

Semester Project Report

INTERNET APPLICATION DEVELOPMENT

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Orphanage's Establishment System

1. Problem statement

- Internet Application Development
- Semester Project
- Task 1: To develop a brief project proposal document of a web development project.
 - • It must be a data driven web application
 - • Incorporate state management
 - • Validation is mandatory
 - • Data security is essential
 - • Users and roles based software functionalities to be incorporated
- Task 2: To write software requirements specification
- Task 3: To develop the analysis and design model of web application including:
 - • Use case model
 - • Sequence diagrams
 - • Activity diagrams
 - • Class diagrams
- Task 3A To develop component model and deployment model
- Task 4: Develop database model including:
 - • ER Model
 - • Relational Model
 - • Normalization of relational model
 - • Physical Model
 - • SQL Implementation

- Task 5: To implement the web application using concepts and examples studied in course.
- Task 6: To host the application on a web domain.
- • Database can be on local machine
- • Or on web hosting platform

Task 7: Testing of Web Application

2. Objectives of OMP

- To provide a centralized platform for managing children profiles, staff, donors, and donations.
- To ensure data security and validation at all stages.
- To support role-based access for Admins, Staff, and Donors.
- To automate reports, notifications, and tracking of daily orphanage activities.

1. Code Implementation

1. New User Registration

Registration.aspx

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

<!DOCTYPE html>
<html>
<head>
  <title>User Registration</title>
  <style>
    html, body {
      height: 100%;
      margin: 0;
      font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-
serif;
      background-color: #f2f6fc;
    }

    body {
      display: flex;
```

```

        justify-content: center;
        align-items: center;
    }

    .register-container {
        width: 420px;
        padding: 40px;
        background-color: #fff;
        border-radius: 12px;
        box-shadow: 0 8px 20px rgba(0,0,0,0.1);
        text-align: center;
    }

    .register-container h2 {
        margin-bottom: 25px;
        color: #2c3e50;
        font-size: 24px;
    }

    .register-container input[type="text"],
    .register-container input[type="password"],
    .register-container select,
    .register-container .aspNetTextBox,
    .register-container .aspNetDropDown {
        width: 100%;
        padding: 12px 15px;
        margin-bottom: 18px;
        border: 1px solid #ccc;
        border-radius: 6px;
        font-size: 16px;
        box-sizing: border-box;
    }

    .register-container input[type="submit"],
    .register-container .aspNetButton {
        width: 100%;
        padding: 12px;
        background-color: #007bff;
        color: #fff;
        border: none;
        border-radius: 6px;
        font-size: 16px;
        font-weight: bold;
        cursor: pointer;
    }

```

```

    }

    .register-container input[type="submit"]:hover,
    .register-container .aspNetButton:hover {
        background-color: #0056b3;
    }

    .register-container .message {
        margin-top: 15px;
        font-size: 14px;
    }

    .success-message {
        color: green;
    }

    .error-message {
        color: red;
    }
}
</style>
</head>
<body>
    <form id="form1" runat="server">
        <div class="register-container">
            <h2>Register New User</h2>

            <asp:TextBox ID="txtUsername" runat="server"
            CssClass="aspNetTextBox" Placeholder="Username" /><br />
            <asp:TextBox ID="txtPassword" runat="server"
            CssClass="aspNetTextBox" TextMode="Password" Placeholder="Password"
            /><br />
            <asp:TextBox ID="txtConfirmPassword" runat="server"
            CssClass="aspNetTextBox" TextMode="Password" Placeholder="Confirm
            Password" /><br />

            <asp:DropDownList ID="ddlUserType" runat="server"
            CssClass="aspNetDropDown">
                <asp:ListItem Text="Select User Type" Value="" />
                <asp:ListItem Text="Orphan" Value="Orphan" />
                <asp:ListItem Text="Guardian" Value="Guardian" />
                <asp:ListItem Text="Staff" Value="Staff" />
                <asp:ListItem Text="Donor" Value="Donor" />
            </asp:DropDownList><br />

```

```

        <asp:Button ID="btnRegister" runat="server"
Text="Register" CssClass="aspNetButton" OnClick="btnRegister_Click"
/><br />

        <asp:Label ID="lblMessage" runat="server"
CssClass="message" />
    </div>
</form>
</body>
</html>

```

Registration.aspx.vb

```

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

Partial Class Register
    Inherits System.Web.UI.Page

    Protected Sub btnRegister_Click(sender As Object, e As
EventArgs)
        If txtPassword.Text <> txtConfirmPassword.Text Then
            lblMessage.CssClass = "message error-message"
            lblMessage.Text = "Passwords do not match."
            Return
        End If

        If ddlUserType.SelectedValue = "" Then
            lblMessage.CssClass = "message error-message"
            lblMessage.Text = "Please select a user type."
            Return
        End If

        Dim username As String = txtUsername.Text.Trim()
        Dim passwordHash As String = ComputeHash(txtPassword.Text)
        Dim userType As String = ddlUserType.SelectedValue

        Try
            Using con As New
SqlConnection(ConfigurationManager.ConnectionStrings("OrphanageDB").
ConnectionString)
                ' Check if username exists

```

```

        Dim checkCmd As New SqlCommand("SELECT COUNT(*) FROM
Users WHERE USERNAME=@username", con)
        checkCmd.Parameters.AddWithValue("@username",
username)

        con.Open()
        Dim exists As Integer =
Convert.ToInt32(checkCmd.ExecuteScalar())
        con.Close()

        If exists > 0 Then
            lblMessage.CssClass = "message error-message"
            lblMessage.Text = "Username already exists."
            Return
        End If

        ' Insert new user with user type
        Dim insertCmd As New SqlCommand("INSERT INTO Users
(USERNAME, PASSWORD_HASH, USER_TYPE) VALUES (@username, @hash,
@type)", con)
        insertCmd.Parameters.AddWithValue("@username",
username)
        insertCmd.Parameters.AddWithValue("@hash",
passwordHash)
        insertCmd.Parameters.AddWithValue("@type", userType)

        con.Open()
        insertCmd.ExecuteNonQuery()
        con.Close()

        lblMessage.CssClass = "message success-message"
        lblMessage.Text = "User registered successfully! You
can now login."
    End Using
Catch ex As Exception
    lblMessage.CssClass = "message error-message"
    lblMessage.Text = "Error: " & ex.Message
End Try
End Sub

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

```

```
        Return Convert.ToBase64String(hash)
    End Using
End Function
End Class
```

2. Login Page

Login.aspx

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

<!DOCTYPE html>
<html>
<head>
    <title>Login - Orphanage System</title>
    <style>
        html, body {
            height: 100%;
            margin: 0;
            font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-
serif;
            background-color: #f2f6fc;
        }

        body {
            display: flex;
            justify-content: center;
            align-items: center;
        }

        .login-container {
            width: 420px;
            padding: 45px;
            background-color: #fff;
            border-radius: 12px;
            box-shadow: 0 8px 20px rgba(0,0,0,0.1);
            text-align: center;
        }

        .login-container h2 {
            margin-bottom: 25px;
            color: #2c3e50;
        }
    </style>
</head>
<body>
    <div class="login-container">
        <h2>Login</h2>
    </div>
</body>
</html>
```



```

        font-size: 26px;
    }

    .login-container input[type="text"],
    .login-container input[type="password"],
    .login-container select,
    .login-container .aspNetTextBox {
        width: 100%;
        padding: 12px 15px;
        margin-bottom: 18px;
        border: 1px solid #ccc;
        border-radius: 6px;
        font-size: 16px;
        box-sizing: border-box;
    }

    .login-container input[type="submit"],
    .login-container .aspNetButton {
        width: 100%;
        padding: 12px;
        background-color: #007bff;
        color: #fff;
        border: none;
        border-radius: 6px;
        font-size: 16px;
        font-weight: bold;
        cursor: pointer;
    }

    .login-container input[type="submit"]:hover,
    .login-container .aspNetButton:hover {
        background-color: #0056b3;
    }

    .login-container .error-message {
        color: red;
        margin-top: 10px;
        font-size: 14px;
    }

    .login-container .footer-text {
        margin-top: 15px;
        color: #888;
        font-size: 13px;
    }

```

```

    }
    </style>
</head>
<body>
    <form id="form1" runat="server">
        <div class="login-container">
            <h2>Login</h2>
            <asp:TextBox ID="txtUsername" runat="server"
CssClass="aspNetTextBox" placeholder="Username" /><br />
            <asp:TextBox ID="txtPassword" runat="server"
CssClass="aspNetTextBox" TextMode="Password" placeholder="Password"
/><br />
            <asp:DropDownList ID="ddlUserType" runat="server"
CssClass="aspNetTextBox">
                <asp:ListItem Text="Select User Type" Value="" />
                <asp:ListItem Text="Orphan" Value="Orphan" />
                <asp:ListItem Text="Guardian" Value="Guardian" />
                <asp:ListItem Text="Staff" Value="Staff" />
                <asp:ListItem Text="Donor" Value="Donor" />
            </asp:DropDownList><br />

            <asp:Button ID="btnLogin" runat="server" Text="Login"
CssClass="aspNetButton" OnClick="btnLogin_Click" /><br />
            <asp:Label ID="lblMessage" runat="server"
CssClass="error-message" /><br />
            <div class="footer-text">Staff: DrIrfan, Guardian:
Najma@gmail.com, password for all: 123456</div>
        </div>
    </form>
</body>
</html>

```

Login.aspx.vb

```

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

Partial Class Login
    Inherits System.Web.UI.Page

    Protected Sub btnLogin_Click(sender As Object, e As EventArgs)
Handles btnLogin.Click
        Dim username As String = txtUsername.Text.Trim()

```

```

Dim password As String = txtPassword.Text.Trim()
Dim userType As String = ddlUserType.SelectedValue
Dim hashedPassword As String = ComputeHash(password)

If userType = "" Then
    lblMessage.Text = "Please select a user type."
    Return
End If

Using con As New
SqlConnection(ConfigurationManager.ConnectionStrings("OrphanageDB").
ConnectionString)
    Dim cmd As New SqlCommand("SELECT COUNT(*) FROM Users
WHERE USERNAME = @user AND PASSWORD_HASH = @pass AND USER_TYPE =
@type", con)

    cmd.Parameters.AddWithValue("@user", username)
    cmd.Parameters.AddWithValue("@pass", hashedPassword)
    cmd.Parameters.AddWithValue("@type", userType)

    con.Open()
    Dim count As Integer =
Convert.ToInt32(cmd.ExecuteScalar())
    con.Close()

    If count = 1 Then
        Session("username") = username
        Session("usertype") = userType

        ' Redirect based on user type
        Select Case userType.ToLower()
            Case "orphan"
                Response.Redirect("Orphans.aspx")
            Case "guardian"
                Response.Redirect("Guardians.aspx")
            Case "staff"
                Response.Redirect("Staff.aspx")
            Case "donor"
                Response.Redirect("Donations.aspx")
            Case Else
                lblMessage.Text = "Unknown user type!"
        End Select
    Else
        lblMessage.Text = "Invalid username, password, or
user type!"
    End If
End Using

```

```

        End If
    End Using
End Sub

Private Function ComputeHash(password As String) As String
    Using sha256 As SHA256 = SHA256.Create()
        Dim bytes As Byte() = Encoding.UTF8.GetBytes(password)
        Dim hash As Byte() = sha256.ComputeHash(bytes)
        Return Convert.ToBase64String(hash)
    End Using
End Function
End Class

```

3. Staff Page

Staff.aspx

```

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

<!DOCTYPE html>
<html>
<head>
    <title>Manage Orphanage Records</title>
    <style>
        body, html {
            font-family: Arial, sans-serif;
            background-color: #f0f2f5;
            margin: 0; padding: 0;
            height: 100%;
            display: flex;
            justify-content: center;
            align-items: center;
        }
        .container {
            width: 90%; max-width: 700px;
            padding: 30px;
            background-color: white;
            border-radius: 10px;
            box-shadow: 0 5px 15px rgba(0,0,0,0.1);
        }
        h2 { text-align: center; color: #333; margin-bottom: 30px; }
    </style>

```

```

        .section { margin-bottom: 40px; }
        input[type="text"], select, input[type="date"],
input[type="number"] {
            width: 100%;
            max-width: 300px;
            padding: 8px;
            margin: 6px 0 12px 0;
            display: block;
            border: 1px solid #ccc;
            border-radius: 4px;
            box-sizing: border-box;
            font-size: 14px;
        }
        .btn {
            padding: 10px 20px;
            background-color: #1976d2;
            border: none;
            color: white;
            border-radius: 5px;
            cursor: pointer;
            font-size: 15px;
            margin-top: 5px;
        }
        .btn:hover {
            background-color: #155a9c;
        }
        .success {
            color: green;
            margin-top: 15px;
            font-weight: bold;
            text-align: center;
        }
        .error {
            color: red;
            margin-top: 10px;
            font-weight: bold;
        }
    </style>
</head>
<body>
    <form id="form1" runat="server">
        <div class="container">
            <h2>Manage Orphanage Records</h2>

```

```

        <!-- Add Guardian Record -->
        <div class="section">
            <h3>Add Guardian</h3>
            <asp:TextBox ID="txtGuardianName" runat="server"
Placeholder="Name" />
            <asp:TextBox ID="txtGuardianRelation" runat="server"
Placeholder="Relation" />
            <asp:TextBox ID="txtGuardianPhone" runat="server"
Placeholder="Phone" />
            <asp:TextBox ID="txtGuardianAddress" runat="server"
Placeholder="Address" />
            <asp:Button ID="btnAddGuardian" runat="server"
Text="Add Guardian" CssClass="btn" OnClick="btnAddGuardian_Click" />
        </div>

        <!-- Add Orphan Record -->
        <div class="section">
            <h3>Add Orphan</h3>
            <asp:TextBox ID="txtOrphanName" runat="server"
Placeholder="Name" />
            <asp:TextBox ID="txtOrphanAge" runat="server"
Placeholder="Age (Number)" />
            <asp:TextBox ID="txtOrphanGender" runat="server"
Placeholder="Gender" />
            <asp:TextBox ID="txtOrphanAdmissionDate"
runat="server" Placeholder="Date of Admission (YYYY-MM-DD)" />
            <asp:DropDownList ID="ddlGuardian" runat="server" />
            <asp:Button ID="btnAddOrphan" runat="server"
Text="Add Orphan" CssClass="btn" OnClick="btnAddOrphan_Click" />
        </div>

        <!-- Add Education Record -->
        <div class="section">
            <h3>Add Education Record</h3>
            <asp:TextBox ID="txtEduOrphanID" runat="server"
Placeholder="Orphan ID (Number)" />
            <asp:TextBox ID="txtSchoolName" runat="server"
Placeholder="School Name" />
            <asp:TextBox ID="txtGrade" runat="server"
Placeholder="Grade" />
            <asp:TextBox ID="txtPerformance" runat="server"
Placeholder="Performance Remarks" />

```

```

        <asp:Button ID="btnAddEducation" runat="server"
Text="Add Education Record" CssClass="btn"
OnClick="btnAddEducation_Click" />
    </div>

    <!-- Add Health Record -->
    <div class="section">
        <h3>Add Health Record</h3>
        <asp:TextBox ID="txtHealthOrphanID" runat="server"
Placeholder="Orphan ID (Number)" />
        <asp:TextBox ID="txtCheckupDate" runat="server"
Placeholder="Checkup Date (YYYY-MM-DD)" />
        <asp:TextBox ID="txtDiagnosis" runat="server"
Placeholder="Diagnosis" />
        <asp:TextBox ID="txtTreatment" runat="server"
Placeholder="Treatment" />
        <asp:Button ID="btnAddHealth" runat="server"
Text="Add Health Record" CssClass="btn" OnClick="btnAddHealth_Click"
/>
    </div>

    <asp:Label ID="lblMessage" runat="server"
CssClass="success" />
    <asp:Label ID="lblError" runat="server" CssClass="error"
/>
</div>
</form>
</body>
</html>

```

Staff.aspx.vb

```

Imports System.Data
Imports System.Data.SqlClient

Partial Class Staff
    Inherits System.Web.UI.Page

    Dim con As New
    SqlConnection(ConfigurationManager.ConnectionStrings("OrphanageDB").
ConnectionString)

```

```

Protected Sub Page_Load(sender As Object, e As EventArgs)
Handles Me.Load
    If Session("username") Is Nothing Then
        Response.Redirect("Login.aspx")
    End If

    If Not IsPostBack Then
        txtOrphanAdmissionDate.Attributes("type") = "date"
        txtCheckupDate.Attributes("type") = "date"
        LoadGuardians()
    End If
End Sub

Private Sub LoadGuardians()
    Try
        Dim cmd As New SqlCommand("SELECT GUARDIAN_ID, NAME FROM
Guardians", con)
        Dim dt As New DataTable()
        Dim da As New SqlDataAdapter(cmd)
        da.Fill(dt)

        ddlGuardian.DataSource = dt
        ddlGuardian.DataTextField = "NAME"
        ddlGuardian.DataValueField = "GUARDIAN_ID"
        ddlGuardian.DataBind()

        ddlGuardian.Items.Insert(0, New ListItem("-- Select
Guardian --", "0"))
    Catch ex As Exception
        lblError.Text = "Error loading guardians: " & ex.Message
    End Try
End Sub

Protected Sub btnAddGuardian_Click(sender As Object, e As
EventArgs)
    lblMessage.Text = ""
    lblError.Text = ""

    If txtGuardianName.Text Is Nothing OrElse
txtGuardianName.Text.Trim() = "" OrElse _
        txtGuardianPhone.Text Is Nothing OrElse
txtGuardianPhone.Text.Trim() = "" Then
        lblError.Text = "Please enter both Name and Phone for
the guardian."
    End If
End Sub

```



```

        Return
    End If

    Try
        Dim cmd As New SqlCommand("INSERT INTO Guardians (NAME,
RELATION, PHONE, ADDRESS) VALUES (@name, @relation, @phone,
@address)", con)
        cmd.Parameters.AddWithValue("@name",
txtGuardianName.Text.Trim())
        cmd.Parameters.AddWithValue("@relation",
txtGuardianRelation.Text.Trim())
        cmd.Parameters.AddWithValue("@phone",
txtGuardianPhone.Text.Trim())
        cmd.Parameters.AddWithValue("@address",
txtGuardianAddress.Text.Trim())

        con.Open()
        cmd.ExecuteNonQuery()
        con.Close()

        lblMessage.Text = "Guardian record added successfully."
        ClearGuardianInputs()
        LoadGuardians()
    Catch ex As Exception
        lblError.Text = "Error adding guardian: " & ex.Message
        If con.State = ConnectionState.Open Then con.Close()
    End Try
End Sub

Private Sub ClearGuardianInputs()
    txtGuardianName.Text = ""
    txtGuardianRelation.Text = ""
    txtGuardianPhone.Text = ""
    txtGuardianAddress.Text = ""
End Sub

Protected Sub btnAddOrphan_Click(sender As Object, e As
EventArgs)
    lblMessage.Text = ""
    lblError.Text = ""

    Dim age As Integer
    Dim admissionDate As DateTime

```

```

        If txtOrphanName.Text Is Nothing OrElse
txtOrphanName.Text.Trim() = "" Then
            lblError.Text = "Orphan name is required."
            Return
        End If

        If Not Integer.TryParse(txtOrphanAge.Text.Trim(), age) Then
            lblError.Text = "Please enter a valid number for Age."
            Return
        End If

        If ddlGuardian.SelectedValue = "0" Then
            lblError.Text = "Please select a guardian."
            Return
        End If

        If Not DateTime.TryParse(txtOrphanAdmissionDate.Text.Trim(),
admissionDate) Then
            lblError.Text = "Please enter a valid admission date
(YYYY-MM-DD)."
            Return
        End If

        Try
            Dim cmd As New SqlCommand("INSERT INTO Orphans (NAME,
AGE, GENDER, DATE_OF_ADMISSION, GUARDIAN_ID) VALUES (@name, @age,
@gender, @admissionDate, @guardianId)", con)
            cmd.Parameters.AddWithValue("@name",
txtOrphanName.Text.Trim())
            cmd.Parameters.AddWithValue("@age", age)
            cmd.Parameters.AddWithValue("@gender",
txtOrphanGender.Text.Trim())
            cmd.Parameters.AddWithValue("@admissionDate",
admissionDate)
            cmd.Parameters.AddWithValue("@guardianId",
ddlGuardian.SelectedValue)

            con.Open()
            cmd.ExecuteNonQuery()
            con.Close()

            lblMessage.Text = "Orphan record added successfully."
            ClearOrphanInputs()
        Catch ex As Exception

```

```

        lblError.Text = "Error adding orphan: " & ex.Message
        If con.State = ConnectionState.Open Then con.Close()
    End Try
End Sub

Private Sub ClearOrphanInputs()
    txtOrphanName.Text = ""
    txtOrphanAge.Text = ""
    txtOrphanGender.Text = ""
    txtOrphanAdmissionDate.Text = ""
    ddlGuardian.SelectedIndex = 0
End Sub

Protected Sub btnAddEducation_Click(sender As Object, e As
EventArgs)
    lblMessage.Text = ""
    lblError.Text = ""

    Dim orphanId As Integer

    If Not Integer.TryParse(txtEduOrphanID.Text.Trim(),
orphanId) Then
        lblError.Text = "Please enter a valid Orphan ID
(number)."
        Return
    End If

    If txtSchoolName.Text Is Nothing OrElse
txtSchoolName.Text.Trim() = "" Then
        lblError.Text = "School name is required."
        Return
    End If

    Try
        Dim cmd As New SqlCommand("INSERT INTO Education
(ORPHAN_ID, SCHOOL_NAME, GRADE, PERFORMANCE_REMARKS) VALUES
(@orphanId, @school, @grade, @performance)", con)
        cmd.Parameters.AddWithValue("@orphanId", orphanId)
        cmd.Parameters.AddWithValue("@school",
txtSchoolName.Text.Trim())
        cmd.Parameters.AddWithValue("@grade",
txtGrade.Text.Trim())
        cmd.Parameters.AddWithValue("@performance",
txtPerformance.Text.Trim())
    
```

```

        con.Open()
        cmd.ExecuteNonQuery()
        con.Close()

        lblMessage.Text = "Education record added successfully."
        ClearEducationInputs()
    Catch ex As Exception
        lblError.Text = "Error adding education record: " &
ex.Message
        If con.State = ConnectionState.Open Then con.Close()
    End Try
End Sub

Private Sub ClearEducationInputs()
    txtEduOrphanID.Text = ""
    txtSchoolName.Text = ""
    txtGrade.Text = ""
    txtPerformance.Text = ""
End Sub

Protected Sub btnAddHealth_Click(sender As Object, e As
EventArgs)
    lblMessage.Text = ""
    lblError.Text = ""

    Dim orphanId As Integer
    Dim checkupDate As DateTime

    If Not Integer.TryParse(txtHealthOrphanID.Text.Trim(),
orphanId) Then
        lblError.Text = "Please enter a valid Orphan ID
(number)."
        Return
    End If

    If Not DateTime.TryParse(txtCheckupDate.Text.Trim(),
checkupDate) Then
        lblError.Text = "Please enter a valid checkup date
(YYYY-MM-DD)."
        Return
    End If

    Try

```

```

        Dim cmd As New SqlCommand("INSERT INTO HealthRecords
(ORPHAN_ID, CHECKUP_DATE, DIAGNOSIS, TREATMENT) VALUES (@orphanId,
@checkupDate, @diagnosis, @treatment)", con)
        cmd.Parameters.AddWithValue("@orphanId", orphanId)
        cmd.Parameters.AddWithValue("@checkupDate", checkupDate)
        cmd.Parameters.AddWithValue("@diagnosis",
txtDiagnosis.Text.Trim())
        cmd.Parameters.AddWithValue("@treatment",
txtTreatment.Text.Trim())

        con.Open()
        cmd.ExecuteNonQuery()
        con.Close()

        lblMessage.Text = "Health record added successfully."
        ClearHealthInputs()
    Catch ex As Exception
        lblError.Text = "Error adding health record: " &
ex.Message
        If con.State = ConnectionState.Open Then con.Close()
    End Try
End Sub

Private Sub ClearHealthInputs()
    txtHealthOrphanID.Text = ""
    txtCheckupDate.Text = ""
    txtDiagnosis.Text = ""
    txtTreatment.Text = ""
End Sub
End Class

```

4. Guardians' Page

Guardians.aspx

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

<!DOCTYPE html>
<html>
<head>
    <title>Orphan Details - Guardian View</title>
    <style>
        body, html {
            margin: 0;
            padding: 0;
            font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-
serif;
            background-color: #f2f6fc;
        }

        .container {
            max-width: 900px;
            margin: 50px auto;
            padding: 30px;
            background-color: white;
            border-radius: 12px;
            box-shadow: 0 8px 20px rgba(0,0,0,0.1);
        }

        h2 {
            text-align: center;
            color: #2c3e50;
            margin-bottom: 30px;
        }

        .gridview-style {
            width: 100%;
            border-collapse: collapse;
        }

        .gridview-style th, .gridview-style td {
            padding: 12px 15px;
            border: 1px solid #ccc;
            text-align: left;
```

```

    }

    .gridview-style th {
        background-color: #007bff;
        color: white;
    }

    .gridview-style tr:nth-child(even) {
        background-color: #f9f9f9;
    }

    .gridview-style tr:hover {
        background-color: #eef;
    }
</style>
</head>
<body>
    <form id="form1" runat="server">
        <div class="container">
            <h2>Orphan Details</h2>
            <asp:GridView ID="gvOrphans" runat="server"
CssClass="gridview-style" AutoGenerateColumns="False">
                <Columns>
                    <asp:BoundField DataField="ORPHAN_ID"
HeaderText="ID" />
                    <asp:BoundField DataField="Name"
HeaderText="Name" />
                    <asp:BoundField DataField="Age" HeaderText="Age"
/>
                    <asp:BoundField DataField="GENDER"
HeaderText="Gender" />
                    <asp:BoundField DataField="Education"
HeaderText="Education" />
                    <asp:BoundField DataField="Healthrecords"
HeaderText="Health Status" />
                </Columns>
            </asp:GridView>
        </div>
    </form>
</body>
</html>

```

Guardians.aspx.vb

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

Partial Class Guardians
    Inherits System.Web.UI.Page

    Dim con As New
SqlConnection(ConfigurationManager.ConnectionStrings("OrphanageDB").
ConnectionString)

    Protected Sub Page_Load(sender As Object, e As EventArgs)
Handles Me.Load
        If Session("username") Is Nothing Then
            Response.Redirect("Login.aspx")
        End If

        If Not IsPostBack Then
            LoadOrphanData()
        End If
    End Sub

    Private Sub LoadOrphanData()
        Dim query As String = "SELECT " & vbCrLf & _
            "    o.ORPHAN_ID, " & vbCrLf & _
            "    o.NAME, " & vbCrLf & _
            "    o.AGE, " & vbCrLf & _
            "    o.GENDER, " & vbCrLf & _
            "    ISNULL(e.PERFORMANCE_REMARKS, 'No Record') AS
Education, " & vbCrLf & _
            "    ISNULL(h.DIAGNOSIS, 'No Record') AS Healthrecords "
& vbCrLf & _
            "FROM Orphans o " & vbCrLf & _
            "LEFT JOIN ( " & vbCrLf & _
            "    SELECT ORPHAN_ID, PERFORMANCE_REMARKS " & vbCrLf & _
            "
            "    FROM Education " & vbCrLf & _
            "    WHERE EDUCATION_ID IN ( " & vbCrLf & _
            "        SELECT MAX(EDUCATION_ID) FROM Education GROUP
BY ORPHAN_ID " & vbCrLf & _
            "    ) " & vbCrLf & _
            ") e ON o.ORPHAN_ID = e.ORPHAN_ID " & vbCrLf & _
            "LEFT JOIN ( " & vbCrLf & _
```



```

        "      SELECT ORPHAN_ID, DIAGNOSIS " & vbCrLf & _
        "      FROM HealthRecords " & vbCrLf & _
        "      WHERE RECORD_ID IN ( " & vbCrLf & _
        "          SELECT MAX(RECORD_ID) FROM HealthRecords GROUP
BY ORPHAN_ID " & vbCrLf & _
        "      ) " & vbCrLf & _
        ") h ON o.ORPHAN_ID = h.ORPHAN_ID"

    Dim cmd As New SqlCommand(query, con)
    Dim da As New SqlDataAdapter(cmd)
    Dim dt As New DataTable()
    da.Fill(dt)
    gvOrphans.DataSource = dt
    gvOrphans.DataBind()
End Sub
End Class

```

4. Dashboard

Dashboard.aspx

```

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

<!DOCTYPE html>
<html>
<head>
    <title>Dashboard</title>
    <style>
        .card {
            border: 1px solid #ccc;
            border-radius: 8px;
            padding: 16px;
            margin: 12px;
            display: inline-block;
            width: 200px;
            background-color: #f9f9f9;
        }
    </style>
</head>
<body>
    <form id="form1" runat="server">

```

```

        <h2>Dashboard Overview</h2>

        <div class="card">Orphans: <asp:Label ID="lblOrphans"
runat="server" /></div>
        <div class="card">Guardians: <asp:Label ID="lblGuardians"
runat="server" /></div>
        <div class="card">Staff: <asp:Label ID="lblStaff"
runat="server" /></div>
        <div class="card">Total Donations: ₹<asp:Label
ID="lblDonations" runat="server" /></div>

        <hr />
        <h3>Recent Donations</h3>
        <asp:GridView ID="gvRecentDonations" runat="server"
AutoGenerateColumns="true" />
    </form>
</body>
</html>

```

Dashboard.aspx.vb

```

Imports System.Data
Imports System.Data.SqlClient

Partial Class Dashboard
    Inherits System.Web.UI.Page

    Dim con As New
    SqlConnection(ConfigurationManager.ConnectionStrings("OrphanageDB").
ConnectionString)

    Protected Sub Page_Load(sender As Object, e As EventArgs)
Handles Me.Load
        If Session("username") Is Nothing Then
            Response.Redirect("Login.aspx")
        End If

        If Not IsPostBack Then
            LoadStats()
            LoadRecentDonations()
        End If
    End Sub

```

```

Private Sub LoadStats()
    con.Open()

    ' Orphans
    Dim cmd1 As New SqlCommand("SELECT COUNT(*) FROM Orphans",
con)
    lblOrphans.Text = cmd1.ExecuteScalar().ToString()

    ' Guardians
    Dim cmd2 As New SqlCommand("SELECT COUNT(*) FROM Guardians",
con)
    lblGuardians.Text = cmd2.ExecuteScalar().ToString()

    ' Staff
    Dim cmd3 As New SqlCommand("SELECT COUNT(*) FROM Staff",
con)
    lblStaff.Text = cmd3.ExecuteScalar().ToString()

    ' Donations
    Dim cmd4 As New SqlCommand("SELECT ISNULL(SUM(AMOUNT), 0)
FROM Donations", con)
    lblDonations.Text =
Convert.ToDecimal(cmd4.ExecuteScalar()).ToString("N2")

    con.Close()
End Sub

Private Sub LoadRecentDonations()
    Dim cmd As New SqlCommand("SELECT TOP 5 DONOR_NAME, AMOUNT,
DATE FROM Donations ORDER BY DATE DESC", con)
    Dim da As New SqlDataAdapter(cmd)
    Dim dt As New DataTable()
    da.Fill(dt)
    gvRecentDonations.DataSource = dt
    gvRecentDonations.DataBind()
End Sub
End Class

```

6. Donations' Page(not working Properly)

Donations.aspx

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

<!DOCTYPE html>
<html>
<head>
    <title>Donation Management</title>
</head>
<body>
    <form id="form1" runat="server">
        <h2>Manage Donations</h2>

        <asp:TextBox ID="txtDonationID" runat="server"
Visible="false" />
        <asp:TextBox ID="txtDonorName" runat="server"
Placeholder="Donor Name" /><br />
        <asp:TextBox ID="txtAmount" runat="server"
Placeholder="Amount" /><br />
        <asp:TextBox ID="txtDate" runat="server" Placeholder="Date
(yyyy-mm-dd)" /><br />
        <asp:TextBox ID="txtPurpose" runat="server"
Placeholder="Purpose" /><br /><br />

        <asp:Button ID="btnAdd" runat="server" Text="Add"
OnClick="btnAdd_Click" />
        <asp:Button ID="btnUpdate" runat="server" Text="Update"
OnClick="btnUpdate_Click" />
        <asp:Button ID="btnDelete" runat="server" Text="Delete"
OnClick="btnDelete_Click" /><br /><br />

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

        <asp:GridView ID="GridView1" runat="server"
AutoGenerateColumns="False" DataKeyNames="DONATION_ID"
                OnSelectedIndexChanged="GridView1_SelectedInde
xChanged">
            <Columns>
                <asp:CommandField ShowSelectButton="True" />
```

```

        <asp:BoundField DataField="DONATION_ID"
HeaderText="ID" ReadOnly="True" />
        <asp:BoundField DataField="DONOR_NAME"
HeaderText="Donor Name" />
        <asp:BoundField DataField="AMOUNT"
HeaderText="Amount" />
        <asp:BoundField DataField="DATE" HeaderText="Date"
/>
        <asp:BoundField DataField="PURPOSE"
HeaderText="Purpose" />
    </Columns>
</asp:GridView>
</form>
</body>
</html>

```

Donations.aspx.vb

```

Imports System.Data
Imports System.Data.SqlClient

Partial Class Donations
    Inherits System.Web.UI.Page

    Dim con As New
SqlConnection(ConfigurationManager.ConnectionStrings("OrphanageDB").
ConnectionString)

    Protected Sub Page_Load(sender As Object, e As EventArgs)
Handles Me.Load
        If Session("username") Is Nothing Then
            Response.Redirect("Login.aspx")
        End If

        If Not IsPostBack Then
            LoadData()
        End If
    End Sub

    Private Sub LoadData()
        Dim cmd As New SqlCommand("SELECT * FROM Donations", con)
        Dim da As New SqlDataAdapter(cmd)
    End Sub

```

```

        Dim dt As New DataTable()
        da.Fill(dt)
        GridView1.DataSource = dt
        GridView1.DataBind()
    End Sub

    Protected Sub btnAdd_Click(sender As Object, e As EventArgs)
        Dim cmd As New SqlCommand("INSERT INTO Donations
(DONOR_NAME, AMOUNT, DATE, PURPOSE) VALUES (@name, @amt, @date,
@purpose)", con)
        cmd.Parameters.AddWithValue("@name", txtDonorName.Text)
        cmd.Parameters.AddWithValue("@amt", txtAmount.Text)
        cmd.Parameters.AddWithValue("@date", txtDate.Text)
        cmd.Parameters.AddWithValue("@purpose", txtPurpose.Text)

        con.Open()
        cmd.ExecuteNonQuery()
        con.Close()

        lblMessage.Text = "Donation added successfully."
        ClearFields()
        LoadData()
    End Sub

    Protected Sub btnUpdate_Click(sender As Object, e As EventArgs)
        Dim cmd As New SqlCommand("UPDATE Donations SET
DONOR_NAME=@name, AMOUNT=@amt, DATE=@date, PURPOSE=@purpose WHERE
DONATION_ID=@id", con)
        cmd.Parameters.AddWithValue("@id", txtDonationID.Text)
        cmd.Parameters.AddWithValue("@name", txtDonorName.Text)
        cmd.Parameters.AddWithValue("@amt", txtAmount.Text)
        cmd.Parameters.AddWithValue("@date", txtDate.Text)
        cmd.Parameters.AddWithValue("@purpose", txtPurpose.Text)

        con.Open()
        cmd.ExecuteNonQuery()
        con.Close()

        lblMessage.Text = "Donation updated successfully."
        ClearFields()
        LoadData()
    End Sub

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

```

```

        Dim cmd As New SqlCommand("DELETE FROM Donations WHERE
DONATION_ID=@id", con)
        cmd.Parameters.AddWithValue("@id", txtDonationID.Text)

        con.Open()
        cmd.ExecuteNonQuery()
        con.Close()

        lblMessage.Text = "Donation deleted successfully."
        ClearFields()
        LoadData()
    End Sub

    Protected Sub GridView1_SelectedIndexChanged(sender As Object, e
As EventArgs)
        Dim row As GridViewRow = GridView1.SelectedRow
        txtDonationID.Text = row.Cells(1).Text
        txtDonorName.Text = row.Cells(2).Text
        txtAmount.Text = row.Cells(3).Text
        txtDate.Text = row.Cells(4).Text
        txtPurpose.Text = row.Cells(5).Text
    End Sub

    Private Sub ClearFields()
        txtDonationID.Text = ""
        txtDonorName.Text = ""
        txtAmount.Text = ""
        txtDate.Text = ""
        txtPurpose.Text = ""
    End Sub
End Class

```

7. Health Records Page

Healthrecords.aspx

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

<!DOCTYPE html>
<html>
<head>
    <title>Health Records Management</title>
</head>
<body>
    <form id="form1" runat="server">
        <h2>Manage Health Records</h2>

        <asp:TextBox ID="txtRecordID" runat="server" Visible="false"
/>

        <asp:TextBox ID="txtOrphanID" runat="server"
Placeholder="Orphan ID" /><br />
        <asp:TextBox ID="txtCheckupDate" runat="server"
Placeholder="Checkup Date (yyyy-mm-dd)" /><br />
        <asp:TextBox ID="txtDiagnosis" runat="server"
Placeholder="Diagnosis" /><br />
        <asp:TextBox ID="txtTreatment" runat="server"
Placeholder="Treatment" /><br /><br />

        <asp:Button ID="btnAdd" runat="server" Text="Add"
OnClick="btnAdd_Click" />
        <asp:Button ID="btnUpdate" runat="server" Text="Update"
OnClick="btnUpdate_Click" />
        <asp:Button ID="btnDelete" runat="server" Text="Delete"
OnClick="btnDelete_Click" /><br /><br />

        <asp:Label ID="lblMessage" runat="server" ForeColor="Green"
/><br /><br />
```



```

        <asp:GridView ID="GridView1" runat="server"
AutoGenerateColumns="False" DataKeyNames="RECORD_ID"
        OnSelectedIndexChanged="GridView1_SelectedInde
xChanged">
            <Columns>
                <asp:CommandField ShowSelectButton="True" />
                <asp:BoundField DataField="RECORD_ID"
HeaderText="ID" ReadOnly="True" />
                <asp:BoundField DataField="ORPHAN_ID"
HeaderText="Orphan ID" />
                <asp:BoundField DataField="CHECKUP_DATE"
HeaderText="Checkup Date" />
                <asp:BoundField DataField="DIAGNOSIS"
HeaderText="Diagnosis" />
                <asp:BoundField DataField="TREATMENT"
HeaderText="Treatment" />
            </Columns>
        </asp:GridView>
    </form>
</body>
</html>

```

Healthrecords.aspx.vb

```

Imports System.Data
Imports System.Data.SqlClient

Partial Class HealthRecords
    Inherits System.Web.UI.Page

    Dim con As New
    SqlConnection(ConfigurationManager.ConnectionStrings("OrphanageDB").
ConnectionString)

    Protected Sub Page_Load(sender As Object, e As EventArgs)
Handles Me.Load
        If Session("username") Is Nothing Then
            Response.Redirect("Login.aspx")
        End If

        If Not IsPostBack Then
            LoadData()
        End If
    End Sub

```

```

        End If
    End Sub

    Private Sub LoadData()
        Dim cmd As New SqlCommand("SELECT * FROM HealthRecords",
con)
        Dim da As New SqlDataAdapter(cmd)
        Dim dt As New DataTable()
        da.Fill(dt)
        GridView1.DataSource = dt
        GridView1.DataBind()
    End Sub

    Protected Sub btnAdd_Click(sender As Object, e As EventArgs)
        Dim cmd As New SqlCommand("INSERT INTO HealthRecords
(ORPHAN_ID, CHECKUP_DATE, DIAGNOSIS, TREATMENT) VALUES (@oid, @date,
@diag, @treat)", con)
        cmd.Parameters.AddWithValue("@oid", txtOrphanID.Text)
        cmd.Parameters.AddWithValue("@date", txtCheckupDate.Text)
        cmd.Parameters.AddWithValue("@diag", txtDiagnosis.Text)
        cmd.Parameters.AddWithValue("@treat", txtTreatment.Text)

        con.Open()
        cmd.ExecuteNonQuery()
        con.Close()

        lblMessage.Text = "Health record added successfully."
        ClearFields()
        LoadData()
    End Sub

    Protected Sub btnUpdate_Click(sender As Object, e As EventArgs)
        Dim cmd As New SqlCommand("UPDATE HealthRecords SET
ORPHAN_ID=@oid, CHECKUP_DATE=@date, DIAGNOSIS=@diag,
TREATMENT=@treat WHERE RECORD_ID=@id", con)
        cmd.Parameters.AddWithValue("@id", txtRecordID.Text)
        cmd.Parameters.AddWithValue("@oid", txtOrphanID.Text)
        cmd.Parameters.AddWithValue("@date", txtCheckupDate.Text)
        cmd.Parameters.AddWithValue("@diag", txtDiagnosis.Text)
        cmd.Parameters.AddWithValue("@treat", txtTreatment.Text)

        con.Open()
        cmd.ExecuteNonQuery()
        con.Close()
    End Sub

```

```

        lblMessage.Text = "Health record updated successfully."
        ClearFields()
        LoadData()
    End Sub

    Protected Sub btnDelete_Click(sender As Object, e As EventArgs)
        Dim cmd As New SqlCommand("DELETE FROM HealthRecords WHERE
RECORD_ID=@id", con)
        cmd.Parameters.AddWithValue("@id", txtRecordID.Text)

        con.Open()
        cmd.ExecuteNonQuery()
        con.Close()

        lblMessage.Text = "Health record deleted successfully."
        ClearFields()
        LoadData()
    End Sub

    Protected Sub GridView1_SelectedIndexChanged(sender As Object, e
As EventArgs)
        Dim row As GridViewRow = GridView1.SelectedRow
        txtRecordID.Text = row.Cells(1).Text
        txtOrphanID.Text = row.Cells(2).Text
        txtCheckupDate.Text = row.Cells(3).Text
        txtDiagnosis.Text = row.Cells(4).Text
        txtTreatment.Text = row.Cells(5).Text
    End Sub

    Private Sub ClearFields()
        txtRecordID.Text = ""
        txtOrphanID.Text = ""
        txtCheckupDate.Text = ""
        txtDiagnosis.Text = ""
        txtTreatment.Text = ""
    End Sub
End Class

```

8. Orphans' Page(not working properly)

Orphans.aspx

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

<!DOCTYPE html>
<html>
<head>
    <title>Orphan Management</title>
</head>
<body>
    <form id="form1" runat="server">
        <h2>Manage Orphans</h2>

        <asp:TextBox ID="txtOrphanID" runat="server" Visible="false"
/>
        <asp:TextBox ID="txtName" runat="server" Placeholder="Name"
/><br />
        <asp:TextBox ID="txtAge" runat="server" Placeholder="Age"
/><br />
        <asp:TextBox ID="txtGender" runat="server"
Placeholder="Gender" /><br />
        <asp:TextBox ID="txtDate" runat="server" Placeholder="Date
of Admission" /><br />
        <asp:TextBox ID="txtGuardianID" runat="server"
Placeholder="Guardian ID" /><br /><br />

        <asp:Button ID="btnAdd" runat="server" Text="Add"
OnClick="btnAdd_Click" />
        <asp:Button ID="btnUpdate" runat="server" Text="Update"
OnClick="btnUpdate_Click" />
        <asp:Button ID="btnDelete" runat="server" Text="Delete"
OnClick="btnDelete_Click" /><br /><br />

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

        <asp:GridView ID="GridView1" runat="server"
AutoGenerateColumns="False" DataKeyNames="ORPHAN_ID"
OnSelectedIndexChanged="GridView1_SelectedInde
xChanged">
            <Columns>
```

```

        <asp:CommandField ShowSelectButton="True" />
        <asp:BoundField DataField="ORPHAN_ID"
HeaderText="ID" ReadOnly="True" />
        <asp:BoundField DataField="NAME" HeaderText="Name"
/>
        <asp:BoundField DataField="AGE" HeaderText="Age" />
        <asp:BoundField DataField="GENDER"
HeaderText="Gender" />
        <asp:BoundField DataField="DATE_OF_ADMISSION"
HeaderText="Admission Date" />
        <asp:BoundField DataField="GUARDIAN_ID"
HeaderText="Guardian ID" />
    </Columns>
</asp:GridView>
</form>
</body>
</html>

```

Orphans.aspx.vb

```

Imports System.Data
Imports System.Data.SqlClient

Partial Class Orphans
    Inherits System.Web.UI.Page

    Dim con As New
    SqlConnection(ConfigurationManager.ConnectionStrings("OrphanageDB").
ConnectionString)

    Protected Sub Page_Load(sender As Object, e As EventArgs)
Handles Me.Load
        If Session("username") Is Nothing Then
            Response.Redirect("Login.aspx")
        End If

        If Not IsPostBack Then
            LoadData()
        End If
    End Sub

    Private Sub LoadData()

```

```

        Dim cmd As New SqlCommand("SELECT * FROM Orphans", con)
        Dim da As New SqlDataAdapter(cmd)
        Dim dt As New DataTable()
        da.Fill(dt)
        GridView1.DataSource = dt
        GridView1.DataBind()
    End Sub

    Protected Sub btnAdd_Click(sender As Object, e As EventArgs)
        Dim cmd As New SqlCommand("INSERT INTO Orphans (NAME, AGE,
GENDER, DATE_OF_ADMISSION, GUARDIAN_ID) VALUES (@name, @age,
@gender, @doa, @gid)", con)
        cmd.Parameters.AddWithValue("@name", txtName.Text)
        cmd.Parameters.AddWithValue("@age", txtAge.Text)
        cmd.Parameters.AddWithValue("@gender", txtGender.Text)
        cmd.Parameters.AddWithValue("@doa", txtDate.Text)
        cmd.Parameters.AddWithValue("@gid", txtGuardianID.Text)

        con.Open()
        cmd.ExecuteNonQuery()
        con.Close()

        lblMessage.Text = "Orphan added successfully."
        ClearFields()
        LoadData()
    End Sub

    Protected Sub btnUpdate_Click(sender As Object, e As EventArgs)
        Dim cmd As New SqlCommand("UPDATE Orphans SET NAME=@name,
AGE=@age, GENDER=@gender, DATE_OF_ADMISSION=@doa, GUARDIAN_ID=@gid
WHERE ORPHAN_ID=@id", con)
        cmd.Parameters.AddWithValue("@id", txtOrphanID.Text)
        cmd.Parameters.AddWithValue("@name", txtName.Text)
        cmd.Parameters.AddWithValue("@age", txtAge.Text)
        cmd.Parameters.AddWithValue("@gender", txtGender.Text)
        cmd.Parameters.AddWithValue("@doa", txtDate.Text)
        cmd.Parameters.AddWithValue("@gid", txtGuardianID.Text)

        con.Open()
        cmd.ExecuteNonQuery()
        con.Close()

        lblMessage.Text = "Orphan updated successfully."
        ClearFields()
    End Sub

```

```

        LoadData()
    End Sub

    Protected Sub btnDelete_Click(sender As Object, e As EventArgs)
        Dim cmd As New SqlCommand("DELETE FROM Orphans WHERE
ORPHAN_ID=@id", con)
        cmd.Parameters.AddWithValue("@id", txtOrphanID.Text)

        con.Open()
        cmd.ExecuteNonQuery()
        con.Close()

        lblMessage.Text = "Orphan deleted successfully."
        ClearFields()
        LoadData()
    End Sub

    Protected Sub GridView1_SelectedIndexChanged(sender As Object, e
As EventArgs)
        Dim row As GridViewRow = GridView1.SelectedRow
        txtOrphanID.Text = row.Cells(1).Text
        txtName.Text = row.Cells(2).Text
        txtAge.Text = row.Cells(3).Text
        txtGender.Text = row.Cells(4).Text
        txtDate.Text = row.Cells(5).Text
        txtGuardianID.Text = row.Cells(6).Text
    End Sub

    Private Sub ClearFields()
        txtOrphanID.Text = ""
        txtName.Text = ""
        txtAge.Text = ""
        txtGender.Text = ""
        txtDate.Text = ""
        txtGuardianID.Text = ""
    End Sub
End Class

```

9. Web.config

```
<configuration>
  <connectionStrings>
    <add name="OrphanageDB"
          connectionString="workstation
id=Lab_projects.mssql.somee.com;packet size=4096;user
id=hadiqanadeem_SQLLogin_2;pwd=psutgju9rc;data
source=Lab_projects.mssql.somee.com;persist security
info=False;initial catalog=Lab_projects;TrustServerCertificate=True"
          providerName="System.Data.SqlClient" />
    </connectionStrings>

    <system.web>
      <customErrors mode="Off"/>
      <compilation debug="true"/>
    </system.web>
  </configuration>
```

10. SQL Query(used on some)

```
CREATE TABLE Users (
  USER_ID INT IDENTITY(1,1) PRIMARY KEY,
  USERNAME VARCHAR(50) UNIQUE NOT NULL,
  PASSWORD_HASH VARCHAR(255) NOT NULL
);

CREATE TABLE Guardians (
  GUARDIAN_ID INT IDENTITY(1,1) PRIMARY KEY,
  NAME VARCHAR(100),
  RELATION VARCHAR(50),
  PHONE VARCHAR(15),
  ADDRESS VARCHAR(255)
);

CREATE TABLE Orphans (
  ORPHAN_ID INT IDENTITY(1,1) PRIMARY KEY,
  NAME VARCHAR(100),
  AGE INT,
  GENDER VARCHAR(10),
  DATE_OF_ADMISSION DATE,
```



```

        GUARDIAN_ID INT FOREIGN KEY REFERENCES Guardians(GUARDIAN_ID)
    );

CREATE TABLE Donations (
    DONATION_ID INT IDENTITY(1,1) PRIMARY KEY,
    DONOR_NAME VARCHAR(100),
    AMOUNT DECIMAL(10,2),
    DATE DATE,
    PURPOSE VARCHAR(255)
);

CREATE TABLE Staff (
    STAFF_ID INT IDENTITY(1,1) PRIMARY KEY,
    NAME VARCHAR(100),
    ROLE VARCHAR(50),
    PHONE VARCHAR(15),
    JOIN_DATE DATE
);

CREATE TABLE HealthRecords (
    RECORD_ID INT IDENTITY(1,1) PRIMARY KEY,
    ORPHAN_ID INT FOREIGN KEY REFERENCES Orphans(ORPHAN_ID),
    CHECKUP_DATE DATE,
    DIAGNOSIS VARCHAR(255),
    TREATMENT VARCHAR(255)
);

CREATE TABLE Education (
    EDUCATION_ID INT IDENTITY(1,1) PRIMARY KEY,
    ORPHAN_ID INT FOREIGN KEY REFERENCES Orphans(ORPHAN_ID),
    SCHOOL_NAME VARCHAR(100),
    GRADE VARCHAR(10),
    PERFORMANCE_REMARKS VARCHAR(255)
);

```

Conclusion

This system will initially works at a very basic level I hope I can take it to the advanced level.