

# Home.aspx

# Home.aspx.vb

```
Imports System
Imports System.Web.UI
Imports System.Data
Imports System.Data.SqlClient
Imports System.Web.UI.WebControls

Partial Class Home
    Inherits Page

    Protected Sub Retrieval(ByVal sender As Object, ByVal e As EventArgs) Handles Me.Load
        Dim cons As String
        cons = "Data source=DESKTOP-JMV907L\SQLEXPRESS; Initial Catalog=SAAS; Integrated
Security=True"
        Dim con As New SqlConnection
        con.ConnectionString = cons
        Dim cmd As New SqlCommand
        cmd.Connection = con
        cmd.CommandText = "Select Plans_Name, Software_Name, Software_Level"
        cmd.CommandText &= " from Plans join Plans_Line on Plans.Plans_Id =
Plans_Line.Plans_Id"
        cmd.CommandText &= " join Software on Software.Software_Id=Plans_Line.Software_Id"
        Dim dr As SqlDataReader
        con.Open()
        dr = cmd.ExecuteReader()
        lbltbl.Text = "<table border='1' cellpadding='10' cellspacing='0'>"
        lbltbl.Text &= "<tr><th>Plan Name</th><th>Software Name</th><th>Service
Level</th></tr>"
        Dim currentPlan As String = ""
        Dim softwareList As String = ""
        Dim levelList As String = ""
```

```

While dr.Read()
    If currentPlan = "" Then
        currentPlan = dr("Plans_Name").ToString()
    End If
    If dr("Plans_Name").ToString() = currentPlan Then
        softwareList &= dr("Software_Name").ToString() & "<br/>"
        levelList &= dr("Software_Level").ToString() & "<br/>"
    Else
        lbltbl.Text &= "<tr><td>" & currentPlan & "</td><td>" & softwareList &
"</td><td>" & levelList & "</td></tr>"
        currentPlan = dr("Plans_Name").ToString()
        softwareList = dr("Software_Name").ToString() & "<br/>"
        levelList = dr("Software_Level").ToString() & "<br/>"
    End If
End While
If currentPlan <> "" Then
    lbltbl.Text &= "<tr><td>" & currentPlan & "</td><td>" & softwareList &
"</td><td>" & levelList & "</td></tr>"
End If
lbltbl.Text &= "</table>"
dr.Close()
con.Close()
cmd.Dispose()
Dim con2 As New SqlConnection
con2.ConnectionString = cons
Dim cmd2 As New SqlCommand
cmd2.Connection = con2
cmd2.CommandText = "Select * from Login"
Dim drr As SqlDataReader
con2.Open()
drr = cmd2.ExecuteReader()
lbllogin.Text = "<table border='1' cellpadding='10' cellspacing='0'>"
lbllogin.Text &= " <tr><th>Login ID</th><th>Password</th><th>Role</th></tr>"
While drr.Read()
    lbllogin.Text &= "<tr>" & "<td>" & drr("Login_Id").ToString() & "</td>" & "<td>"
& drr("Password").ToString() & "</td>"
    lbllogin.Text &= "<td>" & drr("Role").ToString() & "</td>" & "</tr>"
End While
lbllogin.Text &= "</table>"
drr.Close()
con2.Close()
cmd2.Dispose()
End Sub

Protected Sub CustReg_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
CustReg.Click
    Response.Redirect("CustRegister.aspx")
End Sub

Protected Sub CustLogin_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
CustLogin.Click
    Response.Redirect("Login.aspx")
End Sub

Protected Sub AdminLogin_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
AdminLogin.Click
    Response.Redirect("AdminLogin.aspx")
End Sub

End Class

```

```
<%@ Page Language="VB" MasterPageFile="~/MasterPage.master" AutoEventWireup="false"
CodeFile="Admin.aspx.vb" Inherits="Admin" title="Administrator" %>
```

```
<asp:Content ID="Content1" ContentPlaceHolderID="MainContent" runat="server">  
    <h1>Administrator Dashboard</h1>  
    <p>Choose a task: </p>  
    <asp:Button ID="viewmang" runat="server" Text="View Managers" />  
    <asp:Label ID="lblAdminTable" runat="server" ></asp:Label><br /><br />  
    <asp:Button ID="editmang" runat="server" Text="Edit Managers"  
/>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
    <asp:Label ID="lblSelectAdminId" runat="server" Text="Select Admin ID:"  
Visible="False"></asp:Label>  
    <asp:DropDownList ID="ddlAdminId" runat="server"  
Visible="False"></asp:DropDownList>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
    <asp:Label ID="lblAdminColumn" runat="server" Text="Select Column to Edit:"  
Visible="False"></asp:Label>  
    <asp:DropDownList ID="ddlAdminColumn" runat="server" Visible="False">  
        <asp:ListItem Text="Email" Value="Email" />  
        <asp:ListItem Text="Name" Value="Name" />  
        <asp:ListItem Text="Cell_NO" Value="Cell_NO" />  
        <asp:ListItem Text="Country" Value="Country" />  
        <asp:ListItem Text="City" Value="City" />  
    </asp:DropDownList>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
    <asp:Label ID="lblAdminNewValue" runat="server" Text="Enter New Value:"  
Visible="False"></asp:Label>  
    <asp:TextBox ID="txtAdminNewValue" runat="server"  
Visible="False"></asp:TextBox>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
    <asp:Button ID="btnUpdateAdmin" runat="server" Text="Update Value" Visible="False" />  
    <asp:Label ID="lblAdminUpdateStatus" runat="server" Text="" Visible="False"></asp:Label><br  
/><br />  
        <asp:Button ID="btnAddManager" runat="server" Text="Add Managers" /><br /><br />  
    <asp:Label ID="lblAddAdmin" runat="server" Text="Enter Admin Details:"  
Visible="False"></asp:Label>  
    <asp:TextBox ID="txtAdminId" runat="server" Placeholder="Admin ID"  
Visible="False"></asp:TextBox>  
    <asp:TextBox ID="txtAdminEmail" runat="server" Placeholder="Email"  
Visible="False"></asp:TextBox>  
    <asp:TextBox ID="txtAdminName" runat="server" Placeholder="Name"  
Visible="False"></asp:TextBox>  
    <asp:TextBox ID="txtAdminCell" runat="server" Placeholder="Cell No"  
Visible="False"></asp:TextBox>  
    <asp:TextBox ID="txtAdminCountry" runat="server" Placeholder="Country"  
Visible="False"></asp:TextBox>  
    <asp:TextBox ID="txtAdminCity" runat="server" Placeholder="City"  
Visible="False"></asp:TextBox>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
    <asp:Button ID="btnSaveAdmin" runat="server" Text="Save Manager" Visible="False" /><br /><br  
/>  
    <asp:Label ID="lblAddAdminStatus" runat="server" Visible="False"></asp:Label>  
    <asp:Button ID="viewlogin" runat="server" Text="View Login Credentials" />  
    <asp:Label ID="lblLoginTable" runat="server"></asp:Label><br /><br />  
    <asp:Button ID="editlogin" runat="server" Text="Edit Login Credentials"  
/>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
    <asp:Label ID="lblSelectLoginId" runat="server" Text="Select Login ID:"  
Visible="False"></asp:Label>  
    <asp:DropDownList ID="ddlLoginId" runat="server"  
Visible="False"></asp:DropDownList>&nbsp;&nbsp;&nbsp;&nbsp;&~  
    <asp:Label ID="lblLoginColumn" runat="server" Text="Select Column to Edit:"  
Visible="False"></asp:Label>
```



```

        cmd.Dispose()
    End Sub
    Protected Sub viewlogin_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
viewlogin.Click
        Dim cons As String
        cons = "Data Source=DESKTOP-JMV907L\SQLEXPRESS;Initial Catalog=SAAS;Integrated
Security=True"
        Dim con As New SqlConnection
        con.ConnectionString = cons
        Dim cmd As New SqlCommand
        cmd.Connection = con
        cmd.CommandText = "SELECT Login_Id, Password, Role FROM Login"
        Dim dr As SqlDataReader
        con.Open()
        dr = cmd.ExecuteReader()
        lblLoginTable.Text = "<br/><br/><table border='1' cellpadding='8' cellspacing='0'>"
        lblLoginTable.Text &= "<tr><th>Login ID</th><th>Password</th><th>Role</th></tr>"
        While dr.Read()
            lblLoginTable.Text &= "<tr><td>" & dr("Login_Id") & "</td><td>" & dr("Password")
            & "</td><td>" & dr("Role") & "</td></tr>"
        End While
        lblLoginTable.Text &= "</table>"
        dr.Close()
        con.Close()
        cmd.Dispose()
    End Sub
    Protected Sub editmang_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
editmang.Click
        lblSelectAdminId.Visible = True
        ddlAdminId.Visible = True
        lblAdminColumn.Visible = True
        ddlAdminColumn.Visible = True
        lblAdminNewValue.Visible = True
        txtAdminNewValue.Visible = True
        btnUpdateAdmin.Visible = True
        lblAdminUpdateStatus.Visible = True
        Dim cons As String
        cons = "Data Source=DESKTOP-JMV907L\SQLEXPRESS;Initial Catalog=SAAS;Integrated
Security=True"
        Dim con As New SqlConnection
        con.ConnectionString = cons
        Dim cmd As New SqlCommand
        cmd.Connection = con
        cmd.CommandText = "SELECT Admin_Id FROM Admin"
        con.Open()
        Dim dr As SqlDataReader
        dr = cmd.ExecuteReader()
        ddlAdminId.Items.Clear()
        While dr.Read()
            ddlAdminId.Items.Add(dr("Admin_Id").ToString())
        End While
        dr.Close()
        con.Close()
    End Sub

    Protected Sub btnUpdateAdmin_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
btnUpdateAdmin.Click
        Dim adminId As String = ddlAdminId.SelectedValue
        Dim column As String = ddlAdminColumn.SelectedValue
        Dim newValue As String = txtAdminNewValue.Text
        Dim cons As String
        cons = "Data Source=DESKTOP-JMV907L\SQLEXPRESS;Initial Catalog=SAAS;Integrated
Security=True"

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Dim con As New SqlConnection
con.ConnectionString = cons
Dim cmd As New SqlCommand
cmd.Connection = con
cmd.CommandText = "UPDATE Admin SET " & column & " = @newValue WHERE Admin_Id =
@adminId"
cmd.Parameters.AddWithValue("@newValue", newValue)
cmd.Parameters.AddWithValue("@adminId", adminId)
Try
    con.Open()
    Dim rowsAffected As Integer = cmd.ExecuteNonQuery()
    If rowsAffected > 0 Then
        lblAdminUpdateStatus.Text = "Value Updated Successfully!"
    Else
        lblAdminUpdateStatus.Text = "No Value Updated!"
    End If
Catch ex As Exception
    lblAdminUpdateStatus.Text = "Error: " & ex.Message
Finally
    con.Close()
End Try
End Sub

```

```

Protected Sub editlogin_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
editlogin.Click

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    lblSelectLoginId.Visible = True
    ddlLoginId.Visible = True
    lblLoginColumn.Visible = True
    ddlLoginColumn.Visible = True
    lblLoginNewValue.Visible = True
    txtLoginNewValue.Visible = True
    btnUpdateLogin.Visible = True
    lblLoginUpdateStatus.Visible = True
    Dim cons As String
    cons = "Data Source=DESKTOP-JMV907L\SQLEXPRESS;Initial Catalog=SAAS;Integrated
Security=True"
    Dim con As New SqlConnection
    con.ConnectionString = cons
    Dim cmd As New SqlCommand
    cmd.Connection = con
    cmd.CommandText = "SELECT Login_Id FROM Login"
    con.Open()
    Dim dr As SqlDataReader
    dr = cmd.ExecuteReader()
    ddlLoginId.Items.Clear()
    While dr.Read()
        ddlLoginId.Items.Add(dr("Login_Id").ToString())
    End While
    dr.Close()
    con.Close()
End Sub

```

```

Protected Sub btnUpdateLogin_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
btnUpdateLogin.Click

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```

    Dim loginId As String = ddlLoginId.SelectedValue
    Dim column As String = ddlLoginColumn.SelectedValue
    Dim newValue As String = txtLoginNewValue.Text
    Dim cons As String
    cons = "Data Source=DESKTOP-JMV907L\SQLEXPRESS;Initial Catalog=SAAS;Integrated
Security=True"
    Dim con As New SqlConnection
    con.ConnectionString = cons
    Dim cmd As New SqlCommand

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cmd.Connection = con
cmd.CommandText = "UPDATE Login SET " & column & " = @newValue WHERE Login_Id =
@loginId"
cmd.Parameters.AddWithValue("@newValue", newValue)
cmd.Parameters.AddWithValue("@loginId", loginId)
Try
    con.Open()
    Dim rowsAffected As Integer = cmd.ExecuteNonQuery()
    If rowsAffected > 0 Then
        lblLoginUpdateStatus.Text = "Value Updated Successfully!"
    Else
        lblLoginUpdateStatus.Text = "No Value Updated!"
    End If
Catch ex As Exception
    lblLoginUpdateStatus.Text = "Error: " & ex.Message
Finally
    con.Close()
End Try
End Sub
Protected Sub btnAddManager_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
btnAddManager.Click
    lblAddAdmin.Visible = True
    txtAdminId.Visible = True
    txtAdminEmail.Visible = True
    txtAdminName.Visible = True
    txtAdminCell.Visible = True
    txtAdminCountry.Visible = True
    txtAdminCity.Visible = True
    btnSaveAdmin.Visible = True
    lblAddAdminStatus.Visible = True
End Sub
Protected Sub btnSaveAdmin_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
btnSaveAdmin.Click
    Dim cons As String
    cons = "Data Source=DESKTOP-JMV907L\SQLEXPRESS;Initial Catalog=SAAS;Integrated
Security=True"
    Dim con As New SqlConnection(cons)
    Dim cmd As New SqlCommand
    cmd.Connection = con
    cmd.CommandText = "INSERT INTO Admin (Admin_Id, Email, Name, Cell_NO, Country, City)
VALUES (@AdminId, @Email, @Name, @CellNo, @Country, @City)"
    cmd.Parameters.AddWithValue("@AdminId", txtAdminId.Text)
    cmd.Parameters.AddWithValue("@Email", txtAdminEmail.Text)
    cmd.Parameters.AddWithValue("@Name", txtAdminName.Text)
    cmd.Parameters.AddWithValue("@CellNo", txtAdminCell.Text)
    cmd.Parameters.AddWithValue("@Country", txtAdminCountry.Text)
    cmd.Parameters.AddWithValue("@City", txtAdminCity.Text)
    Try
        con.Open()
        cmd.ExecuteNonQuery()
        lblAddAdminStatus.Text = "New manager added successfully!<br/><br/>"
    Catch ex As Exception
        lblAddAdminStatus.Text = "Error: " & ex.Message
    Finally
        con.Close()
    End Try
End Sub

Protected Sub btnAddLogin_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
btnAddLogin.Click
    lblAddLogin.Visible = True
    txtLoginIdAdd.Visible = True
    txtPasswordAdd.Visible = True

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        txtRoleAdd.Visible = True
        btnSaveLogin.Visible = True
        lblAddLoginStatus.Visible = True
    End Sub
    Protected Sub btnSaveLogin_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
btnSaveLogin.Click
        Dim cons As String
        cons = "Data Source=DESKTOP-JMV907L\SQLEXPRESS;Initial Catalog=SAAS;Integrated
Security=True"
        Dim con As New SqlConnection(cons)
        Dim cmd As New SqlCommand
        cmd.Connection = con
        cmd.CommandText = "INSERT INTO Login (Login_Id, Password, Role) VALUES (@LoginId,
@Password, @Role)"
        cmd.Parameters.AddWithValue("@LoginId", txtLoginIdAdd.Text)
        cmd.Parameters.AddWithValue("@Password", txtPasswordAdd.Text)
        cmd.Parameters.AddWithValue("@Role", txtRoleAdd.Text)
        Try
            con.Open()
            cmd.ExecuteNonQuery()
            lblAddLoginStatus.Text = "Login credentials added successfully!"
        Catch ex As Exception
            lblAddLoginStatus.Text = "Error: " & ex.Message
        Finally
            con.Close()
        End Try
    End Sub
End Class

```

## AdminLogin.aspx

```

<%@ Page Language="VB" MasterPageFile="~/MasterPage.master" AutoEventWireup="false"
CodeFile="AdminLogin.aspx.vb" Inherits="AdminLogin" title="Administrator Login" %>

<asp:Content ID="Content1" ContentPlaceHolderID="MainContent" runat="server">
    <h2>Administrator Login</h2>
    <h3>Choose your role: </h3>
    <asp:RadioButtonList ID="rblRoles" runat="server">
<asp:ListItem Text="Administrator" />
<asp:ListItem Text="Customer Subscription Manager" />
<asp:ListItem Text="Subscription Billing Manager" />
        <asp:ListItem Text="Customer Payment Manager" />
    </asp:RadioButtonList><br />
    <asp:RequiredFieldValidator ID="rfvRoles" runat="server" ControlToValidate="rblRoles"
ErrorMessage="Please select a role"
ForeColor="Red" />
    <h3>Enter your login credentials: </h3>
    <div class="form_group">
        <label class="form_label">Admin ID:</label>
        <asp:TextBox ID="txtAId" runat="server"></asp:TextBox>
        <asp:RequiredFieldValidator ID="rfvAId" runat="server" ControlToValidate="txtAId"
ErrorMessage="Admin ID is required!" ForeColor="Red"/>
    </div>
    <div class="form_group">

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```

        <label class="form_label">Password:</label>
        <asp:TextBox ID="txtpassword" runat="server" TextMode="Password"></asp:TextBox>
        <asp:RequiredFieldValidator ID="rfvPassword" runat="server"
ControlToValidate="txtpassword" ErrorMessage="Password is required!" ForeColor="Red"
/>
    </div>
    <asp:Button ID="btnlogin" runat="server" Text="Login" />
    <asp:Label ID="lblMessage" runat="server" ForeColor="Red"></asp:Label>
</asp:Content>

```

## AdminLogin.aspx.vb

```

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

Partial Class AdminLogin
    Inherits Page

    Protected Sub Page_Load(ByVal sender As Object, ByVal e As EventArgs) Handles Me.Load
        If Not IsPostBack Then
            If Request.Cookies("Admin_Id") IsNot Nothing Then
                txtAId.Text = Request.Cookies("Admin_Id").Value
            End If
            If Request.Cookies("LockoutTime_Admin") IsNot Nothing Then
                Dim lockoutUntil As DateTime
                If DateTime.TryParse(Request.Cookies("LockoutTime_Admin").Value,
lockoutUntil) Then
                    If DateTime.Now < lockoutUntil Then
                        DisableLogin()
                        lblMessage.Text = "Too many failed attempts. Try again later."
                    Else
                        RemoveLockoutCookie()
                    End If
                End If
            End If
        End If
    End Sub

    Protected Sub btnlogin_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
btnlogin.Click
        If Request.Cookies("LockoutTime_Admin") IsNot Nothing Then
            Dim lockoutUntil As DateTime
            If DateTime.TryParse(Request.Cookies("LockoutTime_Admin").Value, lockoutUntil)
Then
                If DateTime.Now < lockoutUntil Then
                    lblMessage.Text = "You're locked out. Try again later."
                    DisableLogin()
                    Return
                Else
                    RemoveLockoutCookie()
                End If
            End If
        End If
        Dim cons As String = "Data source=DESKTOP-JMV907L\SQLEXPRESS; Initial Catalog=SAAS;
Integrated Security=True"
        Dim con As New SqlConnection(cons)
        Dim cmd As New SqlCommand
        cmd.Connection = con

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cmd.CommandText = "SELECT COUNT(*) FROM Login WHERE Login_Id = @LoginId AND Password
= @Password AND Role = @Role"
cmd.Parameters.AddWithValue("@LoginId", txtAId.Text)
cmd.Parameters.AddWithValue("@Password", txtpassword.Text)
cmd.Parameters.AddWithValue("@Role", rblRoles.SelectedValue)
Try
    con.Open()
    Dim count As Integer = Convert.ToInt32(cmd.ExecuteScalar())
    If count > 0 Then
        Dim Cookie As New HttpCookie("Admin_Id", txtAId.Text)
        Cookie.Expires = DateTime.Now.AddHours(24)
        Response.Cookies.Add(Cookie)
        RemoveFailedAttempts()
        lblMessage.Text = "Login Successful!"
        ViewState.Clear()
        Select Case rblRoles.SelectedValue
            Case "Administrator"
                Response.Redirect("Admin.aspx")
            Case "Customer Subscription Manager"
                Response.Redirect("CSM.aspx")
            Case "Subscription Billing Manager"
                Response.Redirect("SBM.aspx")
            Case "Customer Payment Manager"
                Response.Redirect("CPM.aspx")
        End Select
    Else
        Dim attempts As Integer = 1
        If Request.Cookies("LoginAttempts_Admin") IsNot Nothing Then
            attempts = Convert.ToInt32(Request.Cookies("LoginAttempts_Admin").Value)
+ 1
        End If
        If attempts >= 3 Then
            Dim lockoutCookie As New HttpCookie("LockoutTime_Admin",
DateTime.Now.AddMinutes(2).ToString())
            lockoutCookie.Expires = DateTime.Now.AddMinutes(2)
            Response.Cookies.Add(lockoutCookie)
            DisableLogin()
            lblMessage.Text = "Too many failed attempts. Login disabled for 2
minutes."
        Else
            Dim attemptCookie As New HttpCookie("LoginAttempts_Admin",
attempts.ToString())
            attemptCookie.Expires = DateTime.Now.AddMinutes(5)
            Response.Cookies.Add(attemptCookie)
            lblMessage.Text = "Invalid credentials. Attempt " & attempts & " of 3."
        End If
    End If
Catch ex As Exception
    lblMessage.Text = "Error: " & ex.Message
Finally
    con.Close()
    cmd.Dispose()
End Try
End Sub
Private Sub DisableLogin()
    txtAId.Enabled = False
    txtpassword.Enabled = False
    btnlogin.Enabled = False
    rblRoles.Enabled = False
End Sub
Private Sub RemoveFailedAttempts()
    Dim expiredCookie As New HttpCookie("LoginAttempts_Admin")
    expiredCookie.Expires = DateTime.Now.AddDays(- 1)

```



## CPM.aspx.vb

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

Partial Class CPM
    Inherits Page
    Protected Sub btnViewPayments_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
btnViewPayments.Click
        Dim cons As String
        cons = "Data Source=DESKTOP-JMV907L\SQLEXPRESS;Initial Catalog=SAAS;Integrated
Security=True"
        Dim con As New SqlConnection
        con.ConnectionString = cons
        Dim cmd As New SqlCommand
        cmd.Connection = con
        cmd.CommandText = "SELECT Payment_Id, Subscription_Id, Method_Id, Amount, Cell_NO,
Account_No, Payment_Timestamp FROM Payment"
        con.Open()
        Dim dr As SqlDataReader
        dr = cmd.ExecuteReader()
        lblPaymentTable.Text = "<br/><br/><table border='1' cellpadding='8' cellspacing='0'>"
        lblPaymentTable.Text &= "<tr><th>Payment ID</th><th>Subscription Id</th><th>Method
Id</th><th>Amount</th><th>Cell No</th><th>Account No</th><th>Payment Date</th></tr>"
        While dr.Read()
            lblPaymentTable.Text &= "<tr><td>" & dr("Payment_Id") & "</td><td>" &
dr("Subscription_Id") & "</td><td>" & dr("Method_Id") & "</td>"
            lblPaymentTable.Text &= "<td>" & dr("Amount") & "</td><td>" & dr("Cell_NO") &
"</td><td>" & dr("Account_No") & "</td><td>" & dr("Payment_Timestamp") & "</td></tr>"
        End While
        lblPaymentTable.Text &= "</table>"
        dr.Close()
        con.Close()
    End Sub
    Protected Sub btnEditPayments_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
btnEditPayments.Click
        lblSelectPaymentId.Visible = True
        ddlPaymentId.Visible = True
        lblPaymentColumn.Visible = True
        ddlPaymentColumn.Visible = True
        lblPaymentNewValue.Visible = True
        txtPaymentNewValue.Visible = True
        btnUpdatePayment.Visible = True
        lblPaymentUpdateStatus.Visible = True
        Dim cons As String
        cons = "Data Source=DESKTOP-JMV907L\SQLEXPRESS;Initial Catalog=SAAS;Integrated
Security=True"
        Dim con As New SqlConnection
        con.ConnectionString = cons
        Dim cmd As New SqlCommand
        cmd.Connection = con
        cmd.CommandText = "SELECT Payment_Id FROM Payment"
        con.Open()
        Dim dr As SqlDataReader
        dr = cmd.ExecuteReader()
        ddlPaymentId.Items.Clear()
        While dr.Read()
            ddlPaymentId.Items.Add(dr("Payment_Id").ToString())
```

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        End While
        dr.Close()
        con.Close()
    End Sub
    Protected Sub btnUpdatePayment_Click(ByVal sender As Object, ByVal e As EventArgs) Handles btnUpdatePayment.Click
        Dim paymentId As String = ddlPaymentId.SelectedValue
        Dim column As String = ddlPaymentColumn.SelectedValue
        Dim newValue As String = txtPaymentNewValue.Text
        Dim cons As String
        cons = "Data Source=DESKTOP-JMV907L\SQLEXPRESS;Initial Catalog=SAAS;Integrated Security=True"
        Dim con As New SqlConnection
        con.ConnectionString = cons
        Dim cmd As New SqlCommand
        cmd.Connection = con
        cmd.CommandText = "UPDATE Payment SET " & column & " = @newValue WHERE Payment_Id = @paymentId"
        cmd.Parameters.AddWithValue("@newValue", newValue)
        cmd.Parameters.AddWithValue("@paymentId", paymentId)
        con.Open()
        Try
            Dim rowsAffected As Integer = cmd.ExecuteNonQuery()
            If rowsAffected > 0 Then
                lblPaymentUpdateStatus.Text = "Value Updated Successfully!"
            Else
                lblPaymentUpdateStatus.Text = "No Value Updated!"
            End If
        Catch ex As Exception
            lblPaymentUpdateStatus.Text = "Error: " & ex.Message
        Finally
            con.Close()
        End Try
    End Sub
    Protected Sub btnViewMethods_Click(ByVal sender As Object, ByVal e As EventArgs) Handles btnViewMethods.Click
        Dim cons As String
        cons = "Data Source=DESKTOP-JMV907L\SQLEXPRESS;Initial Catalog=SAAS;Integrated Security=True"
        Dim con As New SqlConnection
        con.ConnectionString = cons
        Dim cmd As New SqlCommand
        cmd.Connection = con
        cmd.CommandText = "SELECT Method_Id, Method_Name FROM Method"
        con.Open()
        Dim dr As SqlDataReader
        dr = cmd.ExecuteReader()
        lblMethodTable.Text = "<br/><br/><table border='1' cellpadding='8' cellspacing='0'>"
        lblMethodTable.Text &= "<tr><th>Method ID</th><th>Method Name</th></tr>"
        While dr.Read()
            lblMethodTable.Text &= "<tr><td>" & dr("Method_Id") & "</td><td>" & dr("Method_Name") & "</td></tr>"
        End While
        lblMethodTable.Text &= "</table>"
        dr.Close()
        con.Close()
    End Sub
    Protected Sub btnEditMethods_Click(ByVal sender As Object, ByVal e As EventArgs) Handles btnEditMethods.Click
        lblSelectMethodId.Visible = True
        ddlMethodId.Visible = True
        lblMethodColumn.Visible = True
        ddlMethodColumn.Visible = True
    End Sub

```

```

        lblMethodNewValue.Visible = True
        txtMethodNewValue.Visible = True
        btnUpdateMethod.Visible = True
        lblMethodUpdateStatus.Visible = True
        Dim cons As String
        cons = "Data Source=DESKTOP-JMV907L\SQLEXPRESS;Initial Catalog=SAAS;Integrated
Security=True"
        Dim con As New SqlConnection
        con.ConnectionString = cons
        Dim cmd As New SqlCommand
        cmd.Connection = con
        cmd.CommandText = "SELECT Method_Id FROM Method"
        con.Open()
        Dim dr As SqlDataReader
        dr = cmd.ExecuteReader()
        ddlMethodId.Items.Clear()
        While dr.Read()
            ddlMethodId.Items.Add(dr("Method_Id").ToString())
        End While
        dr.Close()
        con.Close()
    End Sub
    Protected Sub btnUpdateMethod_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
btnUpdateMethod.Click
        Dim methodId As String = ddlMethodId.SelectedValue
        Dim column As String = ddlMethodColumn.SelectedValue
        Dim newValue As String = txtMethodNewValue.Text
        Dim cons As String
        cons = "Data Source=DESKTOP-JMV907L\SQLEXPRESS;Initial Catalog=SAAS;Integrated
Security=True"
        Dim con As New SqlConnection
        con.ConnectionString = cons
        Dim cmd As New SqlCommand
        cmd.Connection = con
        cmd.CommandText = "UPDATE Method SET " & column & " = @newValue WHERE Method_Id =
@methodId"
        cmd.Parameters.AddWithValue("@newValue", newValue)
        cmd.Parameters.AddWithValue("@methodId", methodId)
        con.Open()
        Try
            Dim rowsAffected As Integer = cmd.ExecuteNonQuery()
            If rowsAffected > 0 Then
                lblMethodUpdateStatus.Text = "Value Updated Successfully!"
            Else
                lblMethodUpdateStatus.Text = "No Value Updated!"
            End If
        Catch ex As Exception
            lblMethodUpdateStatus.Text = "Error: " & ex.Message
        Finally
            con.Close()
        End Try
    End Sub
End Class

```

```
<%@ Page Language="VB" MasterPageFile=~\MasterPage.master" AutoEventWireup="false"  
CodeFile="CSM.aspx.vb" Inherits="CSM" Title="Customer Subscription Manager" %>  
  
<asp:Content ID="Content1" ContentPlaceHolderID="MainContent" runat="server">  
    <h1>Customer Subscription Manager Dashboard</h1>  
  
    <p>Choose a task:</p>  
    <asp:Button ID="btnViewCustomers" runat="server" Text="View Customers" />  
    <asp:Label ID="lblCustomerTable" runat="server"></asp:Label>  
    <br /><br />  
    <asp:Button ID="btnEditCustomers" runat="server" Text="Edit Customers" />  
    <asp:Label ID="lblSelectCustomerId" runat="server" Text="Select Customer ID:"  
Visible="False"></asp:Label>  
    <asp:DropDownList ID="ddlCustomerId" runat="server"  
Visible="False"></asp:DropDownList>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
    <asp:Label ID="lblCustomerColumn" runat="server" Text="Select Column to Edit:"  
Visible="False"></asp:Label>  
    <asp:DropDownList ID="ddlCustomerColumn" runat="server" Visible="False">  
        <asp:ListItem Text="Email" Value="Email" />  
        <asp:ListItem Text="Name" Value="Name" />  
        <asp:ListItem Text="Cell_NO" Value="Cell_NO" />  
        <asp:ListItem Text="Country" Value="Country" />  
        <asp:ListItem Text="City" Value="City" />  
    </asp:DropDownList>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
    <asp:Label ID="lblCustomerNewValue" runat="server" Text="Enter New Value:"  
Visible="False"></asp:Label>  
    <asp:TextBox ID="txtCustomerNewValue" runat="server"  
Visible="False"></asp:TextBox>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
    <asp:Button ID="btnUpdateCustomer" runat="server" Text="Update Value" Visible="False" />  
    <asp:Label ID="lblCustomerUpdateStatus" runat="server" Visible="False" ></asp:Label>  
    <br /><br />  
    <asp:Button ID="btnViewSubscriptions" runat="server" Text="View Subscriptions" />  
    <asp:Label ID="lblSubscriptionTable" runat="server"></asp:Label>  
    <br /><br />  
    <asp:Button ID="btnEditSubscriptions" runat="server" Text="Edit Subscriptions" />  
    <asp:Label ID="lblSelectSubscriptionId" runat="server" Text="Select Subscription ID:"  
Visible="False"></asp:Label>  
    <asp:DropDownList ID="ddlSubscriptionId" runat="server"  
Visible="False"></asp:DropDownList>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
    <asp:Label ID="lblSubscriptionColumn" runat="server" Text="Select Column to Edit:"  
Visible="False"></asp:Label>  
    <asp:DropDownList ID="ddlSubscriptionColumn" runat="server" Visible="False">  
        <asp:ListItem Text="Plans_Id" Value="Plans_Id" />  
        <asp:ListItem Text="Duration_Months" Value="Duration_Months" />  
        <asp:ListItem Text="Start_Date" Value="Start_Date" />  
        <asp:ListItem Text="Percent_Discount" Value="Percent_Discount" />  
        <asp:ListItem Text="Amount_ToBe_Paid" Value="Amount_ToBe_Paid" />  
        <asp:ListItem Text="Paid_Status" Value="Paid_Status" />  
    </asp:DropDownList>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
    <asp:Label ID="lblSubscriptionNewValue" runat="server" Text="Enter New Value:"  
Visible="False"></asp:Label>  
    <asp:TextBox ID="txtSubscriptionNewValue" runat="server"  
Visible="False"></asp:TextBox>&nbsp;&nbsp;&nbsp;&nbsp;&~  
    <asp:Button ID="btnUpdateSubscription" runat="server" Text="Update Value" Visible="False" />  
    <asp:Label ID="lblSubscriptionUpdateStatus" runat="server" Visible="False" ></asp:Label>  
</asp:Content>
```

## CSM.aspx.vb

```
Imports System
Imports System.Data
Imports System.Data.SqlClient
Imports System.Web.UI
Partial Class CSM
    Inherits Page
    Protected Sub btnViewCustomers_Click(ByVal sender As Object, ByVal e As EventArgs)
Handles btnViewCustomers.Click
        Dim cons As String
        cons = "Data Source=DESKTOP-JMV907L\SQLEXPRESS;Initial Catalog=SAAS;Integrated
Security=True"
        Dim con As New SqlConnection
        con.ConnectionString = cons
        Dim cmd As New SqlCommand
        cmd.Connection = con
        cmd.CommandText = "SELECT Customer_Id, Email, Name, Cell_NO, Country, City FROM
Customer"
        con.Open()
        Dim dr As SqlDataReader
        dr = cmd.ExecuteReader()
        lblCustomerTable.Text = "<br/><br/><table border='1' cellpadding='8'
cellspacing='0'>"
        lblCustomerTable.Text &= "<tr><th>Customer Id</th><th>Email</th><th>Name</th><th>Cell
No</th><th>Country</th><th>City</th></tr>"
        While dr.Read()
            lblCustomerTable.Text &= "<tr><td>" & dr("Customer_Id") & "</td><td>" &
dr("Email") & "</td><td>" & dr("Name") & "</td>"
            lblCustomerTable.Text &= "<td>" & dr("Cell_NO") & "</td><td>" & dr("Country") &
"</td><td>" & dr("City") & "</td></tr>"
        End While
        lblCustomerTable.Text &= "</table>"
        dr.Close()
        con.Close()
    End Sub
    Protected Sub btnEditCustomers_Click(ByVal sender As Object, ByVal e As EventArgs)
Handles btnEditCustomers.Click
        lblSelectCustomerId.Visible = True
        ddlCustomerId.Visible = True
        lblCustomerColumn.Visible = True
        ddlCustomerColumn.Visible = True
        lblCustomerNewValue.Visible = True
        txtCustomerNewValue.Visible = True
        btnUpdateCustomer.Visible = True
        lblCustomerUpdateStatus.Visible = True
        Dim cons As String = "Data Source=DESKTOP-JMV907L\SQLEXPRESS;Initial
Catalog=SAAS;Integrated Security=True"
        Dim con As New SqlConnection
        con.ConnectionString = cons
        Dim cmd As New SqlCommand
        cmd.Connection = con
        cmd.CommandText = "SELECT Customer_Id FROM Customer"
        con.Open()
        Dim dr As SqlDataReader
        dr = cmd.ExecuteReader()
        ddlCustomerId.Items.Clear()
        While dr.Read()
            ddlCustomerId.Items.Add(dr("Customer_Id").ToString())
        End While
        dr.Close()
    End Sub
End Class
```

```

        con.Close()
    End Sub
    Protected Sub btnUpdateCustomer_Click(ByVal sender As Object, ByVal e As EventArgs)
Handles btnUpdateCustomer.Click
        Dim customerId As String = ddlCustomerId.SelectedValue
        Dim column As String = ddlCustomerColumn.SelectedValue
        Dim newValue As String = txtCustomerNewValue.Text
        Dim cons As String
        cons = "Data Source=DESKTOP-JMV907L\SQLEXPRESS;Initial Catalog=SAAS;Integrated
Security=True"
        Dim con As New SqlConnection
        con.ConnectionString = cons
        Dim cmd As New SqlCommand
        cmd.Connection = con
        cmd.CommandText = "UPDATE Customer SET " & column & " = @newValue WHERE Customer_Id =
@customerId"
        cmd.Parameters.AddWithValue("@newValue", newValue)
        cmd.Parameters.AddWithValue("@customerId", customerId)
        con.Open()
        Try
            Dim rowsAffected As Integer = cmd.ExecuteNonQuery()
            If rowsAffected > 0 Then
                lblCustomerUpdateStatus.Text = "Value Updated Successfully!"
            Else
                lblCustomerUpdateStatus.Text = "No Value Updated!"
            End If
        Catch ex As Exception
            lblCustomerUpdateStatus.Text = "Error: " & ex.Message
        Finally
            con.Close()
        End Try
    End Sub
    Protected Sub btnViewSubscriptions_Click(ByVal sender As Object, ByVal e As EventArgs)
Handles btnViewSubscriptions.Click
        Dim cons As String
        cons = "Data Source=DESKTOP-JMV907L\SQLEXPRESS;Initial Catalog=SAAS;Integrated
Security=True"
        Dim con As New SqlConnection
        con.ConnectionString = cons
        Dim cmd As New SqlCommand
        cmd.Connection = con
        cmd.CommandText = "SELECT Subscription_Id, Customer_Id, Plans_Id, Duration_Months,
Start_Date, Percent_Discount, Amount_ToBe_Paid, Paid_Status FROM Subscription"
        con.Open()
        Dim dr As SqlDataReader
        dr = cmd.ExecuteReader()
        lblSubscriptionTable.Text = "<br/><br/><table border='1' cellpadding='8'
cellspacing='0'>"
        lblSubscriptionTable.Text &= "<tr><th>Subscription Id</th><th>Customer
Id</th><th>Plan</th><th>Duration</th><th>Start
Date</th><th>Discount</th><th>Amount</th><th>Status</th></tr>"
        While dr.Read()
            lblSubscriptionTable.Text &= "<tr><td>" & dr("Subscription_Id") & "</td><td>" &
dr("Customer_Id") & "</td><td>" & dr("Plans_Id") & "</td><td>" &
dr("Duration_Months") & "</td><td>" &
dr("Start_Date") & "</td><td>" & dr("Percent_Discount") & "</td><td>" &
dr("Amount_ToBe_Paid") & "</td><td>" &
dr("Paid_Status") & "</td></tr>"
        End While
        lblSubscriptionTable.Text &= "</table>"
        dr.Close()
        con.Close()
    End Sub

```

```

    Protected Sub btnEditSubscriptions_Click(ByVal sender As Object, ByVal e As EventArgs)
Handles btnEditSubscriptions.Click
        lblSelectSubscriptionId.Visible = True
        ddlSubscriptionId.Visible = True
        lblSubscriptionColumn.Visible = True
        ddlSubscriptionColumn.Visible = True
        lblSubscriptionNewValue.Visible = True
        txtSubscriptionNewValue.Visible = True
        btnUpdateSubscription.Visible = True
        lblSubscriptionUpdateStatus.Visible = True
        Dim cons As String
        cons = "Data Source=DESKTOP-JMV907L\SQLEXPRESS;Initial Catalog=SAAS;Integrated
Security=True"
        Dim con As New SqlConnection
        con.ConnectionString = cons
        Dim cmd As New SqlCommand
        cmd.Connection = con
        cmd.CommandText = "SELECT Subscription_Id FROM Subscription"
        con.Open()
        Dim dr As SqlDataReader
        dr = cmd.ExecuteReader()
        ddlSubscriptionId.Items.Clear()
        While dr.Read()
            ddlSubscriptionId.Items.Add(dr("Subscription_Id").ToString())
        End While
        dr.Close()
        con.Close()
    End Sub

    Protected Sub btnUpdateSubscription_Click(ByVal sender As Object, ByVal e As EventArgs)
Handles btnUpdateSubscription.Click
        Dim subId As String = ddlSubscriptionId.SelectedValue
        Dim column As String = ddlSubscriptionColumn.SelectedValue
        Dim newValue As String = txtSubscriptionNewValue.Text
        Dim cons As String
        cons = "Data Source=DESKTOP-JMV907L\SQLEXPRESS;Initial Catalog=SAAS;Integrated
Security=True"
        Dim con As New SqlConnection
        con.ConnectionString = cons
        Dim cmd As New SqlCommand
        cmd.Connection = con
        cmd.CommandText = "UPDATE Subscription SET " & column & " = @newValue WHERE
Subscription_Id = @subId"
        cmd.Parameters.AddWithValue("@newValue", newValue)
        cmd.Parameters.AddWithValue("@subId", subId)
        con.Open()
        Try
            Dim rowsAffected As Integer = cmd.ExecuteNonQuery()
            If rowsAffected > 0 Then
                lblSubscriptionUpdateStatus.Text = "Value Updated Successfully!"
            Else
                lblSubscriptionUpdateStatus.Text = "No Value Updated!"
            End If
        Catch ex As Exception
            lblSubscriptionUpdateStatus.Text = "Error: " & ex.Message
        Finally
            con.Close()
        End Try
    End Sub
End Class

```

## CustRegister.aspx

```
<%@ Page Language="VB" MasterPageFile="~/MasterPage.master" AutoEventWireup="false"
CodeFile="CustRegister.aspx.vb" Inherits="Register" title="Cutomer Registration" %>

<asp:Content ID="Content1" ContentPlaceHolderID="MainContent" runat="server">
    <h2>Customer Registration</h2>
    <div class="form_group">
        <label class="form_label">Email:</label>
        <asp:TextBox ID="txtEmail" runat="server"></asp:TextBox>
        <asp:RequiredFieldValidator ID="rfvEmail" runat="server" ControlToValidate="txtEmail"
ErrorMessage="Email is required!" ForeColor="Red"
/>
        <asp:RegularExpressionValidator ID="revEmail" runat="server" ControlToValidate="txtEmail"
ValidationExpression="^[^@]+\@[^@]+$"
ErrorMessage="Email must contain a single '@' symbol." ForeColor="Red"
/>
    </div>
    <div class="form_group">
        <label class="form_label">Password:</label>
        <asp:TextBox ID="txtpassword" runat="server" TextMode="Password"></asp:TextBox>
        <asp:RequiredFieldValidator ID="rfvPassword" runat="server"
ControlToValidate="txtpassword" ErrorMessage="Password is required!" ForeColor="Red"
/>
        <asp:RegularExpressionValidator ID="revPassword" runat="server"
ControlToValidate="txtpassword" ValidationExpression="^(?=.*[a-z])(?=.*[A-Z])(?=.*\d){6,}$"
ErrorMessage="Password must be at least 6 characters long and contain at least one
lowercase letter, one uppercase letter, and one digit."
ForeColor="Red" />
    </div>
    <div class="form_group">
        <label class="form_label">Name:</label>
        <asp:TextBox ID="txtName" runat="server"></asp:TextBox>
        <asp:RequiredFieldValidator ID="rfvName" runat="server" ControlToValidate="txtName"
ErrorMessage="Name is required!" ForeColor="Red"
/>
    </div>
    <div class="form_group">
        <label class="form_label">Cell No:</label>
        <asp:TextBox ID="txtCellNo" runat="server"></asp:TextBox>
        <asp:RequiredFieldValidator ID="rfvCellNo" runat="server"
ControlToValidate="txtCellNo" ErrorMessage="Cell number is required!" ForeColor="Red"
/>
    </div>
    <div class="form_group">
        <label class="form_label">Country Code (2 Letters):</label>
        <asp:TextBox ID="txtCountry" runat="server"></asp:TextBox>
    </div>
    <div class="form_group">
        <label class="form_label">City:</label>
        <asp:TextBox ID="txtCity" runat="server"></asp:TextBox>
    </div>
    <asp:Button ID="btnRegister" runat="server" Text="Register" />
    <asp:Label ID="lblMessage" runat="server" ForeColor="Red"></asp:Label><br /><br />
    <asp:Button ID="home" runat="server" Text="Back to Home Page" CausesValidation="False"/>
</asp:Content>
```

## CustRegister.aspx.vb

```
Imports System
Imports System.Data
Imports System.Data.SqlClient
Imports System.Net
Imports System.Web.UI

Partial Class Register
    Inherits Page

    Protected Sub Page_Load(ByVal sender As Object, ByVal e As EventArgs) Handles Me.Load
        If Not IsPostBack Then
            If Request.Cookies("Email") IsNot Nothing Then txtEmail.Text =
Request.Cookies("Email").Value
            If Request.Cookies("Name") IsNot Nothing Then txtName.Text =
Request.Cookies("Name").Value
            If Request.Cookies("Cell_NO") IsNot Nothing Then txtCellNo.Text =
Request.Cookies("Cell_NO").Value
            If Request.Cookies("Country") IsNot Nothing Then txtCountry.Text =
Request.Cookies("Country").Value
            If Request.Cookies("City") IsNot Nothing Then txtCity.Text =
Request.Cookies("City").Value
        End If
    End Sub

    Protected Sub btnRegister_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
btnRegister.Click
        Dim newCustomerId As String = ""
        Dim conss As String
        conss = "Data source=DESKTOP-JMV907L\SQLEXPRESS; Initial Catalog=SAAS; Integrated
Security=True"
        Dim connn As New SqlConnection
        connn.ConnectionString = conss
        Dim cmdd As New SqlCommand
        cmdd.Connection = connn
        cmdd.CommandText = "SELECT TOP 1 Customer_Id FROM Customer ORDER BY Customer_Id DESC"

        Try
            connn.Open()
            Dim lastId As Object = cmdd.ExecuteScalar()
            If lastId IsNot Nothing Then
                Dim numericPart As Integer = Integer.Parse(lastId.ToString().Substring(1))
                newCustomerId = "C" & (numericPart + 1).ToString("D3")
            Else
                newCustomerId = "C000"
            End If
            connn.Close()
        Catch ex As Exception
            lblMessage.Text = "Error generating Customer ID: " & ex.Message
            Return
        End Try
        Dim c1 As New HttpCookie("Customer_Id")
        c1.Value = newCustomerId
        c1.Expires = DateTime.Now.AddHours(24)
        Response.Cookies.Add(c1)
        Dim c2 As New HttpCookie("Email")
        c2.Value = txtEmail.Text
        c2.Expires = DateTime.Now.AddHours(24)
        Response.Cookies.Add(c2)
        Dim c3 As New HttpCookie("Name")
```

```

c3.Value = txtName.Text
c3.Expires = DateTime.Now.AddHours(24)
Response.Cookies.Add(c3)
Dim c4 As New HttpCookie("Cell_NO")
c4.Value = txtCellNo.Text
c4.Expires = DateTime.Now.AddHours(24)
Response.Cookies.Add(c4)
Dim c5 As New HttpCookie("Country")
c5.Value = txtCountry.Text
c5.Expires = DateTime.Now.AddHours(24)
Response.Cookies.Add(c5)
Dim c6 As New HttpCookie("City")
c6.Value = txtCity.Text
c6.Expires = DateTime.Now.AddHours(24)
Response.Cookies.Add(c6)
Dim cons As String
cons = "Data source=DESKTOP-JMV907L\SQLEXPRESS; Initial Catalog=SAAS; Integrated
Security=True"
Dim con As New SqlConnection
con.ConnectionString = cons
Dim cmd As New SqlCommand
cmd.Connection = con
cmd.CommandText = "INSERT INTO Customer (Customer_Id, Email, Name, Cell_NO, Country,
City) VALUES (@Customer_Id, @Email, @Name, @Cell_NO, @Country, @City)"
cmd.Parameters.AddWithValue("@Customer_Id", newCustomerId)
cmd.Parameters.AddWithValue("@Email", txtEmail.Text)
cmd.Parameters.AddWithValue("@Name", txtName.Text)
cmd.Parameters.AddWithValue("@Cell_NO", txtCellNo.Text)
cmd.Parameters.AddWithValue("@Country", txtCountry.Text)
cmd.Parameters.AddWithValue("@City", txtCity.Text)
Dim cmd2 As New SqlCommand
cmd2.Connection = con
cmd2.CommandText = "INSERT INTO Login (Login_Id, Password, Role) VALUES (@Login_Id,
@Password, @Role)"
cmd2.Parameters.AddWithValue("@Login_Id", newCustomerId)
cmd2.Parameters.AddWithValue("@Password", txtpassword.Text)
cmd2.Parameters.AddWithValue("@Role", "Customer")
Try
    con.Open()
    Dim rowsAffected As Integer
    rowsAffected = cmd.ExecuteNonQuery()
    cmd2.ExecuteNonQuery()
    If rowsAffected > 0 Then
        lblMessage.Text = "Registration Successful!"
        ViewState.Clear()
        Response.Redirect("Dashboard.aspx")
    Else
        lblMessage.Text = "Registration Unsuccessful!"
    End If
Catch ex As Exception
    lblMessage.Text = "Error: " & ex.Message
Finally
    con.Close()
    cmd.Dispose()
    cmd2.Dispose()
End Try
End Sub
Protected Sub home_Click(ByVal sender As Object, ByVal e As EventArgs) Handles home.Click
    Response.Redirect("Home.aspx")
End Sub
End Class

```

## Dashboard.aspx

```
<%@ Page Language="VB" MasterPageFile="~/MasterPage.master" AutoEventWireup="false"
CodeFile="Dashboard.aspx.vb" Inherits="Dashboard" title="Customer Dashboard" %>

<asp:Content ID="Content1" ContentPlaceHolderID="MainContent" runat="server">
    <h1>Customer Dashboard</h1>
    <asp:Label ID="lblGeneratedId" runat="server"></asp:Label><br /><br />
    <p>Following are your active subscription at this time: <br /></p>
    <asp:Label ID="lbltbl" runat="server"></asp:Label><br /><br />
    <asp:Button ID="viewplan" runat="server" Text="View Plans" /> <br /><br />
    <asp:Button ID="subscribeplan" runat="server" Text="Subscribe to a Plan" /><br /><br />
    <asp:Button ID="mysub" runat="server" Text="My Subscriptions" /> <br /><br />
    <asp:Button ID="makepay" runat="server" Text="Make Payment" /> <br /><br />
    <asp:Button ID="payhistory" runat="server" Text="Payment History" />
</asp:Content>
```

## Dashboard.aspx.vb

```
Imports System
Imports System.Web.UI
Imports System.Data
Imports System.Data.SqlClient
Imports System.Web.UI.WebControls

Partial Class Dashboard
    Inherits Page

    Protected Sub Retrieval(ByVal sender As Object, ByVal e As EventArgs) Handles Me.Load
        Dim CId As String
        If Request.Cookies("Customer_Id") IsNot Nothing Then
            CId = Request.Cookies("Customer_Id").Value
        Else
            Response.Redirect("Login.aspx")
        End If
        lblGeneratedId.Text = "Customer ID: " & CId
        Dim cons As String
        cons = "Data source=DESKTOP-JMV907L\SQLEXPRESS; Initial Catalog=SAAS; Integrated
Security=True"
        Dim con As New SqlConnection
        con.ConnectionString = cons
        Dim cmd As New SqlCommand
        cmd.Connection = con
        cmd.CommandText = "SELECT S.Subscription_Id, P.Plans_Name, SW.Software_Name,
S.Amount_ToBe_Paid, S.Paid_Status "
        cmd.CommandText &= "FROM Subscription S JOIN Plans P ON S.Plans_Id = P.Plans_Id "
        cmd.CommandText &= "JOIN Plans_Line PL ON PL.Plans_Id = P.Plans_Id "
        cmd.CommandText &= "JOIN Software SW ON PL.Software_Id = SW.Software_Id "
        cmd.CommandText &= "WHERE DateAdd(MONTH, S.Duration_Months, S.Start_Date) >
CAST(GETDATE() AS DATE) "
        cmd.CommandText &= "AND S.Customer_Id = @CustomerId"
        cmd.Parameters.AddWithValue("@CustomerId", CId)
        Dim dr As SqlDataReader
        con.Open()
```

```

dr = cmd.ExecuteReader()
Dim count As Integer
count = 0
lbltbl.Text = "<table border='1' cellpadding='8' cellspacing='0'>"
lbltbl.Text &= "<tr><th>Subscription Id</th><th>Plan Name</th><th>Software
Name</th><th>Amount To Be Paid</th></tr>"
Dim currentSubId As String = ""
Dim currentPlan As String = ""
Dim currentAmount As String = ""
Dim softwareList As String = ""
While dr.Read()
    If currentSubId = "" Then
        currentSubId = dr("Subscription_Id").ToString()
        currentPlan = dr("Plans_Name").ToString()
        currentAmount = dr("Amount_ToBe_Paid").ToString()
    End If
    If dr("Subscription_Id").ToString() = currentSubId Then
        softwareList &= dr("Software_Name").ToString() & "<br/>"
    Else
        lbltbl.Text &= "<tr><td>" & currentSubId & "</td><td>" & currentPlan &
"</td><td>" & softwareList & "</td><td>" & currentAmount & "</td></tr>"
        currentSubId = dr("Subscription_Id").ToString()
        currentPlan = dr("Plans_Name").ToString()
        currentAmount = dr("Amount_ToBe_Paid").ToString()
        softwareList = dr("Software_Name").ToString() & "<br/>"
        count = count + 1
    End If
End While
If currentSubId <> "" Then
    count = count + 1
    lbltbl.Text &= "<tr><td>" & currentSubId & "</td><td>" & currentPlan &
"</td><td>" & softwareList & "</td><td>" & currentAmount & "</td></tr>"
End If
lbltbl.Text &= "</table>"
If count = 0 Then
    lbltbl.Text = "No Active Subscriptions!"
End If
dr.Close()
con.Close()
cmd.Dispose()
End Sub

Protected Sub viewplan_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
viewplan.Click
    Response.Redirect("ViewPlans.aspx")
End Sub
Protected Sub subscribepan_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
subscribepan.Click
    Response.Redirect("Subscribe.aspx")
End Sub
Protected Sub mysub_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
mysub.Click
    Response.Redirect("MySubscriptions.aspx")
End Sub
Protected Sub makepay_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
makepay.Click
    Response.Redirect("MakePayment.aspx")
End Sub
Protected Sub payhistory_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
payhistory.Click
    Response.Redirect("PaymentHistory.aspx")
End Sub
End Class

```

## Login.aspx

```
<%@ Page Language="VB" MasterPageFile="~/MasterPage.master" AutoEventWireup="false"
CodeFile="Login.aspx.vb" Inherits="Login" title="Login" %>

<asp:Content ID="Content1" ContentPlaceHolderID="MainContent" runat="server">
    <h2>Customer Login</h2>
    <h3>Enter your login credentials: </h3>
    <div class="form_group">
        <label class="form_label">Customer ID:</label>
        <asp:TextBox ID="txtCId" runat="server"></asp:TextBox>
        <asp:RequiredFieldValidator ID="rfvCId" runat="server" ControlToValidate="txtCId"
ErrorMessage="Customer ID is required!" ForeColor="Red"/>
    </div>
    <div class="form_group">
        <label class="form_label">Password:</label>
        <asp:TextBox ID="txtpassword" runat="server" TextMode="Password"></asp:TextBox>
        <asp:RequiredFieldValidator ID="rfvPassword" runat="server"
ControlToValidate="txtpassword" ErrorMessage="Password is required!" ForeColor="Red"
/>
    </div>
    <asp:Button ID="btnlogin" runat="server" Text="Login" />
    <asp:Label ID="lblMessage" runat="server" ForeColor="Red"></asp:Label>
    <br /><br /><p>If you are not a registered customer, click the button below to register
yourself.</p>
    <asp:Button ID="btnRegister" runat="server" Text="Register"
CausesValidation="False"/>
</asp:Content>
```

## Login.aspx.vb

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

```
Partial Class Login
    Inherits Page
```

```
    Protected Sub Page_Load(ByVal sender As Object, ByVal e As EventArgs) Handles Me.Load
        If Not IsPostBack Then
            If Request.Cookies("Customer_Id") IsNot Nothing Then
                txtCId.Text = Request.Cookies("Customer_Id").Value
            End If
            If Request.Cookies("LockoutTime") IsNot Nothing Then
                Dim lockoutUntil As DateTime
                If DateTime.TryParse(Request.Cookies("LockoutTime").Value, lockoutUntil) Then
                    If DateTime.Now < lockoutUntil Then
                        DisableLogin()
                        lblMessage.Text = "Too many failed attempts. Try again later."
                    Else
                        RemoveLockoutCookie()
                    End If
                End If
            End If
        End If
    End Sub
```

```

Protected Sub btnlogin_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
btnlogin.Click
    If Request.Cookies("LockoutTime") IsNot Nothing Then
        Dim lockoutUntil As DateTime
        If DateTime.TryParse(Request.Cookies("LockoutTime").Value, lockoutUntil) Then
            If DateTime.Now < lockoutUntil Then
                lblMessage.Text = "You're locked out. Try again later."
                DisableLogin()
                Return
            Else
                RemoveLockoutCookie()
            End If
        End If
    End If
    Dim cons As String
    cons = "Data source=DESKTOP-JMV907L\SQLEXPRESS; Initial Catalog=SAAS; Integrated
Security=True"
    Dim con As New SqlConnection
    con.ConnectionString = cons
    Dim cmd As New SqlCommand
    cmd.Connection = con
    cmd.CommandText = "SELECT COUNT(*) FROM Login WHERE Login_Id = @Login_Id AND Password
= @Password AND Role = @Role"
    cmd.Parameters.AddWithValue("@Login_Id", txtCId.Text)
    cmd.Parameters.AddWithValue("@Password", txtpassword.Text)
    cmd.Parameters.AddWithValue("@Role", "Customer")
    Try
        con.Open()
        Dim count As Integer = Convert.ToInt32(cmd.ExecuteScalar())
        If count > 0 Then
            Dim userCookie As New HttpCookie("Customer_Id", txtCId.Text)
            userCookie.Expires = DateTime.Now.AddHours(24)
            Response.Cookies.Add(userCookie)
            RemoveFailedAttempts()
            Response.Redirect("Dashboard.aspx")
        Else
            Dim attempts As Integer = 1
            If Request.Cookies("LoginAttempts") IsNot Nothing Then
                attempts = Convert.ToInt32(Request.Cookies("LoginAttempts").Value) + 1
            End If
            If attempts >= 3 Then
                Dim lockoutCookie As New HttpCookie("LockoutTime",
DateTime.Now.AddMinutes(2).ToString())
                lockoutCookie.Expires = DateTime.Now.AddMinutes(2)
                Response.Cookies.Add(lockoutCookie)
                DisableLogin()
                lblMessage.Text = "Too many failed attempts. Login disabled for 2
minutes."
            Else
                Dim attemptCookie As New HttpCookie("LoginAttempts", attempts.ToString())
                attemptCookie.Expires = DateTime.Now.AddMinutes(5)
                Response.Cookies.Add(attemptCookie)
                lblMessage.Text = "Invalid credentials. Attempt " & attempts & " of 3."
            End If
        End If
    Catch ex As Exception
        lblMessage.Text = "Error: " & ex.Message
    Finally
        con.Close()
        cmd.Dispose()
    End Try
End Sub

```

```

Protected Sub btnRegister_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
btnRegister.Click
    Response.Redirect("CustRegister.aspx")
End Sub
Private Sub DisableLogin()
    txtCId.Enabled = False
    txtpassword.Enabled = False
    btnlogin.Enabled = False
End Sub
Private Sub RemoveFailedAttempts()
    Dim expiredCookie As New HttpCookie("LoginAttempts")
    expiredCookie.Expires = DateTime.Now.AddDays(-1)
    Response.Cookies.Add(expiredCookie)
End Sub
Private Sub RemoveLockoutCookie()
    Dim expiredCookie As New HttpCookie("LockoutTime")
    expiredCookie.Expires = DateTime.Now.AddDays(-1)
    Response.Cookies.Add(expiredCookie)
End Sub
End Class

```

## MakePayment.aspx

```

<%@ Page Language="VB" MasterPageFile="~/MasterPage.master" AutoEventWireup="false"
CodeFile="MakePayment.aspx.vb" Inherits="MakePayment" title="Payment" %>

<asp:Content ID="Content1" ContentPlaceHolderID="MainContent" runat="server">
    <h2>Fill in the Details:</h2>
    <div class="form_group">
        <label class="form_label">Select Subscription to Pay for:</label><br />
        <asp:DropDownList class="ddl" ID="ddlSubscriptions" runat="server">
        </asp:DropDownList>
        <asp:RequiredFieldValidator ID="rfvddl" runat="server"
ControlToValidate="ddlSubscriptions"
ErrorMessage="Select a Subscription!" ForeColor="Red" />
    </div>
    <div class="form_group">
        <label class="form_label">Amount to Pay:</label>
        <asp:Label ID="lblAmount" runat="server" Text="" ></asp:Label>
    </div>
    <div class="form_group">
        <label class="form_label">Select Payment Method:</label><br />
        <asp:DropDownList class="ddl" ID="ddlPaymentMethod" runat="server" >
        </asp:DropDownList>
        <asp:RequiredFieldValidator ID="rfvpayment" runat="server"
ControlToValidate="ddlPaymentMethod"
ErrorMessage="Select a Payment Method!" ForeColor="Red" />
    </div>
    <div class="form_group">
        <label class="form_label">Cell No:</label>
        <asp:TextBox ID="txtCellNo" runat="server"></asp:TextBox>
        <asp:RequiredFieldValidator ID="rfvCell" runat="server" ControlToValidate="txtCellNo"
ErrorMessage="Cell number is required!" ForeColor="Red" />
    </div>
    <div class="form_group">
        <label class="form_label">Account Number:</label>
        <asp:TextBox ID="txtAccountNo" runat="server"></asp:TextBox>
    </div>

```

```

        <asp:RequiredFieldValidator ID="rfvAccount" runat="server"
ControlToValidate="txtAccountNo"
        ErrorMessage="Account number is required!" ForeColor="Red" />
    </div><br />
    <asp:Button ID="btnpay" runat="server" Text="Pay Now" />
    <asp:Label ID="lblMessage" runat="server" ForeColor="Red"></asp:Label><br /><br />
    <asp:Button ID="payhistory" runat="server" Text="Payment History"
CausesValidation="False"/><br /><br />
    <asp:Button ID="dash" runat="server" Text="Back to Dashboard"
CausesValidation="False"/><br /><br />
</asp:Content>

```

## MakePayment.aspx.vb

```

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

Partial Class MakePayment
    Inherits Page

    Protected Sub Page_Load(ByVal sender As Object, ByVal e As EventArgs) Handles Me.Load
        If Not IsPostBack Then
            Dim CId As String
            If Request.Cookies("Customer_Id") IsNot Nothing Then
                CId = Request.Cookies("Customer_Id").Value
            Else
                Response.Redirect("Login.aspx")
            End If
            Dim cons As String
            cons = "Data Source=DESKTOP-JMV907L\SQLEXPRESS;Initial Catalog=SAAS;Integrated
Security=True"
            Dim con As New SqlConnection
            con.ConnectionString = cons
            Dim cmd As New SqlCommand
            cmd.Connection = con
            cmd.CommandText = "SELECT Subscription_Id, Plans_Name, Amount_ToBe_Paid FROM
Subscription S JOIN Plans P ON S.Plans_Id = P.Plans_Id WHERE S.Customer_Id = @CustomerId AND
S.Paid_Status = 'No'"
            cmd.Parameters.AddWithValue("@CustomerId", CId)
            con.Open()
            Dim dr As SqlDataReader
            dr = cmd.ExecuteReader()
            Dim count As Integer = 0
            ddlSubscriptions.Items.Clear()
            While dr.Read()
                count += 1
                ddlSubscriptions.Items.Add(New ListItem(dr("Plans_Name").ToString(),
dr("Subscription_Id").ToString()))
            End While
            If count = 0 Then
                ddlSubscriptions.Items.Add(New ListItem("No Subscriptions Available", ""))
            End If
            dr.Close()
            cmd.CommandText = "SELECT Method_Id, Method_Name FROM Method"
            dr = cmd.ExecuteReader()

```

```

        While dr.Read()
            ddlPaymentMethod.Items.Add(New ListItem(dr("Method_Name").ToString(),
dr("Method_Id").ToString()))
        End While
        dr.Close()
        con.Close()
    End If
End Sub

Protected Sub ddlSubscriptions_SelectedIndexChanged(ByVal sender As Object, ByVal e As
EventArgs) Handles ddlSubscriptions.SelectedIndexChanged
    If ddlSubscriptions.SelectedIndex > -1 Then
        Dim cons As String
        cons = "Data Source=DESKTOP-JMV907L\SQLEXPRESS;Initial Catalog=SAAS;Integrated
Security=True"
        Dim con As New SqlConnection
        con.ConnectionString = cons
        Dim cmd As New SqlCommand
        cmd.Connection = con
        cmd.CommandText = "SELECT Amount_ToBe_Paid FROM Subscription WHERE
Subscription_Id = @SubId"
        cmd.Parameters.AddWithValue("@SubId", ddlSubscriptions.SelectedValue)
        con.Open()
        Dim amount As Object = cmd.ExecuteScalar()
        If amount IsNot Nothing Then
            lblAmount.Text = "Amount to Pay: " & amount.ToString()
        End If
        con.Close()
    Else
        lblMessage.Text = "Please select a subscription."
    End If
End Sub

Protected Sub btnpay_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
btnpay.Click
    If Page.IsValid Then
        Dim newPaymentId As String = ""
        Dim conss As String
        conss = "Data Source=DESKTOP-JMV907L\SQLEXPRESS;Initial Catalog=SAAS;Integrated
Security=True"
        Dim connn As New SqlConnection
        connn.ConnectionString = conss
        Dim cmd As New SqlCommand
        cmd.Connection = connn
        cmd.CommandText = "SELECT TOP 1 Payment_Id FROM Payment ORDER BY Payment_Id
DESC"

        Try
            connn.Open()
            Dim lastId As Object = cmd.ExecuteScalar()
            If lastId IsNot Nothing Then
                Dim numericPart As Integer =
Integer.Parse(lastId.ToString().Substring(1))
                newPaymentId = "P" & (numericPart + 1).ToString("D3")
            Else
                newPaymentId = "P000"
            End If
            connn.Close()
        Catch ex As Exception
            lblMessage.Text = "Error generating Payment ID: " & ex.Message
        Return
    End Try
    Dim cons As String

```

```

        cons = "Data Source=DESKTOP-JMV907L\SQLEXPRESS;Initial Catalog=SAAS;Integrated
Security=True"
        Dim con As New SqlConnection
        con.ConnectionString = cons
        Dim cmd As New SqlCommand
        cmd.Connection = con
        cmd.CommandText = "SELECT Subscription_Id, Amount_ToBe_Paid FROM Subscription
WHERE Subscription_Id = @SubId"
        cmd.Parameters.AddWithValue("@SubId", ddlSubscriptions.SelectedValue)
        con.Open()
        Dim dr As SqlDataReader
        dr = cmd.ExecuteReader()
        If dr.Read() Then
            cmd.CommandText = "INSERT INTO Payment (Payment_Id, Subscription_Id,
Method_Id, Cell_NO, Amount, Account_No) VALUES (@PayId, @SubId, @MethodId, @CellNo, @Amount,
@AccountNo)"
            cmd.Parameters.Clear()
            cmd.Parameters.AddWithValue("@PayId", newPaymentId)
            cmd.Parameters.AddWithValue("@SubId", dr("Subscription_Id").ToString())
            cmd.Parameters.AddWithValue("@MethodId", ddlPaymentMethod.SelectedValue)
            cmd.Parameters.AddWithValue("@CellNo", txtCellNo.Text)
            cmd.Parameters.AddWithValue("@Amount", dr("Amount_ToBe_Paid").ToString())
            cmd.Parameters.AddWithValue("@AccountNo", txtAccountNo.Text)
        End If
        dr.Close()
        cmd.ExecuteNonQuery()
        con.Close()
        lblMessage.Text = "Payment successful. Payment ID: " & newPaymentId
    End If
End Sub
Protected Sub dash_Click(ByVal sender As Object, ByVal e As EventArgs) Handles dash.Click
    Response.Redirect("Dashboard.aspx")
End Sub
Protected Sub payhistory_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
payhistory.Click
    Response.Redirect("PaymentHistory.aspx")
End Sub
End Class

```

## MySubscriptions.aspx

```

<%@ Page Language="VB" MasterPageFile="~/MasterPage.master" AutoEventWireup="false"
CodeFile="MySubscriptions.aspx.vb" Inherits="MySubscriptions" title="Subscribed Plans" %>

```

```

<asp:Content ID="Content1" ContentPlaceHolderID="MainContent" runat="server">
    <h2>Following plans have been subscribed:<br /></h2>
    <asp:Label ID="lbltbl" runat="server"></asp:Label><br />
    <br />
    <asp:Button ID="makepay" runat="server" Text="Make Payment" /><br /><br />
    <asp:Button ID="payhistory" runat="server" Text="Payment History" /><br /><br />
    <asp:Button ID="dash" runat="server" Text="Back to Dashboard" /><br /><br />
</asp:Content>

```

## MySubscriptions.aspx.vb

```
Imports System
Imports System.Web.UI
Imports System.Data
Imports System.Data.SqlClient
Imports System.Web.UI.WebControls

Partial Class MySubscriptions
    Inherits Page

    Protected Sub Retrieval(ByVal sender As Object, ByVal e As EventArgs) Handles Me.Load
        Dim CId As String
        If Request.Cookies("Customer_Id") IsNot Nothing Then
            CId = Request.Cookies("Customer_Id").Value
        Else
            Response.Redirect("Login.aspx")
        End If
        Dim cons As String
        cons = "Data source=DESKTOP-JMV907L\SQLEXPRESS; Initial Catalog=SAAS; Integrated
Security=True"
        Dim con As New SqlConnection
        con.ConnectionString = cons
        Dim cmd As New SqlCommand
        cmd.Connection = con
        cmd.CommandText = "SELECT Subscription_Id, Plans_Name, Software_Name,
Amount_ToBe_Paid, Paid_Status "
        cmd.CommandText &= "FROM Subscription S "
        cmd.CommandText &= "JOIN Plans P ON S.Plans_Id = P.Plans_Id "
        cmd.CommandText &= "JOIN Plans_Line Pl ON Pl.Plans_Id = P.Plans_Id "
        cmd.CommandText &= "JOIN Software ON Pl.Software_Id = Software.Software_Id "
        cmd.CommandText &= "WHERE S.Customer_Id = @CustomerId"
        cmd.Parameters.AddWithValue("@CustomerId", CId)
        Dim dr As SqlDataReader
        con.Open()
        dr = cmd.ExecuteReader()
        Dim count As Integer
        count = 0
        lbltbl.Text = "<table border='1' cellpadding='8' cellspacing='0'>"
        lbltbl.Text &= "<tr><th>Subscription Id</th><th>Plan Name</th><th>Software
Name</th><th>Amount To Be Paid</th><th>Paid Status</th></tr>"
        Dim currentSubId As String = ""
        Dim currentPlan As String = ""
        Dim currentAmount As String = ""
        Dim currentStatus As String = ""
        Dim softwareList As String = ""
        While dr.Read()
            If currentSubId = "" Then
                currentSubId = dr("Subscription_Id").ToString()
                currentPlan = dr("Plans_Name").ToString()
                currentAmount = dr("Amount_ToBe_Paid").ToString()
                currentStatus = dr("Paid_Status").ToString()
            End If
            If dr("Subscription_Id").ToString() = currentSubId Then
                softwareList &= dr("Software_Name").ToString() & "<br/>"
            Else
                lbltbl.Text &= "<tr><td>" & currentSubId & "</td><td>" & currentPlan &
"</td><td>" & softwareList & "</td><td>" & currentAmount & "</td><td>" & currentStatus &
"</td></tr>"
                currentSubId = dr("Subscription_Id").ToString()
                currentPlan = dr("Plans_Name").ToString()
            End If
        End While
        lbltbl.Text &= "</table>"
    End Sub
End Class
```

```

        currentAmount = dr("Amount_ToBe_Paid").ToString()
        currentStatus = dr("Paid_Status").ToString()
        softwareList = dr("Software_Name").ToString() & "<br/>"
        count = count + 1
    End If
End While
If currentSubId <> "" Then
    count = count + 1
    lbltbl.Text &= "<tr><td>" & currentSubId & "</td><td>" & currentPlan &
"</td><td>" & softwareList & "</td><td>" & currentAmount & "</td><td>" & currentStatus &
"</td></tr>"
End If
lbltbl.Text &= "</table>"

If count = 0 Then
    lbltbl.Text = "No Plans Subscribed!"
End If
dr.Close()
con.Close()
cmd.Dispose()
End Sub

Protected Sub makepay_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
makepay.Click
    Response.Redirect("MakePayment.aspx")
End Sub
Protected Sub dash_Click(ByVal sender As Object, ByVal e As EventArgs) Handles dash.Click
    Response.Redirect("Dashboard.aspx")
End Sub
Protected Sub payhistory_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
payhistory.Click
    Response.Redirect("PaymentHistory.aspx")
End Sub
End Class

```

## PaymentHistory.aspx

```

<%@ Page Language="VB" MasterPageFile="~/MasterPage.master" AutoEventWireup="false"
CodeFile="PaymentHistory.aspx.vb" Inherits="PaymentHistory" title="Payment History" %>

<asp:Content ID="Content1" ContentPlaceHolderID="MainContent" runat="server">
    <h2>Following is the log of your past payments:<br /></h2>
    <asp:Label ID="tbl" runat="server"></asp:Label><br />
    <br />
    <asp:Button ID="dash" runat="server" Text="Back to Dashboard" /><br /><br />
</asp:Content>

```

## PaymentHistory.aspx.vb

```
Imports System
Imports System.Web.UI
Imports System.Data
Imports System.Data.SqlClient
Imports System.Web.UI.WebControls

Partial Class PaymentHistory
    Inherits Page

    Protected Sub Retrieval(ByVal sender As Object, ByVal e As EventArgs) Handles Me.Load
        Dim CId As String
        If Request.Cookies("Customer_Id") IsNot Nothing Then
            CId = Request.Cookies("Customer_Id").Value
        Else
            Response.Redirect("Login.aspx")
        End If
        Dim cons As String
        cons = "Data source=DESKTOP-JMV907L\SQLEXPRESS; Initial Catalog=SAAS; Integrated
Security=True"
        Dim con As New SqlConnection
        con.ConnectionString = cons
        Dim cmd As New SqlCommand
        cmd.Connection = con
        cmd.CommandText = "SELECT Payment_Id, S.Subscription_Id, Plans_Name, Method_Name,
Account_No, Amount, Payment_Timestamp "
        cmd.CommandText &= "FROM Payment P "
        cmd.CommandText &= "JOIN Subscription S ON P.Subscription_Id = S.Subscription_Id "
        cmd.CommandText &= "JOIN Method M ON M.Method_Id = P.Method_Id "
        cmd.CommandText &= "JOIN Plans Pl ON S.Plans_Id = Pl.Plans_Id "
        cmd.CommandText &= "WHERE S.Customer_Id = @CustomerId"
        cmd.Parameters.AddWithValue("@CustomerId", CId)
        Dim dr As SqlDataReader
        con.Open()
        dr = cmd.ExecuteReader()
        tbl.Text = "<table border='1' cellpadding='20' cellspacing='0'>"
        tbl.Text &= " <tr><th>Payment Id</th><th>Subscription Id</th><th>Plan
Name</th><th>Method Name</th><th>Account No.</th><th>Amount</th><th>Payment Time</th></tr>"
        While dr.Read()
            tbl.Text &= "<tr>" & "<td>" & dr("Payment_Id").ToString() & "</td>" & "<td>" &
dr("Subscription_Id").ToString() & "</td>"
            tbl.Text &= "<td>" & dr("Plans_Name").ToString() & "</td>" & "<td>" &
dr("Method_Name").ToString() & "</td>"
            tbl.Text &= "<td>" & dr("Account_No").ToString() & "</td>" & "<td>" &
dr("Amount").ToString() & "</td>"
            tbl.Text &= "<td>" & dr("Payment_Timestamp").ToString() & "</td>" & "</tr>"
        End While
        tbl.Text &= "</table>"
        dr.Close()
        con.Close()
        cmd.Dispose()
    End Sub

    Protected Sub dash_Click(ByVal sender As Object, ByVal e As EventArgs) Handles dash.Click
        Response.Redirect("Dashboard.aspx")
    End Sub
End Class
```

```
<%@ Page Language="VB" MasterPageFile="~/MasterPage.master" AutoEventWireup="false"
CodeFile="SBM.aspx.vb" Inherits="SBM" title="Subscription Billing Manager" %>
```

[illegible]



```

cmd.CommandText = "SELECT Plans_Id FROM Plans"
con.Open()
Dim dr As SqlDataReader
dr = cmd.ExecuteReader()
ddlPlanId.Items.Clear()
While dr.Read()
    ddlPlanId.Items.Add(dr("Plans_Id").ToString())
End While
dr.Close()
con.Close()
End Sub
Protected Sub btnUpdatePlan_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
btnUpdatePlan.Click
    Dim planId As String = ddlPlanId.SelectedValue
    Dim column As String = ddlPlanColumn.SelectedValue
    Dim newValue As String = txtPlanNewValue.Text
    Dim cons As String
    cons = "Data Source=DESKTOP-JMV907L\SQLEXPRESS;Initial Catalog=SAAS;Integrated
Security=True"
    Dim con As New SqlConnection
    con.ConnectionString = cons
    Dim cmd As New SqlCommand
    cmd.Connection = con
    cmd.CommandText = "UPDATE Plans SET " & column & " = " & @newValue & " WHERE Plan_Id
= @planId "
    cmd.Parameters.AddWithValue("@newValue", newValue)
    cmd.Parameters.AddWithValue("@planId", planId)

    con.Open()
    Try
        Dim rowsAffected As Integer = cmd.ExecuteNonQuery()
        If rowsAffected > 0 Then
            lblPlanUpdateStatus.Text = "Value Updated Successfully!"
        Else
            lblPlanUpdateStatus.Text = "No Value Updated!"
        End If
    Catch ex As Exception
        lblPlanUpdateStatus.Text = "Error: " & ex.Message
    Finally
        con.Close()
    End Try
End Sub
Protected Sub btnViewPlanLines_Click(ByVal sender As Object, ByVal e As EventArgs)
Handles btnViewPlanLines.Click
    Dim cons As String
    cons = "Data Source=DESKTOP-JMV907L\SQLEXPRESS;Initial Catalog=SAAS;Integrated
Security=True"
    Dim con As New SqlConnection
    con.ConnectionString = cons
    Dim cmd As New SqlCommand
    cmd.Connection = con
    cmd.CommandText = "SELECT Plans_Id, Software_Id, Software_Level FROM Plans_Line"
    con.Open()
    Dim dr As SqlDataReader
    dr = cmd.ExecuteReader()
    lblPlanLineTable.Text = "<br/><br/><table border='1' cellpadding='8'
cellspacing='0'>"
    lblPlanLineTable.Text &= "<tr><th>Plan Id</th><th>Software Id</th><th>Software
Level</th></tr>"
    While dr.Read()
        lblPlanLineTable.Text &= "<tr><td>" & dr("Plans_Id") & "</td><td>" &
dr("Software_Id") & "</td><td>" & dr("Software_Level") & "</td></tr>"
    End While

```

```

        lblPlanLineTable.Text &= "</table>"
        dr.Close()
        con.Close()
    End Sub
    Protected Sub btnEditPlanLines_Click(ByVal sender As Object, ByVal e As EventArgs)
Handles btnEditPlanLines.Click
        lblSelectPlanLineId.Visible = True
        ddlPlanLineId.Visible = True
        lblPlanLineColumn.Visible = True
        ddlPlanLineColumn.Visible = True
        lblPlanLineNewValue.Visible = True
        txtPlanLineNewValue.Visible = True
        btnUpdatePlanLine.Visible = True
        lblPlanLineUpdateStatus.Visible = True
        Dim cons As String
        cons = "Data Source=DESKTOP-JMV907L\SQLEXPRESS;Initial Catalog=SAAS;Integrated
Security=True"
        Dim con As New SqlConnection
        con.ConnectionString = cons
        Dim cmd As New SqlCommand
        cmd.Connection = con
        cmd.CommandText = "SELECT Plans_Id FROM Plans_Line"
        con.Open()
        Dim dr As SqlDataReader = cmd.ExecuteReader()
        ddlPlanLineId.Items.Clear()
        While dr.Read()
            ddlPlanLineId.Items.Add(dr("Plans_Id").ToString())
        End While
        dr.Close()
        con.Close()
    End Sub
    Protected Sub btnUpdatePlanLine_Click(ByVal sender As Object, ByVal e As EventArgs)
Handles btnUpdatePlanLine.Click
        Dim planLineId As String = ddlPlanLineId.SelectedValue
        Dim column As String = ddlPlanLineColumn.SelectedValue
        Dim newValue As String = txtPlanLineNewValue.Text
        Dim cons As String
        cons = "Data Source=DESKTOP-JMV907L\SQLEXPRESS;Initial Catalog=SAAS;Integrated
Security=True"
        Dim con As New SqlConnection
        con.ConnectionString = cons
        Dim cmd As New SqlCommand
        cmd.Connection = con
        cmd.CommandText = "UPDATE Plans_Line SET " & column & " = " & @newValue & " WHERE
Plans_Id = @planLineId "
        cmd.Parameters.AddWithValue("@newValue", newValue)
        cmd.Parameters.AddWithValue("@planLineId", planLineId)

        con.Open()
        Try
            Dim rowsAffected As Integer = cmd.ExecuteNonQuery()
            If rowsAffected > 0 Then
                lblPlanLineUpdateStatus.Text = "Value Updated Successfully!"
            Else
                lblPlanLineUpdateStatus.Text = "No Value Updated!"
            End If
        Catch ex As Exception
            lblPlanLineUpdateStatus.Text = "Error: " & ex.Message
        Finally
            con.Close()
        End Try
    End Sub

```

```

Protected Sub btnViewSoftware_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
btnViewSoftware.Click
    Dim cons As String
    cons = "Data Source=DESKTOP-JMV907L\SQLEXPRESS;Initial Catalog=SAAS;Integrated
Security=True"
    Dim con As New SqlConnection
    con.ConnectionString = cons
    Dim cmd As New SqlCommand
    cmd.Connection = con
    cmd.CommandText = "SELECT Software_Id, Software_Name FROM Software"
    con.Open()
    Dim dr As SqlDataReader
    dr = cmd.ExecuteReader()
    lblSoftwareTable.Text = "<br/><br/><table border='1' cellpadding='8'
cellspacing='0'>"
    lblSoftwareTable.Text &= "<tr><th>Software Id</th><th>Software Name</th></tr>"
    While dr.Read()
        lblSoftwareTable.Text &= "<tr><td>" & dr("Software_Id") & "</td><td>" &
dr("Software_Name") & "</td></tr>"
    End While
    lblSoftwareTable.Text &= "</table>"
    dr.Close()
    con.Close()
End Sub

Protected Sub btnEditSoftware_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
btnEditSoftware.Click
    lblSelectSoftwareId.Visible = True
    ddlSoftwareId.Visible = True
    lblSoftwareColumn.Visible = True
    ddlSoftwareColumn.Visible = True
    lblSoftwareNewValue.Visible = True
    txtSoftwareNewValue.Visible = True
    btnUpdateSoftware.Visible = True
    lblSoftwareUpdateStatus.Visible = True
    Dim cons As String
    cons = "Data Source=DESKTOP-JMV907L\SQLEXPRESS;Initial Catalog=SAAS;Integrated
Security=True"
    Dim con As New SqlConnection
    con.ConnectionString = cons
    Dim cmd As New SqlCommand
    cmd.Connection = con
    cmd.CommandText = "SELECT Software_Id FROM Software"
    con.Open()
    Dim dr As SqlDataReader
    dr = cmd.ExecuteReader()
    ddlSoftwareId.Items.Clear()
    While dr.Read()
        ddlSoftwareId.Items.Add(dr("Software_Id").ToString())
    End While
    dr.Close()
    con.Close()
End Sub

Protected Sub btnUpdateSoftware_Click(ByVal sender As Object, ByVal e As EventArgs)
Handles btnUpdateSoftware.Click
    Dim softwareId As String = ddlSoftwareId.SelectedValue
    Dim column As String = ddlSoftwareColumn.SelectedValue
    Dim newValue As String = txtSoftwareNewValue.Text
    Dim cons As String
    cons = "Data Source=DESKTOP-JMV907L\SQLEXPRESS;Initial Catalog=SAAS;Integrated
Security=True"
    Dim con As New SqlConnection
    con.ConnectionString = cons
    Dim cmd As New SqlCommand

```

```

        cmd.Connection = con
        cmd.CommandText = "UPDATE Software SET " & column & " = " & @newValue & " WHERE
Plans_Id = @planLineId "
        cmd.Parameters.AddWithValue("@newValue", newValue)
        cmd.Parameters.AddWithValue("@planLineId", planLineId)
        con.Open()
        Try
            Dim rowsAffected As Integer = cmd.ExecuteNonQuery()
            If rowsAffected > 0 Then
                lblSoftwareUpdateStatus.Text = "Value Updated Successfully!"
            Else
                lblSoftwareUpdateStatus.Text = "No Value Updated!"
            End If
        Catch ex As Exception
            lblSoftwareUpdateStatus.Text = "Error: " & ex.Message
        Finally
            con.Close()
        End Try
    End Sub
End Class

```

## Subscribe.aspx

```

<%@ Page Language="VB" MasterPageFile="~/MasterPage.master" AutoEventWireup="false"
CodeFile="Subscribe.aspx.vb" Inherits="Subscribe" title="Subscribe a Plan" %>

<asp:Content ID="Content1" ContentPlaceHolderID="MainContent" runat="server">
    <h2>Fill in the Details:</h2>
    <div class="form_group">
        <label class="form_label">Select Plan to Subscribe:</label><br />
        <asp:DropDownList class="ddl" ID="ddlPlans" runat="server">
        </asp:DropDownList>
        <asp:RequiredFieldValidator ID="rfvddl" runat="server" ControlToValidate="ddlPlans"
ErrorMessage="Select a Subscription!" ForeColor="Red" />
    </div>
    <div class="form_group">
        <label class="form_label">Duration (Months):</label>
        <asp:TextBox ID="txtDuration" runat="server"></asp:TextBox>
        <asp:RequiredFieldValidator ID="rfvDuration" runat="server"
ControlToValidate="txtDuration"
ErrorMessage="Duration is required!" ForeColor="Red" />
    </div>
    <div class="form_group">
        <label class="form_label">Amount to Pay:</label>
        <asp:Label ID="lblAmount" runat="server" Text="" ></asp:Label>
    </div><br /><br />
    <asp:Button ID="btnSubscribe" runat="server" Text="Subscribe Now" />
    <asp:Label ID="lblMessage" runat="server" ForeColor="Red"></asp:Label><br /><br />
    <asp:Button ID="mysub" runat="server" Text="My Subscriptions" CausesValidation="False"/>
<br /><br />
    <asp:Button ID="makepay" runat="server" Text="Make Payment" CausesValidation="False" />
<br /><br />
    <asp:Button ID="payhistory" runat="server" Text="Payment History"
CausesValidation="False"/><br /><br />
    <asp:Button ID="dash" runat="server" Text="Back to Dashboard"
CausesValidation="False"/><br /><br />
</asp:Content>

```

## Subscribe.aspx.vb

```
Imports System
Imports System.Web.UI
Imports System.Data
Imports System.Data.SqlClient
Imports System.Web.UI.WebControls

Partial Class Subscribe
    Inherits Page
    Protected Sub Page_Load(ByVal sender As Object, ByVal e As EventArgs) Handles Me.Load
        If Not IsPostBack Then
            Dim cons As String
            cons = "Data source=DESKTOP-JMV907L\SQLEXPRESS; Initial Catalog=SAAS; Integrated
Security=True"
            Dim con As New SqlConnection
            con.ConnectionString = cons
            Dim cmd As New SqlCommand
            cmd.Connection = con
            cmd.CommandText = "SELECT Plans_Id, Plans_Name FROM Plans"
            con.Open()
            Dim dr As SqlDataReader
            dr = cmd.ExecuteReader()
            ddlPlans.Items.Clear()
            While dr.Read()
                ddlPlans.Items.Add(New ListItem(dr("Plans_Name").ToString(),
dr("Plans_Id").ToString()))
            End While
            dr.Close()
            con.Close()
        End If
    End Sub
    Protected Sub btnSubscribe_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
btnSubscribe.Click
        Dim newSubscriptionId As String = ""
        Dim conss As String
        conss = "Data source=DESKTOP-JMV907L\SQLEXPRESS; Initial Catalog=SAAS; Integrated
Security=True"
        Dim connn As New SqlConnection
        connn.ConnectionString = conss
        Dim cmdd As New SqlCommand
        cmdd.Connection = connn
        cmdd.CommandText = "SELECT TOP 1 Subscription_Id FROM Subscription ORDER BY
Subscription_Id DESC"

        Try
            connn.Open()
            Dim lastId As Object = cmdd.ExecuteScalar()
            If lastId IsNot Nothing Then
                Dim numericPart As Integer = Integer.Parse(lastId.ToString().Substring(2))
                newSubscriptionId = "SB" & (numericPart + 1).ToString("D3")
            Else
                newSubscriptionId = "SB000"
            End If
            connn.Close()
        Catch ex As Exception
            lblMessage.Text = "Error generating Subscription ID: " & ex.Message
            Return
        End Try
    End Sub
End Class
```

```

Dim planId As String = ddlPlans.SelectedValue
Dim duration As Integer = txtDuration.Text
Dim CId As String
If Request.Cookies("Customer_Id") IsNot Nothing Then
    CId = Request.Cookies("Customer_Id").Value
Else
    Response.Redirect("Login.aspx")
End If
Dim cons As String = "Data source=DESKTOP-JMV907L\SQLEXPRESS; Initial Catalog=SAAS;
Integrated Security=True"
Dim con As New SqlConnection
con.ConnectionString = cons
Dim cmd As New SqlCommand
cmd.Connection = con
cmd.CommandText = "SELECT Price_per_month FROM Plans WHERE Plans_Id = @planId"
cmd.Parameters.AddWithValue("@planId", planId)
con.Open()
Dim price As Decimal = cmd.ExecuteScalar()
Dim discount As Decimal = 0.1D
Dim totalAmount As Decimal = price * duration
Dim discountedAmount As Decimal = totalAmount * (1 - discount)
lblAmount.Text = "Amount to Pay: " & discountedAmount.ToString()
cmd.CommandText = "INSERT INTO Subscription (Subscription_Id, Customer_Id, Plans_Id,
Duration_Months, Percent_Discount, Amount_ToBe_Paid) "
cmd.CommandText &= "VALUES (@newSubscriptionId, @CId, @plansId, @duration, @discount,
@discountedAmount)"
cmd.Parameters.AddWithValue("@newSubscriptionId", newSubscriptionId)
cmd.Parameters.AddWithValue("@CId", CId)
cmd.Parameters.AddWithValue("@plansId", planId)
cmd.Parameters.AddWithValue("@duration", duration)
cmd.Parameters.AddWithValue("@discount", (discount * 100))
cmd.Parameters.AddWithValue("@discountedAmount", discountedAmount)

Try
    cmd.ExecuteNonQuery()
    lblMessage.Text = "Successfully Subscribed to the Plan!      Plan Id: " &
newSubscriptionId
Catch ex As Exception
    lblMessage.Text = "Error: " & ex.Message
End Try
con.Close()
End Sub
Protected Sub dash_Click(ByVal sender As Object, ByVal e As EventArgs) Handles dash.Click
    Response.Redirect("Dashboard.aspx")
End Sub
Protected Sub mysub_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
mysub.Click
    Response.Redirect("MySubscriptions.aspx")
End Sub
Protected Sub makepay_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
makepay.Click
    Response.Redirect("MakePayment.aspx")
End Sub
Protected Sub payhistory_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
payhistory.Click
    Response.Redirect("PaymentHistory.aspx")
End Sub
End Class

```

## ViewPlans.aspx

```
<%@ Page Language="VB" MasterPageFile="~/MasterPage.master" AutoEventWireup="false"
CodeFile="ViewPlans.aspx.vb" Inherits="ViewPlans" title="View Plans" %>

<asp:Content ID="Content1" ContentPlaceHolderID="MainContent" runat="server">
    <h2>Following plans are being offered:<br /></h2>
    <asp:Label ID="tbl" runat="server"></asp:Label><br />
    <br />
    <asp:Button ID="subscribeplan" runat="server" Text="Subscribe to a Plan" /><br /><br />
    <asp:Button ID="dash" runat="server" Text="Back to Dashboard" /><br /><br />
</asp:Content>
```

## ViewPlans.aspx.vb

```
Imports System
Imports System.Web.UI
Imports System.Data
Imports System.Data.SqlClient
Imports System.Web.UI.WebControls

Partial Class ViewPlans
    Inherits Page

    Protected Sub Retrieval(ByVal sender As Object, ByVal e As EventArgs) Handles Me.Load
        Dim cons As String
        cons = "Data source=DESKTOP-JMV907L\SQLEXPRESS; Initial Catalog=SAAS; Integrated
Security=True"
        Dim con As New SqlConnection
        con.ConnectionString = cons
        Dim cmd As New SqlCommand
        cmd.Connection = con
        cmd.CommandText = "Select Plans_Name, Software_Name, Software_Level"
        cmd.CommandText &= " from Plans join Plans_Line on Plans.Plans_Id =
Plans_Line.Plans_Id"
        cmd.CommandText &= " join Software on Software.Software_Id=Plans_Line.Software_Id"
        Dim dr As SqlDataReader
        con.Open()
        dr = cmd.ExecuteReader()
        tbl.Text = "<table border='1' cellpadding='10' cellspacing='0'>"
        tbl.Text &= "<tr><th>Plan Name</th><th>Software Name</th><th>Service Level</th></tr>"
        Dim currentPlan As String = ""
        Dim softwareList As String = ""
        Dim levelList As String = ""
        While dr.Read()
            If currentPlan = "" Then
                currentPlan = dr("Plans_Name").ToString()
            End If
            If dr("Plans_Name").ToString() = currentPlan Then
                softwareList &= dr("Software_Name").ToString() & "<br/>"
                levelList &= dr("Software_Level").ToString() & "<br/>"
            Else
                tbl.Text &= "<tr><td>" & currentPlan & "</td><td>" & softwareList &
"</td><td>" & levelList & "</td></tr>"
            End If
        End While
        tbl.Text &= "</table>"
    End Sub
End Class
```

```

        currentPlan = dr("Plans_Name").ToString()
        softwareList = dr("Software_Name").ToString() & "<br/>"
        levelList = dr("Software_Level").ToString() & "<br/>"
    End If
End While
If currentPlan <> "" Then
    tbl.Text &= "<tr><td>" & currentPlan & "</td><td>" & softwareList & "</td><td>" &
levelList & "</td></tr>"
End If
tbl.Text &= "</table>"
dr.Close()
con.Close()
cmd.Dispose()
End Sub
Protected Sub subscribeplan_Click(ByVal sender As Object, ByVal e As EventArgs) Handles
subscribeplan.Click
    Response.Redirect("Subscribe.aspx")
End Sub

Protected Sub dash_Click(ByVal sender As Object, ByVal e As EventArgs) Handles dash.Click
    Response.Redirect("Dashboard.aspx")
End Sub

End Class

```

## AboutUs.aspx

```

<%@ Page Language="VB" MasterPageFile="~/MasterPage.master" AutoEventWireup="false"
CodeFile="AboutUs.aspx.vb" Inherits="AboutUs" title="About Us" %>

```

```

<asp:Content ID="Content1" ContentPlaceHolderID="MainContent" runat="server">
    <h2>About Us</h2>
    <p>We help businesses take control of their subscriptions.</p>
    <p>Our SaaS Subscription Management Platform simplifies billing, automates renewals, and
gives you full visibility into your recurring services – all in one place.
</p>
    <p>Built with care by a small team of developers who believe subscription management should
be effortless and elegant.</p>
    <p>Whether you're managing five subscriptions or five hundred, we're here to keep it clean
and under control.</p>
</asp:Content>

```

## AboutUs.aspx.vb

```

Partial Class AboutUs
    Inherits System.Web.UI.Page

End Class

```

## ContactUs.aspx

```
<%@ Page Language="VB" MasterPageFile="~/MasterPage.master" AutoEventWireup="false"
CodeFile="ContactUs.aspx.vb" Inherits="ContactUs" title="Contact Us" %>

<asp:Content ID="Content1" ContentPlaceHolderID="MainContent" runat="server">
    <h2>Contact Us</h2>
    <p>Have questions, feedback, or just want to say hello? We'd love to hear from you.</p>
    <p>Phone: +92 000 0000001</p>
    <p>Email: <a href="mailto:support@saas.com">support@saas.com</a></p>
    <p>Our inbox is always open.</p>
</asp:Content>
```

## ContactUs.aspx.vb

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

End Class
```

## MasterPage.master

```
<%@ Master Language="VB" AutoEventWireup="false" CodeFile="MasterPage.master.vb"
Inherits="MasterPage" %>

<!DOCTYPE html>
<html>
<head runat="server">
    <title>SaaS SUBSCRIPTION PLATFORM</title>
    <link rel="stylesheet" href="styles.css?v=6" />
</head>
<body>
    <form id="form1" runat="server">
        <div class="header">
            <h1>SaaS SUBSCRIPTION PLATFORM</h1>
        </div>

        <div class="navbar">
            <a href="Home.aspx">Home Page</a>
            <a href="Login.aspx">Customer Services</a>
            <a href="AdminLogin.aspx">Administrative Tasks</a>
        </div>

        <div class="maincontent">
            <asp:ContentPlaceHolder ID="MainContent" runat="server" />
        </div>
    </form>
</body>
</html>
```

## MasterPage.master.vb

```
Partial Class MasterPage
    Inherits System.Web.UI.MasterPage
End Class
```

## styles.css

```
body {
    font-family: Arial, sans-serif;
    margin: 0;
    padding: 0;
}

.header {
    background-color: #333366;
    color: white;
    padding: 12px;
    text-align: center;
}

.navbar {
    background-color: #505050;
    padding: 10px;
    text-align: center;
}

    .navbar a {
        padding: 10px 20px;
        display: inline-block;
        text-decoration: none;
        color: white;
    }

        .navbar a:hover {
            background-color: transparent;
            text-decoration: underline;
        }

.maincontent {
    margin: 20px;
}

.form_group {
    margin-bottom: 15px;
}

.form_label {
    font-weight: bold;
    display: block;
}

button, input[type="submit"], input[type="button"] {
    height: 30px;
```

```
}  
.ddl{  
    height: 25px;  
}
```

## Web.config

```
<?xml version="1.0"?>  
<configuration>  
  <!--  
    For a description of web.config changes see  
    http://go.microsoft.com/fwlink/?LinkId=235367.  
  
    The following attributes can be set on the <httpRuntime> tag.  
  <system.Web>  
    <httpRuntime targetFramework="4.8.1" />  
  </system.Web>  
-->  
<system.web>  
  <compilation debug="false" targetFramework="4.8.1"/>  
  <pages controlRenderingCompatibilityVersion="4.0"/>  
</system.web>  
  <connectionStrings>  
    <add name="MyConn"  
      connectionString="Data Source=SAAS_PLATFORM.mssql.somee.com;Initial  
Catalog=SAAS_PLATFORM;User  
ID=IqraMehmood_SQLLogin_1;Password=aoctyvcl5r;TrustServerCertificate=True; "  
      providerName="System.Data.SqlClient" />  
  </connectionStrings>  
</configuration>
```