**2) Design a web page (e.g., Default.aspx) with the following elements: A GridView to display the list of students from the database. TextBox controls for entering a new student's FirstName, LastName, and Age. Buttons for "Add Student" and "Refresh List."**

**Create table in sqlserver management studio with Student name**

**Add connection ….**

CREATE TABLE [dbo].[students]

(

studentId INT PRIMARY KEY IDENTITY(1,1), FirstName NVARCHAR(50) NOT NULL, LastName NVARCHAR(50) NOT NULL, age NVARCHAR(20) NOT NULL

);

add->webform:

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs" Inherits="gridview1.WebForm1" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

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

<div>

<asp:Label ID="Label1" runat="server" Text="StudentID"></asp:Label>

&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

<asp:TextBox ID="studentid" runat="server"></asp:TextBox>

<br />

<br />

<asp:Label ID="Label2" runat="server" Text="FirstName :"></asp:Label>

&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

<asp:TextBox ID="fname" runat="server"></asp:TextBox>

<br />

<br />

<asp:Label ID="Label3" runat="server" Text="LastName :"></asp:Label>

&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

<asp:TextBox ID="lname" runat="server"></asp:TextBox>

<br />

<br />

<asp:Label ID="Label4" runat="server" Text="Age :"></asp:Label>

&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

<asp:TextBox ID="age1" runat="server"></asp:TextBox>

<br />

&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

<br />

&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

<asp:Button ID="Button1" runat="server" Text="Submit" OnClick="Button1\_Click" />

&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

<asp:Button ID="Button2" runat="server" OnClick="Button2\_Click" Text="Refresh List" />

<br />

&nbsp;&nbsp;&nbsp;

<asp:Label ID="success1" runat="server" Text="" Style="color:palegreen"></asp:Label>

<br />

&nbsp;&nbsp;&nbsp;

<asp:Label ID="error" runat="server" Text="" Style="color:red"></asp:Label>

<br />

&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

</div>

<div>

<h2>Student Database</h2>

<asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="False" DataKeyNames="StudentID" DataSourceID="SqlDataSource1">

<Columns>

<asp:BoundField DataField="StudentID" HeaderText="StudentID" SortExpression="StudentID" ReadOnly="True" />

<asp:BoundField DataField="FirstName" HeaderText="FirstName" SortExpression="FirstName" />

<asp:BoundField DataField="LastName" HeaderText="LastName" SortExpression="LastName" />

<asp:BoundField DataField="Age" HeaderText="Age" SortExpression="Age" />

</Columns>

</asp:GridView>

<asp:SqlDataSource ID="SqlDataSource1" runat="server" ConnectionString="Data Source=localhost\SQLEXPRESS;Initial Catalog=Student;Integrated Security=True" SelectCommand="SELECT \* FROM [Students]"></asp:SqlDataSource>

</div>

</form>

</body>

</html>

**Webform.aspx.cs:**

using System;

using System.Collections.Generic;

using System.Configuration;

using System.Data.SqlClient;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

using System.Xml.Linq;

namespace gridview1

{

public partial class WebForm1 : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

}

protected void Button1\_Click(object sender, EventArgs e)

{

try

{

// Retrieve values from the form controls

int studentID = Convert.ToInt32(studentid.Text);

string firstName = fname.Text;

string lastName = lname.Text;

int age = Convert.ToInt32(age1.Text);

// Assuming you have a database connection string in the configuration

string connectionString = "Data Source=localhost\\SQLEXPRESS;Initial Catalog=Student;Integrated Security=True";

using (SqlConnection connection = new SqlConnection(connectionString))

{

// Open the database connection

connection.Open();

// Example: Inserting data into the Students table

string insertQuery = "INSERT INTO students (StudentID, FirstName, LastName, Age) " +

"VALUES (@studentID, @firstName, @lastName, @age)";

using (SqlCommand command = new SqlCommand(insertQuery, connection))

{

// Add parameters to the SQL command

command.Parameters.AddWithValue("@studentID", studentID);

command.Parameters.AddWithValue("@firstName", firstName);

command.Parameters.AddWithValue("@lastName", lastName);

command.Parameters.AddWithValue("@age", age);

// Execute the SQL command

command.ExecuteNonQuery();

}

// Close the database connection

connection.Close();

// You can add any additional logic or messages here

success1.Text = "Inserted Succesful";

// For example, display success message

// Response.Write("Data added successfully!");

}

}

catch (Exception ex)

{

// Handle the exception, you can display an error message or log it

// For example, display an error message

Response.Write("Error: " + ex.Message);

}

}

protected void Button2\_Click(object sender, EventArgs e)

{

try

{

GridView1.DataBind();

}

catch (Exception c)

{

Response.Write(c.Message);

}

}

}

}