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IAD LAB 11 Survey Building Report

Survey.aspx:

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

```
<!DOCTYPE html>
```

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

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

```
    <title>Online Survey System</title>
```

```
    <style>
```

```
        body { font-family: Arial, sans-serif; margin: 20px; }
```

```
        .role-selection { margin-bottom: 20px; padding: 10px; background: #f0f0f0; }
```

```
        .builder-panel, .surveyor-panel, .admin-panel { display: none; margin-top: 20px; padding: 15px; border: 1px solid #ddd; }
```

```
        .question { margin-bottom: 15px; padding: 10px; background: #f9f9f9; }
```

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

```
        table { border-collapse: collapse; width: 100%; }
```

```
        th, td { border: 1px solid #ddd; padding: 8px; text-align: left; }
```

```
        th { background-color: #f2f2f2; }
```

```
    </style>
```

```
</head>
```

```
<body>
```

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

```
        <h1>Online Survey System</h1>
```

```
    <!-- Login Panel -->
```

```
    <div id="loginPanel" runat="server" style="margin-bottom:20px;">
```

```
        <h3>Login</h3>
```

```
        <asp:Label ID="lblLoginMessage" runat="server" ForeColor="Red"></asp:Label><br />
```

```
        <asp:Label ID="lblUsername" runat="server" Text="Username:"></asp:Label>
```

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

```
        <asp:Label ID="lblPassword" runat="server" Text="Password:"></asp:Label>
```

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

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

```
    </div>
```

```
    <!-- Main Panel (hidden until login) -->
```

```
    <div id="mainPanel" runat="server" style="display:none;">
```

```

<div class="role-selection">
    <h3>Your Role:</h3>
    <asp:RadioButtonList ID="rbRoles" runat="server" AutoPostBack="True" Enabled="false">
        <asp:ListItem Value="builder">Survey Builder</asp:ListItem>
        <asp:ListItem Value="surveyor">Surveyor</asp:ListItem>
        <asp:ListItem Value="admin">Survey Administrator</asp:ListItem>
    </asp:RadioButtonList>
    <asp:Button ID="btnLogout" runat="server" Text="Logout" OnClick="btnLogout_Click"
style="margin-left:20px;" />
</div>

<!-- Survey Builder Panel -->
<div id="builderPanel" class="builder-panel" runat="server">
    <h2>Survey Builder</h2>
    <div>
        <asp:Label ID="lblSurveyTitle" runat="server" Text="Survey Title:"></asp:Label>
        <asp:TextBox ID="txtSurveyTitle" runat="server" Width="300px"></asp:TextBox>
    </div>
    <div>
        <asp:Label ID="lblQuestionType" runat="server" Text="Question Type:"></asp:Label>
        <asp:DropDownList ID="ddlQuestionType" runat="server" AutoPostBack="True">
            <asp:ListItem Value="multiple">Multiple Choice</asp:ListItem>
            <asp:ListItem Value="truefalse">True/False</asp:ListItem>
        </asp:DropDownList>
    </div>
    <div>
        <asp:Label ID="lblQuestionText" runat="server" Text="Question:"></asp:Label>
        <asp:TextBox ID="txtQuestionText" runat="server" Width="300px" TextMode="MultiLine"
Rows="3"></asp:TextBox>
    </div>
    <div id="optionsDiv" runat="server">
        <asp:Label ID="lblOptions" runat="server" Text="Options (one per line):"></asp:Label><br />
        <asp:TextBox ID="txtOptions" runat="server" TextMode="MultiLine" Rows="5"
Width="300px"></asp:TextBox>
    </div>
    <div>
        <asp:Button ID="btnAddQuestion" runat="server" Text="Add Question"
OnClick="btnAddQuestion_Click" />
        <asp:Button ID="btnPublishSurvey" runat="server" Text="Publish Survey"
OnClick="btnPublishSurvey_Click" />
    </div>
    <div>
        <h3>Current Questions:</h3>
        <asp:ListBox ID="lstQuestions" runat="server" Width="500px"
Height="150px"></asp:ListBox>
        <asp:Button ID="btnRemoveQuestion" runat="server" Text="Remove Selected"
OnClick="btnRemoveQuestion_Click" />
    </div>

```

```

</div>

<!-- Surveyor Panel -->
<div id="surveyorPanel" class="surveyor-panel" runat="server">
    <h2>Take Survey</h2>
    <asp:Label ID="lblSurveyName" runat="server" Font-Bold="True"></asp:Label>
    <div id="surveyQuestions" runat="server">
        <!-- Questions will be added dynamically -->
    </div>
    <asp:Button ID="btnSubmitSurvey" runat="server" Text="Submit Survey"
OnClick="btnSubmitSurvey_Click" />
</div>

<!-- Admin Panel -->
<div id="adminPanel" class="admin-panel" runat="server">
    <h2>Survey Administrator</h2>
    <div>
        <h3>Survey Identification Settings</h3>
        <asp:RadioButtonList ID="rbSurveyIdentification" runat="server">
            <asp:ListItem Value="identified">Identified Surveyors</asp:ListItem>
            <asp:ListItem Value="anonymous">Anonymous Surveyors</asp:ListItem>
        </asp:RadioButtonList>
        <asp:Button ID="btnSaveSettings" runat="server" Text="Save Settings"
OnClick="btnSaveSettings_Click" />
    </div>
    <div class="results">
        <h3>Survey Results</h3>
        <asp:Button ID="btnViewResults" runat="server" Text="View Results"
OnClick="btnViewResults_Click" />
        <div id="resultsDiv" runat="server"></div>
    </div>
</div>
</div>

    <asp:Label ID="lblMessage" runat="server" ForeColor="Red"></asp:Label>
</form>
<script type="text/javascript">
    // Hide/show options for true/false
    function toggleOptions() {
        var ddl = document.getElementById('<%= ddlQuestionType.ClientID %>');
        var optionsDiv = document.getElementById('<%= optionsDiv.ClientID %>');
        if (ddl.value === "truefalse") {
            optionsDiv.style.display = "none";
        } else {
            optionsDiv.style.display = "block";
        }
    }
    document.addEventListener("DOMContentLoaded", function () {

```

```

toggleOptions();
var ddl = document.getElementById('<%= ddlQuestionType.ClientID %>');
if (ddl) {
    ddl.addEventListener("change", toggleOptions);
}
});
</script>
</body>
</html>

```

Survey.aspx.Vb:

Imports System

Imports System.Collections.Generic

Partial Class Survey

Inherits System.Web.UI.Page

' Simple in-memory user store for demonstration

Private Shared Users As New Dictionary(Of String, Tuple(Of String, String)) From {

 {"builder1", Tuple.Create("pass123", "builder")},

 {"surveyor1", Tuple.Create("pass123", "surveyor")},

 {"admin1", Tuple.Create("pass123", "admin")}

}

' Survey data models

Public Class SurveyQuestion

 Public Property QuestionText As String

 Public Property QuestionType As String ' "multiple" or "truefalse"

 Public Property Options As List(Of String)

End Class

Public Class SurveyResponse

Public Property SurveyorName As String

Public Property Answers As List(Of String)

End Class

' In-memory storage (replace with DB for production)

Private Shared SurveyTitle As String = ""

Private Shared Questions As New List(Of SurveyQuestion)()

Private Shared Responses As New List(Of SurveyResponse)()

Private Shared SurveyIdentification As String = "identified" ' or "anonymous"

Private Property CurrentUserRole As String

Get

Return If(Session("UserRole"), "")

End Get

Set(value As String)

Session("UserRole") = value

End Set

End Property

Private Property CurrentUsername As String

Get

Return If(Session("Username"), "")

End Get

Set(value As String)

Session("Username") = value

End Set

End Property

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

 If Not IsPostBack Then

 If String.IsNullOrEmpty(CurrentUserRole) Then

 loginPanel.Visible = True

 mainPanel.Style("display") = "none"

 Else

 loginPanel.Visible = False

 mainPanel.Style("display") = "block"

 rbRoles.SelectedValue = CurrentUserRole

 rbRoles.Enabled = False

 ShowPanel()

 If CurrentUserRole = "surveyor" Then

 LoadSurveyForSurveyor()

 End If

 End If

 If Questions.Count > 0 Then

 txtSurveyTitle.Text = SurveyTitle

 BindQuestionsList()

 End If

 If SurveyIdentification = "identified" Then

 rbSurveyIdentification.SelectedValue = "identified"

 Else

 rbSurveyIdentification.SelectedValue = "anonymous"

 End If

 End If

End Sub

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

 Dim username = txtUsername.Text.Trim()

```

Dim password = txtPassword.Text
If Users.ContainsKey(username) AndAlso Users(username).Item1 = password Then
    CurrentUserRole = Users(username).Item2
    CurrentUsername = username
    loginPanel.Visible = False
    mainPanel.Style("display") = "block"
    rbRoles.SelectedValue = CurrentUserRole
    rbRoles.Enabled = False
    ShowPanel()
    If CurrentUserRole = "surveyor" Then
        LoadSurveyForSurveyor()
    End If
    lblLoginMessage.Text = ""
    lblMessage.Text = ""
Else
    lblLoginMessage.Text = "Invalid username or password."
    mainPanel.Style("display") = "none"
End If
End Sub

```

```

Protected Sub btnLogout_Click(sender As Object, e As EventArgs)
    Session.Clear()
    loginPanel.Visible = True
    mainPanel.Style("display") = "none"
    lblLoginMessage.Text = ""
    lblMessage.Text = ""
    txtUsername.Text = ""
    txtPassword.Text = ""
End Sub

```

```
Protected Sub rbRoles_SelectedIndexChanged(sender As Object, e As EventArgs) Handles  
rbRoles.SelectedIndexChanged
```

```
    lblMessage.Text = ""  
  
    If rbRoles.SelectedValue <> CurrentUserRole Then  
        rbRoles.SelectedValue = CurrentUserRole  
  
        Return  
    End If  
  
    ShowPanel()  
  
    If rbRoles.SelectedValue = "surveyor" Then  
        LoadSurveyForSurveyor()  
    End If  
End Sub
```

```
Private Sub ShowPanel()  
    builderPanel.Style("display") = "none"  
    surveyorPanel.Style("display") = "none"  
    adminPanel.Style("display") = "none"  
  
    If CurrentUserRole = "builder" Then  
        builderPanel.Style("display") = "block"  
    ElseIf CurrentUserRole = "surveyor" Then  
        surveyorPanel.Style("display") = "block"  
    ElseIf CurrentUserRole = "admin" Then  
        adminPanel.Style("display") = "block"  
    End If  
End Sub
```

```
Protected Sub ddlQuestionType_SelectedIndexChanged(sender As Object, e As EventArgs) Handles  
ddlQuestionType.SelectedIndexChanged
```


' Handled by JS for better UX

End Sub

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

Dim qType = ddlQuestionType.SelectedValue

Dim qText = txtQuestionText.Text.Trim()

Dim optionsList As New List(Of String)

If qType = "multiple" Then

Dim optionsRaw = txtOptions.Text.Trim()

If String.IsNullOrEmpty(optionsRaw) Then

lblMessage.Text = "Please enter options for multiple choice."

Return

End If

optionsList = optionsRaw.Split({vbCrLf, vbLf}, StringSplitOptions.RemoveEmptyEntries).ToList()

If optionsList.Count < 2 Then

lblMessage.Text = "Please enter at least two options."

Return

End If

ElseIf qType = "truefalse" Then

optionsList.Add("True")

optionsList.Add("False")

End If

If String.IsNullOrEmpty(qText) Then

lblMessage.Text = "Please enter a question."

Return

End If

Questions.Add(New SurveyQuestion With {.QuestionText = qText, .QuestionType = qType, .Options
= optionsList})

BindQuestionsList()

```
txtQuestionText.Text = ""
```

```
txtOptions.Text = ""
```

```
lblMessage.Text = "Question added."
```

```
End Sub
```

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

```
    If lstQuestions.SelectedIndex >= 0 Then
```

```
        Questions.RemoveAt(lstQuestions.SelectedIndex)
```

```
        BindQuestionsList()
```

```
        lblMessage.Text = "Question removed."
```

```
    Else
```

```
        lblMessage.Text = "Select a question to remove."
```

```
    End If
```

```
End Sub
```

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

```
    If String.IsNullOrEmpty(txtSurveyTitle.Text.Trim()) Then
```

```
        lblMessage.Text = "Please enter a survey title."
```

```
        Return
```

```
    End If
```

```
    If Questions.Count = 0 Then
```

```
        lblMessage.Text = "Add at least one question."
```

```
        Return
```

```
    End If
```

```
    SurveyTitle = txtSurveyTitle.Text.Trim()
```

```
    lblMessage.Text = "Survey published successfully."
```

```
End Sub
```

```
Private Sub BindQuestionsList()
```

```

    lstQuestions.Items.Clear()

    For Each q In Questions
        lstQuestions.Items.Add(q.QuestionText & " (" & If(q.QuestionType = "multiple", "Multiple
Choice", "True/False") & ")")
    Next
End Sub

' Surveyor
Private Sub LoadSurveyForSurveyor()
    lblSurveyName.Text = SurveyTitle
    surveyQuestions.Controls.Clear()

    If String.IsNullOrEmpty(SurveyTitle) OrElse Questions.Count = 0 Then
        surveyQuestions.Controls.Add(New LiteralControl("<p>No survey available.</p>"))
        btnSubmitSurvey.Visible = False

        Return
    End If

    btnSubmitSurvey.Visible = True

    For i = 0 To Questions.Count - 1
        Dim q = Questions(i)
        Dim div As New Panel()
        div.CssClass = "question"

        div.Controls.Add(New LiteralControl("<b>Q" & (i + 1).ToString() & " :</b> " &
Server.HtmlEncode(q.QuestionText) & "<br/>"))

        If q.QuestionType = "multiple" Then
            Dim rbl As New RadioButtonList()
            rbl.ID = "q" & i

            For Each opt In q.Options
                rbl.Items.Add(opt)
            Next
        End If
    Next
End Sub

```

```

        div.Controls.Add(rbl)
    ElseIf q.QuestionType = "truefalse" Then
        Dim rbl As New RadioButtonList()
        rbl.ID = "q" & i
        rbl.Items.Add("True")
        rbl.Items.Add("False")
        div.Controls.Add(rbl)
    End If

    surveyQuestions.Controls.Add(div)
Next

If SurveyIdentification = "identified" Then
    surveyQuestions.Controls.Add(New LiteralControl("<br/>Your Name: <input type='text' name='surveyorName' id='surveyorName' />"))
End If

End Sub

Protected Sub btnSubmitSurvey_Click(sender As Object, e As EventArgs)
    If String.IsNullOrEmpty(SurveyTitle) OrElse Questions.Count = 0 Then
        lblMessage.Text = "No survey available."
        Return
    End If

    Dim answers As New List(Of String)
    For i = 0 To Questions.Count - 1
        Dim rbl = TryCast(surveyQuestions.FindControl("q" & i), RadioButtonList)
        If rbl Is Nothing OrElse rbl.SelectedIndex = -1 Then
            lblMessage.Text = "Please answer all questions."
            Return
        End If
        answers.Add(rbl.SelectedValue)
    Next
End Sub

```

Next

Dim surveyorName As String = ""

If SurveyIdentification = "identified" Then

 surveyorName = Request.Form("surveyorName")

 If String.IsNullOrEmpty(surveyorName) Then

 lblMessage.Text = "Please enter your name."

 Return

 End If

Else

 surveyorName = "Anonymous"

End If

Responses.Add(New SurveyResponse With {.SurveyorName = surveyorName, .Answers = answers})

lblMessage.Text = "Thank you for submitting the survey!"

LoadSurveyForSurveyor()

End Sub

' Admin

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

 SurveyIdentification = rbSurveyIdentification.SelectedValue

 lblMessage.Text = "Settings saved."

End Sub

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

 If Responses.Count = 0 Then

 resultsDiv.InnerHtml = "<p>No responses yet.</p>"

 Return

 End If

 Dim html As String = "<table><tr>"

 If SurveyIdentification = "identified" Then

```
        html &= "<th>Surveyor</th>"
    End If
    For i = 0 To Questions.Count - 1
        html &= "<th>Q" & (i + 1).ToString() & "</th>"
    Next
    html &= "</tr>"
    For Each resp In Responses
        html &= "<tr>"
        If SurveyIdentification = "identified" Then
            html &= "<td>" & Server.HtmlEncode(resp.SurveyorName) & "</td>"
        End If
        For Each ans In resp.Answers
            html &= "<td>" & Server.HtmlEncode(ans) & "</td>"
        Next
        html &= "</tr>"
    Next
    html &= "</table>"
    resultsDiv.InnerHtml = html
End Sub
End Class
```