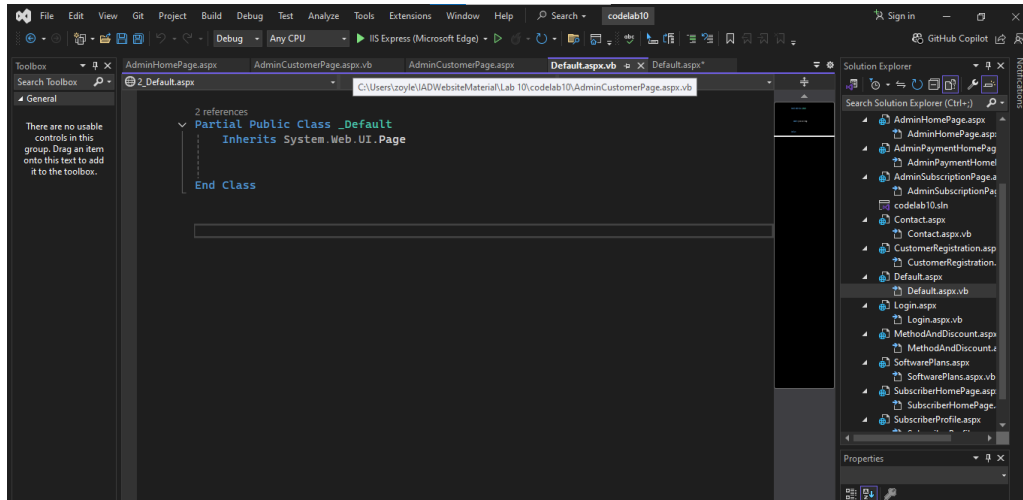


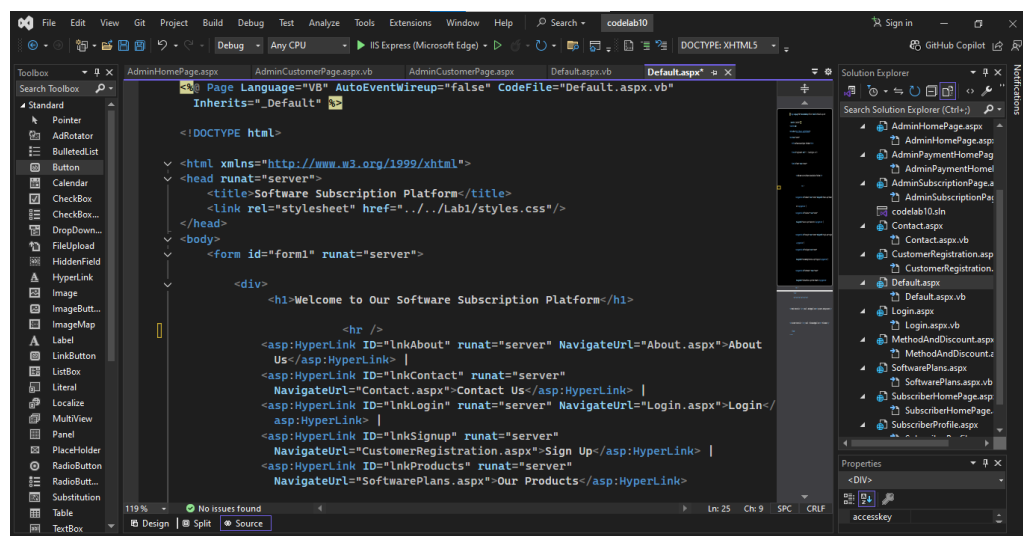
Default

Partial Public Class _Default
Inherits System.Web.UI.Page
End Class

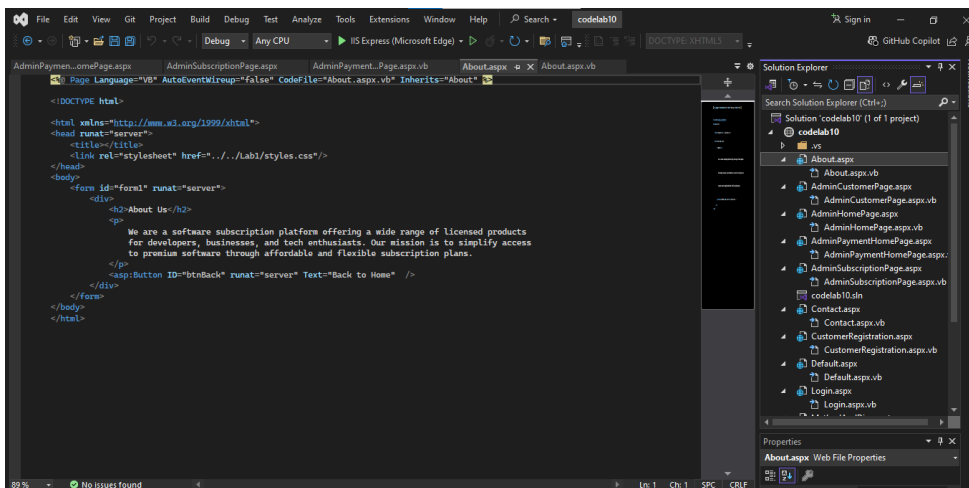
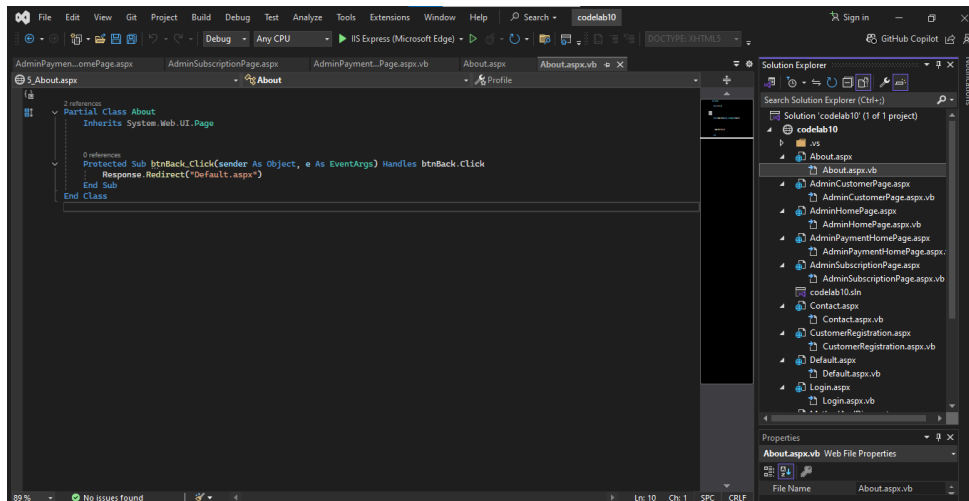


```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="Default.aspx.vb" Inherits="_Default" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title>Software Subscription Platform</title>
  <link rel="stylesheet" href="../../Lab1/styles.css"/>
</head>
<body>
  <form id="form1" runat="server">
    <div>
      <h1>Welcome to Our Software Subscription Platform</h1>
      <hr />
      <asp:HyperLink ID="lnkAbout" runat="server" NavigateUrl="About.aspx">About Us</asp:HyperLink> |
      <asp:HyperLink ID="lnkContact" runat="server" NavigateUrl="Contact.aspx">Contact Us</asp:HyperLink> |
      <asp:HyperLink ID="lnkLogin" runat="server" NavigateUrl="Login.aspx">Login</asp:HyperLink> |
      <asp:HyperLink ID="lnkSignup" runat="server" NavigateUrl="CustomerRegistration.aspx">Sign Up</asp:HyperLink> |
      <asp:HyperLink ID="lnkProducts" runat="server" NavigateUrl="SoftwarePlans.aspx">Our Products</asp:HyperLink>
      <hr />
    </div>
    <br/><br/><br/><br/><br/><br/>
  </form>
  <h2>Admin Credentials:</h2><p>email: admin1@gmail.com<br/>password: adminpassword1</p>

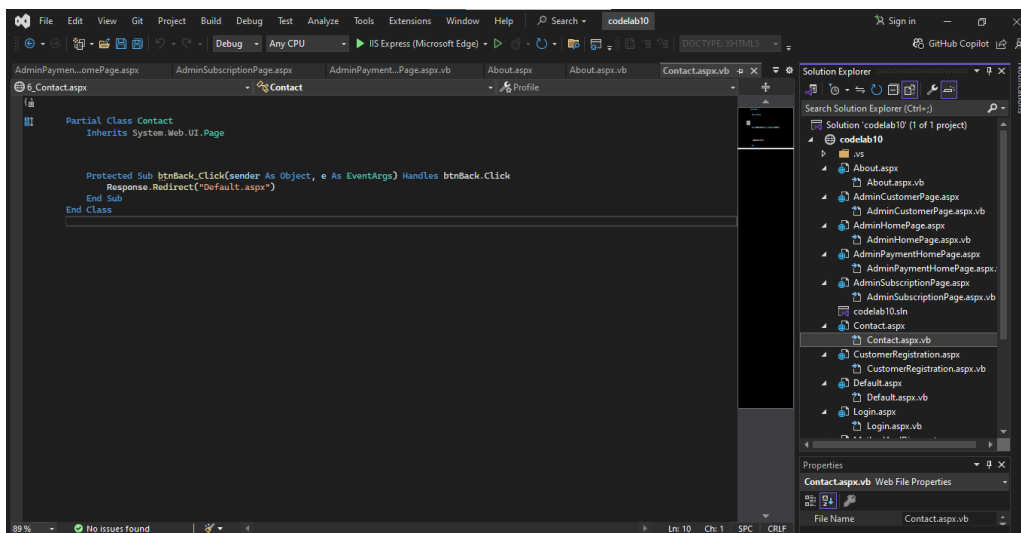
  <h2>Customer Credentials:</h2><p>email: irfanhameed@gmail.com<br/>irfanhameed</p>
</body>
</html>
```

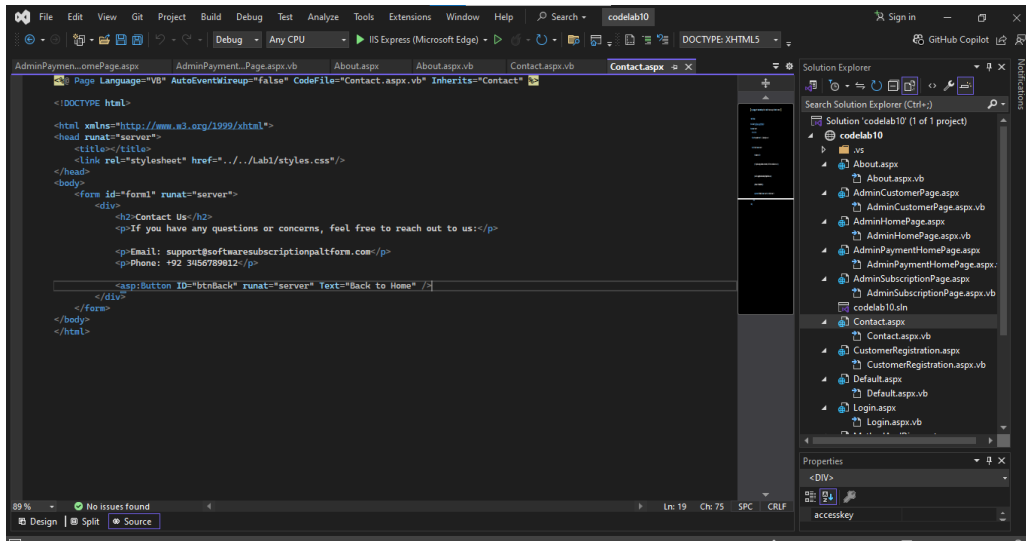


About



Contact us:





Software Plans:

Imports System
Imports System.Data
Imports System.Data.SqlClient
Imports System.Web.UI

Partial Class SoftwarePlans
Inherits Page

Dim cons As String = "workstation id=zoyazahradb.mssql.somee.com;packet size=4096;user id=ZoyaZahra_SQLLogin_1;pwd=fjlk3wtfa3;data source=zoyazahradb.mssql.somee.com;persist security info=False;initial catalog=zoyazahradb;TrustServerCertificate=True"

Protected Sub Page_Load(ByVal sender As Object, ByVal e As EventArgs) Handles Me.Load
If Not IsPostBack Then
LoadUniqueProducts()
End If
End Sub

Private Sub LoadUniqueProducts()
Dim con As New SqlConnection(cons)
Dim cmd As New SqlCommand("SELECT DISTINCT Software_Name FROM Software_Plan", con)
Dim da As New SqlDataAdapter(cmd)
Dim dt As New DataTable()
con.Open()
da.Fill(dt)
con.Close()

rptProducts.DataSource = dt
rptProducts.DataBind()
End Sub

Protected Sub btnSearch_Click(ByVal sender As Object, ByVal e As EventArgs)
SearchAndDisplay(txtSearch.Text.Trim())
End Sub

Protected Sub Product_Click(ByVal sender As Object, ByVal e As CommandEventArgs)
Dim selectedProduct As String = e.CommandArgument.ToString()
SearchAndDisplay(selectedProduct)
End Sub

Private Sub SearchAndDisplay(ByVal productName As String)
Dim con As New SqlConnection(cons)
Dim cmd As New SqlCommand("SELECT * FROM Software_Plan WHERE Software_Name = @SoftwareName", con)
cmd.Parameters.AddWithValue("@SoftwareName", productName)
Dim da As New SqlDataAdapter(cmd)

```

Dim dt As New DataTable()
con.Open()
da.Fill(dt)
con.Close()

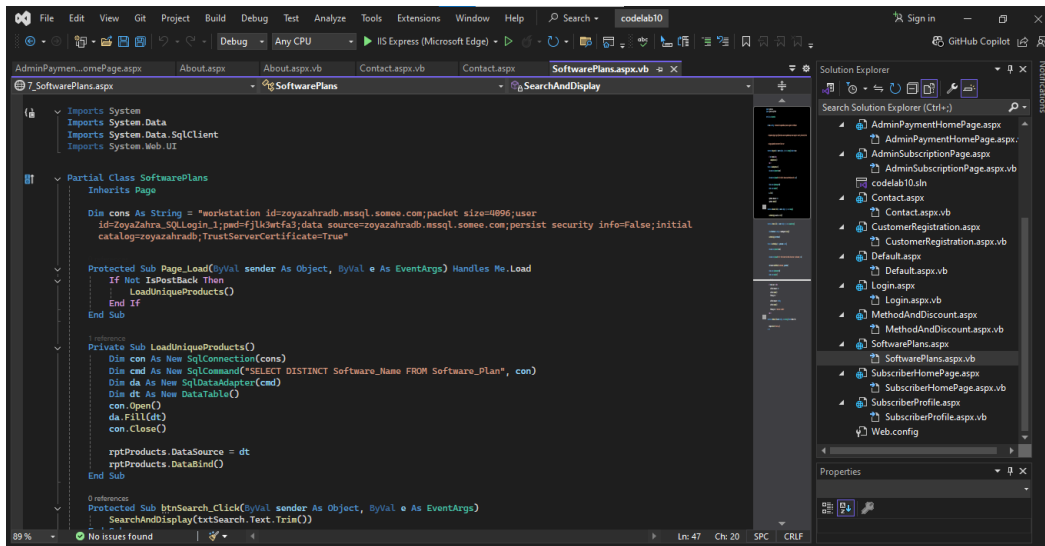
If dt.Rows.Count > 0 Then
    GridView1.DataSource = dt
    GridView1.DataBind()
    lblMessage.Text = ""
Else
    GridView1.DataSource = Nothing
    GridView1.DataBind()
    lblMessage.Text = "Product not available."
End If
End Sub
End Sub

```

```

Protected Sub btnhome_Click(sender As Object, e As EventArgs) Handles btnhome.Click
    Response.Redirect("Default.aspx")
End Sub
End Class

```



```
<%@ Page Language="VB" AutoEventWireup="true" CodeFile="SoftwarePlans.aspx.vb" Inherits="SoftwarePlans" %>
```

```

<!DOCTYPE html>
<html lang="en">
<head>
    <title>Software Plans</title>
    <link rel="stylesheet" href="../../Lab1/styles.css"/>
</head>
<body>
    <form id="form2" runat="server">
        <div style="display: flex; min-height: 100vh;">

            <div class="sidebar">
                <h3>Available Products</h3>
                <asp:Repeater ID="rptProducts" runat="server">
                    <ItemTemplate>
                        <asp:LinkButton ID="lnkProduct" runat="server" Text='<%= Eval("Software_Name") %>' CommandArgument='<%= Eval("Software_Name") %>'
OnCommand="Product_Click" />
                    </ItemTemplate>
                </asp:Repeater>
            </div>

            <div class="main">
                <h2>Search Product</h2>

                <div class="form-group">
                    <label>Enter Software Name:</label>
                    <asp:TextBox ID="txtSearch" runat="server" />
                    <asp:Button ID="btnSearch" runat="server" Text="Search" OnClick="btnSearch_Click" />
                    <asp:Button ID="btnhome" runat="server" Text="Back to Home" />
                </div>
            </div>
        </div>
    </form>

```

```

</div>

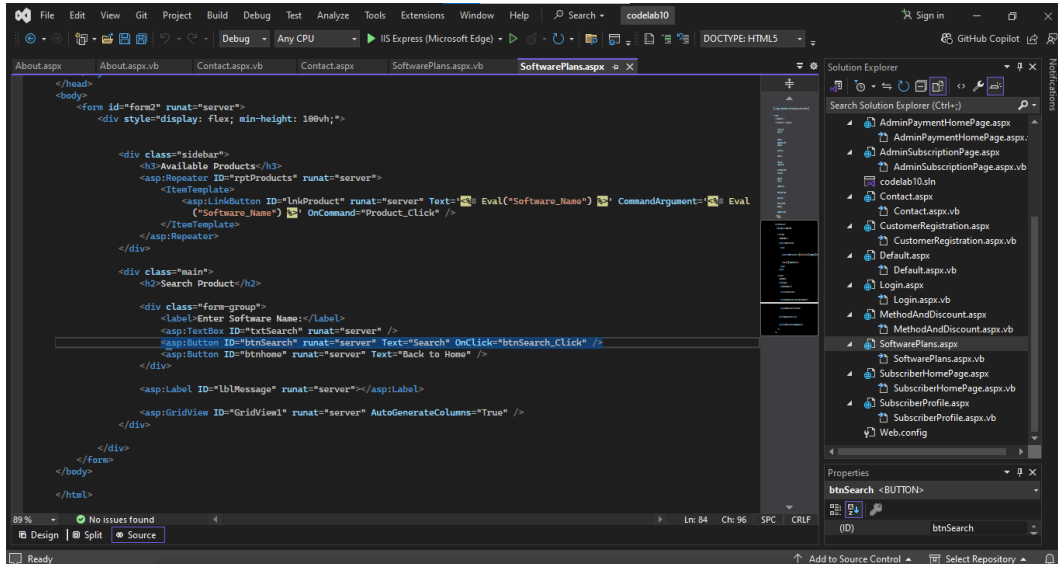
<asp:Label ID="lblMessage" runat="server"></asp:Label>

<asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="True" />
</div>

</div>
</form>
</body>

</html>

```



Adminhomepage

Imports System
Imports System.Data
Imports System.Data.SqlClient
Imports System.Security.Cryptography
Imports System.Web.UI

Partial Class AdminHomePage
Inherits System.Web.UI.Page

Dim connStr As String = "workstation id=zoyazahradb.mssql.somee.com;packet size=4096;user id=ZoyaZahra_SQLLogin_1;pwd=fjlk3wtfa3;data source=zoyazahradb.mssql.somee.com;persist security info=False;initial catalog=zoyazahradb;TrustServerCertificate=True"

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

```

    If Session("Email") Is Nothing OrElse Session("Role") Is Nothing Then
        Response.Redirect("Login.aspx?msg=Please login to continue.")
        Return
    End If

```

```

    If Session("Role").ToString() <> "Admin" Then

```

```

        Response.Redirect("Login.aspx?msg=You must log in as Admin to access this page.")
        Return
    End If

```

```

    lblWelcome.Text = "Welcome Admin: " & Session("Email").ToString()
    If Not Page.IsPostBack Then
        ShowMainPanel()
    End If
End Sub

```

```

Private Sub ShowMainPanel()

```

```
pnlMain.Visible = True
pnlProfile.Visible = False
pnlpassword.Visible = False
btngoadminhomepage.Visible = False
End Sub
```

```
Protected Sub btngoadminhomepage_Click(sender As Object, e As EventArgs) Handles btngoadminhomepage.Click
    ShowMainPanel()
End Sub
```

```
Protected Sub btnManageCustomers_Click(sender As Object, e As EventArgs) Handles btnManageCustomers.Click
    Response.Redirect("AdminCustomerPage.aspx")
End Sub
```

```
Protected Sub btnManageSubscriptions_Click(sender As Object, e As EventArgs) Handles btnManageSubscriptions.Click
    Response.Redirect("AdminSubscriptionPage.aspx")
End Sub
```

```
Protected Sub btnManagePayments_Click(sender As Object, e As EventArgs) Handles btnManagePayments.Click
    Response.Redirect("AdminPaymentHomePage.aspx")
End Sub
```

```
Protected Sub btnProfile_Click(sender As Object, e As EventArgs) Handles btnProfile.Click
    pnlProfile.Visible = True
    pnlMain.Visible = False
    pnlpassword.Visible = False
    btngoadminhomepage.Visible = True
```

```
Using conn As New SqlConnection(connStr)
    Dim cmd As New SqlCommand("SELECT username, email FROM Admin WHERE admin_ID = 1", conn)
    conn.Open()
    Dim reader As SqlDataReader = cmd.ExecuteReader()
    If reader.Read() Then
        txtAdminName.Text = reader("username").ToString()
        txtAdminEmail.Text = reader("Email").ToString()
    End If
    conn.Close()
End Using
End Sub
```

```
Protected Sub btnShowPasswordPanel_Click(sender As Object, e As EventArgs) Handles btnShowPasswordPanel.Click
    pnlpassword.Visible = True
    pnlMain.Visible = False
    pnlProfile.Visible = False
End Sub
```

```
Protected Sub btnupdatepassword_Click(sender As Object, e As EventArgs) Handles btnupdatepassword.Click
    btngoadminhomepage.Visible = True
```

```
Dim currentPassword As String = txtcurrentpassword.Text.Trim()
Dim newPassword As String = txtnewpassword.Text.Trim()
Dim confirmPassword As String = txtconfirmpassword.Text.Trim()
```

```
If String.IsNullOrEmpty(currentPassword) OrElse
String.IsNullOrEmpty(newPassword) OrElse
String.IsNullOrEmpty(confirmPassword) Then
    Response.Write("<script>alert('Please fill in all the password fields.');
```

```
If newPassword <> confirmPassword Then
    Response.Write("<script>alert('New and confirm passwords do not match.');
```

```
Dim hasUpper As Boolean = Regex.IsMatch(newPassword, "[A-Z]")
Dim hasLower As Boolean = Regex.IsMatch(newPassword, "[a-z]")
Dim hasSpecial As Boolean = Regex.IsMatch(newPassword, "[^A-Za-z0-9]") '
```

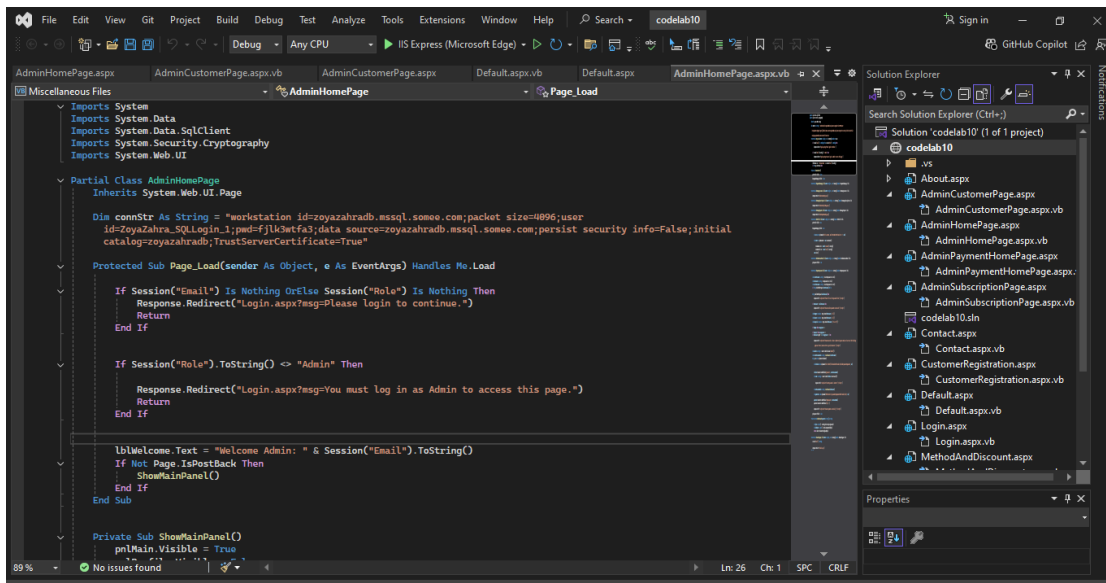
```
Dim categoryCount As Integer = 0
If hasUpper Then categoryCount += 1
If hasLower Then categoryCount += 1
```

```

If hasSpecial Then categoryCount += 1

If newPassword.Length < 8 Or categoryCount < 2 Then
    Response.Write("<script>alert('Password must be at least 8 characters long and contain at least two of the following: uppercase letters, lowercase letters, special characters.');

```



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

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<title>Admin Home</title>
```

```
<link rel="stylesheet" href="../../Lab1/styles.css" />
```

```
</head>
```

```
<body>
```

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

```
<h2>Welcome to Admin Dashboard</h2>
```

```
<hr />
```

```
<asp:Panel ID="pnlProfile" runat="server" Visible="false">
```

```
<h3>Admin Profile</h3>
```

```
Name:<br />
```

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

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

```
Email:<br />
```

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

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

```
<asp:Button ID="btnShowPasswordPanel" runat="server" Text="Change Password" Width="200px" />
```

```
<br />
```

```
<br />
```

```
<asp:Button ID="btnadminlogout" runat="server" Text="Logout Admin" Width="196px" />
```

```
<br />
```

```
<br />
```

```
</asp:Panel>
```

```
<asp:Panel ID="pnlMain" runat="server">
```

```
<h3>
```

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

```
</h3>
```

```
<h3>Select a Section to Manage</h3>
```

```
<asp:Button ID="btnProfile" runat="server" Text="View Admin Profile" Width="200px" />
```

```
<br />
```

```
<br />
```

```
<asp:Button ID="btnManageCustomers" runat="server" Text="Manage Customers" Width="200px" />
```

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

```
<asp:Button ID="btnManageSubscriptions" runat="server" Text="Manage Subscriptions" Width="200px" />
```

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

```
<asp:Button ID="btnManagePayments" runat="server" Text="View Payments" Width="200px" />
```

```
<br />
```

```
<br />
```

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

```
</asp:Panel>
```

```
<asp:Panel ID="pnlpassword" runat="server" Visible="false">
```

```
<br />
```

```
<asp:Label ID="lblchangeyourpassword" runat="server" Text="Change your Password"></asp:Label><br /><br />
```

```

<asp:Label ID="lblcurrentpassword" runat="server" Text="Current Password"></asp:Label><br />
<asp:TextBox ID="txtcurrentpassword" runat="server" TextMode="Password" />
<asp:RequiredFieldValidator ID="rfvCurrentPassword" runat="server"
    ControlToValidate="txtcurrentpassword" ErrorMessage="Current password is required."
    ForeColor="Red" Display="Dynamic" ValidationGroup="UpdatePassword" />
<br /><br />

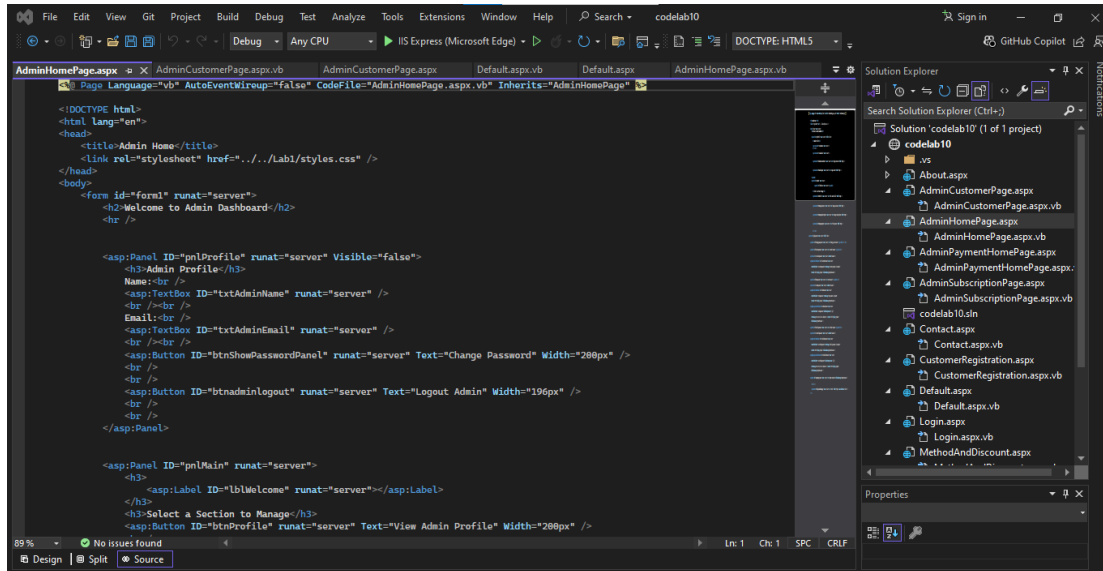
<asp:Label ID="lblnewpassword" runat="server" Text="New Password"></asp:Label><br />
<asp:TextBox ID="txtnewpassword" runat="server" TextMode="Password" />
<asp:RequiredFieldValidator ID="rfvNewPassword" runat="server"
    ControlToValidate="txtnewpassword" ErrorMessage="New password is required."
    ForeColor="Red" Display="Dynamic" ValidationGroup="UpdatePassword" />
<asp:RegularExpressionValidator ID="revNewPassword" runat="server"
    ControlToValidate="txtnewpassword" ValidationExpression=".{6,}"
    ErrorMessage="Must be at least 6 characters." ForeColor="Red" Display="Dynamic"
    ValidationGroup="UpdatePassword" />
<br /><br />

<asp:Label ID="lblconfirmpassword" runat="server" Text="Confirm Password"></asp:Label><br />
<asp:TextBox ID="txtconfirmpassword" runat="server" TextMode="Password" />
<asp:RequiredFieldValidator ID="rfvConfirmPassword" runat="server"
    ControlToValidate="txtconfirmpassword" ErrorMessage="Confirm password is required."
    ForeColor="Red" Display="Dynamic" ValidationGroup="UpdatePassword" />
<asp:RegularExpressionValidator ID="revConfirmPassword" runat="server"
    ControlToValidate="txtconfirmpassword" ValidationExpression=".{6,}"
    ErrorMessage="Must be at least 6 characters." ForeColor="Red" Display="Dynamic"
    ValidationGroup="UpdatePassword" />
<br /><br />

<asp:Button ID="btnupdatepassword" runat="server" Text="Update Password" ValidationGroup="UpdatePassword" />
<br />
</asp:Panel>

    <br /><br />
    <asp:Button ID="btngoadminhomepage" runat="server" Text="Back " Width="198px" CausesValidation="false" />
</form>
</body> </html>

```



Admincustomerhomepage

Imports System
Imports System.Data
Imports System.Data.SqlClient
Imports System.Security.Cryptography
Imports System.Web.UI
Partial Class AdminCustomerPage
Inherits Page

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

```
If Session("Email") Is Nothing OrElse Session("Role") Is Nothing Then
    Response.Redirect("Login.aspx?msg=Please login to continue.")
    Return
End If
```

```
If Session("Role").ToString() <> "Admin" Then
```

```
    Response.Redirect("Login.aspx?msg=You must log in as Admin to access this page.")
    Return
End If
```

```
lblWelcome.Text = "Welcome Admin: " & Session("Email").ToString()
If Not IsPostBack Then
    ShowMainPanel()
End If
```

End Sub

```
Private Sub ShowMainPanel()
    btnadminhome.Visible = True
    pnlmaincustomeradmin.Visible = True
    pnladdcustomers.Visible = False
    pnldeletcustomers.Visible = False
    pnlseeallcustomers.Visible = False
End Sub
```

```
Private Sub ShowAddCustomerPanel()
    pnlmaincustomeradmin.Visible = False
    pnladdcustomers.Visible = True
    pnldeletcustomers.Visible = False
    pnlseeallcustomers.Visible = False
End Sub
```

```
Private Sub ShowDeleteCustomerPanel()
    pnlmaincustomeradmin.Visible = False
    pnladdcustomers.Visible = False
    pnldeletcustomers.Visible = True
    pnlseeallcustomers.Visible = False
End Sub
```

```
Private Sub ShowSeeAllCustomersPanel()
    pnlmaincustomeradmin.Visible = False
    pnladdcustomers.Visible = False
    pnldeletcustomers.Visible = False
    pnlseeallcustomers.Visible = True
End Sub
```

```
Protected Sub btnaddcustomer_Click(sender As Object, e As EventArgs) Handles btnaddcustomer.Click
    ShowAddCustomerPanel()
```

End Sub

```
Protected Sub btndeletcustomers_Click(sender As Object, e As EventArgs) Handles btndeletcustomers.Click
    ShowDeleteCustomerPanel()
```

End Sub

```
Protected Sub btnseeallcustomers_Click(sender As Object, e As EventArgs) Handles btnseeallcustomers.Click
    ShowSeeAllCustomersPanel()
    btnadminhome.Visible = True
    Dim cons As String = "workstation id=zoyazahradb.mssql.somee.com;packet size=4096;user id=ZoyaZahra_SQLLogin_1;pwd=fjlk3wtfa3;data
source=zoyazahradb.mssql.somee.com;persist security info=False;initial catalog=zoyazahradb;TrustServerCertificate=True"
```

```
    Dim con As New SqlConnection(cons)
```

```

    Dim cmd As New SqlCommand("SELECT Customer_id, Email, Name, Cell_NO, Country FROM Customer where is_deleted= 0 ORDER BY
CAST(SUBSTRING(customer_id, 2, LEN(customer_id) - 1) AS INT)", con)
    Dim da As New SqlDataAdapter(cmd)
    Dim dt As New DataTable()

Try
    con.Open()
    da.Fill(dt)
    GridViewCustomers.DataSource = dt
    GridViewCustomers.DataBind()
Catch ex As Exception
    Response.Write("An error occurred: " & ex.Message)
Finally
    con.Close()
    cmd.Dispose()

End Try
End Sub

Protected Sub btnhome_Click(sender As Object, e As EventArgs) Handles btnhome.Click
    ShowMainPanel()
End Sub

Protected Sub btnadminhome_Click(sender As Object, e As EventArgs) Handles btnadminhome.Click
    Response.Redirect("AdminHomePage.aspx")
End Sub

Protected Sub btnRegister_Click(ByVal sender As Object, ByVal e As EventArgs) Handles btnRegister.Click
    btnadminhome.Visible = True

    Dim name As String = txtName.Text.Trim()
    Dim email As String = txtEmail.Text.Trim()
    Dim cellNo As String = txtCellNo.Text.Trim()
    Dim country As String = txtCountry.Text.Trim()
    Dim password As String = txtPassword.Text.Trim()
    Dim confirmPassword As String = txtConfirmPassword.Text.Trim()

    If String.IsNullOrEmpty(name) OrElse
String.IsNullOrEmpty(email) OrElse
String.IsNullOrEmpty(cellNo) OrElse
String.IsNullOrEmpty(country) OrElse
String.IsNullOrEmpty(password) OrElse
String.IsNullOrEmpty(confirmPassword) Then

        lblMessage.Text = "Please fill in all fields before registering."
        Exit Sub
    End If

    If Not Regex.IsMatch(country, "^[A-Za-z]{2}$") Then
        lblMessage.Text = "Country must be exactly 2 letters (e.g., 'US', 'PK')."
        Exit Sub
    End If

    If Not Regex.IsMatch(email, "^[A-Za-z0-9._%+-]+@[A-Za-z0-9.-]+\.[A-Za-z]{2,}$") Then
        lblMessage.Text = "Please enter a valid email address."
        Exit Sub
    End If

    If password.Length < 8 Then
        lblMessage.Text = "Password must be at least 8 characters long."
        Exit Sub
    End If

    Dim hasUpper As Boolean = Regex.IsMatch(password, "[A-Z]")
    Dim hasLower As Boolean = Regex.IsMatch(password, "[a-z]")
    Dim hasDigit As Boolean = Regex.IsMatch(password, "\d")
    Dim hasSpecial As Boolean = Regex.IsMatch(password, "[^A-Za-z0-9]")

```

```

Dim strengthCount As Integer = 0
If hasUpper Then strengthCount += 1
If hasLower Then strengthCount += 1
If hasDigit Then strengthCount += 1
If hasSpecial Then strengthCount += 1

If strengthCount < 2 Then
    lblMessage.Text = "Password must include at least two of the following: uppercase letters, lowercase letters, digits, special characters."
    Exit Sub
End If

```

```

If password <> confirmPassword Then
    lblMessage.Text = "Passwords do not match. Please re-enter."
    Exit Sub
End If

```

```

Dim cons As String = "workstation id=zoyazahradb.mssql.somee.com;packet size=4096;user id=ZoyaZahra_SQLLogin_1;pwd=fjlk3wtfa3;data source=zoyazahradb.mssql.somee.com;persist security info=False;initial catalog=zoyazahradb;TrustServerCertificate=True"

```

```

Dim con As New SqlConnection(cons)
Dim cmd As New SqlCommand()
cmd.Connection = con

```

```

Dim hashedPassword As String = ComputeSha256Hash(password)

```

```

Try
    con.Open()

```

```

    cmd.CommandText = "SELECT MAX(CAST(SUBSTRING(Customer_Id, 2, LEN(Customer_Id) - 1) AS INT)) FROM Customer"
    cmd.Parameters.Clear()
    Dim maxIdObj As Object = cmd.ExecuteScalar()

```

```

    Dim nextNumericId As Integer = 1
    If Not IsDBNull(maxIdObj) Then
        nextNumericId = Convert.ToInt32(maxIdObj) + 1
    End If

```

```

    Dim newId As String = "C" & nextNumericId.ToString()

```

```

    cmd.CommandText = "INSERT INTO Customer (Customer_Id, Email, Name, Cell_NO, Country, password) " &
        "VALUES (@Customer_Id, @Email, @Name, @Cell_NO, @Country, @password)"
    cmd.Parameters.Clear()
    cmd.Parameters.AddWithValue("@Customer_Id", newId)
    cmd.Parameters.AddWithValue("@Email", email)
    cmd.Parameters.AddWithValue("@Name", name)
    cmd.Parameters.AddWithValue("@Cell_NO", cellNo)
    cmd.Parameters.AddWithValue("@Country", country)
    cmd.Parameters.AddWithValue("@password", hashedPassword)

```

```

    cmd.ExecuteNonQuery()
    lblMessage.Text = "Registration successful! Customer ID: " & newId

```

```

Catch ex As Exception
    lblMessage.Text = "Error: " & ex.Message
Finally
    con.Close()
End Try
End Sub

```

```

Private Function ComputeSha256Hash(rawData As String) As String
    Using sha256 As SHA256 = sha256.Create()
        Dim bytes As Byte() = sha256.ComputeHash(Encoding.UTF8.GetBytes(rawData))
        Dim builder As New StringBuilder()
        For Each b As Byte In bytes
            builder.Append(b.ToString("x2"))
        Next
        Return builder.ToString()
    End Using

```

End Function

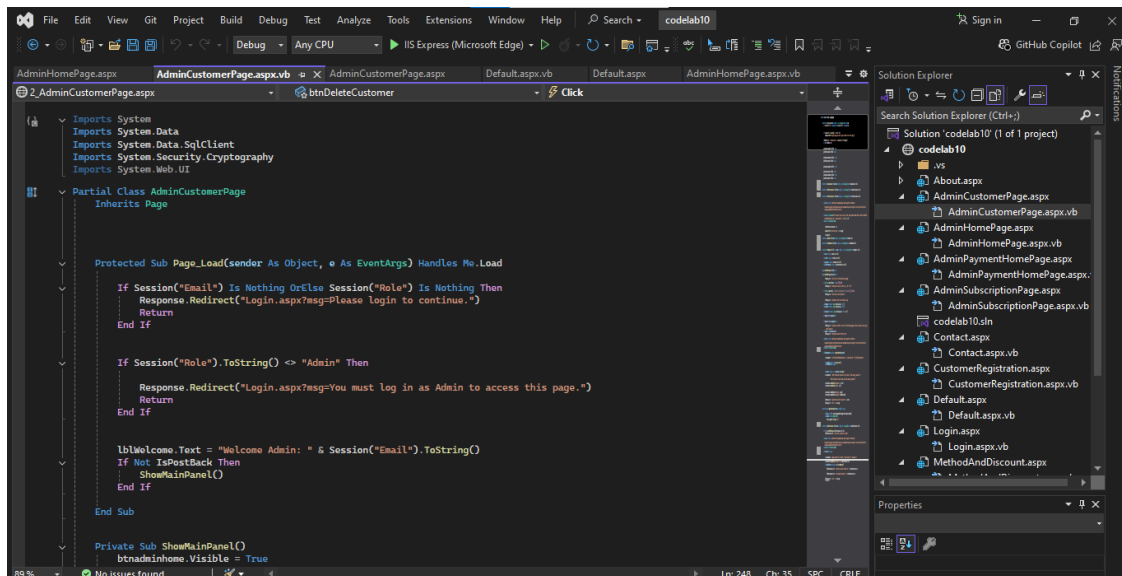
```
Protected Sub btnDeleteCustomer_Click(sender As Object, e As EventArgs) Handles btnDeleteCustomer.Click
    btnadminhome.Visible = True
    If String.IsNullOrEmpty(txtDeleteCustomer.Text) Then
        lblDeleteCustomer.Text = "Please enter a customer ID to delete."
        Exit Sub
    End If
    Dim cons As String = "workstation id=zoyazahradb.mssql.somee.com;packet size=4096;user id=ZoyaZahra_SQLLogin_1;pwd=fjlk3wtfa3;data
source=zoyazahradb.mssql.somee.com;persist security info=False;initial catalog=zoyazahradb;TrustServerCertificate=True"
    Dim con As New SqlConnection(cons)
    Dim cmd As New SqlCommand()
    cmd.Connection = con

    Dim latestId As String = ""
    Dim newId As String = ""

    Try
        con.Open()

        cmd.CommandText = "Update customer Set is_deleted = 1 where customer_id = @Customer_Id "
        cmd.Parameters.Clear()
        cmd.Parameters.AddWithValue("@Customer_Id", txtDeleteCustomer.Text)
        Dim rowsAffected As Integer = cmd.ExecuteNonQuery()
        If rowsAffected > 0 Then
            lblDeleteCustomer.Text = "Deletion successful! Customer ID: " & txtDeleteCustomer.Text
        Else
            lblDeleteCustomer.Text = "No customer found with ID: " & txtDeleteCustomer.Text
        End If

    Catch ex As Exception
        lblMessage.Text = "Error: " & ex.Message
    Finally
        con.Close()
    End Try
End Sub
End Class
```



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

<!DOCTYPE html>

<html lang="en">

<head>

<title>Admin Login</title>

<link rel="stylesheet" href="../../Lab1/styles.css" />

</head>

<body>

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

[illegible]

```

<asp:Label ID="Label1" runat="server" ></asp:Label>

<br />

<br />
<asp:Button ID="btnRegister" runat="server" Text="Register" Width="118px" />
<asp:Button ID="btnhome" runat="server" Text="Back to Home" Width="150px" />
<br /><br />
<asp:Label ID="lblMessage" runat="server" />
</panel>
<hr />
<br>

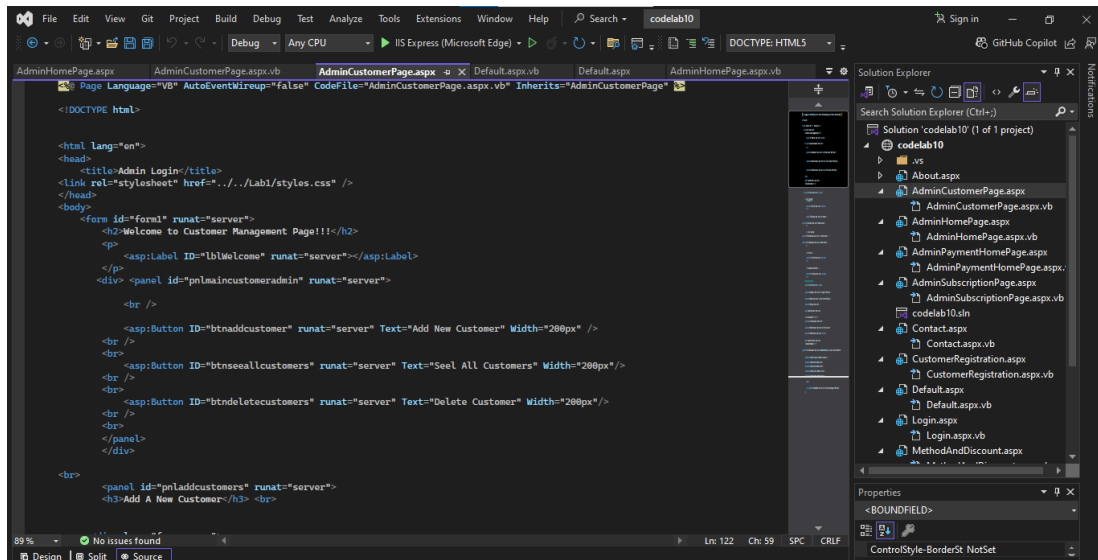
<panel id="pnldetelecustomers" runat="server">
<h3>Delete Customer</h3> <br>
<label>Enter Customer ID:</label><br />
<asp:TextBox ID="txtDeleteCustomer" runat="server" />
<br /><br />
<asp:Button ID="btnDeleteCustomer" runat="server" Text="Delete Customer" />

<asp:Label ID="lblDeleteCustomer" runat="server"></asp:Label>
</panel>
<hr />
<br>

<panel id="pnlseeallcustomers" runat="server">
<h3>Customer Information</h3><br />
<br />
<asp:GridView ID="GridViewCustomers" runat="server" AutoGenerateColumns="False" CssClass="table table-bordered">
<Columns>
<asp:BoundField DataField="Customer_Id" HeaderText="Customer_id" />
<asp:BoundField DataField="Name" HeaderText="Name" />
<asp:BoundField DataField="Email" HeaderText="Email" />
<asp:BoundField DataField="Cell_NO" HeaderText="Cell No" />
<asp:BoundField DataField="Country" HeaderText="Country" />
</Columns>
</asp:GridView>

</panel>
<br><br><p>
<br><asp:Button ID="btnadminhome" runat="server" Text="Back to Admin Homepage" Width="200px"/>
</p>
</form>
</body>
</html>

```



Adminsubscriptionpage

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

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

```
Private Sub HideAllPanels()
    btnadminhome.Visible = True
    pnladminsubscriptionmain.Visible = False
    pnlsubscribers.Visible = False
    pnladdsubscription.Visible = False
    pnldeletesubscription.Visible = False
    pnlviewssubscriptionplans.Visible = False
    btnadminhome.Visible = False
End Sub
```

```
Dim cons As String = "workstation id=zoyazahradb.mssql.somee.com;packet size=4096;user id=ZoyaZahra_SQLLogin_1;pwd=fjlk3wtfa3;data
source=zoyazahradb.mssql.somee.com;persist security info=False;initial catalog=zoyazahradb;TrustServerCertificate=True"
Protected Sub Page_Load(sender As Object, e As EventArgs) Handles Me.Load
```

```
    If Session("Email") Is Nothing OrElse Session("Role") Is Nothing Then
        Response.Redirect("Login.aspx?msg=Please login to continue.")
        Return
    End If
```

```
    If Session("Role").ToString() <> "Admin" Then

        Response.Redirect("Login.aspx?msg=You must log in as Admin to access this page.")
        Return
    End If
```

```
    lblWelcome.Text = "Welcome Admin: " & Session("Email").ToString()
End Sub
```

```
Protected Sub btnViewSubscriptions_Click(sender As Object, e As EventArgs) Handles btnViewSubscriptions.Click
```

```
    HideAllPanels()
    pnladminsubscriptionmain.Visible = False
    pnlsubscribers.Visible = True
    btnadminhome.Visible = True
    Dim con As New SqlConnection(cons)
    Dim cmd As New SqlCommand("SELECT * FROM Subscriptions ", con)
    Dim da As New SqlDataAdapter(cmd)
    Dim dt As New DataTable()
```

```
Try
    con.Open()
    da.Fill(dt)
    grdvsubscribers.DataSource = dt
    grdvsubscribers.DataBind()
Catch ex As Exception
    Response.Write("An error occurred: " & ex.Message)
Finally
    con.Close()
    cmd.Dispose()

End Try
End Sub
```

```
Protected Sub btnadminhome_Click(sender As Object, e As EventArgs) Handles btnadminhome.Click
```

```
    HideAllPanels()
    pnladminsubscriptionmain.Visible = True
```

End Sub

Protected Sub btnviesubscriptionplans_Click(sender As Object, e As EventArgs) Handles btnviesubscriptionplans.Click

```
HideAllPanels()
pnlviewssubscriptionplans.Visible = True
pnladminssubscriptionmain.Visible = False
btnadminhome.Visible = True
Dim con As New SqlConnection(cons)
Dim cmd As New SqlCommand("SELECT * FROM software_plan ORDER BY CAST(SUBSTRING(Software_Plan_Id, 3, LEN(Software_Plan_Id)) AS INT)", con)
Dim da As New SqlDataAdapter(cmd)
Dim dt As New DataTable()
```

```
Try
    con.Open()
    da.Fill(dt)
    grdvsubscriptionplans.DataSource = dt
    grdvsubscriptionplans.DataBind()
Catch ex As Exception
    Response.Write("An error occurred: " & ex.Message)
Finally
    con.Close()
    cmd.Dispose()
```

End Try

End Sub

Protected Sub btnAddSubscription_Click(sender As Object, e As EventArgs) Handles btnAddSubscription.Click

```
HideAllPanels()
pnladminssubscriptionmain.Visible = False
pnladdsubscription.Visible = True
btnadminhome.Visible = True
```

End Sub

Protected Sub btnDeleteSubscription_Click(sender As Object, e As EventArgs) Handles btnDeleteSubscription.Click

```
HideAllPanels()
pnladminssubscriptionmain.Visible = False
pnldeletesubscription.Visible = True
btnadminhome.Visible = True
```

End Sub

Protected Sub btnsubmitnewplan_Click(sender As Object, e As EventArgs) Handles btnsubmitnewplan.Click

```
HideAllPanels()
pnladminssubscriptionmain.Visible = False
pnladdsubscription.Visible = True
btnadminhome.Visible = True
```

```
Dim name As String = txtplanname.Value.Trim()
Dim features As String = txtplandescription.Value.Trim()
Dim level As String = txtplanlevel.Value.Trim()
Dim priceText As String = txtpricepermonth.Value.Trim()
```

```
If String.IsNullOrEmpty(name) OrElse
String.IsNullOrEmpty(features) OrElse
String.IsNullOrEmpty(level) OrElse
String.IsNullOrEmpty(priceText) Then
```

```
    Response.Write("Fill all the fields please!<br>")
    Return
```

End If

```
Dim price As Decimal
If Not Decimal.TryParse(priceText, price) OrElse price < 0 Then
    Response.Write("Price must be a positive number and a decimal")
    Return
End If
```

```
Dim newId As String = ""
```

```

Using conn As New SqlConnection(cons)
    conn.Open()

    Dim getMaxIdCmd As New SqlCommand("SELECT MAX(CAST(SUBSTRING(Software_Plan_Id, 3, LEN(Software_Plan_Id)) AS INT)) FROM software_plan",
conn)
    Dim result = getMaxIdCmd.ExecuteScalar()
    Dim nextIdNum As Integer = If(IsDBNull(result), 1, Convert.ToInt32(result) + 1)
    newId = "SP" & nextIdNum.ToString()

    Dim insertCmd As New SqlCommand("INSERT INTO software_plan (Software_Plan_Id, Software_Name, Software_Features, Software_Level,
Price_Per_Month) VALUES (@id, @name, @features, @level, @price)", conn)
    insertCmd.Parameters.AddWithValue("@id", newId)
    insertCmd.Parameters.AddWithValue("@name", name)
    insertCmd.Parameters.AddWithValue("@features", features)
    insertCmd.Parameters.AddWithValue("@level", level)
    insertCmd.Parameters.AddWithValue("@price", price)

    insertCmd.ExecuteNonQuery()
End Using

txtplanname.Value = ""
txtplandescription.Value = ""
txtplanlevel.Value = ""
txtpricepermonth.Value = ""

Response.Write("New software plan added successfully with ID: " & newId)
End Sub

Protected Sub btndeletesoftwareplan_Click(sender As Object, e As EventArgs) Handles btndeletesoftwareplan.Click

    HideAllPanels()
    pnladminsubscriptionmain.Visible = False
    pnldeletesubscription.Visible = True
    btnadminhome.Visible = True
    Dim planId As String = txtdeleteplan.Value

    If String.IsNullOrEmpty(planId) Then
        Response.Write("Please enter a Software plan ID to delete ")
        Return
    End If

    Using conn As New SqlConnection(cons)
        conn.Open()

        Dim checkCmd As New SqlCommand("SELECT COUNT(*) FROM software_plan WHERE Software_Plan_Id = @PlanId", conn)
        checkCmd.Parameters.AddWithValue("@PlanId", planId)

        Dim count As Integer = Convert.ToInt32(checkCmd.ExecuteScalar())

        If count = 0 Then
            Response.Write("Software Plan ID does not exist.")
            Return
        End If

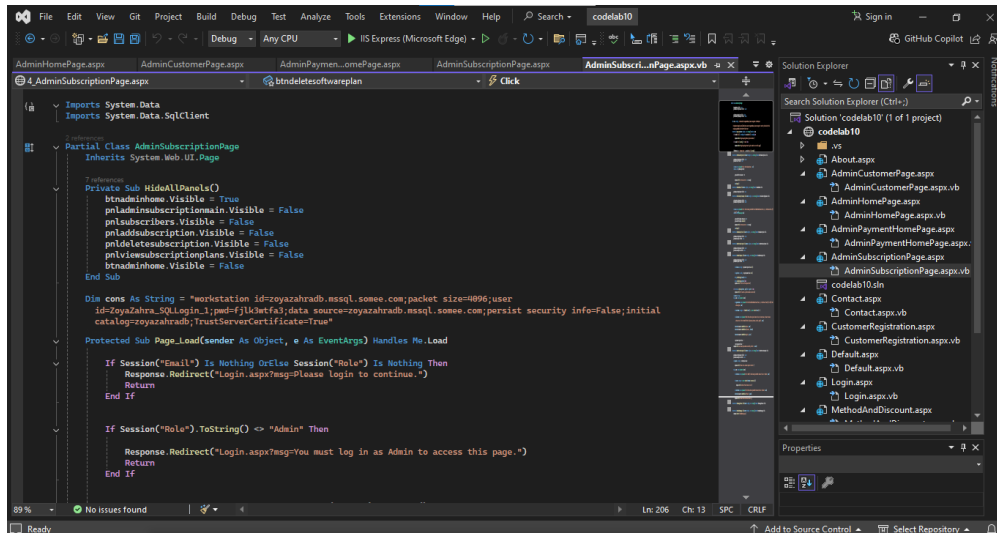
        Dim deleteCmd As New SqlCommand("DELETE FROM software_plan WHERE Software_Plan_Id = @PlanId", conn)
        deleteCmd.Parameters.AddWithValue("@PlanId", planId)
        deleteCmd.ExecuteNonQuery()

        Response.Write("Software Plan deleted successfully.")
    End Using
End Sub

Protected Sub btnmanagediscount_Click(sender As Object, e As EventArgs) Handles btnmanagediscount.Click
    Response.Redirect("MethodAndDiscount.aspx")
End Sub

```

```
Protected Sub btnadminhomepage_Click(sender As Object, e As EventArgs) Handles btnadminhomepage.Click
    Response.Redirect("AdminHomePage.aspx")
End Sub
End Class
```



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

```
<!DOCTYPE html>
```

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

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

```
    <title>Subscription Management</title>
```

```
</head>
```

```
<body>
```

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

```
        <h2>Subscription Management</h2>
```

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

```
        <asp:Panel ID="pnladminsubscriptionmain" runat="server">
```

```
            <br />
```

```
            <asp:Button ID="btnViewSubscriptions" runat="server" Text="View Subscribers" Width="201px" />
```

```
            <br />
```

```
            <br />
```

```
            <asp:Button ID="btnviesubscriptionplans" runat="server" Text="View Subscription Plans" Width="200px" />
```

```
            <br />
```

```
            <br />
```

```
            <asp:Button ID="btnAddSubscription" runat="server" Text="Add Subscription Plan" Width="200px" />
```

```
            <br />
```

```
            <br />
```

```
            <asp:Button ID="btnDeleteSubscription" runat="server" Text="Delete Subscription Plan" Width="200px" />
```

```
            <br />
```

```
            <br />
```

```
            <asp:Button ID="btnmanagediscount" runat="server" Text="Manage Discounts" Width="199px" /><br />
```

```
            <br />
```

```
        </asp:Panel>
```

```
        <asp:Panel ID="pnlsubscribers" runat="server" Visible="False">
```

```
            <div class="grid">
```

```
                <asp:GridView ID="grdvsubscribers" runat="server" AutoGenerateColumns="False" ShowHeaderWhenEmpty="True" EmptyDataText="No records found.">
```

```
                    <Columns>
```

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

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

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

```
                    </Columns>
```

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

```
            <br />
```

```
        </div>
```

```
    </asp:Panel>
```

```

<asp:Panel ID="pnladdsubscription" runat="server" Visible="False">
    <h3>&nbsp;</h3>
    <h3>Add Subscription Plan</h3>
    <asp:Label ID="lblplanname" runat="server" Text="Software Name" /><br />
    <input id="txtplanname" type="text" runat="server" />
    <br />
    <br />

    <asp:Label ID="lblplandescription" runat="server" Text="Features List" /><br />
    <input id="txtplandescription" type="text" runat="server" />
    <br />
    <br />

    <asp:Label ID="lblplanlevel" runat="server" Text="Plan Level" /><br />
    <input id="txtplanlevel" type="text" runat="server" />
    <br />
    <br />

    <asp:Label ID="lblpricepermonth" runat="server" Text="Price Per Month" /><br />
    <input id="txtpricepermonth" type="text" runat="server" />
    <br />
    <br />

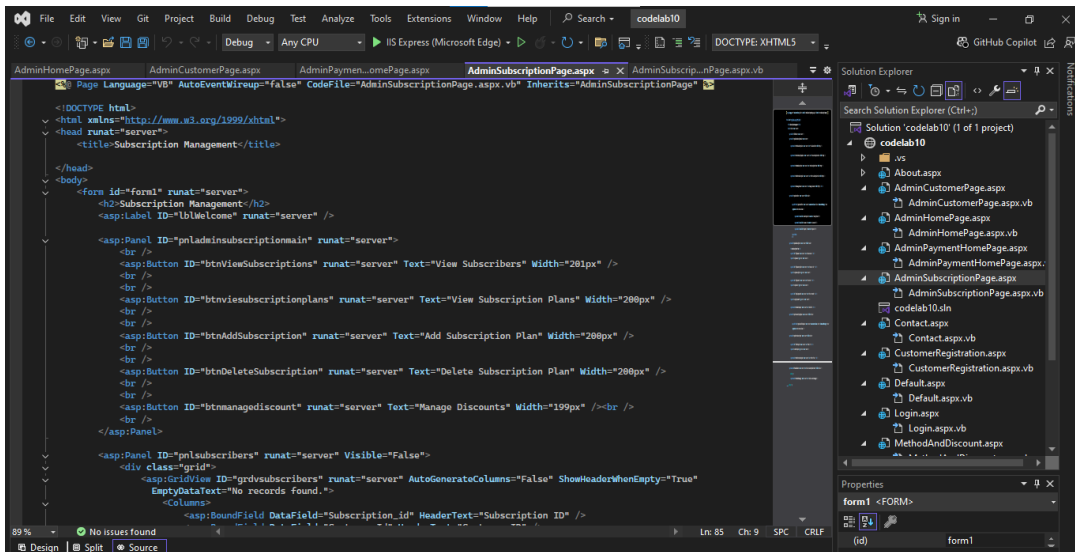
    <asp:Button ID="btnsubmitnewplan" runat="server" Text="Add Plan" /><br />
</asp:Panel>

<asp:Panel ID="pnlviewssubscriptionplans" runat="server" Visible="False">
    <div class="grid">
        <asp:GridView ID="grdvsuscriptionplans" runat="server" AutoGenerateColumns="True" ShowHeaderWhenEmpty="True" EmptyDataText="No
records found." />
    </div>
</asp:Panel>

<asp:Panel ID="pnldeletesubscription" runat="server" Visible="False">
    <h3>Delete Subscription Plan</h3>
    <asp:Label ID="lbldeleteplan" runat="server" Text="Plan ID" /><br />
    <input id="txtdeleteplan" type="text" runat="server" />
    <br />
    <br />
    <asp:Button ID="btndeletesoftwareplan" runat="server" Text="Delete Plan" /><br />
</asp:Panel>
<br /> <br />

<asp:Button ID="btnadminhome" runat="server" Text="Back to Subscription Panel" Visible="False" />
<p>
    &nbsp;</p>
<p>
    <asp:Button ID="btnadminhomepage" runat="server" Text="Back to admin Homepage" />
</p>
</form>
<p>
    &nbsp;</p></body></html>

```



Adminpaymentspage

Imports System.Data
Imports System.Data.SqlClient

Partial Class AdminPaymentHomePage
Inherits System.Web.UI.Page

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

If Session("Email") Is Nothing OrElse Session("Role") Is Nothing Then
Response.Redirect("Login.aspx?msg=Please login to continue.")
Return
End If

If Session("Role").ToString() <> "Admin" Then

Response.Redirect("Login.aspx?msg=You must log in as Admin to access this page.")
Return
End If

lblWelcome.Text = "Welcome Admin: " & Session("Email").ToString()
LoadPaymentData()
End Sub

Private Sub LoadPaymentData()
Dim connStr As String = "workstation id=zoyazahradb.mssql.somee.com;packet size=4096;user id=ZoyaZahra_SQLLogin_1;pwd=fjlk3wtfa3;data source=zoyazahradb.mssql.somee.com;persist security info=False;initial catalog=zoyazahradb;TrustServerCertificate=True"

Dim query As String = "SELECT " &
"c.Name AS CustomerName, " &
"c.Email AS CustomerEmail, " &
"c.Country, " &
"c.Cell_NO AS PhoneNumber, " &
"s.Subscription_Id, " &
"p.Payment_Id, " &
"p.Account_No, " &
"p.Payment_Timestamp, " &
"m.Method_Name AS PaymentMethod " &
"FROM Customer c " &
"INNER JOIN Subscriptions s ON c.Customer_Id = s.Customer_Id " &
"INNER JOIN Payments p ON s.Payment_Id = p.Payment_Id " &
"INNER JOIN Method m ON p.Method_Id = m.Method_Id " &
"ORDER BY c.Name"

Using con As New SqlConnection(connStr)
Using cmd As New SqlCommand(query, con)
Using da As New SqlDataAdapter(cmd)
Dim dt As New DataTable()
da.Fill(dt)

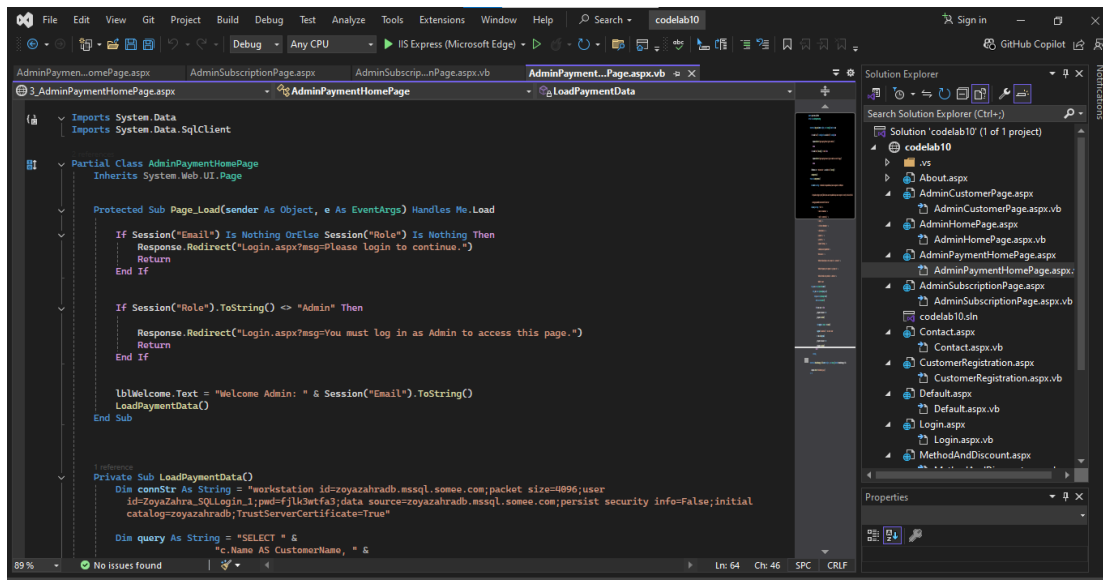
If dt.Rows.Count > 0 Then
gvPayments.DataSource = dt
gvPayments.DataBind()

Else

Dim emptyRow As DataRow = dt.NewRow()
emptyRow("CustomerName") = "No records found"
dt.Rows.Add(emptyRow)
gvPayments.DataSource = dt
gvPayments.DataBind()

End If
End Using
End Using
End Using
End Sub

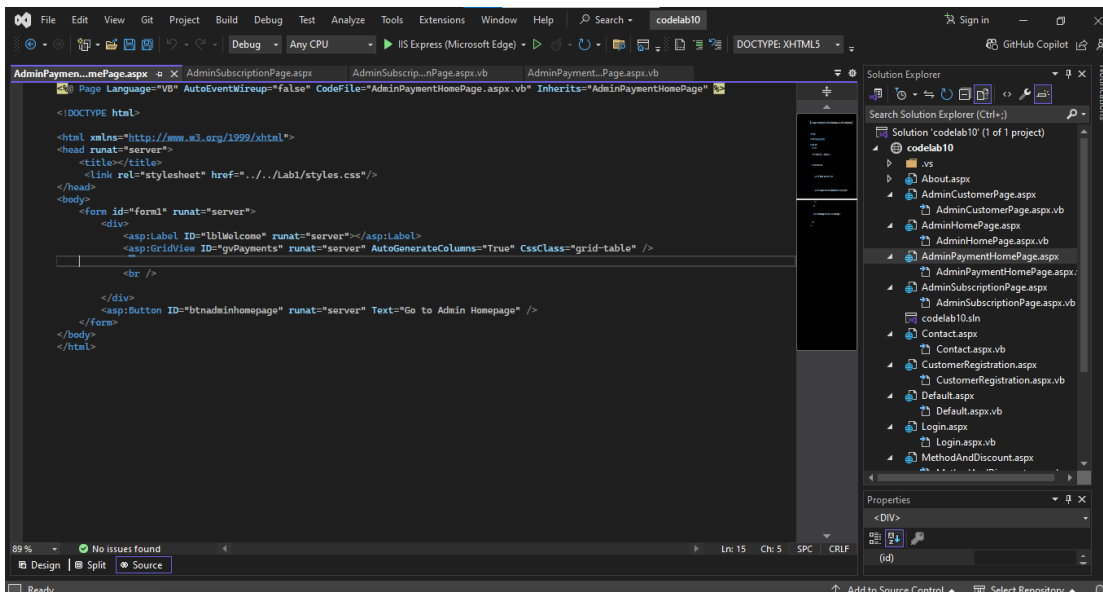
```
Protected Sub btnadminhomepage_Click(sender As Object, e As EventArgs) Handles btnadminhomepage.Click
    Response.Redirect("AdminHomePage.aspx")
End Sub
End Class
```



```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="AdminPaymentHomePage.aspx.vb" Inherits="AdminPaymentHomePage" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <link rel="stylesheet" href="../../Lab1/styles.css"/>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:Label ID="lblWelcome" runat="server"></asp:Label>
            <asp:GridView ID="gvPayments" runat="server" AutoGenerateColumns="True" CssClass="grid-table" />

            <br />

        </div>
        <asp:Button ID="btnadminhomepage" runat="server" Text="Go to Admin Homepage" />
    </form>
</body>
</html>
```



Methods and Discounts:

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

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

```
    Dim cons As String = "workstation id=zoyazahradb.mssql.somee.com;packet size=4096;user id=ZoyaZahra_SQLLogin_1;pwd=fjlk3wtfa3;data source=zoyazahradb.mssql.somee.com;persist security info=False;initial catalog=zoyazahradb;TrustServerCertificate=True"
```

```
    Private Sub HideAllPanels()
        pnlmain.Visible = False
        pnlviewpaymentmethods.Visible = False
        pnladdpaymentmethod.Visible = False
        pnlremovepaymentmethod.Visible = False
        pnlviewdiscount.Visible = False
        pnladddiscount.Visible = False
        pnldeletediscount.Visible = False
    End Sub
```

```
    Protected Sub Page_Load(sender As Object, e As EventArgs) Handles Me.Load
        If Not IsPostBack Then
            If Session("Email") Is Nothing OrElse Session("Role") Is Nothing Then
                Response.Redirect("Login.aspx?msg=Please login to continue.")
                Return
            End If

            If Session("Role").ToString() <> "Admin" Then
                Response.Redirect("Login.aspx?msg=You must log in as Admin to access this page.")
                Return
            End If

            lblwelcome.Text = "Welcome Admin: " & Session("Email").ToString()
        End If
    End Sub
```

```
    Protected Sub btnViewPaymentMethods_Click(sender As Object, e As EventArgs) Handles btnViewPaymentMethods.Click
        HideAllPanels()
        pnlviewpaymentmethods.Visible = True
        Dim con As New SqlConnection(cons)
        Dim cmd As New SqlCommand("SELECT * FROM Method", con)
        Dim da As New SqlDataAdapter(cmd)
        Dim dt As New DataTable()

        Try
            con.Open()
            da.Fill(dt)
            grdvPaymentMethods.DataSource = dt
            grdvPaymentMethods.DataBind()
        Catch ex As Exception
            Response.Write("Error loading payment methods: " & ex.Message)
        Finally
            con.Close()
            cmd.Dispose()
        End Try
    End Sub
```

```
    Protected Sub btnSubmitPaymentMethod_Click(sender As Object, e As EventArgs) Handles btnSubmitPaymentMethod.Click
        Dim methodName As String = txtMethodName.Text.Trim()

        If String.IsNullOrEmpty(methodName) Then
            Response.Write("<script>alert('Method name cannot be empty.');
```

End If

```
Dim con As New SqlConnection(cons)
Dim cmdGetMaxId As New SqlCommand("SELECT ISNULL(MAX(Method_Id), 0) FROM Method", con)
Dim newId As Integer = 1
```

```
Try
    con.Open()
    newId = Convert.ToInt32(cmdGetMaxId.ExecuteScalar()) + 1

    Dim cmdInsert As New SqlCommand("INSERT INTO Method (Method_Id, Method_Name) VALUES (@id, @name)", con)
    cmdInsert.Parameters.AddWithValue("@id", newId)
    cmdInsert.Parameters.AddWithValue("@name", methodName)
    cmdInsert.ExecuteNonQuery()

    Response.Write("<script>alert('Payment method added successfully.');"</script>")

Catch ex As Exception
    Response.Write("<script>alert('Error adding payment method: " & ex.Message.Replace("'", "\"") & "');"</script>")
Finally
    con.Close()
End Try
End Sub
```

Protected Sub btnDeletePaymentMethod_Click(sender As Object, e As EventArgs) Handles btnDeletePaymentMethod.Click

```
Dim methodId As Integer
Dim inputId As String = txtRemoveMethodId.Text.Trim()
```

```
If String.IsNullOrEmpty(inputId) Then
    Response.Write("<script>alert('Please enter a Method ID.');"</script>")
    Return
ElseIf Not Integer.TryParse(inputId, methodId) OrElse methodId <= 0 Then
    Response.Write("<script>alert('Please enter a valid positive Method ID.');"</script>")
    Return
End If
```

```
Dim con As New SqlConnection(cons)
Dim cmd As New SqlCommand("DELETE FROM Method WHERE Method_Id = @id", con)
cmd.Parameters.AddWithValue("@id", methodId)
```

```
Try
    con.Open()
    Dim rowsAffected = cmd.ExecuteNonQuery()
    If rowsAffected > 0 Then
        Response.Write("<script>alert('Payment method deleted successfully.');"</script>")
    Else
        Response.Write("<script>alert('No method found with the given ID.');"</script>")
    End If
Catch ex As Exception
    Response.Write("<script>alert('Error deleting method: " & ex.Message.Replace("'", "\"") & "');"</script>")
Finally
    con.Close()
End Try
End Sub
```

Protected Sub btnViewDiscounts_Click(sender As Object, e As EventArgs) Handles btnViewDiscounts.Click

```
HideAllPanels()
pnViewDiscount.Visible = True
Dim con As New SqlConnection(cons)
Dim cmd As New SqlCommand("SELECT * FROM discount_on_duration", con)
Dim da As New SqlDataAdapter(cmd)
Dim dt As New DataTable()
```

```
Try
    con.Open()
    da.Fill(dt)
    grdViewDiscount.DataSource = dt
    grdViewDiscount.DataBind()
End Try
```

```

Catch ex As Exception
    Response.Write("Error loading discounts: " & ex.Message)
Finally
    con.Close()
End Try
End Sub

```

```

Protected Sub btnSubmitDiscount_Click(sender As Object, e As EventArgs) Handles btnSubmitDiscount.Click

```

```

    Dim durationInput As String = txtPlanID.Text.Trim()
    Dim percentInput As String = txtDiscountPercent.Text.Trim()
    Dim duration As Integer
    Dim percent As Integer

```

```

    If String.IsNullOrEmpty(durationInput) OrElse String.IsNullOrEmpty(percentInput) Then
        Response.Write("<script>alert('Please fill in both duration and discount percent fields.');

```

```

    If Not Integer.TryParse(durationInput, duration) Then
        Response.Write("<script>alert('Invalid duration. Please enter a valid number.');

```

```

    If Not Integer.TryParse(percentInput, percent) Then
        Response.Write("<script>alert('Invalid discount percent. Please enter a valid number.');

```

```

    Dim con As New SqlConnection(cons)
    Dim cmdCheck As New SqlCommand("SELECT COUNT(*) FROM discount_on_duration WHERE Duration = @duration", con)
    cmdCheck.Parameters.AddWithValue("@duration", duration)

```

```

Try
    con.Open()
    Dim exists = Convert.ToInt32(cmdCheck.ExecuteScalar())
    If exists > 0 Then
        Response.Write("<script>alert('This duration already exists. Please delete it first to insert a new discount.');

```

```

    Dim cmdInsert As New SqlCommand("INSERT INTO discount_on_duration (Duration, Percent_Discount) VALUES (@dur, @perc)", con)
    cmdInsert.Parameters.AddWithValue("@dur", duration)
    cmdInsert.Parameters.AddWithValue("@perc", percent)
    cmdInsert.ExecuteNonQuery()

```

```

    Response.Write("<script>alert('Discount added successfully.');

```

```

Protected Sub btnDeleteDiscount_Click(sender As Object, e As EventArgs) Handles btnDeleteDiscount.Click

```

```

    HideAllPanels()
    pnldeletediscount.Visible = True
End Sub

```

```

Protected Sub btnAddPaymentMethod_Click(sender As Object, e As EventArgs) Handles btnAddPaymentMethod.Click

```

```

    HideAllPanels()
    pnladdpaymentmethod.Visible = True
End Sub

```

```

Protected Sub btnRemovePaymentMethod_Click(sender As Object, e As EventArgs) Handles btnRemovePaymentMethod.Click

```

```

    HideAllPanels()
    pnlremovepaymentmethod.Visible = True
End Sub

```

```

Protected Sub btnAddDiscount_Click(sender As Object, e As EventArgs) Handles btnAddDiscount.Click

```

```

HideAllPanels()
pnladddiscount.Visible = True
End Sub

```

```

Protected Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
    Dim durationInput As String = txtDeleteDiscountId.Text.Trim()
    Dim duration As Integer

```

```

    If String.IsNullOrEmpty(durationInput) Then
        Response.Write("<script>alert('Please enter a duration to delete.');

```

```

    If Not Integer.TryParse(durationInput, duration) Then
        Response.Write("<script>alert('Enter a valid numeric duration.');

```

```

    Dim con As New SqlConnection(cons)
    Dim cmd As New SqlCommand("DELETE FROM discount_on_duration WHERE Duration = @duration", con)
    cmd.Parameters.AddWithValue("@duration", duration)

```

```

Try
    con.Open()
    Dim rows = cmd.ExecuteNonQuery()
    If rows > 0 Then
        Response.Write("<script>alert('Discount deleted successfully.');

```

```

Protected Sub btnhomemethodandpayment_Click(sender As Object, e As EventArgs) Handles btnhomemethodandpayment.Click
    HideAllPanels()
    pnlmain.Visible = True

```

```

End Sub

```

```

Protected Sub btnadminhomepage_Click(sender As Object, e As EventArgs) Handles btnadminhomepage.Click
    Response.Redirect("AdminHomePage.aspx")

```

```

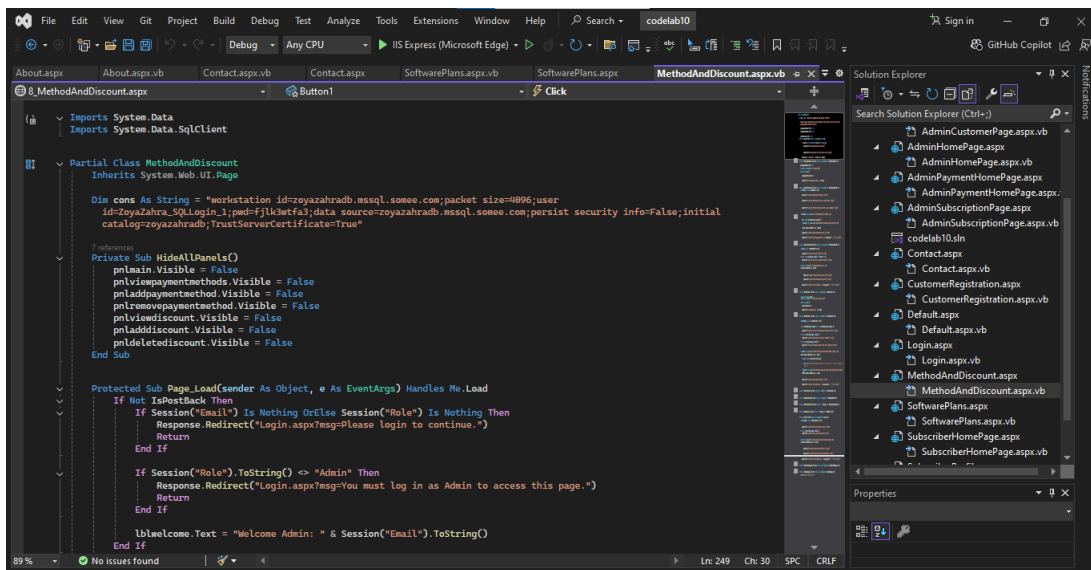
End Sub

```

```

End Class

```



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

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

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

<div>

<h2>Manage Payment Methods and Discounts</h2>

<asp:Label ID="lblwelcome" runat="server" Text="Welcome, Admin!"></asp:Label>

<hr />

<asp:Panel ID="pnlmain" runat="server" CssClass="panel-box">

<asp:Button ID="btnViewPaymentMethods" runat="server" Text="View Payment Methods" Width="200px" />

<asp:Button ID="btnAddPaymentMethod" runat="server" Text="Add Payment Method" Width="200px" />

<asp:Button ID="btnRemovePaymentMethod" runat="server" Text="Remove Payment Method" Width="195px" />

<asp:Button ID="btnViewDiscounts" runat="server" Text="View Discounts" Width="194px" />

<asp:Button ID="btnAddDiscount" runat="server" Text="Add Discount" Width="193px" />

<asp:Button ID="btnDeleteDiscount" runat="server" Text="Delete Discount" Width="192px" />

</asp:Panel>

<asp:Panel ID="pnlviewpaymentmethods" runat="server" CssClass="panel-box" Visible="False">

<h3>Available Payment Methods</h3>

<asp:GridView ID="grdvPaymentMethods" runat="server" AutoGenerateColumns="True" EmptyDataText="No payment methods found." />
</asp:Panel>

<asp:Panel ID="pnladdpaymentmethod" runat="server" CssClass="panel-box" Visible="False">

<h3>Add a New Payment Method</h3>

<asp:Label ID="lblMethodName" runat="server" Text="Method Name:" />

<asp:TextBox ID="txtMethodName" runat="server" Width="300px" />

<asp:Button ID="btnSubmitPaymentMethod" runat="server" Text="Add Method" />

</asp:Panel>

<asp:Panel ID="pnlremovepaymentmethod" runat="server" CssClass="panel-box" Visible="False">

<h3>Remove Payment Method</h3>

<asp:Label ID="lblRemoveMethodId" runat="server" Text="Method ID to remove:" />

<asp:TextBox ID="txtRemoveMethodId" runat="server" Width="100px" />

<asp:Button ID="btnDeletePaymentMethod" runat="server" Text="Delete Method" />

</asp:Panel>

<asp:Panel ID="pnlviewdiscount" runat="server" CssClass="panel-box" Visible="False">

<h3>All Discounts</h3>

<asp:GridView ID="grdvdiscount" runat="server" AutoGenerateColumns="True" EmptyDataText="No discounts found." />
</asp:Panel>

<asp:Panel ID="pnladddiscount" runat="server" CssClass="panel-box" Visible="False">

<h3>Add Discount</h3>

<asp:Label ID="lblPlanID" runat="server" Text="Month Duration:" />

<asp:TextBox ID="txtPlanID" runat="server" />

<asp:Label ID="lblDiscountPercent" runat="server" Text="Discount Percentage:" />

<asp:TextBox ID="txtDiscountPercent" runat="server" />

<asp:Button ID="btnSubmitDiscount" runat="server" Text="Apply Discount" />

</asp:Panel>

<asp:Panel ID="pnldeletediscount" runat="server" CssClass="panel-box" Visible="False">

<h3>Delete Discount</h3>

<asp:Label ID="lblDeleteDiscountId" runat="server" Text="Discount ID to delete:" />

<asp:TextBox ID="txtDeleteDiscountId" runat="server" />

<asp:Button ID="Button1" runat="server" Text="Delete Discount" />

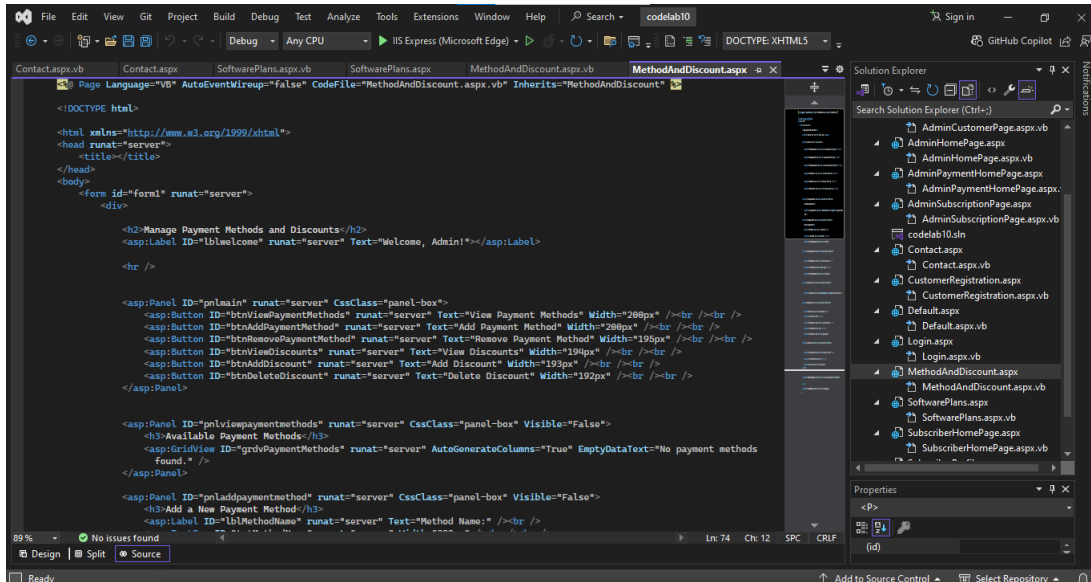
</asp:Panel>

</div>

```

<p>
    &nbsp;   </p>
<p>
    <asp:Button ID="btnhomemethodandpayment" runat="server" Text="Go to Methods And Payment Panel" Width="244px" />
</p>
<p>
    &nbsp;   </p>
<p>
    <asp:Button ID="btnadminhomepage" runat="server" Text="Go to Admin Homepage" />
</p>
</form>
</body>
</html>

```



Customer Registratiopn:

Imports System
Imports System.Data
Imports System.Data.SqlClient
Imports System.Web.UI
Imports System.Text.RegularExpressions
Imports System.Security.Cryptography
Partial Class CustomerRegistration
Inherits Page

Protected Sub btnRegister_Click(ByVal sender As Object, ByVal e As EventArgs) Handles btnRegister.Click

```

Dim name As String = txtName.Text.Trim()
Dim email As String = txtEmail.Text.Trim()
Dim cellNo As String = txtCellNo.Text.Trim()
Dim country As String = txtCountry.Text.Trim()
Dim password As String = txtPassword.Text.Trim()
Dim confirmPassword As String = txtConfirmPassword.Text.Trim()

```

```

If String.IsNullOrEmpty(name) OrElse
String.IsNullOrEmpty(email) OrElse
String.IsNullOrEmpty(cellNo) OrElse
String.IsNullOrEmpty(country) OrElse
String.IsNullOrEmpty(password) OrElse
String.IsNullOrEmpty(confirmPassword) Then

```

```

    lblMessage.Text = "Please fill in all fields before registering."
    Exit Sub
End If

```

```

If Not Regex.IsMatch(country, "^[A-Za-z]{2}$") Then

```

```
lblMessage.Text = "Country must be exactly 2 letters (e.g., 'US', 'PK')."
Exit Sub
End If
```

```
If Not Regex.IsMatch(email, "^[A-Za-z0-9._%+-]+@[A-Za-z0-9.-]+\.[A-Za-z]{2,}$") Then
    lblMessage.Text = "Please enter a valid email address."
    Exit Sub
End If
```

```
If password.Length < 8 Then
    lblMessage.Text = "Password must be at least 8 characters long."
    Exit Sub
End If
```

```
Dim hasUpper As Boolean = Regex.IsMatch(password, "[A-Z]")
Dim hasLower As Boolean = Regex.IsMatch(password, "[a-z]")
Dim hasDigit As Boolean = Regex.IsMatch(password, "\d")
Dim hasSpecial As Boolean = Regex.IsMatch(password, "[^A-Za-z0-9]")
```

```
Dim strengthCount As Integer = 0
If hasUpper Then strengthCount += 1
If hasLower Then strengthCount += 1
If hasDigit Then strengthCount += 1
If hasSpecial Then strengthCount += 1
```

```
If strengthCount < 2 Then
    lblMessage.Text = "Password must include at least two of the following: uppercase letters, lowercase letters, digits, special characters."
    Exit Sub
End If
```

```
If password <> confirmPassword Then
    lblMessage.Text = "Passwords do not match. Please re-enter."
    Exit Sub
End If
```

```
Dim cons As String = "workstation id=zoyazahradb.mssql.somee.com;packet size=4096;user id=ZoyaZahra_SQLLogin_1;pwd=fjlk3wtfa3;data source=zoyazahradb.mssql.somee.com;persist security info=False;initial catalog=zoyazahradb;TrustServerCertificate=True"
```

```
Dim con As New SqlConnection(cons)
Dim cmd As New SqlCommand()
cmd.Connection = con
```

```
Try
    con.Open()
```

```
cmd.CommandText = "SELECT MAX(CAST(SUBSTRING(Customer_Id, 2, LEN(Customer_Id) - 1) AS INT)) FROM Customer"
cmd.Parameters.Clear()
Dim maxIdObj As Object = cmd.ExecuteScalar()
```

```
Dim nextNumericId As Integer = 1
If Not IsDBNull(maxIdObj) Then
    nextNumericId = Convert.ToInt32(maxIdObj) + 1
End If
```

```
Dim newId As String = "C" & nextNumericId.ToString()
```

```
Dim hashedPassword As String = HashPassword(password)
```

```
cmd.CommandText = "INSERT INTO Customer (Customer_Id, Email, Name, Cell_NO, Country, password) " &
    "VALUES (@Customer_Id, @Email, @Name, @Cell_NO, @Country, @password)"
cmd.Parameters.Clear()
cmd.Parameters.AddWithValue("@Customer_Id", newId)
cmd.Parameters.AddWithValue("@Email", email)
cmd.Parameters.AddWithValue("@Name", name)
cmd.Parameters.AddWithValue("@Cell_NO", cellNo)
cmd.Parameters.AddWithValue("@Country", country)
cmd.Parameters.AddWithValue("@password", hashedPassword)
```

```
cmd.ExecuteNonQuery()
```

```
lblMessage.Text = "Registration successful! Customer ID: " & newId
```

```
Catch ex As Exception
```

```
lblMessage.Text = "Error: " & ex.Message
```

```
Finally
```

```
con.Close()
```

```
End Try
```

```
End Sub
```

```
Private Function HashPassword(password As String) As String
```

```
Using sha256 As SHA256 = SHA256.Create()
```

```
Dim bytes As Byte() = Encoding.UTF8.GetBytes(password)
```

```
Dim hashBytes As Byte() = sha256.ComputeHash(bytes)
```

```
Return Convert.ToBase64String(hashBytes)
```

```
End Using
```

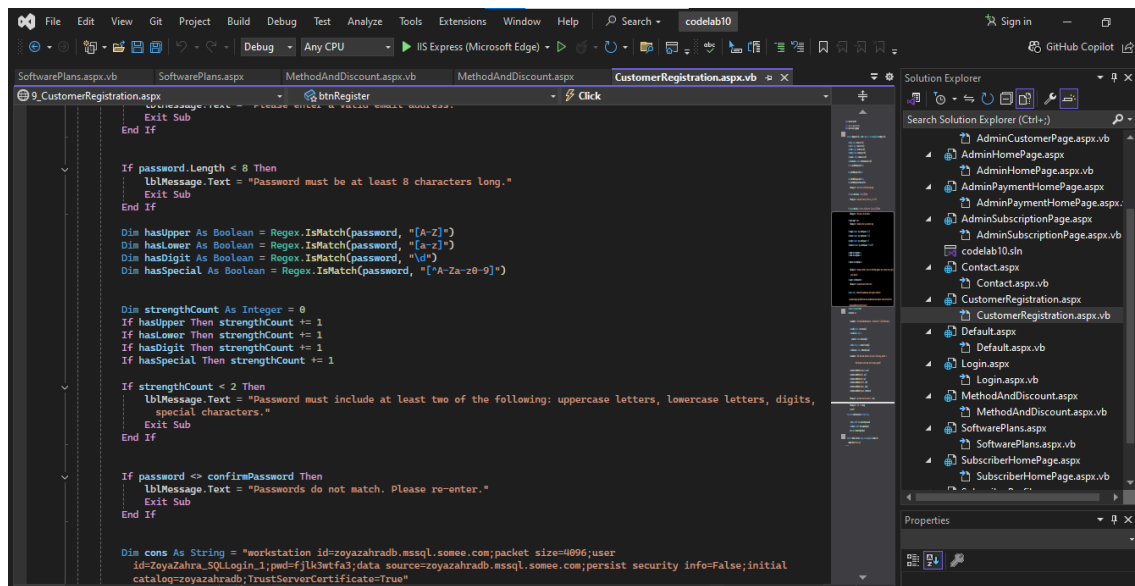
```
End Function
```

```
Protected Sub btnhome_Click(sender As Object, e As EventArgs) Handles btnhome.Click
```

```
Response.Redirect("Default.aspx")
```

```
End Sub
```

```
End Class
```



```
<%@ Page Language="VB" AutoEventWireup="true" CodeFile="CustomerRegistration.aspx.vb" Inherits="CustomerRegistration" %>
```

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

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

```
<link rel="stylesheet" href="../../Lab1/styles.css"/>
```

```
</head>
```

```
<body>
```

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

```
<h2 style="width: 370px">Customer Registration</h2>
```

```
<div class="form-group">
```

```
<label>Name:</label>
```

```
<br />
```

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

```
<br />
```

```
<br />
```

```
</div>
```

```
<div class="form-group">
```

```
<label>Email:<br />
```

```
</label>
```

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

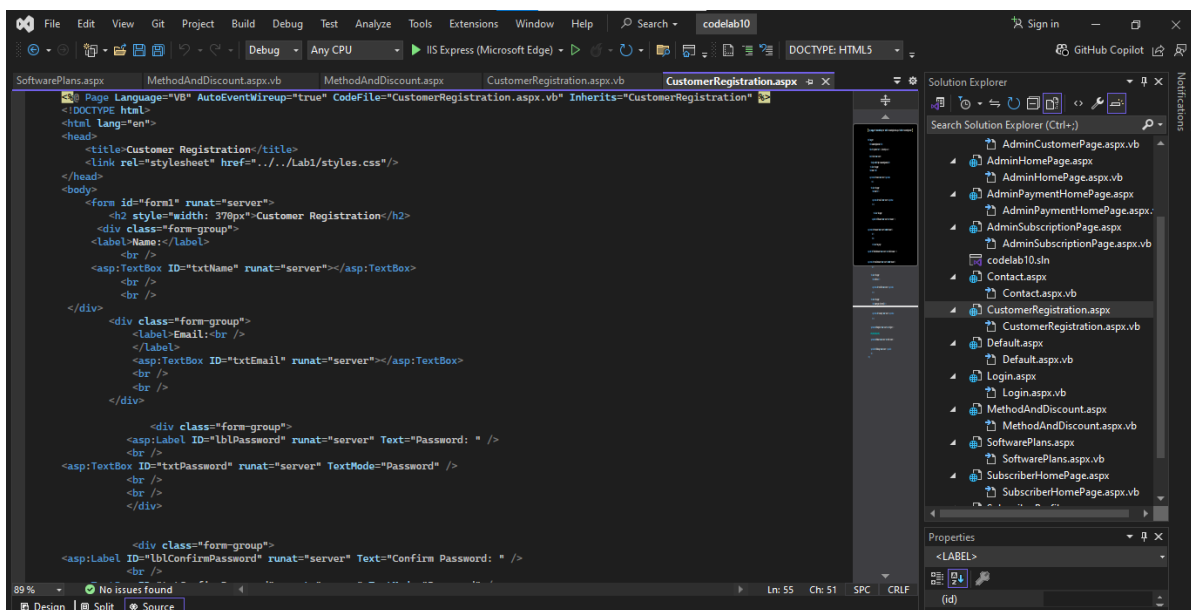
```
<br />
```

```
<br />
```

```
</div>
```

```
<div class="form-group">
  <asp:Label ID="lblPassword" runat="server" Text="Password: " />
  <br />
  <asp:TextBox ID="txtPassword" runat="server" TextMode="Password" />
  <br />
</div>

<div class="form-group">
  <asp:Label ID="lblConfirmPassword" runat="server" Text="Confirm Password: " />
  <br />
  <asp:TextBox ID="txtConfirmPassword" runat="server" TextMode="Password" />
  <br />
</div>
```



Login

```
Imports System
Imports System.Data.SqlClient
Imports System.Security.Cryptography
Imports System.Text
Imports System.Text.RegularExpressions
```

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

```
    Dim cons As String = "workstation id=zoyazahradb.mssql.somee.com;packet size=4096;user id=ZoyaZahra_SQLLogin_1;pwd=fjlk3wtfa3;data
source=zoyazahradb.mssql.somee.com;persist security info=False;initial catalog=zoyazahradb;TrustServerCertificate=True"
```

```
    Protected Sub btnLogin_Click(sender As Object, e As EventArgs) Handles btnLogin.Click
        lblMessage.Text = ""
```

```
    If String.IsNullOrEmpty(txtemail.Text) Or String.IsNullOrEmpty(txtPassword.Text) Then
        lblMessage.Text = "Please enter both email and password."
        Return
    End If
```

```
    Dim emailPattern As String = "^[A-Za-z0-9._%+-]+@[A-Za-z0-9.-]+\.[A-Za-z]{2,}$"
    If Not Regex.IsMatch(txtemail.Text.Trim(), emailPattern) Then
        lblMessage.Text = "Please enter a valid email address."
        Return
    End If
```

```
    Dim email As String = txtemail.Text.Trim()
    Dim password As String = txtPassword.Text.Trim()
    Dim hashedPassword As String = ComputeSha256Hash(password)
    Dim userType As String = rbUserType.SelectedValue
```

```
    Using con As New SqlConnection(cons)
        con.Open()
```

```
    If userType = "Subscriber" Then
        Dim failedAttempts As Integer = 0
        Dim isLocked As Boolean = False
        Dim lastFailedLogin As DateTime = DateTime.MinValue
```

```
    Dim cmdCheck As New SqlCommand("SELECT FailedLoginAttempts, IsLocked, LastFailedLogin FROM Customer WHERE Email = @Email", con)
    cmdCheck.Parameters.AddWithValue("@Email", email)
```

```
    Using reader As SqlDataReader = cmdCheck.ExecuteReader()
        If Not reader.HasRows Then
            lblMessage.Text = "Email not found."
            Return
        End If
        reader.Read()
        failedAttempts = If(IsDBNull(reader("FailedLoginAttempts")), 0, Convert.ToInt32(reader("FailedLoginAttempts")))
        isLocked = If(IsDBNull(reader("IsLocked")), False, Convert.ToBoolean(reader("IsLocked")))
        lastFailedLogin = If(IsDBNull(reader("LastFailedLogin")), DateTime.MinValue, Convert.ToDateTime(reader("LastFailedLogin")))
    End Using
```

```
    If isLocked Then
        Dim minutesPassed As Double = (DateTime.Now - lastFailedLogin).TotalMinutes
        If minutesPassed < 1 Then
            lblMessage.Text = "Account is locked. Try again after 1 minutes."
            Return
        Else

            ResetFailedLogin(con, email)
            failedAttempts = 0
            isLocked = False
        End If
    End If
```

```
    Dim cmdPassCheck As New SqlCommand("SELECT COUNT(*) FROM Customer WHERE Email = @Email AND Password = @Password", con)
    cmdPassCheck.Parameters.AddWithValue("@Email", email)
    cmdPassCheck.Parameters.AddWithValue("@Password", hashedPassword)
```

```

Dim count As Integer = Convert.ToInt32(cmdPassCheck.ExecuteScalar())

If count > 0 Then

    ResetFailedLogin(con, email)
    Session("Email") = email
    Session("Role") = userType
    Response.Redirect("SubscriberHomePage.aspx")
Else

    failedAttempts += 1
    If failedAttempts >= 3 Then
        LockUserAccount(con, email)
        lblMessage.Text = "Your account has been locked due to 3 failed login attempts."
    Else
        UpdateFailedLogin(con, email, failedAttempts)
        lblMessage.Text = "Invalid password. Attempts remaining: " & (3 - failedAttempts).ToString()
    End If
End If

ElseIf userType = "Admin" Then

    Dim cmdAdmin As New SqlCommand("SELECT COUNT(*) FROM Admin WHERE Email = @Email AND Password = @Password", con)
    cmdAdmin.Parameters.AddWithValue("@Email", email)
    cmdAdmin.Parameters.AddWithValue("@Password", hashedPassword)
    Dim adminCount As Integer = Convert.ToInt32(cmdAdmin.ExecuteScalar())

    If adminCount > 0 Then
        Session("Email") = email
        Session("Role") = userType
        Response.Redirect("AdminHomePage.aspx")
    Else
        lblMessage.Text = "Invalid admin credentials."
    End If
Else
    lblMessage.Text = "Invalid user type selected."
End If
End Using
End Sub

Private Sub UpdateFailedLogin(con As SqlConnection, email As String, failedAttempts As Integer)
    Dim query As String = "UPDATE Customer SET FailedLoginAttempts = @FailedAttempts, LastFailedLogin = @LastFailedLogin WHERE Email = @Email"
    Using cmd As New SqlCommand(query, con)
        cmd.Parameters.AddWithValue("@Email", email)
        cmd.Parameters.AddWithValue("@FailedAttempts", failedAttempts)
        cmd.Parameters.AddWithValue("@LastFailedLogin", DateTime.Now)
        cmd.ExecuteNonQuery()
    End Using
End Sub

Private Sub ResetFailedLogin(con As SqlConnection, email As String)
    Dim query As String = "UPDATE Customer SET FailedLoginAttempts = 0, LastFailedLogin = NULL, IsLocked = 0 WHERE Email = @Email"
    Using cmd As New SqlCommand(query, con)
        cmd.Parameters.AddWithValue("@Email", email)
        cmd.ExecuteNonQuery()
    End Using
End Sub

Private Sub LockUserAccount(con As SqlConnection, email As String)
    Dim query As String = "UPDATE Customer SET IsLocked = 1, LastFailedLogin = @Now WHERE Email = @Email"
    Using cmd As New SqlCommand(query, con)
        cmd.Parameters.AddWithValue("@Email", email)
        cmd.Parameters.AddWithValue("@Now", DateTime.Now)
        cmd.ExecuteNonQuery()
    End Using
End Sub

Private Function ComputeSha256Hash(rawData As String) As String
    Using sha256 As SHA256 = SHA256.Create()
        Dim bytes As Byte() = sha256.ComputeHash(Encoding.UTF8.GetBytes(rawData))
    End Using
End Function

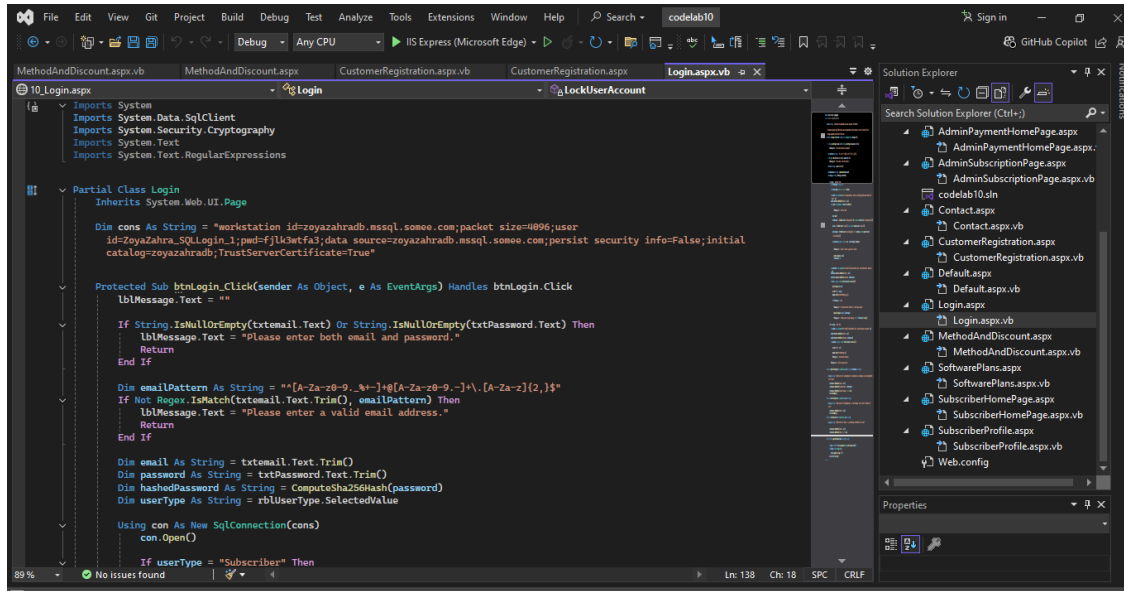
```

```

Dim builder As New StringBuilder()
For Each b As Byte In bytes
    builder.Append(b.ToString("x2"))
Next
Return builder.ToString()
End Using
End Function

```

End Class

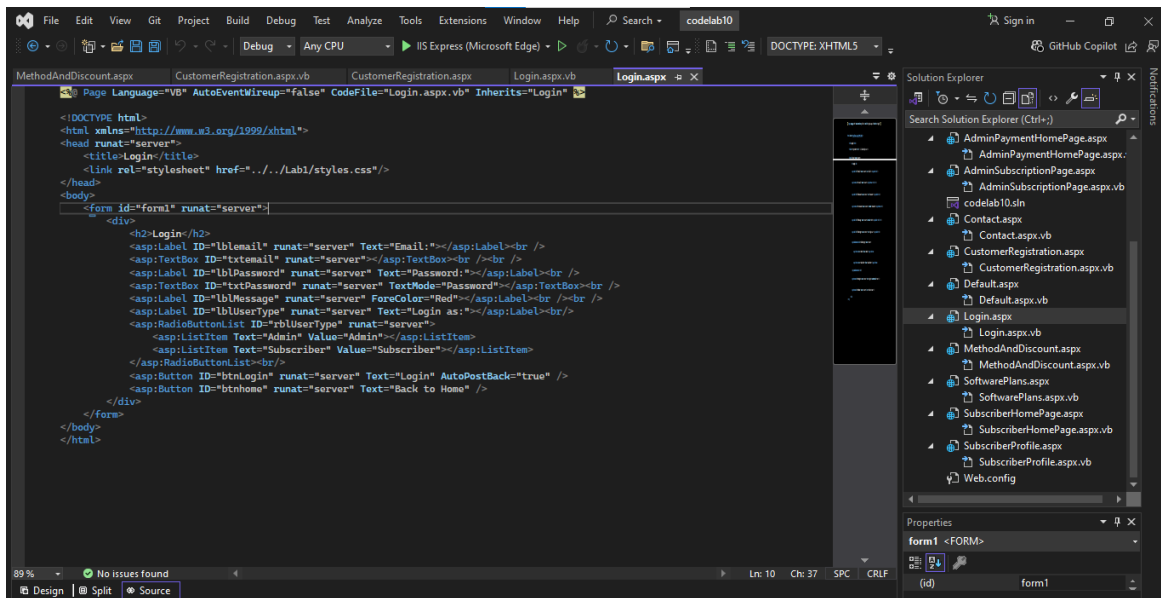


```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="Login.aspx.vb" Inherits="Login" %>
```

```

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Login</title>
    <link rel="stylesheet" href="../../../Lab1/styles.css"/>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <h2>Login</h2>
            <asp:Label ID="lblEmail" runat="server" Text="Email:"></asp:Label><br />
            <asp:TextBox ID="txtEmail" runat="server"></asp:TextBox><br />
            <asp:Label ID="lblPassword" runat="server" Text="Password:"></asp:Label><br />
            <asp:TextBox ID="txtPassword" runat="server" TextMode="Password"></asp:TextBox><br />
            <asp:Label ID="lblMessage" runat="server" ForeColor="Red"></asp:Label><br />
            <asp:Label ID="lblUserType" runat="server" Text="Login as:"></asp:Label><br />
            <asp:RadioButtonList ID="rbUserType" runat="server">
                <asp:ListItem Text="Admin" Value="Admin"></asp:ListItem>
                <asp:ListItem Text="Subscriber" Value="Subscriber"></asp:ListItem>
            </asp:RadioButtonList><br />
            <asp:Button ID="btnLogin" runat="server" Text="Login" AutoPostBack="true" />
            <asp:Button ID="btnHome" runat="server" Text="Back to Home" />
        </div>
    </form>
</body>
</html>

```



Subscriber Homepage

Imports System
Imports System.Transactions
Imports System.Data
Imports System.Data.SqlClient
Imports System.Web.UI
Partial Class SubscriberHomePage
Inherits Page

Dim cons As String = "workstation id=zoyazahradb.mssql.somee.com;packet size=4096;user id=ZoyaZahra_SQLLogin_1;pwd=fjlk3wtfa3;data source=zoyazahradb.mssql.somee.com;persist security info=False;initial catalog=zoyazahradb;TrustServerCertificate=True"
Protected Sub Page_Load(sender As Object, e As EventArgs) Handles Me.Load

If Session("Email") Is Nothing OrElse Session("Role") Is Nothing Then
Response.Redirect("Login.aspx?msg=Please login to continue.")
Return
End If

If Session("Role").ToString() <> "Subscriber" Then

Response.Redirect("Login.aspx?msg=You must log in as Subscriber to access this page.")
Return
End If

lblWelcome.Text = "Welcome Subscriber: " & Session("Email").ToString()

If Not IsPostBack Then
LoadUniqueProducts()
End If

If Not IsPostBack Then
LoadPaymentMethods()
LoadDurations()
End If

End Sub

Private Sub LoadPaymentMethods()

Using con As New SqlConnection(cons)
Dim cmd As New SqlCommand("SELECT Method_Id, Method_Name FROM Method", con)
con.Open()
ddlMethod.DataSource = cmd.ExecuteReader()
ddlMethod.DataTextField = "Method_Name"
ddlMethod.DataValueField = "Method_Id"
ddlMethod.DataBind()
End Using

End Sub

Private Sub LoadDurations()

Using con As New SqlConnection(cons)

```

Dim cmd As New SqlCommand("SELECT Duration FROM Discount_On_Duration", con)
con.Open()
ddlDuration.DataSource = cmd.ExecuteReader()
ddlDuration.DataTextField = "Duration"
ddlDuration.DataValueField = "Duration"
ddlDuration.DataBind()
End Using
End Sub
Protected Sub btnProfile_Click(sender As Object, e As EventArgs)
    Response.Redirect("SubscriberProfile.aspx")
End Sub
Protected Sub btnSubscribe_Click(sender As Object, e As EventArgs)

    Dim planId As String = txtPlanId.Text.Trim()
    If String.IsNullOrEmpty(planId) Then
        lblSubscribeError.Text = "Plan ID is required."
        Return
    End If
    Dim accountNo As String = txtAccount.Text.Trim()
    If String.IsNullOrEmpty(accountNo) Then
        lblSubscribeError.Text = "Account number is required."
        Return
    End If
    Dim duration As Integer
    If Not Integer.TryParse(ddlDuration.SelectedValue, duration) OrElse duration <= 0 Then
        lblSubscribeError.Text = "Select a valid duration."
        Return
    End If

    Dim methodId As Integer
    If Not Integer.TryParse(ddlMethod.SelectedValue, methodId) OrElse methodId <= 0 Then
        lblSubscribeError.Text = "Select a valid payment method."
        Return
    End If

    Dim email As String = TryCast(Session("Email"), String)
    If String.IsNullOrEmpty(email) Then
        lblSubscribeError.Text = "Session expired. Please login again."
        Return
    End If

    Try
        Using scope As New TransactionScope()
            Using con As New SqlConnection(cons)
                con.Open()

                Dim custCmd As New SqlCommand("SELECT Customer_Id FROM Customer WHERE Email = @Email", con)
                custCmd.Parameters.AddWithValue("@Email", email)
                Dim customerId As Object = custCmd.ExecuteScalar()
                If customerId Is Nothing Then
                    lblSubscribeError.Text = "Customer not found."
                    Return
                End If
                Dim checkCmd As New SqlCommand("SELECT COUNT(*) FROM Subscriptions s JOIN Subscription_Lines sl ON s.Subscription_Id =
sl.Subscription_Id WHERE s.Customer_Id = @cid AND sl.Software_Plan_Id = @pid", con)
                checkCmd.Parameters.AddWithValue("@cid", customerId)
                checkCmd.Parameters.AddWithValue("@pid", planId)
                If Convert.ToInt32(checkCmd.ExecuteScalar()) > 0 Then
                    lblSubscribeError.Text = "You are already subscribed to this plan."
                    Return
                End If

                Dim discountCmd As New SqlCommand("SELECT Percent_Discount FROM Discount_On_Duration WHERE Duration = @dur", con)
                discountCmd.Parameters.AddWithValue("@dur", duration)
                Dim discountObj = discountCmd.ExecuteScalar()
                Dim discountPercent As Integer = If(IsDBNull(discountObj), 0, Convert.ToInt32(discountObj))

                Dim priceCmd As New SqlCommand("SELECT Price_Per_Month FROM Software_Plan WHERE Software_Plan_Id = @pid", con)
                priceCmd.Parameters.AddWithValue("@pid", planId)
                Dim priceObj = priceCmd.ExecuteScalar()
                If priceObj Is Nothing OrElse IsDBNull(priceObj) Then

```

```

        lblSubscribeError.Text = "Plan not found."
        Return
    End If
    Dim pricePerMonth As Integer = Convert.ToInt32(priceObj)

    Dim totalPrice As Integer = pricePerMonth * duration
    Dim discountedPrice As Integer = totalPrice - (totalPrice * discountPercent / 100)

    Dim getCmd As New SqlCommand("SELECT ISNULL(MAX(Payment_Id), 0) + 1 FROM Payments", con)
    Dim paymentId As Integer = Convert.ToInt32(getCmd.ExecuteScalar())

    Dim payCmd As New SqlCommand("INSERT INTO Payments (Payment_Id, Account_No, Method_Id) VALUES (@pid, @acc, @method)", con)
    payCmd.Parameters.AddWithValue("@pid", paymentId)
    payCmd.Parameters.AddWithValue("@acc", accountNo)
    payCmd.Parameters.AddWithValue("@method", methodId)
    payCmd.ExecuteNonQuery()

    Dim subCmd As New SqlCommand("SELECT ISNULL(MAX(Subscription_Id), 0) + 1 FROM Subscriptions", con)
    Dim newSubId As Integer = Convert.ToInt32(subCmd.ExecuteScalar())

    Dim subCmd As New SqlCommand("INSERT INTO Subscriptions (Subscription_Id, Customer_Id, Payment_Id) VALUES (@sid, @cid, @pid)", con)
    subCmd.Parameters.AddWithValue("@sid", newSubId)
    subCmd.Parameters.AddWithValue("@cid", customerId)
    subCmd.Parameters.AddWithValue("@pid", paymentId)
    subCmd.ExecuteNonQuery()

    Dim lineCmd As New SqlCommand("INSERT INTO Subscription_Lines (Subscription_Id, Software_Plan_Id, Duration) VALUES (@sid, @plan, @dur)",
con)
    lineCmd.Parameters.AddWithValue("@sid", newSubId)
    lineCmd.Parameters.AddWithValue("@plan", planId)
    lineCmd.Parameters.AddWithValue("@dur", duration)
    lineCmd.ExecuteNonQuery()

    scope.Complete()
    lblSubscribeError.ForeColor = Drawing.Color.Green
    lblSubscribeError.Text = "Subscription successful! Discount Applied: " & discountPercent & "%"
End Using
End Using
Catch ex As Exception
    lblSubscribeError.ForeColor = Drawing.Color.Red
    lblSubscribeError.Text = "An error occurred during subscription: " & ex.Message
End Try
End Sub

Private Sub LoadUniqueProducts()
    Dim con As New SqlConnection(cons)
    Dim cmd As New SqlCommand("SELECT DISTINCT Software_Name FROM Software_Plan", con)
    Dim da As New SqlDataAdapter(cmd)
    Dim dt As New DataTable()
    con.Open()
    da.Fill(dt)
    con.Close()

    rptProducts.DataSource = dt
    rptProducts.DataBind()
End Sub

Protected Sub btnSearch_Click(ByVal sender As Object, ByVal e As EventArgs)
    SearchAndDisplay(txtSearch.Text.Trim())
End Sub

Protected Sub Product_Click(ByVal sender As Object, ByVal e As CommandEventArgs)
    Dim selectedProduct As String = e.CommandArgument.ToString()
    SearchAndDisplay(selectedProduct)
End Sub

Private Sub SearchAndDisplay(ByVal productName As String)

    If String.IsNullOrEmpty(productName) Then
        lblMessage.Text = "Please enter a product name."
        GridView1.DataSource = Nothing
        GridView1.DataBind()
        Return
    End If

```

End If

```
Dim con As New SqlConnection(cons)
Dim cmd As New SqlCommand("SELECT * FROM Software_Plan WHERE Software_Name = @SoftwareName", con)
cmd.Parameters.AddWithValue("@SoftwareName", productName.Trim())
```

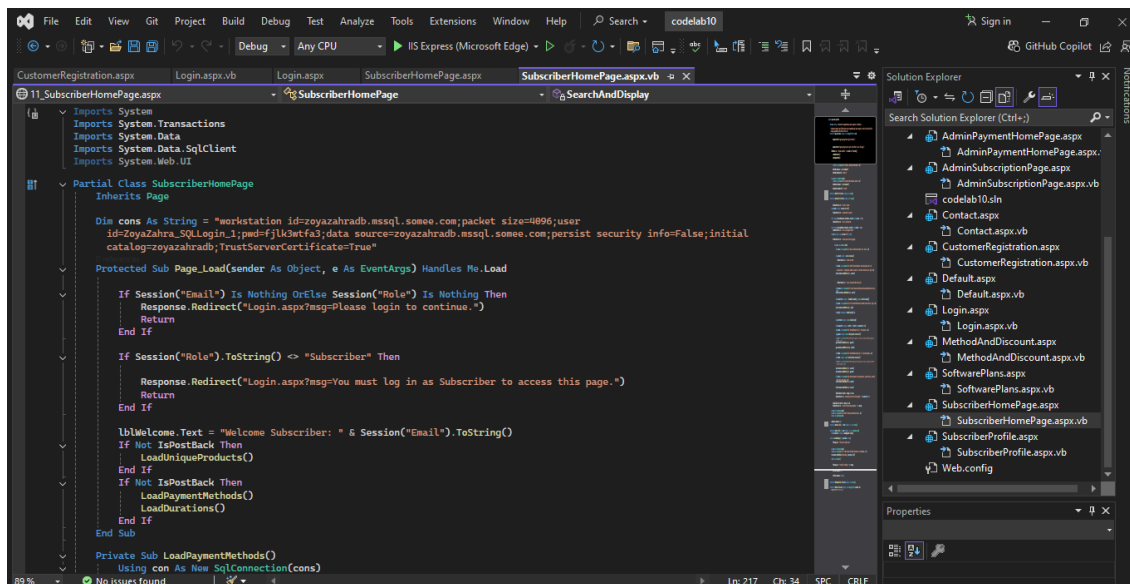
```
Dim da As New SqlDataAdapter(cmd)
Dim dt As New DataTable()
```

```
Try
    con.Open()
    da.Fill(dt)
Catch ex As Exception
    lblMessage.Text = "Error while searching: " & ex.Message
    Return
Finally
    con.Close()
End Try
```

```
If dt.Rows.Count > 0 Then
    GridView1.DataSource = dt
    GridView1.DataBind()
    lblMessage.Text = ""
Else
    GridView1.DataSource = Nothing
    GridView1.DataBind()
    lblMessage.Text = "Product not available."
End If
End Sub
```

```
Protected Sub btnShowSubscribe_Click(sender As Object, e As EventArgs)
    pnlSubscribe.Visible = True
End Sub
```

```
Protected Sub btnhome_Click(sender As Object, e As EventArgs) Handles btnhome.Click
    Response.Redirect("Default.aspx")
End Sub
End Class
```



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

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Software Plans</title>
    <link rel="stylesheet" href="../../Lab1/styles.css"/>
</head>
<body>
<form id="form2" runat="server">
```

```
<div style="display: flex; min-height: 100vh;">

    <div class="sidebar" style="width: 200px; background-color: #f2f2f2; padding: 20px;">
        <h3>Available Products</h3>
        <asp:Repeater ID="rptProducts" runat="server">
            <ItemTemplate>
                <asp:LinkButton ID="lnkProduct" runat="server" Text='<%=# Eval("Software_Name") %>' CommandArgument='<%=# Eval("Software_Name") %>'
OnCommand="Product_Click" />
            </ItemTemplate>
        </asp:Repeater>
        <br />
    </div>

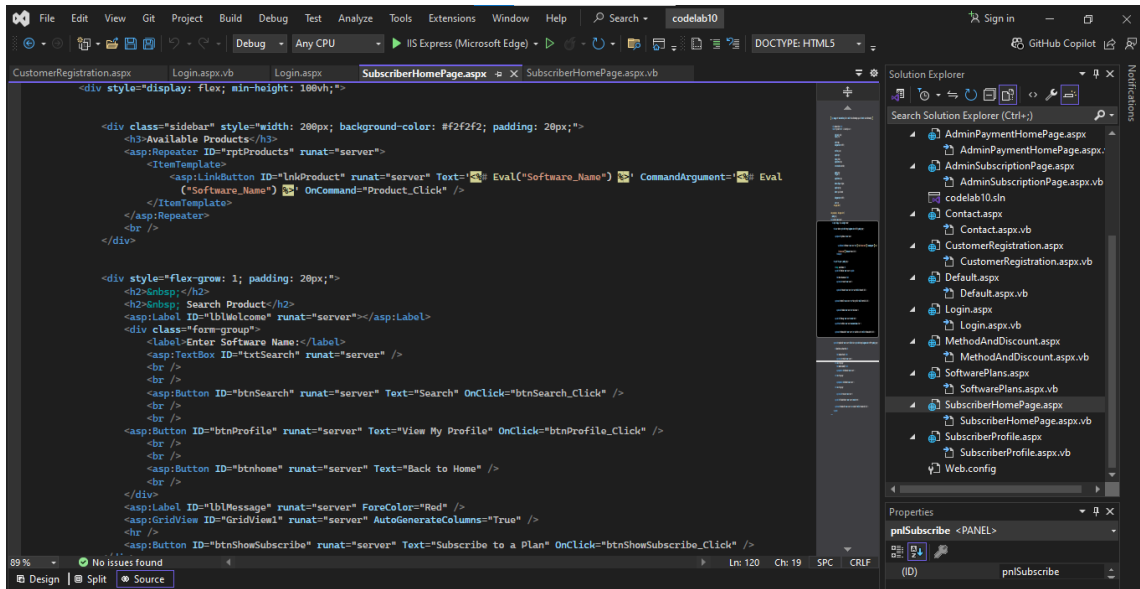
    <div style="flex-grow: 1; padding: 20px;">
        <h2>&nbsp;</h2>
        <h2>&nbsp;< Search Product</h2>
        <asp:Label ID="lblWelcome" runat="server"></asp:Label>
        <div class="form-group">
            <label>Enter Software Name:</label>
            <asp:TextBox ID="txtSearch" runat="server" />
            <br />
            <br />
            <asp:Button ID="btnSearch" runat="server" Text="Search" OnClick="btnSearch_Click" />
            <br />
            <br />
            <asp:Button ID="btnProfile" runat="server" Text="View My Profile" OnClick="btnProfile_Click" />
            <br />
            <br />
            <asp:Button ID="btnhome" runat="server" Text="Back to Home" />
            <br />
        </div>
        <asp:Label ID="lblMessage" runat="server" ForeColor="Red" />
        <asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="True" />
        <hr />
        <asp:Button ID="btnShowSubscribe" runat="server" Text="Subscribe to a Plan" OnClick="btnShowSubscribe_Click" />
    </div>

    <asp:Panel ID="pnlSubscribe" runat="server" Visible="False" style="width: 300px; background-color: #f9f9f9; padding: 20px;">
        <h3>Subscribe to a Software Plan</h3>
        <div class="form-group">
            <label>Software Plan ID:</label>
            <asp:TextBox ID="txtPlanId" runat="server" />
        </div>
        <div class="form-group">
            <label>Duration (months):</label>
            <asp:DropDownList ID="ddlDuration" runat="server" />
        </div>
        <div class="form-group">
            <label>Payment Method:</label>
            <asp:DropDownList ID="ddlMethod" runat="server" />
        </div>
        <div class="form-group">
            <label>Account Number:</label>
            <asp:TextBox ID="txtAccount" runat="server" />
        </div>
        <asp:Label ID="lblSubscribeError" runat="server" ForeColor="Red" />
        <asp:Button ID="btnSubscribe" runat="server" Text="Subscribe" OnClick="btnSubscribe_Click" />
    </asp:Panel>

</div>
</form>

</body>

</html>
```



SubscriberProfile:

Imports System.Data
Imports System.Data.SqlClient

Partial Class SubscriberProfile
Inherits System.Web.UI.Page

Dim cons As String = "workstation id=zoyazahradb.mssql.somee.com;packet size=4096;user id=ZoyaZahra_SQLLogin_1;pwd=fjlk3wtfa3;data source=zoyazahradb.mssql.somee.com;persist security info=False;initial catalog=zoyazahradb;TrustServerCertificate=True"

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

' Check if session exists

If Session("Email") Is Nothing OrElse Session("Role") Is Nothing Then

 Response.Redirect("Login.aspx?msg=Please login to continue.")

 Return

End If

' Check role

If Session("Role").ToString() <> "Subscriber" Then

 ' Unauthorized access

 Response.Redirect("Login.aspx?msg=You must log in as Subscriber to access this page.")

 Return End If

' Subscriber access allowed

lblWelcome.Text = "Welcome Subscriber: " & Session("Email").ToString()

If Not IsPostBack Then

 DisplayCustomerInfo()

End If

End Sub

Private Sub DisplayCustomerInfo()

 Dim email As String = Session("Email")

 If String.IsNullOrEmpty(email) Then

 lblCustomerInfo.Text = "Session expired. Please log in again."

 Return

 End If

 Dim con As New SqlConnection(cons)

 Dim cmd As New SqlCommand("SELECT Name, Email, Cell_NO, Country FROM Customer WHERE Email = @Email AND is_deleted = 0", con)

 cmd.Parameters.AddWithValue("@Email", email)

 Try

 con.Open()

 Dim reader As SqlDataReader = cmd.ExecuteReader()

 If reader.Read() Then

 lblName.Text = "Name: " & reader("Name").ToString()

 lblEmail.Text = "Email: " & reader("Email").ToString()

 lblPhone.Text = "Cell No: " & reader("Cell_NO").ToString()

 lblCountry.Text = "Country: " & reader("Country").ToString()

```

Else
    lblCustomerInfo.Text = "No customer record found."
End If
Catch ex As Exception
    lblCustomerInfo.Text = "An error occurred: " & ex.Message
Finally
    con.Close()
End Try
End Sub

```

Protected Sub btnsubscriberlogout_Click(sender As Object, e As EventArgs) Handles btnsubscriberlogout.Click

```

Session("Email") = Nothing
Session("Role") = Nothing
Session.Clear()
Session.Abandon()
Response.Redirect("~/Default.aspx")

```

End Sub

Protected Sub btnviewsubscriptions_Click(sender As Object, e As EventArgs) Handles btnviewsubscriptions.Click

```

Dim email As String = Session("Email")
Dim query As String = "SELECT " &
"s.Subscription_Id, sp.Software_Plan_Id, sp.Software_Name, sp.Software_Level, " &
"sp.Software_Features, sp.Price_Per_Month, " &
"sl.Duration, dd.Percent_Discount, " &
"p.Payment_Id, p.Account_No, p.Payment_Timestamp, " &
"m.Method_Id, m.Method_Name " &
"FROM Customer c " &
"LEFT JOIN Subscriptions s ON c.Customer_Id = s.Customer_Id " &
"LEFT JOIN Subscription_Lines sl ON s.Subscription_Id = sl.Subscription_Id " &
"LEFT JOIN Software_Plan sp ON sl.Software_Plan_Id = sp.Software_Plan_Id " &
"LEFT JOIN Discount_On_Duration dd ON sl.Duration = dd.Duration " &
"LEFT JOIN Payments p ON s.Payment_Id = p.Payment_Id " &
"LEFT JOIN Method m ON p.Method_Id = m.Method_Id " &
"WHERE c.Email = @Email AND c.is_deleted = 0"

```

```

Using con As New SqlConnection(cons)
Using cmd As New SqlCommand(query, con)
    cmd.Parameters.AddWithValue("@Email", email)

```

```

Dim dt As New DataTable()
Dim da As New SqlDataAdapter(cmd)
da.Fill(dt)

```

```

gvSubscriptions.DataSource = dt
gvSubscriptions.DataBind()

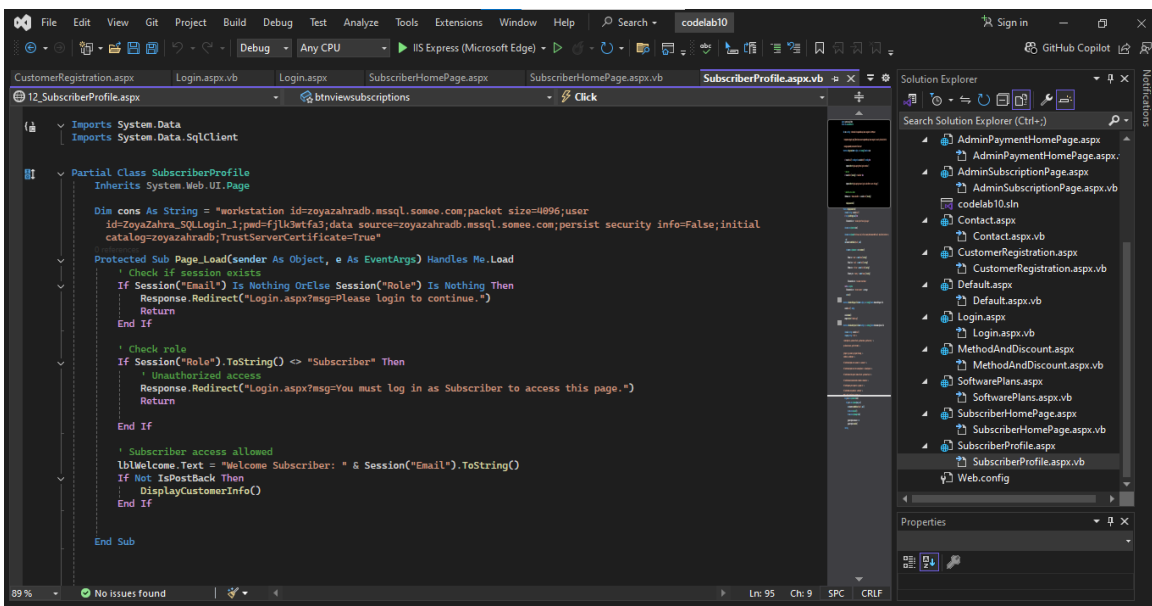
```

End Using

End Using

End Sub

End Class



```

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

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <link rel="stylesheet" href="../../Lab1/styles.css"/>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:Label ID="lblWelcome" runat="server" Text="Label"></asp:Label>
        </div>
        <br />
        <asp:Label ID="lblCustomerInfo" runat="server" ForeColor="Red"></asp:Label><br />
<asp:Label ID="lblName" runat="server"></asp:Label>
        <br />
        <br />
<asp:Label ID="lblEmail" runat="server"></asp:Label>
        <br />
        <br />
<asp:Label ID="lblPhone" runat="server"></asp:Label>
        <br />
        <br />
<asp:Label ID="lblCountry" runat="server"></asp:Label>
        <br />
        <br />
        <br />
        <asp:Button ID="btnviewsubscriptions" runat="server" Text="View My Sbscriptions" />
        <br />
        <asp:GridView ID="gvSubscriptions" runat="server" AutoGenerateColumns="true" />
        <br />
        <br />
        <asp:Button ID="btnsubscriberlogout" runat="server" Text="Log Out" />
    </form>
</body>
</html>

```

