        return;
    }

    foreach (DataRow row in dt.Rows)
    {
        total +=
            Convert.ToDouble(row["Price"]) *
            Convert.ToDouble(row["Quantity"]);
    }

    string status;

    if (ddlPayment.SelectedValue == "Cash On Delivery")
    {
        status = "Pending";
    }
    else
    {
        status = "Completed";
    }

    string orderQuery =
        @"INSERT INTO Orders_t
        (UserID, TotalAmount, Status, PaymentMethod)
        VALUES
        (@UserID,@Total,@Status,@Payment);

```

```

        SELECT SCOPE_IDENTITY();";

SqlCommand orderCmd =
    new SqlCommand(orderQuery, con);

orderCmd.Parameters.AddWithValue("@UserID", userID);
orderCmd.Parameters.AddWithValue("@Total", total);
orderCmd.Parameters.AddWithValue("@Status", status);
orderCmd.Parameters.AddWithValue("@Payment",
    ddlPayment.SelectedValue);

int orderID =
    Convert.ToInt32(orderCmd.ExecuteScalar());

foreach (DataRow row in dt.Rows)
{
    string itemQuery =
        @"INSERT INTO OrderItems_t
        (OrderID, ProductID, Quantity, Price)
        VALUES
        (@OrderID,@ProductID,@Quantity,@Price)";

    SqlCommand itemCmd =
        new SqlCommand(itemQuery, con);

    itemCmd.Parameters.AddWithValue("@OrderID", orderID);
    itemCmd.Parameters.AddWithValue("@ProductID", row["ProductID"]);
    itemCmd.Parameters.AddWithValue("@Quantity", row["Quantity"]);
    itemCmd.Parameters.AddWithValue("@Price", row["Price"]);

    itemCmd.ExecuteNonQuery();

    SqlCommand stockCmd =
        new SqlCommand(
            @"UPDATE Products_t
            SET StockQuantity = StockQuantity - @Qty
            WHERE ProductID=@ProductID",
            con);

    stockCmd.Parameters.AddWithValue("@Qty", row["Quantity"]);
    stockCmd.Parameters.AddWithValue("@ProductID", row["ProductID"]);

    stockCmd.ExecuteNonQuery();
}

SqlCommand deleteCmd =
    new SqlCommand(
        "DELETE FROM Cart_t WHERE UserID=@UserID",
        con);

deleteCmd.Parameters.AddWithValue("@UserID", userID);

deleteCmd.ExecuteNonQuery();

```

```

        con.Close();

        Response.Redirect("Cart.aspx?order=success");
    }
    catch (Exception ex)
    {
        lblMessage.Text = ex.Message;

        con.Close();
    }
}
}
}

```

CustomerSegmentation.aspx

```

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="CustomerSegmentation.aspx.cs"
Inherits="IADProject10.CustomerSegmentation" %>

```

```

<!DOCTYPE html>

```

```

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">

```

```

<title>Customer Segmentation</title>

```

```

<style>

```

```

body{
    font-family:Arial;
    background:#f4f4f4;
}

```

```

.container{
    width:90%;
    margin:30px auto;
    background:white;
    padding:25px;
    border-radius:10px;
    box-shadow:0px 0px 10px #ccc;
}

```

```

h2{
    text-align:center;
}

```

```

h3{

```

```
        background:black;
        color:white;
        padding:8px;
    }

    .grid{
        width:100%;
        margin-bottom:20px;
    }

    .btn{
        background:black;
        color:white;
        padding:10px 15px;
        border:none;
        border-radius:5px;
        cursor:pointer;
    }

    .message{
        color:green;
        font-weight:bold;
    }

</style>

</head>

<body>

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

<div class="container">

<h2>Customer Segmentation</h2>

<h3>Premium Customers</h3>

<asp:GridView
ID="gvPremium"
runat="server"
CssClass="grid">
</asp:GridView>

<asp:Button
ID="btnPremium"
runat="server"
Text="Send Premium Offer"
CssClass="btn"
OnClick="btnPremium_Click"/>

<asp:Label
ID="lblPremium"
runat="server">
```

```
CssClass="message">
</asp:Label>
```

```
<hr />
```

```
<h3>Frequent Customers</h3>
```

```
<asp:GridView
ID="gvFrequent"
runat="server"
CssClass="grid">
</asp:GridView>
```

```
<asp:Button
ID="btnFrequent"
runat="server"
Text="Send Loyalty Offer"
CssClass="btn"
OnClick="btnFrequent_Click"/>
```

```
<asp:Label
ID="lblFrequent"
runat="server"
CssClass="message">
</asp:Label>
```

```
<hr />
```

```
<h3>Regular Customers</h3>
```

```
<asp:GridView
ID="gvRegular"
runat="server"
CssClass="grid">
</asp:GridView>
```

```
<asp:Button
ID="btnRegular"
runat="server"
Text="Send Discount"
CssClass="btn"
OnClick="btnRegular_Click"/>
```

```
<asp:Label
ID="lblRegular"
runat="server"
CssClass="message">
</asp:Label>
```

```
<hr />
```

```
<h3>Occasional Customers</h3>
```

```
<asp:GridView
```

```
ID="gvOccasional"
runat="server"
CssClass="grid">
</asp:GridView>
```

```
<asp:Button
ID="btnOccasional"
runat="server"
Text="Send Reminder"
CssClass="btn"
OnClick="btnOccasional_Click"/>
```

```
<asp:Label
ID="lblOccasional"
runat="server"
CssClass="message">
</asp:Label>
```

```
<hr />
```

```
<h3>Budget Customers</h3>
```

```
<asp:GridView
ID="gvBudget"
runat="server"
CssClass="grid">
</asp:GridView>
```

```
<asp:Button
ID="btnBudget"
runat="server"
Text="Send Budget Deals"
CssClass="btn"
OnClick="btnBudget_Click"/>
```

```
<asp:Label
ID="lblBudget"
runat="server"
CssClass="message">
</asp:Label>
```

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

```
<asp:Button
ID="btnBack"
runat="server"
Text="Back To Dashboard"
CssClass="btn"
OnClick="btnBack_Click"/>
```

```
</div>
```

```
</form>
```

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

CustomerSegmentation.aspx.cs

```
using System;
using System.Configuration;
using System.Data;
using System.Data.SqlClient;
using System.Web.UI.WebControls;

namespace IADProject10
{
    public partial class CustomerSegmentation : System.Web.UI.Page
    {
        string conStr =
            ConfigurationManager.ConnectionStrings["IvoryHayaConnectionString"].ConnectionString;

        protected void Page_Load(object sender, EventArgs e)
        {
            if (!IsPostBack)
            {
                LoadSegment(gvPremium,
                    @"SELECT FullName,Email
                    FROM Users_t
                    WHERE UserID IN
                    (
                        SELECT UserID
                        FROM Orders_t
                        GROUP BY UserID
                        HAVING SUM(TotalAmount)>=30000
                    )");

                LoadSegment(gvFrequent,
                    @"SELECT FullName,Email
                    FROM Users_t
                    WHERE UserID IN
                    (
                        SELECT UserID
                        FROM Orders_t
                        GROUP BY UserID
                        HAVING COUNT(OrderID)>=3
                    )");

                LoadSegment(gvRegular,
                    @"SELECT FullName,Email
                    FROM Users_t
                    WHERE UserID IN
                    (
                        SELECT UserID
                        FROM Orders_t
```

```

        GROUP BY UserID
        HAVING COUNT(OrderID)=2
    )");

    LoadSegment(gvOccasional,
        @"SELECT FullName,Email
        FROM Users_t
        WHERE UserID IN
        (
            SELECT UserID
            FROM Orders_t
            GROUP BY UserID
            HAVING COUNT(OrderID)=1
        )");

    LoadSegment(gvBudget,
        @"SELECT FullName,Email
        FROM Users_t
        WHERE UserID IN
        (
            SELECT UserID
            FROM Orders_t
            GROUP BY UserID
            HAVING AVG(TotalAmount)<10000
        )");
    }
}

void LoadSegment(GridView gv, string query)
{
    SqlConnection con = new SqlConnection(conStr);

    SqlDataAdapter da = new SqlDataAdapter(query, con);

    DataTable dt = new DataTable();

    da.Fill(dt);

    gv.DataSource = dt;
    gv.DataBind();
}

void ShowMessage(GridView gv, Label lbl, string message)
{
    if (gv.Rows.Count > 0)
        lbl.Text = message;
    else
        lbl.Text = "No customers found.";
}

protected void btnPremium_Click(object sender, EventArgs e)
{
    ShowMessage(gvPremium, lblPremium,
        "Premium Offers Sent Successfully");
}

```

```

    }

    protected void btnFrequent_Click(object sender, EventArgs e)
    {
        ShowMessage(gvFrequent, lblFrequent,
            "Loyalty Offers Sent Successfully");
    }

    protected void btnRegular_Click(object sender, EventArgs e)
    {
        ShowMessage(gvRegular, lblRegular,
            "Discount Offers Sent Successfully");
    }

    protected void btnOccasional_Click(object sender, EventArgs e)
    {
        ShowMessage(gvOccasional, lblOccasional,
            "Reminder Offers Sent Successfully");
    }

    protected void btnBudget_Click(object sender, EventArgs e)
    {
        ShowMessage(gvBudget, lblBudget,
            "Budget Deals Sent Successfully");
    }

    protected void btnBack_Click(object sender, EventArgs e)
    {
        Response.Redirect("Dashboard.aspx");
    }
}

```

Dashboard.aspx

```

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Dashboard.aspx.cs"
Inherits="IADProject10.Dashboard" %>

```

```

<!DOCTYPE html>

```

```

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

```

```

<head runat="server">

```

```

    <title>Dashboard</title>

```

```

    <style>

```

```

        body {
            font-family: Arial;
            background-color: #f4f4f4;
            margin: 0;
            padding: 0;
        }
    
```

```
.container {  
  width: 80%;  
  margin: 40px auto;  
  background: white;  
  padding: 30px;  
  border-radius: 10px;  
  box-shadow: 0px 0px 10px #ccc;  
}
```

```
h2 {  
  text-align: center;  
  color: #333;  
}
```

```
h3 {  
  color: #222;  
}
```

```
.welcome {  
  font-size: 18px;  
  font-weight: bold;  
}
```

```
.panel-box {  
  margin-top: 20px;  
  border: 1px solid #ddd;  
  padding: 20px;  
  border-radius: 8px;  
  background: #fafafa;  
}
```

```
.link-btn {  
  display: inline-block;  
  margin-top: 10px;  
  text-decoration: none;  
  background: black;  
  color: white;  
  padding: 10px 15px;  
  border-radius: 5px;  
}
```

```
.logout-btn {  
  display: inline-block;  
  margin-top: 30px;  
  text-decoration: none;  
  background: #222;  
  color: white;  
  padding: 10px 15px;  
  border-radius: 5px;  
}
```

</style>

```
</head>

<body>

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

<div class="container">

<h2>Dashboard</h2>

<asp:Label
    ID="lblWelcome"
    runat="server"
    CssClass="welcome">
</asp:Label>

<br /><br />

<asp:Panel
    ID="pnlAdmin"
    runat="server"
    Visible="false"
    CssClass="panel-box">

    <h3>Admin Controls</h3>

    <a href="ManageUsers.aspx" class="link-btn">Manage Users</a>
    <br />

    <a href="ManageProducts.aspx" class="link-btn">Manage Products</a>
    <br />

    <a href="ManageOrders.aspx" class="link-btn">Manage Orders</a>
    <br />

    <a href="CustomerSegmentation.aspx" class="link-btn">Customer Segmentation</a>
    <br />

    <a href="DemandForecast.aspx" class="link-btn">Demand Forecast</a>

</asp:Panel>

<asp:Panel
    ID="pnlSales"
    runat="server"
    Visible="false"
    CssClass="panel-box">

    <h3>Sales Person Controls</h3>

    <a href="Inventory.aspx" class="link-btn">Manage Inventory</a>
    <br />

    <a href="DemandForecast.aspx" class="link-btn">Demand Forecast</a>
```

```

</asp:Panel>

<asp:Panel
    ID="pnlCustomer"
    runat="server"
    Visible="false"
    CssClass="panel-box">

    <h3>Customer Controls</h3>

    <a href="Products.aspx" class="link-btn">Browse Products</a>
    <br />

    <a href="Orders.aspx" class="link-btn">My Orders</a>
    <br />

    <a href="Cart.aspx" class="link-btn">My Cart</a>

</asp:Panel>

<br />

<a href="Login.aspx" class="logout-btn">
    Logout
</a>

</div>

</form>

</body>
</html>

```

Dashboard.aspx.cs

```

using System;

namespace IADProject10
{
    public partial class Dashboard : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            if (Session["Role"] == null)
            {
                Response.Redirect("Login.aspx");
                return;
            }

            lblWelcome.Text = "Welcome " + Session["FullName"].ToString();

```

```

        string role = Session["Role"].ToString();

        if (role == "Admin")
        {
            pnlAdmin.Visible = true;
        }
        else if (role == "SalesPerson")
        {
            pnlSales.Visible = true;
        }
        else if (role == "Customer")
        {
            pnlCustomer.Visible = true;
        }
    }
}
}

```

DemandForecast.aspx

```

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="DemandForecast.aspx.cs"
Inherits="IADProject10.DemandForecast" %>

```

```

<!DOCTYPE html>

```

```

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">

```

```

    <title>Demand Forecast</title>

```

```

    <style>

```

```

        body{
            font-family:Arial;
            background:#f4f4f4;
        }

        .container{
            width:85%;
            margin:40px auto;
            background:white;
            padding:25px;
            border-radius:10px;
            box-shadow:0px 0px 10px #ccc;
        }

        h2{
            text-align:center;
        }

        .grid{
            width:100%;

```

```

        border-collapse:collapse;
    }

    .grid th{
        background:black;
        color:white;
        padding:10px;
    }

    .grid td{
        border:1px solid #ccc;
        padding:10px;
        text-align:center;
    }

    .btn{
        background:black;
        color:white;
        padding:10px 15px;
        border:none;
        border-radius:5px;
        cursor:pointer;
    }
</style>

</head>

<body>

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

<div class="container">

<h2>Demand Forecast</h2>

<asp:GridView
ID="gvForecast"
runat="server"
AutoGenerateColumns="False"
CssClass="grid">

<Columns>

<asp:BoundField
DataField="Month"
HeaderText="Month" />

<asp:BoundField
DataField="TotalOrders"
HeaderText="Orders" />

<asp:BoundField
DataField="Revenue"

```

```

HeaderText="Revenue (Rs.)" />

</Columns>

</asp:GridView>

<br />

<asp:Button
ID="btnBack"
runat="server"
Text="Back To Dashboard"
CssClass="btn"
PostBackUrl="~/Dashboard.aspx" />

</div>

</form>

</body>
</html>

```

DemandForecast.aspx.cs

```

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

namespace IADProject10
{
    public partial class DemandForecast : System.Web.UI.Page
    {
        string conStr =
            ConfigurationManager.ConnectionStrings["IvoryHayaConnectionString"].ConnectionString;

        protected void Page_Load(object sender, EventArgs e)
        {
            if (!IsPostBack)
            {
                LoadForecast();
            }
        }

        void LoadForecast()
        {
            SqlConnection con =
                new SqlConnection(conStr);

            string query =
                @"SELECT
                DATENAME(MONTH, OrderDate) AS Month,

```

```

        COUNT(OrderID) AS TotalOrders,
        SUM(TotalAmount) AS Revenue
    FROM Orders_t
    GROUP BY
        MONTH(OrderDate),
        DATENAME(MONTH, OrderDate)
    ORDER BY
        MONTH(OrderDate)";

    SqlDataAdapter da =
        new SqlDataAdapter(query, con);

    DataTable dt =
        new DataTable();

    da.Fill(dt);

    gvForecast.DataSource = dt;

    gvForecast.DataBind();
}
}
}

```

Inventory.aspx

```

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Inventory.aspx.cs"
Inherits="IADProject10.Inventory" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">

    <title>Inventory Management</title>

    <style>

        body{
            font-family:Arial;
            background:#f4f4f4;
            margin:0;
            padding:0;
        }

        .container{
            width:90%;
            margin:40px auto;
            background:white;
            padding:25px;
            border-radius:10px;

```

```

        box-shadow:0px 0px 10px #ccc;
    }

    h2{
        text-align:center;
    }

    .grid{
        width:100%;
        border-collapse:collapse;
    }

    .grid th{
        background:black;
        color:white;
        padding:10px;
    }

    .grid td{
        border:1px solid #ccc;
        padding:10px;
        text-align:center;
    }

    .btn{
        background:black;
        color:white;
        border:none;
        padding:10px 15px;
        border-radius:5px;
        cursor:pointer;
    }
}

</style>

</head>

<body>

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

<div class="container">

<h2>Inventory Management</h2>

<asp:GridView
ID="gvInventory"
runat="server"
AutoGenerateColumns="False"
AutoGenerateEditButton="True"
DataKeyNames="ProductID"
CssClass="grid"
OnRowEditing="gvInventory_RowEditing"
OnRowCancelingEdit="gvInventory_RowCancelingEdit"

```

```
OnRowUpdating="gvInventory_RowUpdating">
```

```
<Columns>
```

```
<asp:BoundField  
DataField="ProductID"  
HeaderText="ID"  
ReadOnly="True" />
```

```
<asp:BoundField  
DataField="ProductName"  
HeaderText="Product Name"  
ReadOnly="True" />
```

```
<asp:BoundField  
DataField="StockQuantity"  
HeaderText="Stock Quantity" />
```

```
</Columns>
```

```
</asp:GridView>
```

```
<br />
```

```
<asp:Button  
ID="btnBack"  
runat="server"  
Text="Back To Dashboard"  
CssClass="btn"  
PostBackUrl="~/Dashboard.aspx" />
```

```
</div>
```

```
</form>
```

```
</body>
```

```
</html>
```

Inventory.aspx.cs

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

```
namespace IADProject10
```

```
{  
    public partial class Inventory : System.Web.UI.Page  
    {
```

```

string conStr =
    ConfigurationManager.ConnectionStrings["IvoryHayaConnectionString"].ConnectionString;

protected void Page_Load(object sender, EventArgs e)
{
    if (!IsPostBack)
    {
        LoadInventory();
    }
}

void LoadInventory()
{
    SqlConnection con = new SqlConnection(conStr);

    SqlDataAdapter da = new SqlDataAdapter(
        "SELECT ProductID, ProductName, StockQuantity FROM Products_t",
        con);

    DataTable dt = new DataTable();

    da.Fill(dt);

    gvInventory.DataSource = dt;
    gvInventory.DataBind();
}

protected void gvInventory_RowEditing(object sender,
    System.Web.UI.WebControls.GridViewEditEventArgs e)
{
    gvInventory.EditIndex = e.NewEditIndex;

    LoadInventory();
}

protected void gvInventory_RowCancelingEdit(object sender,
    System.Web.UI.WebControls.GridViewCancelEditEventArgs e)
{
    gvInventory.EditIndex = -1;

    LoadInventory();
}

protected void gvInventory_RowUpdating(object sender,
    System.Web.UI.WebControls.GridViewUpdateEventArgs e)
{
    int id = Convert.ToInt32(
        gvInventory.DataKeys[e.RowIndex].Value);

    string stock =
        ((System.Web.UI.WebControls.TextBox)
        gvInventory.Rows[e.RowIndex]
        .Cells[2]
        .Controls[0]).Text;

```

```

SqlConnection con = new SqlConnection(conStr);

SqlCommand cmd = new SqlCommand(
    "UPDATE Products_t SET StockQuantity=@Stock WHERE ProductID=@ID",
    con);

cmd.Parameters.AddWithValue("@Stock", stock);
cmd.Parameters.AddWithValue("@ID", id);

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

gvInventory.EditIndex = -1;

LoadInventory();
    }
}
}

```

ManageOrders.aspx

```

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="ManageOrders.aspx.cs"
Inherits="IADProject10.ManageOrders" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">

    <title>Manage Orders</title>

    <style>

        body{
            font-family:Arial;
            background:#f4f4f4;
            margin:0;
            padding:0;
        }

        .container{
            width:90%;
            margin:40px auto;
            background:white;
            padding:25px;
            border-radius:10px;
            box-shadow:0px 0px 10px #ccc;
        }
    
```

```

h2{
    text-align:center;
}

.grid{
    width:100%;
    border-collapse:collapse;
}

.grid th{
    background:black;
    color:white;
    padding:10px;
}

.grid td{
    border:1px solid #ccc;
    padding:10px;
    text-align:center;
}

.btn{
    background:black;
    color:white;
    padding:10px 15px;
    border:none;
    border-radius:5px;
    cursor:pointer;
}

</style>

</head>

<body>

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

<div class="container">

<h2>Manage Orders</h2>

<asp:GridView
ID="gvOrders"
runat="server"
AutoGenerateColumns="False"
CssClass="grid">

<Columns>

<asp:BoundField
DataField="OrderID"
HeaderText="Order ID" />

```

```

<asp:BoundField
DataField="FullName"
HeaderText="Customer" />

<asp:BoundField
DataField="OrderDate"
HeaderText="Order Date" />

<asp:BoundField
DataField="TotalAmount"
HeaderText="Total Amount" />

<asp:BoundField
DataField="Status"
HeaderText="Status" />

<asp:BoundField
DataField="PaymentMethod"
HeaderText="Payment" />

</Columns>

</asp:GridView>

<br />

<asp:Button
ID="btnBack"
runat="server"
Text="Back To Dashboard"
CssClass="btn"
PostBackUrl="~/Dashboard.aspx" />

</div>

</form>

</body>
</html>

```

ManageOrders.aspx.cs

```

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

namespace IADProject10
{
    public partial class ManageOrders : System.Web.UI.Page
    {

```

```

string conStr =
    ConfigurationManager.ConnectionStrings["IvoryHayaConnectionString"].ConnectionString;

protected void Page_Load(object sender, EventArgs e)
{
    if (!IsPostBack)
    {
        LoadOrders();
    }
}

private void LoadOrders()
{
    SqlConnection con = new SqlConnection(conStr);

    string query =
        @"SELECT
            Orders_t.OrderID,
            Users_t.FullName,
            Orders_t.OrderDate,
            Orders_t.TotalAmount,
            Orders_t.Status,
            Orders_t.PaymentMethod
        FROM Orders_t
        INNER JOIN Users_t
        ON Orders_t.UserID = Users_t.UserID
        ORDER BY Orders_t.OrderID DESC";

    SqlDataAdapter da = new SqlDataAdapter(query, con);

    DataTable dt = new DataTable();

    da.Fill(dt);

    gvOrders.DataSource = dt;
    gvOrders.DataBind();
}
}
}

```

ManageProducts.aspx

```

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="ManageProducts.aspx.cs"
Inherits="IADProject10.ManageProducts" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">

```

```
<title>Manage Products</title>
```

```
<style>
```

```
body{
  font-family:Arial;
  background:#f4f4f4;
  margin:0;
  padding:0;
}

.container{
  width:90%;
  margin:40px auto;
  background:white;
  padding:25px;
  border-radius:10px;
  box-shadow:0px 0px 10px #ccc;
}

h2{
  text-align:center;
}

.textbox{
  padding:8px;
  width:180px;
}

.btn{
  background:black;
  color:white;
  padding:8px 15px;
  border:none;
  border-radius:5px;
  cursor:pointer;
}

.grid{
  margin-top:20px;
  width:100%;
}
```

```
</style>
```

```
</head>
```

```
<body>
```

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

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

<h2>Manage Products</h2>

Product Name

```
<asp:TextBox
ID="txtName"
runat="server"
CssClass="textbox">
</asp:TextBox>
```

Price

```
<asp:TextBox
ID="txtPrice"
runat="server"
CssClass="textbox">
</asp:TextBox>
```

Stock

```
<asp:TextBox
ID="txtStock"
runat="server"
CssClass="textbox">
</asp:TextBox>
```

```
<asp:Button
ID="btnAdd"
runat="server"
Text="Add Product"
CssClass="btn"
OnClick="btnAdd_Click" />
```



```
<asp:GridView
ID="gvProducts"
runat="server"
AutoGenerateColumns="False"
DataKeyNames="ProductID"
AutoGenerateDeleteButton="True"
OnRowDeleting="gvProducts_RowDeleting"
CssClass="grid">
```

<Columns>

```
<asp:BoundField DataField="ProductID" HeaderText="ID" />
```

```
<asp:BoundField DataField="ProductName" HeaderText="Product Name" />
```

```
<asp:BoundField DataField="Price" HeaderText="Price" />
```

```
<asp:BoundField DataField="StockQuantity" HeaderText="Stock" />
```

```

<asp:CheckBoxField DataField="IsActive" HeaderText="Active" />

</Columns>

</asp:GridView>

<br />

<asp:Button
ID="btnBack"
runat="server"
Text="Back To Dashboard"
CssClass="btn"
PostBackUrl="~/Dashboard.aspx" />

</div>

</form>

</body>
</html>

```

ManageProducts.aspx.cs

```

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

namespace IADProject10
{
    public partial class ManageProducts : System.Web.UI.Page
    {
        string conStr =
            ConfigurationManager.ConnectionStrings["IvoryHayaConnectionString"].ConnectionString;

        protected void Page_Load(object sender, EventArgs e)
        {
            if (!IsPostBack)
            {
                LoadProducts();
            }
        }

        void LoadProducts()
        {
            SqlConnection con = new SqlConnection(conStr);

            SqlDataAdapter da = new SqlDataAdapter(
                "SELECT ProductID, ProductName, Price, StockQuantity, IsActive FROM Products_t",
                con);

```

```

        DataTable dt = new DataTable();

        da.Fill(dt);

        gvProducts.DataSource = dt;
        gvProducts.DataBind();
    }

    protected void btnAdd_Click(object sender, EventArgs e)
    {
        SqlConnection con = new SqlConnection(conStr);

        string query =
            @"INSERT INTO Products_t
            (CategoryID, ProductName, Price, StockQuantity)
            VALUES
            (1,@Name,@Price,@Stock)";

        SqlCommand cmd = new SqlCommand(query, con);

        cmd.Parameters.AddWithValue("@Name", txtName.Text);
        cmd.Parameters.AddWithValue("@Price", txtPrice.Text);
        cmd.Parameters.AddWithValue("@Stock", txtStock.Text);

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

        LoadProducts();

        txtName.Text = "";
        txtPrice.Text = "";
        txtStock.Text = "";
    }

    protected void gvProducts_RowDeleting(object sender,
        System.Web.UI.WebControls.GridViewDeleteEventArgs e)
    {
        int id =
            Convert.ToInt32(gvProducts.DataKeys[e.RowIndex].Value);

        SqlConnection con = new SqlConnection(conStr);

        SqlCommand cmd = new SqlCommand(
            "UPDATE Products_t SET IsActive=0 WHERE ProductID=@ID",
            con);

        cmd.Parameters.AddWithValue("@ID", id);

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

```

```
        LoadProducts();
    }
}
```

ManageUsers.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="ManageUsers.aspx.cs"
Inherits="IADProject10.ManageUsers" %>
```

```
<!DOCTYPE html>
```

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

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

```
<title>Manage Users</title>
```

```
<style>
```

```
    body {
        font-family: Arial;
        margin: 30px;
        background-color: #f4f4f4;
    }
```

```
    h2 {
        text-align: center;
    }
```

```
    .grid {
        margin-top: 20px;
    }
```

```
</style>
```

```
</head>
```

```
<body>
```

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

```
<h2>Manage Users</h2>
```

```
<asp:GridView
    ID="gvUsers"
    runat="server"
    AutoGenerateColumns="False"
```

```

DataKeyNames="UserID"
CssClass="grid"
AutoGenerateDeleteButton="True"
OnRowDeleting="gvUsers_RowDeleting">

<Columns>

    <asp:BoundField DataField="UserID" HeaderText="ID" />

    <asp:BoundField DataField="FullName" HeaderText="Name" />

    <asp:BoundField DataField="Email" HeaderText="Email" />

    <asp:BoundField DataField="Phone" HeaderText="Phone" />

    <asp:BoundField DataField="Address" HeaderText="Address" />

    <asp:CheckBoxField DataField="IsActive" HeaderText="Active" />

</Columns>

</asp:GridView>

<br />

<asp:Button
    ID="btnBack"
    runat="server"
    Text="Back to Dashboard"
    PostBackUrl="~/Dashboard.aspx" />

</form>

</body>
</html>

```

ManageUsers.aspx.cs

```

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

namespace IADProject10
{
    public partial class ManageUsers : System.Web.UI.Page
    {
        string conStr =
            ConfigurationManager.ConnectionStrings["IvoryHayaConnectionString"].ConnectionString;
    }
}

```

```

protected void Page_Load(object sender, EventArgs e)
{
    if (!IsPostBack)
    {
        LoadUsers();
    }
}

private void LoadUsers()
{
    SqlConnection con = new SqlConnection(conStr);

    SqlDataAdapter da = new SqlDataAdapter(
        "SELECT UserID, FullName, Email, Phone, Address, IsActive FROM Users_t",
        con);

    DataTable dt = new DataTable();

    da.Fill(dt);

    gvUsers.DataSource = dt;
    gvUsers.DataBind();
}

protected void gvUsers_RowDeleting(object sender,
    System.Web.UI.WebControls.GridViewDeleteEventArgs e)
{
    int userId =
        Convert.ToInt32(gvUsers.DataKeys[e.RowIndex].Value);

    SqlConnection con = new SqlConnection(conStr);

    SqlCommand cmd = new SqlCommand(
        "UPDATE Users_t SET IsActive = 0 WHERE UserID=@UserID",
        con);

    cmd.Parameters.AddWithValue("@UserID", userId);

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

    LoadUsers();
}
}
}

```

Orders.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Orders.aspx.cs" Inherits="IADProject10.Orders"
%>
```

```
<!DOCTYPE html>
```

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

```
<title>My Orders</title>
```

```
<style>
```

```
body{
    font-family:Arial;
    background:#f4f4f4;
    margin:0;
    padding:0;
}

.container{
    width:90%;
    margin:40px auto;
    background:white;
    padding:25px;
    border-radius:10px;
    box-shadow:0px 0px 10px #ccc;
}

h2{
    text-align:center;
}

.grid{
    width:100%;
    border-collapse:collapse;
}

.grid th{
    background:black;
    color:white;
    padding:10px;
}

.grid td{
    border:1px solid #ccc;
    padding:10px;
    text-align:center;
}

.btn{
    background:black;
    color:white;
    padding:10px 15px;
    border:none;
}
```

```
        border-radius:5px;
        cursor:pointer;
    }

</style>

</head>

<body>

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

<div class="container">

<h2>My Orders</h2>

<asp:GridView
ID="gvOrders"
runat="server"
AutoGenerateColumns="False"
CssClass="grid">

<Columns>

<asp:BoundField
DataField="OrderID"
HeaderText="Order ID" />

<asp:BoundField
DataField="OrderDate"
HeaderText="Order Date" />

<asp:BoundField
DataField="ProductName"
HeaderText="Product" />

<asp:BoundField
DataField="Quantity"
HeaderText="Quantity" />

<asp:BoundField
DataField="Total"
HeaderText="Total" />

<asp:BoundField
DataField="Status"
HeaderText="Status" />

</Columns>

</asp:GridView>

<br />
```

```

<asp:Button
ID="btnBack"
runat="server"
Text="Back To Dashboard"
CssClass="btn"
PostBackUrl="~/Dashboard.aspx" />

</div>

</form>

</body>

</html>

```

Orders.aspx.cs

```

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

namespace IADProject10
{
    public partial class Orders : System.Web.UI.Page
    {
        string conStr =
            ConfigurationManager.ConnectionStrings["IvoryHayaConnectionString"].ConnectionString;

        protected void Page_Load(object sender, EventArgs e)
        {
            if (Session["UserID"] == null)
            {
                Response.Redirect("Login.aspx");
                return;
            }

            if (!IsPostBack)
            {
                LoadOrders();
            }
        }

        void LoadOrders()
        {
            int userID =
                Convert.ToInt32(Session["UserID"]);

            SqlConnection con =

```

```

        new SqlConnection(conStr);

string query =
    @"SELECT
        Orders_t.OrderID,
        Orders_t.OrderDate,
        Products_t.ProductName,
        OrderItems_t.Quantity,
        (OrderItems_t.Price * OrderItems_t.Quantity) AS Total,
        Orders_t.Status
    FROM Orders_t
    INNER JOIN OrderItems_t
    ON Orders_t.OrderID = OrderItems_t.OrderID
    INNER JOIN Products_t
    ON OrderItems_t.ProductID = Products_t.ProductID
    WHERE Orders_t.UserID = @UserID
    ORDER BY Orders_t.OrderID DESC";

SqlDataAdapter da =
    new SqlDataAdapter(query, con);

da.SelectCommand.Parameters.AddWithValue(
    "@UserID",
    userID);

DataTable dt =
    new DataTable();

da.Fill(dt);

gvOrders.DataSource = dt;
gvOrders.DataBind();
    }
}
}

```

Products.aspx

```

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Products.aspx.cs"
Inherits="IADProject10.Products" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">

    <title>Available Products</title>

```

<style>

```
body{
  font-family:Arial;
  background:#f4f4f4;
  margin:0;
  padding:0;
}

.container{
  width:90%;
  margin:40px auto;
  background:white;
  padding:25px;
  border-radius:10px;
  box-shadow:0px 0px 10px #ccc;
}

h2{
  text-align:center;
}

.textbox{
  padding:8px;
  width:250px;
}

.btn{
  background:black;
  color:white;
  border:none;
  padding:8px 15px;
  border-radius:5px;
  cursor:pointer;
}

.grid{
  width:100%;
  margin-top:20px;
  border-collapse:collapse;
}

.grid th{
  background:black;
  color:white;
  padding:10px;
}

.grid td{
  border:1px solid #ccc;
  padding:10px;
  text-align:center;
}
```

```
.link{
    display:inline-block;
    margin-top:20px;
    background:black;
    color:white;
    text-decoration:none;
    padding:10px 15px;
    border-radius:5px;
}
```

```
</style>
```

```
</head>
```

```
<body>
```

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

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

```
<h2>Available Abayas</h2>
```

Search Product

```
<asp:TextBox
ID="txtSearch"
runat="server"
CssClass="textbox">
</asp:TextBox>
```

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

```
<asp:GridView
ID="gvProducts"
runat="server"
AutoGenerateColumns="False"
AutoGenerateSelectButton="True"
CssClass="grid"
OnSelectedIndexChanged="gvProducts_SelectedIndexChanged">
```

```
<Columns>
```

```
<asp:BoundField
DataField="ProductID"
HeaderText="ID" />
```

```
<asp:BoundField
DataField="ProductName"
HeaderText="Product Name" />
```

```

<asp:BoundField
DataField="Price"
HeaderText="Price" />

<asp:BoundField
DataField="StockQuantity"
HeaderText="Stock" />

</Columns>

</asp:GridView>

<br />

<a href="Cart.aspx" class="link">
Go To Cart
</a>

 

<a href="Dashboard.aspx" class="link">
Back To Dashboard
</a>

</div>

</form>

</body>
</html>

```

Products.aspx.cs

```

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

namespace IADProject10
{
    public partial class Products : System.Web.UI.Page
    {
        string conStr =
            ConfigurationManager.ConnectionStrings["IvoryHayaConnectionString"].ConnectionString;

        protected void Page_Load(object sender, EventArgs e)
        {
            if (Session["UserID"] == null)

```

```

    {
        Response.Redirect("Login.aspx");
        return;
    }

    if (!IsPostBack)
    {
        LoadProducts();
    }
}

void LoadProducts(string search = "")
{
    SqlConnection con = new SqlConnection(conStr);

    string query =
        @"SELECT
            ProductID,
            ProductName,
            Price,
            StockQuantity
        FROM Products_t
        WHERE IsActive = 1
        AND ProductName LIKE @Search";

    SqlDataAdapter da = new SqlDataAdapter(query, con);

    da.SelectCommand.Parameters.AddWithValue(
        "@Search",
        "%" + search + "%");

    DataTable dt = new DataTable();

    da.Fill(dt);

    gvProducts.DataSource = dt;
    gvProducts.DataBind();
}

protected void btnSearch_Click(object sender, EventArgs e)
{
    LoadProducts(txtSearch.Text);
}

protected void gvProducts_SelectedIndexChanged(object sender, EventArgs e)
{
    int productID =
        Convert.ToInt32(gvProducts.SelectedRow.Cells[1].Text);

    int userID =
        Convert.ToInt32(Session["UserID"]);

    SqlConnection con = new SqlConnection(conStr);

```

```

string query =
    @"INSERT INTO Cart_t
    (UserID, ProductID, Quantity)
    VALUES
    (@UserID,@ProductID,1)";

SqlCommand cmd = new SqlCommand(query, con);

cmd.Parameters.AddWithValue("@UserID", userID);
cmd.Parameters.AddWithValue("@ProductID", productID);

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

Response.Write("<script>alert('Product Added To Cart');</script>");
    }
}
}

```

Recommendation.aspx

```

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Recommendation.aspx.cs"
Inherits="IADProject10.Recommendation" %>

```

Recommendation.aspx.cs

```

using System;
using System.Collections.Generic;
using System.Configuration;
using System.Data.SqlClient;
using Newtonsoft.Json;

namespace IADProject10
{
    public partial class Recommendation : System.Web.UI.Page
    {
        string conStr =
            ConfigurationManager.ConnectionStrings["IvoryHayaConnectionString"].ConnectionString;

        protected void Page_Load(object sender, EventArgs e)
        {
            Response.Clear();
            Response.ContentType = "application/json";
        }
    }
}

```

```

int productID = 0;

if (!int.TryParse(Request.QueryString["pid"], out productID))
{
    Response.Write("");
    Response.End();
    return;
}

List<int> recommendations = GetRecommendations(productID);

Response.Write(JsonConvert.SerializeObject(recommendations));

Response.End();
}

List<int> GetRecommendations(int productID)
{
    List<int> list = new List<int>();

    SqlConnection con = new SqlConnection(conStr);

    string query =
        @"SELECT TOP 3 ProductID
        FROM Products_t
        WHERE CategoryID =
        (
            SELECT CategoryID
            FROM Products_t
            WHERE ProductID=@ProductID
        )
        AND ProductID<>@ProductID
        AND IsActive=1";

    SqlCommand cmd = new SqlCommand(query, con);

    cmd.Parameters.AddWithValue("@ProductID", productID);

    con.Open();

    SqlDataReader dr = cmd.ExecuteReader();

    while (dr.Read())
    {
        list.Add(Convert.ToInt32(dr["ProductID"]));
    }

    con.Close();

    return list;
}
}
}

```

Register.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Register.aspx.cs"
Inherits="IADProject10.Register" %>
```

```
<!DOCTYPE html>
```

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

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

```
<title>Customer Registration</title>
```

```
<style>
```

```
body {
    font-family: Arial;
    background-color: #f4f4f4;
    margin: 0;
    padding: 0;
}
```

```
.container {
    width: 40%;
    margin: 50px auto;
    background: white;
    padding: 30px;
    border-radius: 10px;
    box-shadow: 0px 0px 10px #ccc;
}
```

```
h2 {
    text-align: center;
    color: #333;
}
```

```
.textbox {
    width: 95%;
    padding: 10px;
    margin-top: 5px;
    margin-bottom: 15px;
    border: 1px solid #ccc;
    border-radius: 5px;
}
```

```
.btn {
    background: black;
    color: white;
    border: none;
    padding: 10px 18px;
    border-radius: 5px;
    cursor: pointer;
}
```

```
.btn:hover {  
    background: #444;  
}  
  
.message {  
    color: green;  
    font-weight: bold;  
}  
  
.login-link {  
    text-decoration: none;  
    color: black;  
    font-weight: bold;  
}
```

</style>

</head>

<body>

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

<div class="container">

<h2>Customer Registration</h2>

Name

```
<asp:TextBox  
    ID="txtName"  
    runat="server"  
    CssClass="textbox">  
</asp:TextBox>
```

Email

```
<asp:TextBox  
    ID="txtEmail"  
    runat="server"  
    CssClass="textbox">  
</asp:TextBox>
```

Password

```
<asp:TextBox  
    ID="txtPassword"  
    runat="server"  
    TextMode="Password"  
    CssClass="textbox">  
</asp:TextBox>
```

Phone

```
<asp:TextBox
    ID="txtPhone"
    runat="server"
    CssClass="textbox">
</asp:TextBox>
```

Address

```
<asp:TextBox
    ID="txtAddress"
    runat="server"
    CssClass="textbox">
</asp:TextBox>
```

```
<asp:Button
    ID="btnRegister"
    runat="server"
    Text="Register"
    CssClass="btn"
    OnClick="btnRegister_Click" />
```

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

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

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

```
<a href="Login.aspx" class="login-link">
    Back To Login
</a>
```

```
</div>
```

```
</form>
```

```
</body>
```

```
</html>
```

Register.aspx.cs

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

namespace IADProject10
```

```

{
    public partial class Register : System.Web.UI.Page
    {
        protected void btnRegister_Click(object sender, EventArgs e)
        {
            string connectionString =
                ConfigurationManager.ConnectionStrings["IvoryHayaConnectionString"].ConnectionString;

            SqlConnection con = new SqlConnection(connectionString);

            string query =
                @"INSERT INTO Users_t
                (FullName, Email, Password, Phone, Address, RoleID)
                VALUES
                (@Name, @Email, @Password, @Phone, @Address, 3)";

            SqlCommand cmd = new SqlCommand(query, con);

            cmd.Parameters.AddWithValue("@Name", txtName.Text);
            cmd.Parameters.AddWithValue("@Email", txtEmail.Text);
            cmd.Parameters.AddWithValue("@Password", txtPassword.Text);
            cmd.Parameters.AddWithValue("@Phone", txtPhone.Text);
            cmd.Parameters.AddWithValue("@Address", txtAddress.Text);

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

            lblMessage.Text = "Registration Successful!";
        }
    }
}

```

Web.config

```

<?xml version="1.0" encoding="utf-8"?>
<!--
    For more information on how to configure your ASP.NET application, please visit
    https://go.microsoft.com/fwlink/?LinkId=169433
-->
<configuration>
    <connectionStrings>
        <add name="IvoryHayaConnectionString"
            connectionString="Data Source=IvoryHaya.mssql.somee.com;
            Initial Catalog=IvoryHaya;
            User ID=takreematif12_SQLLogin_1;
            Password=8z3qy4au5u;
            Persist Security Info=False;
            Packet Size=4096;
            TrustServerCertificate=True;"
            providerName="System.Data.SqlClient" />
    
```

```

        </connectionStrings>
</system.web>
<compilation debug="true" targetFramework="4.7.2" />
<httpRuntime targetFramework="4.7.2" />
<pages>
  <namespaces>
    <add namespace="System.Web.Optimization" />
  </namespaces>
  <controls>
    <add assembly="Microsoft.AspNet.Web.Optimization.WebForms"
namespace="Microsoft.AspNet.Web.Optimization.WebForms" tagPrefix="webopt" />
  </controls>
</pages>
</system.web>
<runtime>
  <assemblyBinding xmlns="urn:schemas-microsoft-com:asm.v1">
    <dependentAssembly>
      <assemblyIdentity name="Antlr3.Runtime" publicKeyToken="eb42632606e9261f" />
      <bindingRedirect oldVersion="0.0.0.0-3.5.0.2" newVersion="3.5.0.2" />
    </dependentAssembly>
    <dependentAssembly>
      <assemblyIdentity name="Microsoft.Web.Infrastructure" publicKeyToken="31bf3856ad364e35" />
      <bindingRedirect oldVersion="0.0.0.0-2.0.0.0" newVersion="2.0.0.0" />
    </dependentAssembly>
    <dependentAssembly>
      <assemblyIdentity name="Newtonsoft.Json" publicKeyToken="30ad4fe6b2a6aeed" />
      <bindingRedirect oldVersion="0.0.0.0-13.0.0.0" newVersion="13.0.0.0" />
    </dependentAssembly>
    <dependentAssembly>
      <assemblyIdentity name="WebGrease" publicKeyToken="31bf3856ad364e35" />
      <bindingRedirect oldVersion="0.0.0.0-1.6.5135.21930" newVersion="1.6.5135.21930" />
    </dependentAssembly>
  </assemblyBinding>
</runtime>
<system.codedom>
  <compilers>
    <compiler language="c#;cs;csharp" extension=".cs"
type="Microsoft.CodeDom.Providers.DotNetCompilerPlatform.CSharpCodeProvider,
Microsoft.CodeDom.Providers.DotNetCompilerPlatform, Version=2.0.1.0, Culture=neutral,
PublicKeyToken=31bf3856ad364e35" warningLevel="4" compilerOptions="/langversion:default
/nowarn:1659;1699;1701" />
    <compiler language="vb;vbs;visualbasic;vbscript" extension=".vb"
type="Microsoft.CodeDom.Providers.DotNetCompilerPlatform.VBCodeProvider,
Microsoft.CodeDom.Providers.DotNetCompilerPlatform, Version=2.0.1.0, Culture=neutral,
PublicKeyToken=31bf3856ad364e35" warningLevel="4" compilerOptions="/langversion:default /nowarn:41008
/define:_MYTYPE=&quot;Web&quot; /optionInfer+" />
  </compilers>
</system.codedom>
</configuration>

```