

First we made a database for this lab.

We made the following tables.

1. Users
2. Surveys
3. Questions
4. Options
5. Responses
6. Answers

We created the following roles in our db.

1. **Builder**: Creates and manages surveys and adds questions.
2. **Surveyor**: Participates in surveys by submitting responses.
3. **Admin**: Monitors the system, manages users, and oversees all surveys.

Relationship Overview

User–Survey: One user can create many surveys.

Survey–Questions: One survey contains many questions.

Question–Options: Each question has multiple options.

Survey–Responses: One survey gets many responses from users.

Response–Answers: Each response stores multiple answers .

Workflow:

User logs in (authentication via email & password)

System identifies role (Builder / Surveyor / Admin)

Redirects user to respective dashboard

Builder creates survey → adds questions & options

Surveyor selects survey → submits responses

Admin monitors system, users, surveys, and results

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>

```

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

```

Survey Builder 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>
```

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 Or 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
```

```
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 />
<small>Users can submit without login.</small>

<br /><br />

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

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

```

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()

Session("SurveyID") = surveyId

```
Response.Redirect("AddQuestions.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="pnlMCQ" 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>
```

```
</form>
```

```
</body>
```

```
</html>
```

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 Or Session("Role").ToString() <> "Builder" Then  
Response.Redirect("Login.aspx")  
End If
```

```
If Not IsPostBack Then  
loadSurveys()  
pnIMCQ.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

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>

```

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 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

```

Surveyor Pages:

Surveyor Dashboard:

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>
```

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
```

Take Survey:

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>
```

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

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 responseId 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", responseId)
        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
```

Admin Pages

Admin Dashboard:

.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>
```

.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
```

Admin Control Surveys:

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" />
<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>

```

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

```

```

End Sub

```

```

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
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>

```

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

```

Admin Monitor:

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>
```

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>
```

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
```

```
' Check for Admin Role
```

```
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
```

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

```
' Order by SurveyID to see latest surveys first
```

```
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"))
```

```
End Using
```

```
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
```

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

```
Dim q1 As String = "SELECT r.ResponseID, " &
"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, o.OptionID " &
"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()
End Using
```

```
pnlResponses.Visible = True
End Sub
```

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