

Login.aspx:

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

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title>Survey System - Login</title>
  <link rel="stylesheet" type="text/css" href="StyleSheet.css" />
</head>
<body>
<form id="form1" runat="server">

  <h2>Login</h2>

  <asp:Label ID="lblEmail" runat="server" AssociatedControlID="txtEmail">Email
Address</asp:Label>
  <asp:TextBox ID="txtEmail" runat="server" placeholder="Enter your
email"></asp:TextBox>

  <br /><br />

  <asp:Label ID="lblPassword" runat="server"
AssociatedControlID="txtPassword">Password</asp:Label>
  <asp:TextBox ID="txtPassword" runat="server" TextMode="Password" placeholder="Enter
password"></asp:TextBox>

  <br /><br />

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

  <br /><br />

  <asp:Label ID="lblMsg" runat="server" EnableViewState="false"></asp:Label>

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

Login.aspx.vb:

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

Partial Class Login

Inherits System.Web.UI.Page

Protected Sub btnLogin_Click(sender As Object, e As EventArgs)

Dim cs As String =

ConfigurationManager.ConnectionStrings("SurveyApplication_DB").ConnectionString

Dim con As New SqlConnection(cs)

Dim q As String = "SELECT UserID, Role FROM Users WHERE Email=@e AND
Password=@p"

Dim cmd As New SqlCommand(q, con)

cmd.Parameters.AddWithValue("@e", txtEmail.Text)

cmd.Parameters.AddWithValue("@p", txtPassword.Text)

con.Open()

Dim dr As SqlDataReader = cmd.ExecuteReader()

If dr.Read() Then

Session("UserID") = dr("UserID")

Session("Role") = dr("Role")

If dr("Role").ToString() = "Builder" Then

Response.Redirect("SurveyBuilder_Dashboard.aspx")

ElseIf dr("Role").ToString() = "Surveyor" Then

Response.Redirect("SurveyorDashboard.aspx")

ElseIf dr("Role").ToString() = "Admin" Then

Response.Redirect("AdminDashboard.aspx")

End If

Else

lblMsg.Text = "Invalid Email or Password"

End If

con.Close()

End Sub

End Class

AdminDashboard.aspx:

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

```
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title>Admin Dashboard</title>
  <link rel="stylesheet" type="text/css" href="StyleSheet.css" />
</head>
<body>
  <form runat="server">
    <h2>Admin Dashboard</h2>
    <asp:Label ID="lblWelcome" runat="server"></asp:Label>
    <br /><br />
    <asp:Button ID="btnUsers" runat="server" Text="Manage Users"
OnClick="btnUsers_Click" />
    <asp:Button ID="btnSurveys" runat="server" Text="Control Surveys"
OnClick="btnSurveys_Click" />
    <asp:Button ID="btnResults" runat="server" Text="View Results"
OnClick="btnResults_Click" />
    <asp:Button ID="btnMonitor" runat="server" Text="System Monitor"
OnClick="btnMonitor_Click" />
    <br /><br />
    <asp:Button ID="btnLogout" runat="server" Text="Logout"
OnClick="btnLogout_Click" />

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

AdminDashboard.aspx.vb:

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

```
  Protected Sub Page_Load(sender As Object, e As EventArgs) Handles Me.Load
    If Session("Role") Is Nothing OrElse Session("Role").ToString() <> "Admin" Then
      Response.Redirect("Login.aspx")
    End If
    If Not IsPostBack Then
      lblWelcome.Text = "Welcome, Admin (ID: " & Session("UserID") & ")"
    End If
  End Sub
```

```
  Protected Sub btnUsers_Click(sender As Object, e As EventArgs)
    Response.Redirect("AdminManageUsers.aspx")
```

End Sub

```
Protected Sub btnSurveys_Click(sender As Object, e As EventArgs)
    Response.Redirect("AdminControlSurveys.aspx")
```

End Sub

```
Protected Sub btnResults_Click(sender As Object, e As EventArgs)
    Response.Redirect("AdminViewResults.aspx")
```

End Sub

```
Protected Sub btnMonitor_Click(sender As Object, e As EventArgs)
    Response.Redirect("AdminMonitor.aspx")
```

End Sub

```
Protected Sub btnLogout_Click(sender As Object, e As EventArgs)
    Session.Abandon()
    Response.Redirect("Login.aspx")
```

End Sub

End Class

AdminControlSurveys.aspx:

```
<%@ Page Language="VB" AutoEventWireup="false"
CodeFile="AdminControlSurveys.aspx.vb" Inherits="AdminControlSurveys" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Control Surveys</title>
    <link rel="stylesheet" type="text/css" href="StyleSheet.css" />
</head>
<body>
<form runat="server">

    <h2>Control Surveys</h2>

    <div class="grid-wrapper">
<asp:GridView ID="gvSurveys" runat="server"
    AutoGenerateColumns="false"
    DataKeyNames="SurveyID"
    OnRowCommand="gvSurveys_RowCommand">

    <Columns>
        <asp:BoundField DataField="SurveyID" HeaderText="ID" />
        <asp:BoundField DataField="Title" HeaderText="Title" />
        <asp:BoundField DataField="Creator" HeaderText="Builder" />
        <asp:BoundField DataField="Status" HeaderText="Status" />
        <asp:ButtonField ButtonType="Button" CommandName="Activate" Text="Activate" />
    </Columns>
    </asp:GridView>
    </div>
</form>
</body>
</html>
```

```

        <asp:ButtonField ButtonType="Button" CommandName="Deactivate"
Text="Deactivate" />
    </Columns>

</asp:GridView>
</div>
<br />
<asp:Button ID="btnBack" runat="server" Text="Back" OnClick="btnBack_Click" />
<br />
<asp:Label ID="lblMsg" runat="server"></asp:Label>

</form>
</body>
</html>

```

AdminControlSurveys.aspx.vb:

```

Imports System.Data
Imports System.Data.SqlClient
Imports System.Configuration

```

```

Partial Class AdminControlSurveys
    Inherits System.Web.UI.Page

```

```

    Protected Sub Page_Load(sender As Object, e As EventArgs) Handles Me.Load
        If Session("Role") Is Nothing OrElse Session("Role").ToString() <> "Admin" Then
            Response.Redirect("Login.aspx")
        End If
        If Not IsPostBack Then
            LoadSurveys()
        End If
    End Sub

```

```

    Sub LoadSurveys()
        Dim cs As String =
ConfigurationManager.ConnectionStrings("SurveyApplication_DB").ConnectionString
        Dim con As New SqlConnection(cs)
        Dim q As String =
            "SELECT s.SurveyID, s.Title, u.Name AS Creator, CASE WHEN s.IsActive = 1 THEN
'Active' ELSE 'Inactive' END AS Status FROM Surveys s INNER JOIN Users u ON
s.CreatedBy = u.UserID ORDER BY s.SurveyID DESC"
        Dim cmd As New SqlCommand(q, con)
        con.Open()
        Dim da As New SqlDataAdapter(cmd)
        Dim dt As New DataTable()
        da.Fill(dt)
        gvSurveys.DataSource = dt
    End Sub

```

```

        gvSurveys.DataBind()
        con.Close()
    End Sub

    Protected Sub gvSurveys_RowCommand(sender As Object, e As
GridViewCommandEventArgs)
        If e.CommandName <> "Activate" AndAlso e.CommandName <> "Deactivate" Then
Return

            Dim rowIndex As Integer = Convert.ToInt32(e.CommandArgument)
            Dim surveyID As Integer = Convert.ToInt32(gvSurveys.DataKeys(rowIndex).Value)
            Dim newStatus As Integer = If(e.CommandName = "Activate", 1, 0)

            Try
                Dim cs As String =
ConfigurationManager.ConnectionStrings("SurveyApplication_DB").ConnectionString
                Dim con As New SqlConnection(cs)
                Dim cmd As New SqlCommand("UPDATE Surveys SET IsActive = @s WHERE
SurveyID = @id", con)
                cmd.Parameters.AddWithValue("@s", newStatus)
                cmd.Parameters.AddWithValue("@id", surveyID)
                con.Open()
                cmd.ExecuteNonQuery()
                con.Close()
                lblMsg.Text = "Survey updated."
                LoadSurveys()
            Catch ex As Exception
                lblMsg.Text = "Error: " & ex.Message
            End Try
        End Sub

    Protected Sub btnBack_Click(sender As Object, e As EventArgs)
        Response.Redirect("AdminDashboard.aspx")
    End Sub
End Class

```

AdminManageUsers.aspx:

```

<%@ Page Language="VB" AutoEventWireup="false"
CodeFile="AdminManageUsers.aspx.vb" Inherits="AdminManageUsers" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Manage Users</title>
    <link href="StyleSheet.css" rel="stylesheet" type="text/css" />
</head>
<body>
    <form runat="server">

```

```

<h2 class="page-heading">Manage Users</h2>
<p class="page-subheading">View, manage and remove registered users</p>

<br />
<div class="grid-wrapper">
<asp:GridView ID="gvUsers" runat="server"
AutoGenerateColumns="false"
DataKeyNames="UserID"
OnRowCommand="gvUsers_RowCommand">
<Columns>
<asp:BoundField DataField="UserID" HeaderText="ID" />
<asp:BoundField DataField="Name" HeaderText="Name" />
<asp:BoundField DataField="Email" HeaderText="Email" />
<asp:BoundField DataField="Role" HeaderText="Role" />
<asp:ButtonField ButtonType="Button" CommandName="DeleteUser"
Text="Delete" HeaderText="Action" ControlStyle-CssClass="btn btn-danger" />
</Columns>
</asp:GridView>
</div>
<br />
<asp:Button ID="btnBack" runat="server" Text="← Back" OnClick="btnBack_Click"
CssClass="btn btn-outline" />
<br />
<asp:Label ID="lblMsg" runat="server"></asp:Label>
</form>

</body>
</html>

```

AdminManageUsers.aspx.vb:

```

Imports System.Data
Imports System.Data.SqlClient
Imports System.Configuration

```

```

Partial Class AdminManageUsers
Inherits System.Web.UI.Page

```

```

Protected Sub Page_Load(sender As Object, e As EventArgs) Handles Me.Load
If Session("Role") Is Nothing OrElse Session("Role").ToString() <> "Admin" Then
Response.Redirect("Login.aspx")
End If
If Not IsPostBack Then
LoadUsers()
End If
End Sub

```

```

Sub LoadUsers()
    Dim cs As String =
ConfigurationManager.ConnectionStrings("SurveyApplication_DB").ConnectionString
    Dim con As New SqlConnection(cs)
    Dim cmd As New SqlCommand("SELECT UserID, Name, Email, Role FROM Users
ORDER BY Role, Name", con)
    con.Open()
    Dim da As New SqlDataAdapter(cmd)
    Dim dt As New DataTable()
    da.Fill(dt)
    gvUsers.DataSource = dt
    gvUsers.DataBind()
    con.Close()
End Sub

```

```

Protected Sub gvUsers_RowCommand(sender As Object, e As
GridViewCommandEventArgs)
    If e.CommandName = "DeleteUser" Then
        Dim rowIndex As Integer = Convert.ToInt32(e.CommandArgument)
        Dim userID As Integer = Convert.ToInt32(gvUsers.DataKeys(rowIndex).Value)

        If userID = Convert.ToInt32(Session("UserID")) Then
            lblMsg.Text = "You cannot delete your own account."
            Return
        End If

```

```

    Try
        Dim cs As String =
ConfigurationManager.ConnectionStrings("SurveyApplication_DB").ConnectionString
        Dim con As New SqlConnection(cs)
        Dim cmd As New SqlCommand("DELETE FROM Users WHERE UserID = @id",
con)
        cmd.Parameters.AddWithValue("@id", userID)
        con.Open()
        cmd.ExecuteNonQuery()
        con.Close()
        lblMsg.Text = "User deleted."
        LoadUsers()
    Catch ex As Exception
        lblMsg.Text = "Error: " & ex.Message
    End Try
End If
End Sub

```

```

Protected Sub btnBack_Click(sender As Object, e As EventArgs)
    Response.Redirect("AdminDashboard.aspx")
End Sub
End Class

```

AdminMonitor.aspx:

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

```
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title>System Monitor</title>
  <link rel="stylesheet" type="text/css" href="StyleSheet.css" />
</head>
<body>

<form runat="server">

  <h2>System Monitor</h2>

  Total Surveys:
  <asp:Label ID="lblTotalSurveys" runat="server"></asp:Label>

  <br /><br />

  Active Surveys:
  <asp:Label ID="lblActiveSurveys" runat="server"></asp:Label>

  <br /><br />

  Total Responses:
  <asp:Label ID="lblTotalResponses" runat="server"></asp:Label>

  <br /><br />

  Total Users:
  <asp:Label ID="lblTotalUsers" runat="server"></asp:Label>

  <br /><br />

  <asp:Button ID="btnBack" runat="server" Text="Back" OnClick="btnBack_Click" />

</form>

</body>
</html>
```

AdminMonitor.aspx.vb:

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

Partial Class AdminMonitor
Inherits System.Web.UI.Page

```
Protected Sub Page_Load(sender As Object, e As EventArgs) Handles Me.Load  
    If Session("Role") Is Nothing OrElse Session("Role").ToString() <> "Admin" Then  
        Response.Redirect("Login.aspx")  
    End If  
    LoadStats()  
End Sub
```

```
Sub LoadStats()  
    Dim cs As String =  
ConfigurationManager.ConnectionStrings("SurveyApplication_DB").ConnectionString  
    Dim con As New SqlConnection(cs)  
    con.Open()  
    lblTotalSurveys.Text = GetScalar(con, "SELECT COUNT(*) FROM Surveys")  
    lblActiveSurveys.Text = GetScalar(con, "SELECT COUNT(*) FROM Surveys WHERE  
IsActive = 1")  
    lblTotalResponses.Text = GetScalar(con, "SELECT COUNT(*) FROM Responses")  
    lblTotalUsers.Text = GetScalar(con, "SELECT COUNT(*) FROM Users")  
    con.Close()  
End Sub
```

```
Function GetScalar(con As SqlConnection, query As String) As String  
    Dim cmd As New SqlCommand(query, con)  
    Dim result As Object = cmd.ExecuteScalar()  
    If result Is Nothing OrElse IsDBNull(result) Then Return "0"  
    Return result.ToString()  
End Function
```

```
Protected Sub btnBack_Click(sender As Object, e As EventArgs)  
    Response.Redirect("AdminDashboard.aspx")  
End Sub  
End Class
```

AdminViewResults.aspx:

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

```
<!DOCTYPE html>  
<html xmlns="http://www.w3.org/1999/xhtml">  
<head runat="server">  
    <title>View Results</title>  
    <link rel="stylesheet" type="text/css" href="StyleSheet.css" />  
</head>
```

```

<body>

<form runat="server">

    <h2>View Results</h2>

    Select Survey:
    <asp:DropDownList ID="ddlSurveys" runat="server"
        AutoPostBack="True"
        OnSelectedIndexChanged="ddlSurveys_SelectedIndexChanged">
    </asp:DropDownList>

    <br /><br />

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

        <div class="section">
            <h3>All Responses</h3>
            <asp:GridView ID="gvResponses" runat="server"
AutoGenerateColumns="true"></asp:GridView>
        </div>

        <div class="section">
            <h3>Answer Breakdown</h3>
            <asp:GridView ID="gvAnalysis" runat="server"
AutoGenerateColumns="true"></asp:GridView>
        </div>

    </asp:Panel>

    <br /><br />

    <asp:Button ID="btnBack" runat="server" Text="Back" OnClick="btnBack_Click" />

    <br /><br />

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

</form>

</body>
</html>

```

AdminViewResults.aspx.vb:

```

Imports System.Data
Imports System.Data.SqlClient
Imports System.Configuration

```

Partial Class AdminViewResults
Inherits System.Web.UI.Page

```
Protected Sub Page_Load(sender As Object, e As EventArgs) Handles Me.Load  
    If Session("Role") Is Nothing OrElse Session("Role").ToString() <> "Admin" Then  
        Response.Redirect("Login.aspx")  
    End If  
    If Not IsPostBack Then  
        LoadSurveyList()  
    End If  
End Sub
```

```
Sub LoadSurveyList()  
    Dim cs As String =  
ConfigurationManager.ConnectionStrings("SurveyApplication_DB").ConnectionString  
    Dim con As New SqlConnection(cs)  
    Dim cmd As New SqlCommand("SELECT SurveyID, Title FROM Surveys ORDER BY  
SurveyID DESC", con)  
    con.Open()  
    Dim da As New SqlDataAdapter(cmd)  
    Dim dt As New DataTable()  
    da.Fill(dt)  
    ddlSurveys.DataSource = dt  
    ddlSurveys.DataTextField = "Title"  
    ddlSurveys.DataValueField = "SurveyID"  
    ddlSurveys.DataBind()  
    ddlSurveys.Items.Insert(0, New ListItem("-- Select --", "0"))  
    con.Close()  
End Sub
```

```
Protected Sub ddlSurveys_SelectedIndexChanged(sender As Object, e As EventArgs)  
    If ddlSurveys.SelectedValue = "0" Then  
        pnlResponses.Visible = False  
        Return  
    End If
```

```
    Dim surveyID As Integer = Convert.ToInt32(ddlSurveys.SelectedValue)  
    Dim cs As String =  
ConfigurationManager.ConnectionStrings("SurveyApplication_DB").ConnectionString  
    Dim con As New SqlConnection(cs)  
    con.Open()  
  
    Dim q1 As String =  
        "SELECT r.RespondID, " &  
        "ISNULL(u.Name, 'Anonymous') AS Respondent, " &  
        "q.QuestionText, " &  
        "o.OptionText AS Answer " &
```

```
"FROM Responses r " &
"INNER JOIN Answers a ON r.ResponseID = a.ResponseID " &
"INNER JOIN Questions q ON a.QuestionID = q.QuestionID " &
"INNER JOIN Options o ON a.SelectedOptionID = o.OptionID " &
"LEFT JOIN Users u ON r.UserID = u.UserID " &
"WHERE r.SurveyID = @s " &
"ORDER BY r.ResponseID"
```

```
Dim cmd1 As New SqlCommand(q1, con)
cmd1.Parameters.AddWithValue("@s", surveyID)
Dim dt1 As New DataTable()
Dim da1 As New SqlDataAdapter(cmd1)
da1.Fill(dt1)
gvResponses.DataSource = dt1
gvResponses.DataBind()
```

```
Dim q2 As String =
"SELECT q.QuestionText, " &
"o.OptionText AS Answer, " &
"COUNT(a.AnswerID) AS TotalVotes " &
"FROM Questions q " &
"INNER JOIN Options o ON o.QuestionID = q.QuestionID " &
"LEFT JOIN Answers a ON a.QuestionID = q.QuestionID AND a.SelectedOptionID
= o.OptionID " &
"WHERE q.SurveyID = @s " &
"GROUP BY q.QuestionText, o.OptionText " &
"ORDER BY q.QuestionText, TotalVotes DESC"
```

```
Dim cmd2 As New SqlCommand(q2, con)
cmd2.Parameters.AddWithValue("@s", surveyID)
Dim dt2 As New DataTable()
Dim da2 As New SqlDataAdapter(cmd2)
da2.Fill(dt2)
gvAnalysis.DataSource = dt2
gvAnalysis.DataBind()
```

```
con.Close()
pnlResponses.Visible = True
End Sub
```

```
Protected Sub btnBack_Click(sender As Object, e As EventArgs)
Response.Redirect("AdminDashboard.aspx")
End Sub
End Class
```

SurveyBuilder_Dashboard.aspx:

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

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title>Dashboard - Survey Builder</title>
  <link rel="stylesheet" type="text/css" href="StyleSheet.css" />
</head>
<body>
<form id="form1" runat="server">

  <h2 style="text-align:center;">Survey Builder Dashboard</h2>

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

  <asp:Button ID="btnCreate" runat="server" Text="Create Survey"
OnClick="btnCreate_Click" />

  <asp:Button ID="btnAddQ" runat="server" Text="Add Questions"
OnClick="btnAddQ_Click" />

  <asp:Button ID="btnResults" runat="server" Text="View Results"
OnClick="btnResults_Click" />

  <br /><br />

  <asp:Button ID="btnLogout" runat="server" Text="Logout" OnClick="btnLogout_Click" />

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

SurveyBuilder_Dashboard.aspx.vb:

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

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

    If Session("Role") Is Nothing OrElse Session("Role").ToString() <> "Builder" Then
      Response.Redirect("Login.aspx")
    End If

    If Not IsPostBack Then
      lblWelcome.Text = "Welcome Builder ID: " & Session("UserID")
    End If
  End Sub
End Class
```

End If

End Sub

```
Protected Sub btnCreate_Click(sender As Object, e As EventArgs)
    Response.Redirect("CreateSurvey.aspx")
End Sub
```

```
Protected Sub btnAddQ_Click(sender As Object, e As EventArgs)
    Response.Redirect("AddQuestions.aspx")
End Sub
```

```
Protected Sub btnResults_Click(sender As Object, e As EventArgs)
    Response.Redirect("ViewResults.aspx")
End Sub
```

```
Protected Sub btnLogout_Click(sender As Object, e As EventArgs)
    Session.Abandon()
    Response.Redirect("Login.aspx")
End Sub
```

End Class

CreateSurvey.aspx:

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

```
<!DOCTYPE html>
```

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

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

```
    <title>Survey System - Create Survey</title>
```

```
    <link rel="stylesheet" type="text/css" href="StyleSheet.css" />
```

```
</head>
```

```
<body>
```

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

```
    <h2>Create Survey</h2>
```

```
    <asp:Label runat="server" AssociatedControlID="txtTitle">Survey Title</asp:Label>
```

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

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

```
    <asp:CheckBox ID="chkAnon" runat="server" Text="Anonymous Survey" />
```

```
    <br />
```

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

```

<asp:Button ID="btnSave" runat="server"
    Text="Save Survey"
    OnClick="btnSave_Click" />

<br />
    <asp:Button ID="btnBack" runat="server" Text="Back" OnClick="btnBack_Click" />
<br />
</form>
</body>
</html>

```

CreateSurvey.aspx.vb:

```

Imports System.Data.SqlClient
Imports System.Configuration

```

```

Partial Class CreateSurvey
    Inherits System.Web.UI.Page

```

```

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

```

```

        If Session("Role") Is Nothing OrElse Session("Role").ToString() <> "Builder" Then
            Response.Redirect("Login.aspx")
        End If

```

```

    End Sub

```

```

    Protected Sub btnSave_Click(sender As Object, e As EventArgs)

```

```

        Dim cs As String =
        ConfigurationManager.ConnectionStrings("SurveyApplication_DB").ConnectionString
        Dim con As New SqlConnection(cs)

```

```

        Dim q As String = "INSERT INTO Surveys (Title, CreatedBy, IsAnonymous, IsActive)
        OUTPUT INSERTED.SurveyID VALUES (@t,@c,@a,1)"
        Dim cmd As New SqlCommand(q, con)

```

```

        cmd.Parameters.AddWithValue("@t", txtTitle.Text)
        cmd.Parameters.AddWithValue("@c", Session("UserID"))
        cmd.Parameters.AddWithValue("@a", chkAnon.Checked)

```

```

        con.Open()
        Dim surveyId As Integer = cmd.ExecuteScalar()
        con.Close()

```

```

        Response.Redirect("AddQuestions.aspx")

```

```
End Sub
Protected Sub btnBack_Click(sender As Object, e As EventArgs)
    Response.Redirect("SurveyBuilder_Dashboard.aspx")
End Sub
End Class
```

AddQuestions.aspx:

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

```
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Add Questions</title>
    <link rel="stylesheet" type="text/css" href="StyleSheet.css" />
</head>

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

    <h2>Add Questions</h2>

    <label>Select Survey</label>
    <asp:DropDownList ID="ddlSurvey" runat="server"
        CssClass="dropdown"
        AutoPostBack="True"
        OnSelectedIndexChanged="ddlSurvey_SelectedIndexChanged">
</asp:DropDownList>

    <asp:TextBox ID="txtQ" runat="server" placeholder="Enter question"></asp:TextBox>

    <asp:DropDownList ID="ddlType" runat="server"
        AutoPostBack="True"
        OnSelectedIndexChanged="ddlType_SelectedIndexChanged"
        CssClass="dropdown">
        <asp:ListItem>MCQ</asp:ListItem>
        <asp:ListItem>TrueFalse</asp:ListItem>
    </asp:DropDownList>

    <asp:Panel ID="pnIMCQ" runat="server">
        <asp:TextBox ID="txt1" runat="server" placeholder="Option 1"></asp:TextBox>
        <asp:TextBox ID="txt2" runat="server" placeholder="Option 2"></asp:TextBox>
        <asp:TextBox ID="txt3" runat="server" placeholder="Option 3"></asp:TextBox>
        <asp:TextBox ID="txt4" runat="server" placeholder="Option 4"></asp:TextBox>
    </asp:Panel>

    <asp:Button ID="btnAdd" runat="server"
```

```

        Text="Add Question"
        OnClick="btnAdd_Click"
        CssClass="btn-primary" />

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

<h3>Existing Questions</h3>

<asp:GridView ID="gvQuestions" runat="server"
    AutoGenerateColumns="true"
    CssClass="mGrid">
</asp:GridView>

    <br />
    <asp:Button ID="btnBack" runat="server" Text="Back" OnClick="btnBack_Click" />
<br />
</form>
</body>
</html>

```

AddQuestions.aspx.vb:

```

Imports System.Configuration
Imports System.Data
Imports System.Data.SqlClient

```

```

Partial Class AddQuestions
    Inherits System.Web.UI.Page

```

```

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

```

```

        If Session("Role") Is Nothing OrElse Session("Role").ToString() <> "Builder" Then
            Response.Redirect("Login.aspx")
        End If

```

```

        If Not IsPostBack Then
            loadSurveys()
            pnlMCQ.Visible = True
        End If

```

```

    End Sub

```

```

    Sub loadSurveys()

```

```

        Dim cs =
        ConfigurationManager.ConnectionStrings("SurveyApplication_DB").ConnectionString
        Dim con As New SqlConnection(cs)

```

```
Dim q As String = "SELECT SurveyID, Title FROM Surveys WHERE CreatedBy=@id"  
Dim cmd As New SqlCommand(q, con)
```

```
cmd.Parameters.AddWithValue("@id", Session("UserID"))
```

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

```
da.Fill(dt)
```

```
ddlSurvey.DataSource = dt  
ddlSurvey.DataTextField = "Title"  
ddlSurvey.DataValueField = "SurveyID"  
ddlSurvey.DataBind()
```

```
ddlSurvey.Items.Insert(0, New ListItem("Select Survey", "0"))
```

```
End Sub
```

```
Protected Sub ddlSurvey_SelectedIndexChanged(sender As Object, e As EventArgs)  
    loadQuestions()  
End Sub
```

```
Protected Sub ddlType_SelectedIndexChanged(sender As Object, e As EventArgs)  
    pnlMCQ.Visible = (ddlType.SelectedValue = "MCQ")  
End Sub
```

```
Protected Sub btnAdd_Click(sender As Object, e As EventArgs)
```

```
    If ddlSurvey.SelectedValue = "0" Then  
        lblMsg.Text = "Select a survey first"  
        Exit Sub  
    End If
```

```
    Dim cs =  
    ConfigurationManager.ConnectionStrings("SurveyApplication_DB").ConnectionString  
    Dim con As New SqlConnection(cs)
```

```
    Dim q As String = "INSERT INTO Questions (SurveyID, QuestionText, QuestionType) "  
&  
        "OUTPUT INSERTED.QuestionID " &  
        "VALUES (@s,@q,@t)"
```

```
    Dim cmd As New SqlCommand(q, con)
```

```
    cmd.Parameters.AddWithValue("@s", ddlSurvey.SelectedValue)  
    cmd.Parameters.AddWithValue("@q", txtQ.Text)  
    cmd.Parameters.AddWithValue("@t", ddlType.SelectedValue)
```

```
con.Open()  
Dim qid As Integer = cmd.ExecuteScalar()  
con.Close()
```

```
con.Open()
```

```
If ddlType.SelectedValue = "MCQ" Then  
    insertOption(con, qid, txt1.Text)  
    insertOption(con, qid, txt2.Text)  
    insertOption(con, qid, txt3.Text)  
    insertOption(con, qid, txt4.Text)  
Else  
    insertOption(con, qid, "True")  
    insertOption(con, qid, "False")  
End If
```

```
con.Close()
```

```
lblMsg.Text = "Question added successfully"
```

```
loadQuestions()
```

```
End Sub
```

```
Sub insertOption(con As SqlConnection, qid As Integer, text As String)
```

```
    If text.Trim() = "" Then Exit Sub
```

```
    Dim q As String = "INSERT INTO Options (QuestionID, OptionText) VALUES (@q,@t)"  
    Dim cmd As New SqlCommand(q, con)
```

```
    cmd.Parameters.AddWithValue("@q", qid)  
    cmd.Parameters.AddWithValue("@t", text)
```

```
    cmd.ExecuteNonQuery()
```

```
End Sub
```

```
Sub loadQuestions()
```

```
    If ddlSurvey.SelectedValue = "0" Then Exit Sub
```

```
    Dim cs =  
    ConfigurationManager.ConnectionStrings("SurveyApplication_DB").ConnectionString  
    Dim con As New SqlConnection(cs)
```

```

Dim q As String = "SELECT QuestionText, QuestionType FROM Questions WHERE
SurveyID=@s"
Dim cmd As New SqlCommand(q, con)

cmd.Parameters.AddWithValue("@s", ddlSurvey.SelectedValue)

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

da.Fill(dt)

gvQuestions.DataSource = dt
gvQuestions.DataBind()

End Sub

Protected Sub btnBack_Click(sender As Object, e As EventArgs)
Response.Redirect("SurveyBuilder_Dashboard.aspx")
End Sub
End Class

```

ViewResults.aspx:

```

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

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title>Survey Results</title>
  <link rel="stylesheet" type="text/css" href="StyleSheet.css" />
</head>
<body>

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

  <h2>Survey Results</h2>

  <label>Select Survey</label>

  <asp:DropDownList ID="ddlSurvey" runat="server"
    AutoPostBack="True"
    OnSelectedIndexChanged="ddlSurvey_SelectedIndexChanged">
  </asp:DropDownList>

  <br /><br />

  <h3>Responses</h3>

```

```

<div class="grid-wrapper">
  <asp:GridView ID="gvResults" runat="server"
    AutoGenerateColumns="true">
  </asp:GridView>

  <br />
  <asp:Button ID="btnBack" runat="server" Text="Back" OnClick="btnBack_Click" />
<br />
  <asp:Label ID="lblMsg" runat="server" EnableViewState="false"></asp:Label>
</div>
</form>

</body>
</html>

```

ViewResults.aspx.vb:

```

Imports System.Configuration
Imports System.Data
Imports System.Data.SqlClient

```

```

Partial Class ViewResults
  Inherits System.Web.UI.Page

```

```

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

```

```

    If Session("Role") Is Nothing OrElse Session("Role").ToString() <> "Builder" Then
      Response.Redirect("Login.aspx")
    End If

```

```

    If Not IsPostBack Then
      loadSurveys()
    End If

```

```

  End Sub

```

```

  Sub loadSurveys()

```

```

    Dim cs =
    ConfigurationManager.ConnectionStrings("SurveyApplication_DB").ConnectionString

```

```

    Using con As New SqlConnection(cs)

```

```

        Dim q As String = "SELECT SurveyID, Title FROM Surveys WHERE
        CreatedBy=@id"

```

```

        Dim cmd As New SqlCommand(q, con)
        cmd.Parameters.AddWithValue("@id", Session("UserID"))

```

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

```
ddlSurvey.DataSource = dt
ddlSurvey.DataTextField = "Title"
ddlSurvey.DataValueField = "SurveyID"
ddlSurvey.DataBind()
```

```
ddlSurvey.Items.Insert(0, New ListItem("Select Survey", "0"))
```

```
End Using
```

```
End Sub
```

```
Protected Sub ddlSurvey_SelectedIndexChanged(sender As Object, e As EventArgs)
Handles ddlSurvey.SelectedIndexChanged
```

```
loadResults()
```

```
End Sub
```

```
Sub loadResults()
```

```
Dim cs =
```

```
ConfigurationManager.ConnectionStrings("SurveyApplication_DB").ConnectionString
```

```
Using con As New SqlConnection(cs)
```

```
Dim q As String =
```

```
"SELECT " &
```

```
"CASE WHEN r.UserID IS NULL THEN 'Anonymous' ELSE u.Name END AS
```

```
[Surveyor Name], " &
```

```
"r.SubmittedAt AS [Date Submitted], " &
```

```
"q.QuestionText AS [Question], " &
```

```
"o.OptionText AS [Answer Selected] " &
```

```
"FROM Responses r " &
```

```
"LEFT JOIN Users u ON r.UserID = u.UserID " &
```

```
"INNER JOIN Answers a ON r.ResponseID = a.ResponseID " &
```

```
"INNER JOIN Questions q ON a.QuestionID = q.QuestionID " &
```

```
"INNER JOIN Options o ON a.SelectedOptionID = o.OptionID " &
```

```
"WHERE r.SurveyID = @s " &
```

```
"ORDER BY r.ResponseID, q.QuestionID"
```

```
Dim cmd As New SqlCommand(q, con)
```

```
If ddlSurvey.SelectedValue <> "0" Then
```

```
cmd.Parameters.AddWithValue("@s", ddlSurvey.SelectedValue)
```

```

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

Try
    da.Fill(dt)
    gvResults.DataSource = dt
    gvResults.DataBind()
    lblMsg.Text = ""

Catch ex As Exception
    lblMsg.Text = "Error loading results: " & ex.Message
    lblMsg.ForeColor = Drawing.Color.Red
End Try

End If

End Using

End Sub
Protected Sub btnBack_Click(sender As Object, e As EventArgs)
    Response.Redirect("SurveyBuilder_Dashboard.aspx")
End Sub
End Class

```

SurveyorDashboard.aspx:

```

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

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Surveyor Dashboard</title>
    <link rel="stylesheet" type="text/css" href="StyleSheet.css" />
</head>
<body>

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

    <h2>Available Surveys</h2>

    <div class="grid-wrapper">

        <asp:GridView ID="gvSurveys" runat="server" AutoGenerateColumns="False"
            EmptyDataText="No surveys available">

            <Columns>

```

```

        <asp:BoundField DataField="SurveyID" HeaderText="ID" />
        <asp:BoundField DataField="Title" HeaderText="Title" />

        <asp:TemplateField>
            <ItemTemplate>
                <asp:Button ID="btnTake" runat="server" Text="Take Survey"
                    CommandArgument='<%# Eval("SurveyID") %>'
                    OnClick="btnTake_Click" />
            </ItemTemplate>
        </asp:TemplateField>

    </Columns>

</asp:GridView>

</div>

<br /><br />

<asp:Label ID="lblNoSurveys" runat="server"
    Text="No surveys available."
    ForeColor="Red" Visible="False" />

<br /><br />

<asp:Button ID="btnLogout" runat="server"
    Text="Logout"
    OnClick="btnLogout_Click" />

</form>

</body>
</html>

```

SurveyorDashboard.aspx.vb:

```

Imports System.Data
Imports System.Data.SqlClient
Imports System.Configuration

```

```

Partial Class SurveyorDashboard
    Inherits System.Web.UI.Page

```

```

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

```

```

        If Session("Role") Is Nothing OrElse Session("Role").ToString() <> "Surveyor" Then
            Response.Redirect("Login.aspx")

```

```

End If

If Not IsPostBack Then
    LoadSurveys()
End If

End Sub

Sub LoadSurveys()

    Dim cs As String =
ConfigurationManager.ConnectionStrings("SurveyApplication_DB").ConnectionString

    Using con As New SqlConnection(cs)

        Dim q As String =
            "SELECT SurveyID, Title FROM Surveys WHERE IsActive = 1 " &
            "AND SurveyID NOT IN (SELECT SurveyID FROM Responses WHERE UserID =
@UserID)"

        Using cmd As New SqlCommand(q, con)

            cmd.Parameters.AddWithValue("@UserID", Session("UserID"))

            Using da As New SqlDataAdapter(cmd)

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

                gvSurveys.DataSource = dt
                gvSurveys.DataBind()

                If dt.Rows.Count = 0 Then
                    lblNoSurveys.Visible = True
                    gvSurveys.Visible = False
                Else
                    lblNoSurveys.Visible = False
                    gvSurveys.Visible = True
                End If

            End Using

        End Using

    End Using

End Sub

Protected Sub btnTake_Click(sender As Object, e As EventArgs)

```

```
Dim btn As Button = CType(sender, Button)
Session("SurveyID") = btn.CommandArgument
Response.Redirect("TakeSurvey.aspx")
```

```
End Sub
```

```
Protected Sub btnLogout_Click(sender As Object, e As EventArgs)
```

```
    Session.Abandon()
    Response.Redirect("Login.aspx")
```

```
End Sub
```

```
End Class
```

TakeSurvey.aspx:

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

```
<!DOCTYPE html>
```

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

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

```
    <title>Take Survey</title>
```

```
    <link rel="stylesheet" type="text/css" href="StyleSheet.css" />
```

```
</head>
```

```
<body>
```

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

```
    <h2>Fill Survey</h2>
```

```
    <asp:Repeater ID="rptQuestions" runat="server">
```

```
        <ItemTemplate>
```

```
            <h4><%# Eval("QuestionText") %></h4>
```

```
            <asp:RadioButtonList ID="rblOptions" runat="server"
```

```
                DataSource='<%# GetOptions(Eval("QuestionID")) %>'
```

```
                DataTextField="OptionText"
```

```
                DataValueField="OptionID">
```

```
            </asp:RadioButtonList>
```

```
            <asp:HiddenField ID="hfQID" runat="server"
```

```
                Value='<%# Eval("QuestionID") %>' />
```

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

```

        </ItemTemplate>
</asp:Repeater>

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

<br /><br />
<asp:Button ID="btnBack" runat="server" Text="Back" OnClick="btnBack_Click" />
<br />
<asp:Label ID="lblMsg" runat="server"></asp:Label>

</form>
</body>
</html>

```

TakeSurvey.aspx.vb:

```

Imports System.Data
Imports System.Data.SqlClient
Imports System.Configuration

Partial Class TakeSurvey
    Inherits System.Web.UI.Page

    Dim cs As String =
    ConfigurationManager.ConnectionStrings("SurveyApplication_DB").ConnectionString

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

        If Session("SurveyID") Is Nothing Then
            Response.Redirect("SurveyorDashboard.aspx")
        End If

        Dim isAnonymous As Boolean = False

        Dim con As New SqlConnection(cs)
        Dim cmd As New SqlCommand("SELECT IsAnonymous FROM Surveys WHERE
SurveyID=@id", con)
        cmd.Parameters.AddWithValue("@id", Session("SurveyID"))

        con.Open()
        Dim result = cmd.ExecuteScalar()
        con.Close()

        If result IsNot Nothing Then
            isAnonymous = Convert.ToBoolean(result)
        End If
    End Sub

```

```

ViewState("IsAnonymous") = isAnonymous

If Not isAnonymous Then
    If Session("Role") Is Nothing OrElse Session("Role").ToString() <> "Surveyor" Then
        Response.Redirect("Login.aspx")
    End If
End If

If Not isAnonymous Then

    Dim con2 As New SqlConnection(cs)
    Dim q As String = "SELECT COUNT(*) FROM Responses WHERE SurveyID=@s
AND UserID=@u"
    Dim cmd2 As New SqlCommand(q, con2)

    cmd2.Parameters.AddWithValue("@s", Session("SurveyID"))
    cmd2.Parameters.AddWithValue("@u", Session("UserID"))

    con2.Open()
    Dim count As Integer = Convert.ToInt32(cmd2.ExecuteScalar())
    con2.Close()

    If count > 0 Then
        lblMsg.Text = "You have already submitted this survey."
        lblMsg.ForeColor = Drawing.Color.Red

        rptQuestions.Visible = False
        btnSubmit.Visible = False

        Exit Sub
    End If

End If

If Not IsPostBack Then
    LoadQuestions()
End If

End Sub

Sub LoadQuestions()

    Dim con As New SqlConnection(cs)

    Dim q As String = "SELECT QuestionID, QuestionText FROM Questions WHERE
SurveyID=@s"
    Dim cmd As New SqlCommand(q, con)

```

```

cmd.Parameters.AddWithValue("@s", Session("SurveyID"))

con.Open()

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

rptQuestions.DataSource = dt
rptQuestions.DataBind()

con.Close()

End Sub

Public Function GetOptions(qid As Object) As DataTable

    Dim con As New SqlConnection(cs)

    Dim q As String = "SELECT OptionID, OptionText FROM Options WHERE
QuestionID=@q"
    Dim cmd As New SqlCommand(q, con)

    cmd.Parameters.AddWithValue("@q", qid)

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

    Return dt

End Function

Protected Sub btnSubmit_Click(sender As Object, e As EventArgs)

    Dim con As New SqlConnection(cs)
    con.Open()

    Dim isAnonymous As Boolean = Convert.ToBoolean(ViewState("IsAnonymous"))

    Dim q1 As String = "INSERT INTO Responses (SurveyID, UserID) OUTPUT
INSERTED.ResponseID VALUES (@s,@u)"
    Dim cmd1 As New SqlCommand(q1, con)

    cmd1.Parameters.AddWithValue("@s", Session("SurveyID"))

    If isAnonymous Then

```

```

        cmd1.Parameters.AddWithValue("@u", DBNull.Value)
    Else
        cmd1.Parameters.AddWithValue("@u", Session("UserID"))
    End If

    Dim responseld As Integer = cmd1.ExecuteScalar()

    For Each item As RepeaterItem In rptQuestions.Items

        Dim rbl As RadioButtonList = CType(item.FindControl("rblOptions"), RadioButtonList)
        Dim hf As HiddenField = CType(item.FindControl("hfQID"), HiddenField)

        If rbl.SelectedValue <> "" Then

            Dim q2 As String = "INSERT INTO Answers (ResponseID, QuestionID,
SelectedOptionID) VALUES (@r,@q,@o)"
            Dim cmd2 As New SqlCommand(q2, con)

            cmd2.Parameters.AddWithValue("@r", responseld)
            cmd2.Parameters.AddWithValue("@q", hf.Value)
            cmd2.Parameters.AddWithValue("@o", rbl.SelectedValue)

            cmd2.ExecuteNonQuery()

        End If

    Next

    con.Close()

    lblMsg.Text = "Survey submitted successfully!"
    lblMsg.ForeColor = Drawing.Color.Green

End Sub

Protected Sub btnBack_Click(sender As Object, e As EventArgs)
    Response.Redirect("SurveyorDashboard.aspx")
End Sub
End Class

```

StyleSheet.css:

```

body {
    margin: 0;
    font-family: Arial, sans-serif;
    background: #f5f1ea;
    display: flex;
    justify-content: center;
}

```

```
    align-items: center;
    min-height: 100vh;
}

form {
    width: 70%;
    background: #fffaf3;
    padding: 30px;
    border: 1px solid #e0d6c8;
}

h2 {
    font-size: 22px;
    margin-bottom: 15px;
    text-align: center;
}

h3 {
    margin-top: 20px;
}

input[type="text"],
input[type="password"],
.dropdown {
    width: 100%;
    padding: 10px;
    margin: 8px 0;
    border: 1px solid #d6c8b8;
    background: #fff;
}

input[type="submit"],
.btn-primary,
.btn-outline {
    display: block;
    margin: 10px auto;
    padding: 10px 18px;
    border: none;
    background: #f4b6c2;
    color: white;
    cursor: pointer;
    text-align: center;
}

.btn-outline {
    background: transparent;
    border: 1px solid #f4b6c2;
    color: #f4b6c2;
}
```

```
}
```

```
.btn-outline:hover,  
input[type="submit"]:hover,  
.btn-primary:hover {  
  background: #e89dad;  
  color: white;  
}
```

```
.mGrid {  
  width: 90%;  
  margin: 20px auto;  
  border-collapse: collapse;  
}
```

```
.mGrid th,  
.mGrid td {  
  border: 1px solid #e0d6c8;  
  padding: 10px;  
}
```

```
#lbIMsg {  
  display: block;  
  text-align: center;  
  margin-top: 10px;  
  color: #333;  
}
```

```
.grid-wrapper {  
  display: flex;  
  justify-content: center;  
  margin-top: 20px;  
}
```