

506 ASP.NET with C# WebPage / Program

ThankYouCode
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Hello, in this exploration you go with **Jat Kishan** | @ThankYouCode

1. Hello Computer

Index.aspx

```
<!DOCTYPE html>
<html>
<head>
    <title>First C# web from use</title>
</head>
<body></body>
</html>
```

Index.aspx.cs

```
namespace HelloComputer {
    public partial class Index : System.Web.UI.Page {
        protected void Page_Load(object sender, EventArgs e) {
            Response.Write("<div><h1>Hello Computer</h1></div>");
        }
    }
}
```

2. Using Namespace

Index.aspx

```
<html>
<head>
    <title>Using Namespace</title>
</head>
<body></body>
</html>
```

Index.aspx.cs

```
using System;
using System.Web;
using System.Web.UI;
using MyHelper;
namespace UsingNamespaces {
    public partial class Index : System.Web.UI.Page {
        protected void Page_Load(object sender, EventArgs e) {
            Response.Write("max 999 or 500/0.1<br>Max: ");
            Response.Write(Helper.max(999, 500/0.1));
        }
    }
}
```

Helper.cs

```
namespace MyHelper {
    public class Helper {
        public static double max(double a, double b) {
            return a > b ? a : b;
        }
    }
}
```

3. page link

Index.aspx

```
<html>
<head>
    <title>I have one more page</title>
</head>
<body>
    <h1>Drive on blue road for destination</h1>
    <a href="Welcome.aspx">Visit Welcome page</a>
</body>
</html>
```

Welcome.aspx

```
<html>
<head>
    <title>Welcome to page</title>
</head>
<body>
```

```

    <p>Your destination</p>
    <h1>Welcome, you got this page</h1>
</body>
</html>

```

4. Request, Response and Server Object

Index.aspx

```

<html>
<head>
    <title>Todo List</title>
</head>
<body>
    <form id="todoform" runat="server">
        <h1>Todo list</h1>
        <input id="TodoText" runat="server" type="text" />
        <asp:Button ID="NewTodoBtn" runat="server" Text="New Todo"
OnClick="newTodo" />
        <asp:Button ID="ClearTodoBtn" runat="server" Text="Clear All"
OnClick="clearTodo" />
        <asp:CheckBoxList ID="TodoList" runat="server" />
    </form>
</body>
</html>

```

Index.aspx.cs

```

namespace BasicBackend {
    public partial class Index : System.Web.UI.Page {
        protected void newTodo(object sender, EventArgs e) {
            String todo_task = Request["TodoText"];
            TodoText.Value = String.Empty;
            TodoList.Items.Add(todo_task);
        }
        protected void clearTodo(object sender, EventArgs e) {
            Response.Redirect("Index.aspx");
        }
    }
}

```

5. Delegate for addition and subtraction

HelloDeledate.aspx

```

<html>
<head> <title>My Delegate</title> </head>

```

```

<body>
    <form id="form1" runat="server">
        Number1: <input id="n1" runat="server" type="text" /><br />
        Number2: <input id="n2" runat="server" type="text" /><br />
        <asp:Button runat="server" Text="Calculate" onClick="LetsGo" />
    </form>
</body>
</html>

```

HelloDeledate.aspx.cs

```

namespace DelegateAddSub {
    public partial class HelloDelegate : System.Web.UI.Page {
        int sumVal, subVal, a, b;
        int Sum(int a, int b) { return a + b; }
        int Sub(int a, int b) { return a - b; }
        delegate int Globlecalc(int a, int b);
        Globlecalc Calc;
        protected void LetsGo(object sender, EventArgs e) {
            a = int.Parse(n1.Value);
            b = int.Parse(n2.Value);
            Calc = new Globlecalc(new HelloDelegate().Sum);
            sumVal = Calc(a, b);
            Calc = new Globlecalc(new HelloDelegate().Sub);
            subVal = Calc(a, b);
            Response.Write("Summation: " + sumVal + "<br /> Subtraction: " +
subVal);
        }
    }
}

```

6. Odd and Even sum

Index.aspx

```

<html>
<head> <title>Odd Even sum</title> </head>
<body></body>
</html>

```

Index.aspx.cs

```

namespace OddEvenSum {
    public partial class Index : System.Web.UI.Page {
        protected void Page_Load(object sender, EventArgs e) {
            int odd = 0, even = 0, n = 100;
            for (int i = 1; i <= n; i += 2) {

```

```

        odd += i;
        even += i + 1;
    }
    Response.Write("odd and even sum 1 to 100 <br />Odd: " + odd + "<br />Even: " + even);
}
}
}

```

7. Foreach loop use

Index.aspx

```

<html>
<head><title>Foreach Player</title></head>
<body></body>
</html>

```

Index.aspx.cs

```

namespace ForEach {
    public partial class Index : System.Web.UI.Page {
        protected void Page_Load(object sender, EventArgs e) {
            string[] players = { "Janak", "Jat Kishan", "Krunal", "Dashrath" };
            Response.Write("<h1>Players list</h1><ul>");
            foreach (string player in players) {
                Response.Write("<li>" + player + "</li>");
            }
            Response.Write("</ul>");
        }
    }
}

```

9. Common Control

Index.aspx

```

<html>
<head>
    <title>Dev News Registration</title>
    <link rel="stylesheet" href="style.css">
</head>
<body>
    <form>
        <div class="space-box">
            <h2>User Registration</h2>
            <asp:TextBox ID="name" runat="server" placeholder="Name" />

```

```

        <asp:TextBox ID="email" runat="server" TextMode="Email" placeholder="Email"
/>
        <asp:TextBox ID="pass" runat="server" TextMode="Password"
placeholder="Password" />
        <div>
            <asp:RadioButton ID="Male" runat="server" GroupName="Gender" Text="Male"
/>
            <asp:RadioButton ID="Female" runat="server" GroupName="Gender"
Text="Female" />
        </div>
        <div>
            <asp:CheckBox ID="Newsletter" runat="server" Text="Subscribe to
Newsletter" />
        </div>
        Date of Birth:
        <asp:Calendar ID="dob" runat="server" />
        <asp:Button ID="ButtonSubmit" runat="server" Text="Register" />
    </div>
</form>
</body>

</html>

```

10. add the value on text box to Dropdown list and list box controls.

Index.aspx

```

<html>
<head>
    <title>Add list item</title>
</head>
<body>
    <form runat="server">
        <asp:ListBox ID="ListBox" runat="server" />
        <asp:DropDownList ID="DropDownList" runat="server" />
        <input ID="inputText" runat="server" placeholder="input value" type="text"
/>
        <asp:Button runat="server" Text="Add" OnClick="AddItem" />
    </form>
</body>
</html>

```

Index.aspx.cs

```

namespace AddHtmlData {
    public partial class Index : System.Web.UI.Page {
        protected void AddItem(object sender, EventArgs e) {
            String text = inputText.Value;
            ListBox.Items.Add(text);
        }
    }
}

```

```

        DropDownList.Items.Add(text);
    }
}

```

11. remove the value on text box to Dropdown list and list box controls.

Index.aspx

```

<html>
<head>
    <title>Add list item</title>
</head>
<body>
    <form runat="server">
        <asp:ListBox ID="ListBox" runat="server" />
        <asp:DropDownList ID="DropDownList" runat="server" />
        <input ID="inputText" runat="server" placeholder="input value" type="text" />
        <asp:Button runat="server" Text="Add" OnClick="AddItem" />
        <asp:Button runat="server" Text="Remove" OnClick="RemoveItem" />
    </form>
</body>
</html>

```

Index.aspx.cs

```

namespace AddHtmlData {
    public partial class Index : System.Web.UI.Page {
        protected void AddItem(object sender, EventArgs e) {
            String text = inputText.Value;
            ListBox.Items.Add(text);
            DropDownList.Items.Add(text);
        }
        protected void RemoveItem(object sender, EventArgs e) {
            String text = inputText.Value;
            ListBox.Items.Remove(text);
            DropDownList.Items.Remove(text);
        }
    }
}

```

12. Image selector

Index.aspx

```

<html>
<head>
  <title>Image selector</title>
</head>
<body>
  <form id="form1" runat="server">
    <asp:DropDownList
      ID="DropDownList1"
      runat="server"
      AutoPostBack="true"
      OnSelectedIndexChanged="ImageChange"
    >
      <asp:ListItem Value="python.jpg">Python</asp:ListItem>
      <asp:ListItem Value="java.png">Java</asp:ListItem>
      <asp:ListItem Value="csharp.png">C#</asp:ListItem>
      <asp:ListItem Value="javascript.png">JavaScript</asp:ListItem>
    </asp:DropDownList>
    <asp:Image ID="Image" runat="server" Height="200px" Width="200px" />
  </form>
</body>
</html>

```

Index.aspx.cs

```

public partial class _Default : System.Web.UI.Page {
    protected void Page_Load(object sender, EventArgs e) {
        Image.ImageUrl = "./images/python.jpg";
    }
    protected void ImageChange(object sender, EventArgs e) {
        string selectedValue = DropDownList1.SelectedValue;

        Image.ImageUrl = "./images/" + selectedValue;
    }
}

```

13. Validation Control

Index.aspx

```

<html>
<head>
  <title>Enter valid data</title>
</head>
<body>
  <form runat="server">
    <h1>DEV News letter</h1>
    Name: <asp:TextBox ID="name" runat="server" />
    <asp:RequiredFieldValidator runat="server" ErrorMessage="Name is Required"

```



```

ControlToValidate="name"/><br />
    Email: <asp:TextBox ID="email" runat="server" TextMode="Email" />
    <asp:RegularExpressionValidator runat="server" ErrorMessage="Invalid
email" ControlToValidate="email" ValidationExpression="\w+([-+.'])\w+)*@\w+
([-.]\w+)*\.\w+([-.]\w+)*"/><br />
    Password: <asp:TextBox ID="pass" runat="server" TextMode="Password" />
    Re-enter Password: <asp:TextBox ID="pass2" runat="server"
TextMode="Password" />
    <asp:CompareValidator runat="server" ErrorMessage="Password not match"
ControlToValidate="pass2" ControlToCompare="pass"/><br />
    Phone No: <asp:TextBox ID="phone" runat="server" TextMode="Phone" />
    <asp:RegularExpressionValidator runat="server" ErrorMessage="Invalid Phone
number" ControlToValidate="phone" ValidationExpression="[0-9]{10}"/><br />
    Number of letter in week: <asp:TextBox ID="lettercount" runat="server"
TextMode="Number" />
    <asp:RangeValidator runat="server" ErrorMessage="Enter between 0 to 5"
ControlToValidate="lettercount" MinimumValue="0" MaximumValue="5"/><br />
    <asp:Button ID="ButtonSubmit" runat="server" Text="Register" />
</form>
</body>
</html>

```

DEV News letter

Name: Name is Required enter name

Email:

Password: Re-enter Password: Password not match

Phone No: Invalid Phone number

Number of letter in week:

14. Different Rich control.

Index.aspx

```

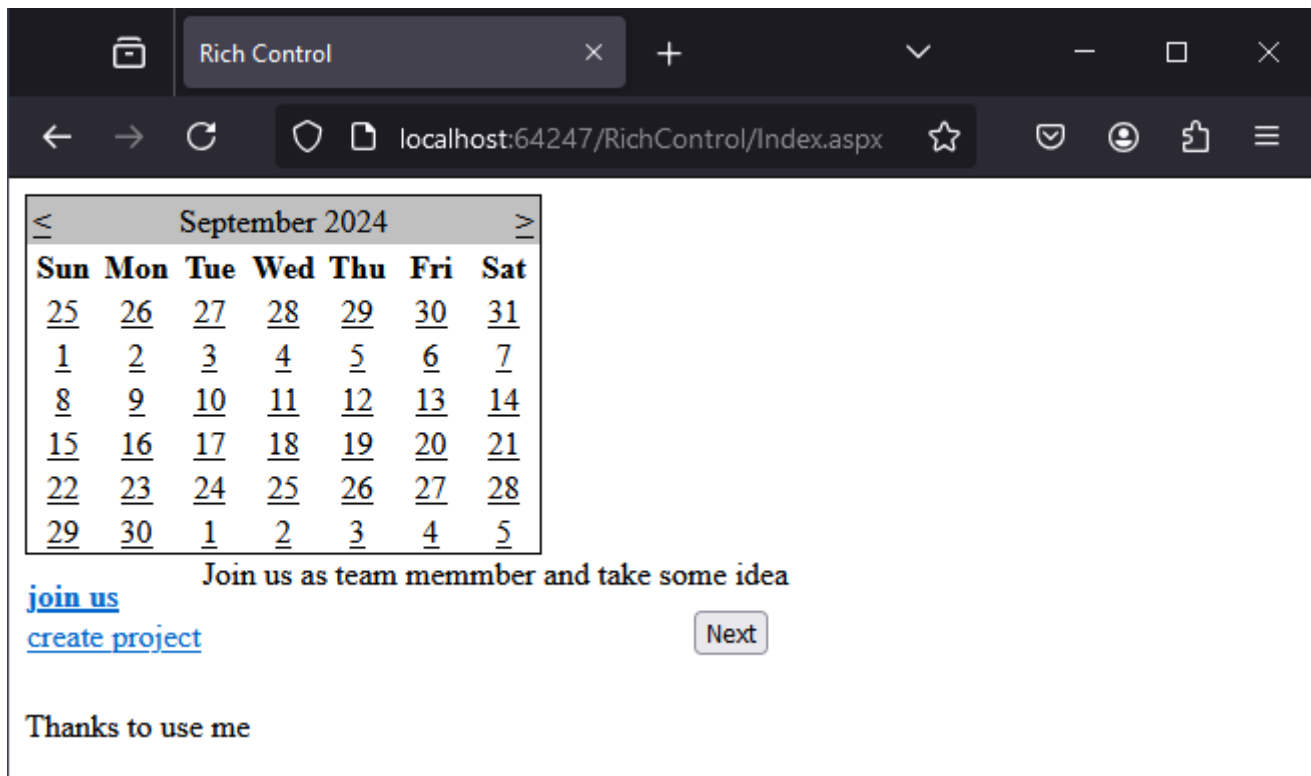
<html>
<head runat="server">
    <title>Rich Control</title>
</head>
<body>
    <form runat="server">
        <asp:Calendar runat="server" />
        <asp:Wizard runat="server">

```

```

        <WizardSteps>
            <asp:WizardStep runat="server" Title="join us">
                Join us as team memmber and take some idea
            </asp:WizardStep>
            <asp:WizardStep runat="server" Title="create project">
                Create project and help to world
            </asp:WizardStep>
        </WizardSteps>
    </asp:Wizard>
    <asp:MultiView runat="server">
        <asp:View runat="server">page 2</asp:View>
        <asp:View runat="server">page 3</asp:View>
    </asp:MultiView>
    <asp:Substitution runat="server" />
    <p>Thanks to use me</p>
</form>
</body>
</html>

```



15. Menu Control

Layout.master

```

<%@ Master Language="C#" %>
<html>
<head runat="server">
    <title>Smart Indian Hackathon</title>
    <link rel="stylesheet" href="style.css" />
</head>
<body>

```

```

        <form runat="server">
            <asp:Menu runat="server" ForeColor="White" Orientation="Horizontal"
Width="100%" class="header">
                <Items>
                    <asp:MenuItem value="Home" NavigateUrl="~/Home.aspx">
</asp:MenuItem>
                    <asp:MenuItem value="About" NavigateUrl="~/About.aspx">
</asp:MenuItem>
                    <asp:MenuItem value="Contect" NavigateUrl="~/Contect.aspx">
</asp:MenuItem>
                </Items>
            </asp:Menu>
            <main>
                <asp:ContentPlaceHolder ID="Main" runat="server"></asp:ContentPlaceHolder>
            </main>
        </form>
</body>
</html>

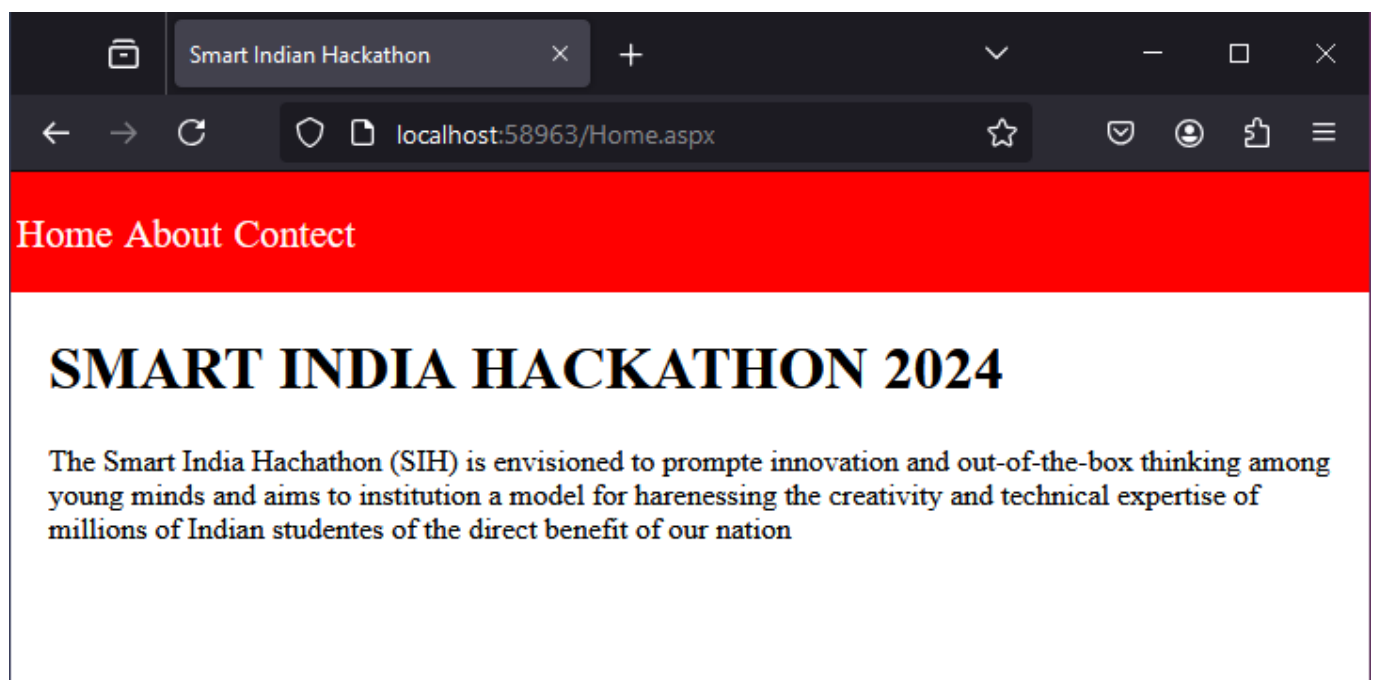
```

Home.aspx

```

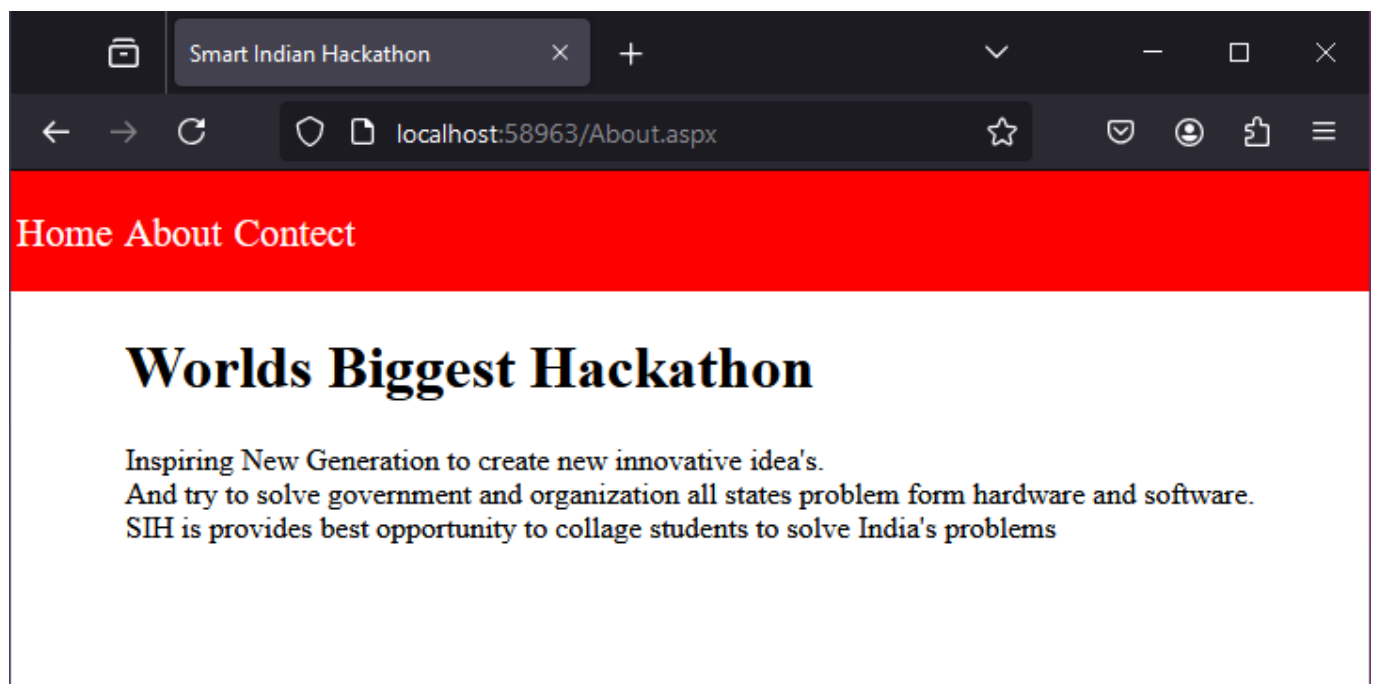
<%@ Page Title="" Language="C#" MasterPageFile="~/Layout.Master" %>
<asp:Content ContentPlaceHolderID="Main" runat="server">
    <h1>SMART INDIA HACKATHON 2024</h1>
    <p>The Smart India Hachathon (SIH) is envisioned to prompte innovation and
out-of-the-box thinking
        among young minds and aims to institution a model for harenessing the
creativity and technical
        expertise of millions of Indian studentes of the direct benefit of our
nation</p>
</asp:Content>

```



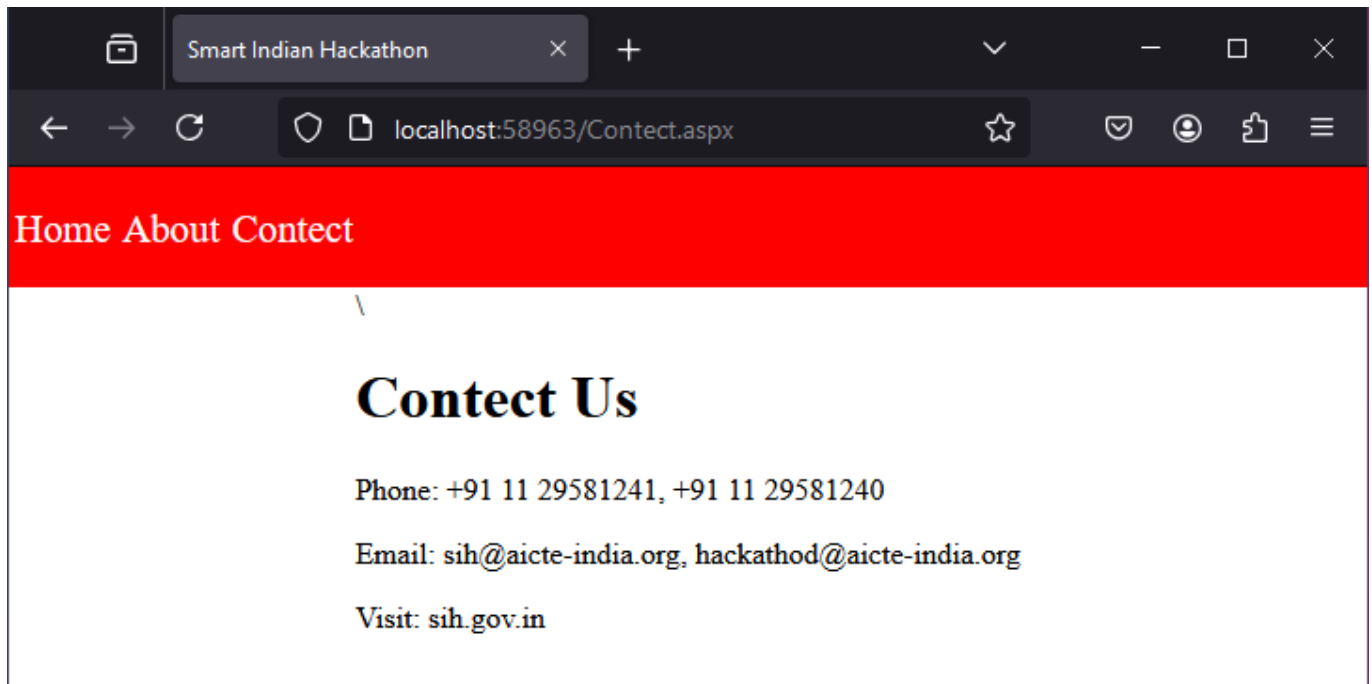
About.aspx

```
<%@ Page Title="" Language="C#" MasterPageFile="~/Layout.Master" %>
<asp:Content ContentPlaceHolderID="Main" runat="server">
    <h1>Worlds Biggest Hackathon</h1>
    <p>Inspiring New Generation to create new innovative idea's.<br />
    And try to solve government and organization all states problem form hardware
    and software.<br />
    SIH is provides best opportunity to collage students to solve India's
    problems</p>
</asp:Content>
```



Contect.aspx

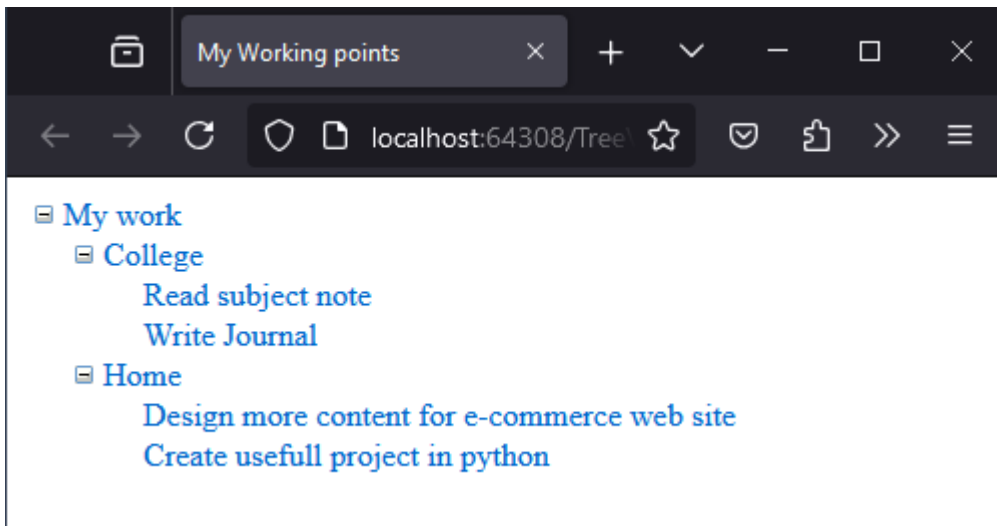
```
<%@ Page Language="C#" MasterPageFile="~/Layout.Master" %>
<asp:Content ContentPlaceHolderID="Main" runat="server">\
    <h1>Contect Us</h1>
    <p>Phone: +91 11 29581241, +91 11 29581240</p>
    <p>Email: sih@aicte-india.org, hackathod@aicte-india.org</p>
    <p>Visit: sih.gov.in</p>
</asp:Content>
```



16. Tree view

Index.aspx

```
<html>
<head>
  <title>My Working points</title>
</head>
<body>
  <form runat="server">
    <asp:TreeView runat="server">
      <Nodes>
        <asp:TreeNode Text="My work">
          <asp:TreeNode Text="College">
            <asp:TreeNode Text="Read subject note" />
            <asp:TreeNode Text="Write Journal" />
          </asp:TreeNode>
          <asp:TreeNode Text="Home">
            <asp:TreeNode Text="Design more content for e-commerce web
site" />
            <asp:TreeNode Text="Create usefull project in python" />
          </asp:TreeNode>
        </asp:TreeNode>
      </Nodes>
    </asp:TreeView>
  </form>
</body>
</html>
```



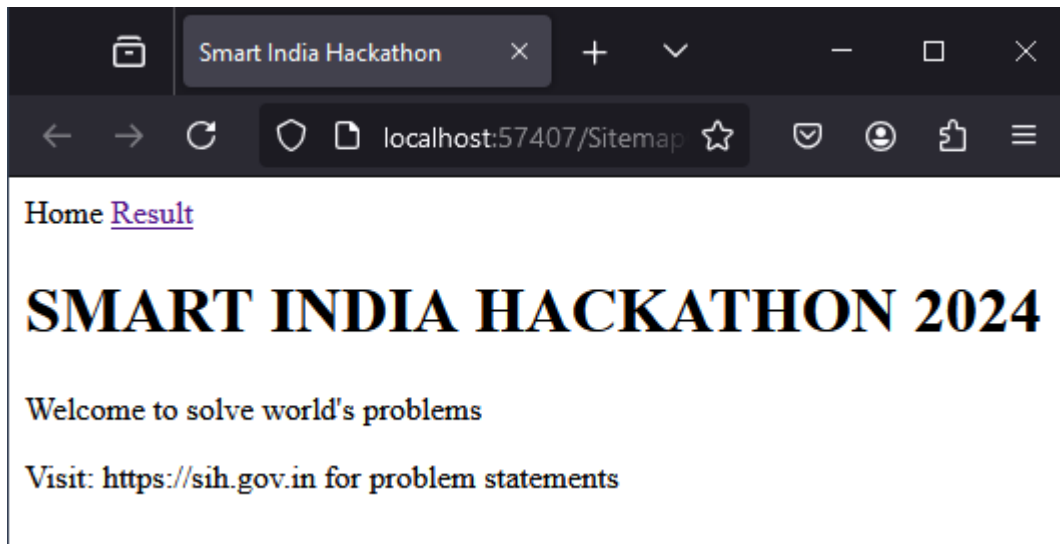
17. Sitemap Control

Web.sitemap

```
<?xml version="1.0" encoding="utf-8" ?>
<siteMap>
  <siteMapNode url="/SIH.aspx" title="Home" description="Home page">
    <siteMapNode url="/Result.aspx" title="Result" />
  </siteMapNode>
</siteMap>
```

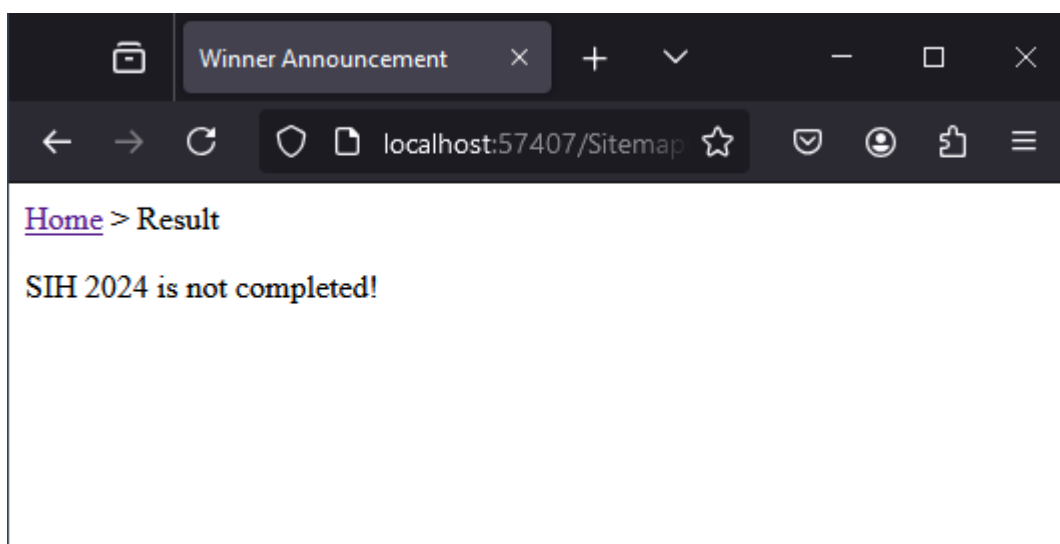
SIH.aspx

```
<html>
<head>
  <title>Smart India Hackathon</title>
</head>
<body>
  <form id="form1" runat="server">
    <asp:SiteMapDataSource ID="SiteMapSourceSIH" runat="server" />
    <asp:SiteMapPath ID="IndexSiteMap" runat="server" />
    <a href="Result.aspx">Result</a>
    <h1>SMART INDIA HACKATHON 2024</h1>
    <P>Welcome to solve world's problems</P>
    <P>Visit: https://sih.gov.in for problem statements </P>
  </form>
</body>
</html>
```



Result.aspx

```
<html>
<head>
  <title>Winner Announcement</title>
</head>
<body>
  <form id="form1" runat="server">
    <asp:SiteMapPath ID="IndexSiteMap" runat="server" />
    <p>SIH 2024 is not completed!</p>
  </form>
</body>
</html>
```



18. Master Page and Theme

Index.master

```

<%@ Master Language="C#" %>
<html>
<head id="Head1" runat="server">
    <asp:ContentPlaceHolder ID="head" runat="server" />
    <link rel="Stylesheet" href="style.css" />
</head>
<body>
    <header>
        <a href="/Home.aspx">Home</a>
        <a href="/About.aspx">About</a>
    </header>
    <main>
        <asp:ContentPlaceHolder ID="Main" runat="server" />
    </main>
    <footer>
        &copy; freeCodeCamp.org All rights reserved 2024
    </footer>
</body>
</html>

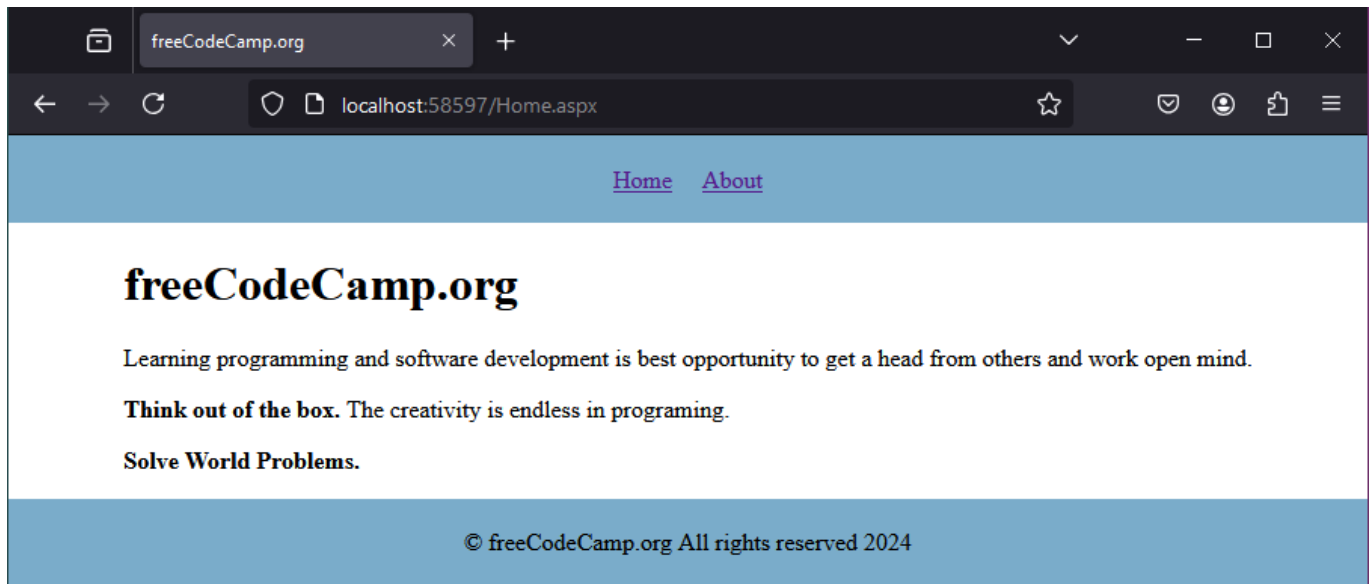
```

Home.aspx

```

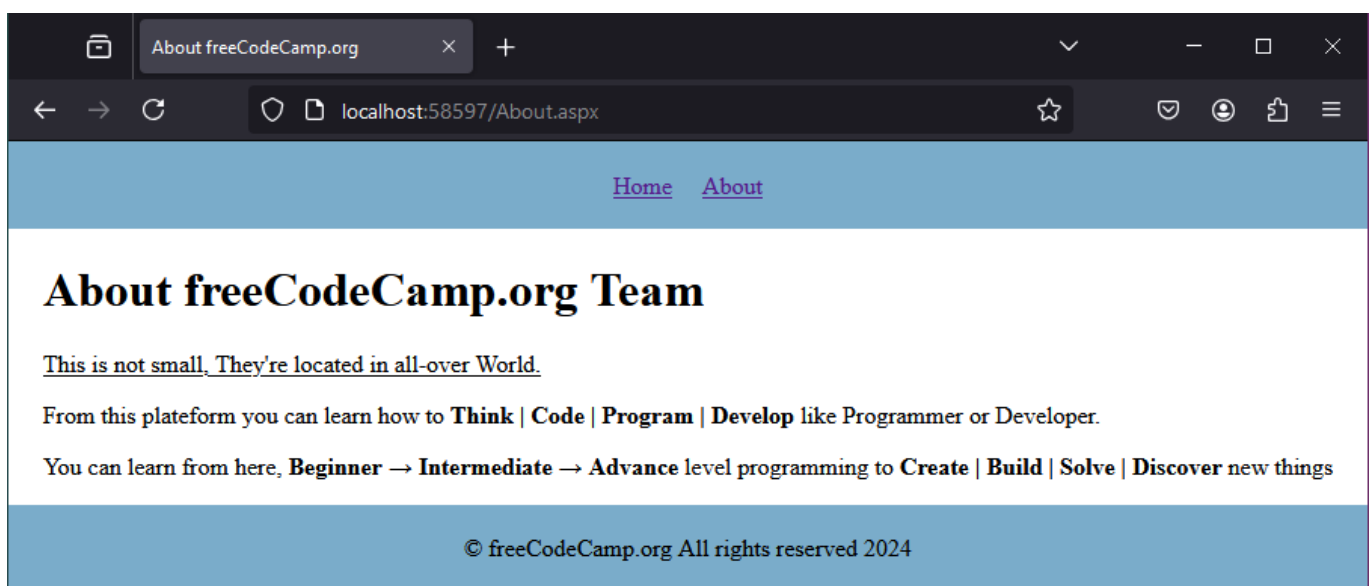
<%@ Page Title="" Language="C#" MasterPageFile="~/Index.Master"%>
<asp:Content ContentPlaceHolderID="head" runat="server">
    <title>freeCodeCamp.org</title>
</asp:Content>
<asp:Content ContentPlaceHolderID="Main" runat="server">
    <h1>freeCodeCamp.org</h1>
    <p>Learning programming and software development is best opportunity to get a
head from others
and work open mind.</p>
    <b>Think out of the box.</b>
    The creativity is endless in programing.<br />
    <p><b>Solve World Problems.</b></p>
</asp:Content>

```

About.aspx

```
<%@ Page Title="" Language="C#" MasterPageFile="~/Index.Master"%>
<asp:Content ID="Content21" ContentPlaceHolderID="head" runat="server">
    <title>About freeCodeCamp.org</title>
</asp:Content>
<asp:Content ID="Content22" ContentPlaceHolderID="Main" runat="server">
    <h1>About freeCodeCamp.org Team</h1>
    <u>This is not small, They're located in all-over World.</u>
    <p>From this plateform you can learn how to <b>Think | Code | Program |
Develop</b> like Programmer or Developer.</p>
    <p>You can learn from here, <b>Beginner &rarr; Intermediate &rarr; Advance</b>
level programming to <b>Create | Build | Solve | Discover</b> new things</p>
</asp:Content>
```



19. GridView with database recoreds.

Index.aspx

```

<html>
<head> <title>Friend Data</title> </head>
<body>
    <form runat="server">
        <asp:GridView ID="FriendData" runat="server" />
    </form>
</body>
</html>

```

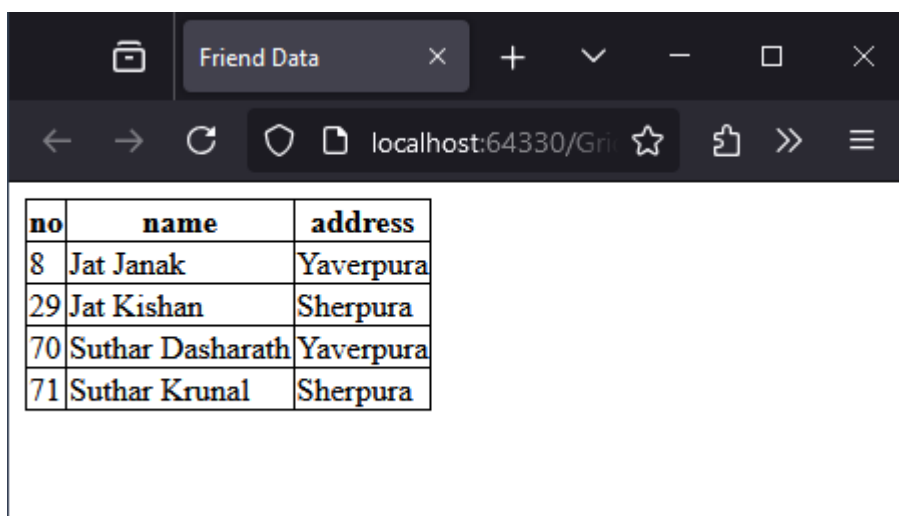
Index.aspx.cs

```

using System.Data;
using System.Data.SqlClient;
using System.Configuration;

public partial class Index : System.Web.UI.Page {
    protected void Page_Load(object sender, EventArgs e) {
        string connString = @"Data
Source=.\SQLEXPRESS;AttachDbFilename=path\GridView\App_Data\FriendDatabase.mdf;Int
egrated Security=True;User Instance=True";
        using(SqlConnection conn = new SqlConnection(connString)) {
            string query = "SELECT * FROM FriendData;";
            using (SqlDataAdapter da = new SqlDataAdapter(query, conn)) {
                DataTable dt = new DataTable();
                da.Fill(dt);
                FriendData.DataSource = dt;
                FriendData.DataBind();
            }
        }
    }
}

```



The screenshot shows a web browser window with the title "Friend Data". The address bar displays "localhost:64330/GridView". The main content area contains a table with three columns: "no", "name", and "address". The table lists four records:

no	name	address
8	Jat Janak	Yaverpura
29	Jat Kishan	Sherpura
70	Suthar Dasharath	Yaverpura
71	Suthar Krunal	Sherpura

20. DetailView with database records.

DetailView.aspx

```
<html>
<head> <title>Detail Friend Info</title> </head>
<body>
    <form id="form1" runat="server">
        <asp:DetailsView ID="FriendData" runat="server" Height="50px" Width="125px"
AllowPaging=true PagerSettings-Mode=NextPrevious PagerSettings-
PreviousPageText="Previous-Record" PagerSettings-NextPageText="Next-Record"
OnPageIndexChanging="UpdateView_FriendData" />
    </form>
</body>
</html>
```

DetailView.aspx.cs

```
using System.Data;
using System.Data.SqlClient;
using System.Configuration;
public partial class DetailView : System.Web.UI.Page {
    protected void Page_Load(object sender, EventArgs e) {
        string connString = @"Data
Source=.\SQLEXPRESS;AttachDbFilename=path\GridView\App_Data\FriendDatabase.mdf;Int
egrated Security=True;User Instance=True";
        using (SqlConnection conn = new SqlConnection(connString)) {
            string query = "SELECT * FROM FriendData;";
            using (SqlDataAdapter da = new SqlDataAdapter(query, conn)) {
                DataTable dt = new DataTable();
                da.Fill(dt);
                FriendData.DataSource = dt;
                FriendData.DataBind();
            }
        }
    }
    protected void UpdateView_FriendData(object sender, DetailsViewPageEventArgs
e) {
        FriendData.PageIndex = e.NewPageIndex;
        this.Page_Load(sender, e);
    }
}
```

no	8
name	Jat Janak
address	Yaverpura
Next-Record	

21. Add and Update query - Database

This web form using in 21 and 22 program # Same #

Home.aspx

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title>Welcome Form for Developers</title>
  <link rel="stylesheet" href="style.css" />
</head>
<body class="oswald">
  <main>
    <h1>Welcome to Development web site</h1>
    <form id="form1" runat="server">
      <div>
        <div class="input-fild-data">
          <label>Roll Number</label>
          <input id="rollnumber" runat="server" type="text" />
        </div>
        <div class="input-fild-data">
          <label>Semester</label>
          <asp:DropDownList ID="sem" runat="server" class="input">
            <asp:ListItem Value="Sem-1">SEM 1</asp:ListItem>
            <asp:ListItem Value="Sem-2">SEM 2</asp:ListItem>
            <asp:ListItem Value="Sem-3">SEM 3</asp:ListItem>
            <asp:ListItem Value="Sem-4">SEM 4</asp:ListItem>
            <asp:ListItem Value="Sem-5">SEM 5</asp:ListItem>
            <asp:ListItem Value="Sem-6">SEM 6</asp:ListItem>
          </asp:DropDownList>
        </div>
        <div class="input-fild-data">
          <label>First Name</label>
          <input id="firstname" runat="server" type="text" />
        </div>
        <div class="input-fild-data">
          <label>Last Name</label>
          <input id="lastname" runat="server" type="text" />
        </div>
      </div>
    </form>
  </main>
</body>
</html>
```

```

</div>
<div class="input-fild-data">
    <label>Phone No.</label>
    <input id="phonenumber" runat="server" type="text" />
</div>
<div class="input-fild-data">
    <label>Birth Date</label>
    <input id="dob" runat="server" type="text" placeholder="YYYY-MM-DD" />
</div>
<div class="input-fild-data">
    <label>Gender</label>
    <div class="hoby-items">
        <p>
            <input id="male" runat="server" type="radio" name="gender"
value="Male" checked /><span>Male</span>
        </p>
        <p>
            <input id="female" runat="server" type="radio" name="gender"
value="Female" /><span>Female</span>
        </p>
    </div>
</div>
<div class="hoby-main input-fild-data">
    <label>Hobby</label>
    <div class="hoby-items">
        <p>
            <input id="hobby1" runat="server" type="checkbox" value="New
Computer Technology" /><span>Knowing
about new Computer technology</span>
        </p>
        <p>
            <input id="hobby2" runat="server" type="checkbox"
value="Development" /><span>Development</span>
        </p>
        <p>
            <input id="hobby3" runat="server" type="checkbox" value="Getting new
Things from Books" /><span>Getting
new Things from
Books</span>
        </p>
    </div>
</div>
<div class="input-fild-data">
    <label>E-Mail</label>
    <input id="email" runat="server" type="text" />
</div>
<div class="input-fild-data">
    <label>Password</label>
    <input id="password" runat="server" type="password" />
</div>
<div>
    <asp:Button runat="server" Text="Add" onclick="AddData" class="btn btn-
submit" />
    <asp:Button runat="server" Text="Show" onclick="ShowData" class="btn

```

```

btn-submit" />
        <asp:Button runat="server" Text="Update" onclick="UpdateData" class="btn
btn-submit" />
        <asp:Button runat="server" Text="Delete" onclick="DeleteData" class="btn
btn-submit" />
        <input type="reset" value="Reset" class="btn btn-reset" />
    </div>
</div>
</form>
<div id="resultDiv" runat="server"></div>
<div id="DataList" runat="server"></div>
</main>
</body>
</html>

```

Home.aspx.cs

```

using System.Data.Sql;
using System.Data.SqlClient;

public partial class Home : Page {

    Dictionary<String, String> fild;
    String[] fildSelf = { "rollnumber", "sem", "firstname", "lastname",
"phonenumber", "dob", "gender", "hobby", "email", "password" };

    String connStr = @"Data
Source=.\SQLEXPRESS;AttachDbFilename=path\21_DatabaseOperation\App_Data\DevDb.mdf;
Integrated Security=True;User Instance=True";

    protected void getForm(object sender, EventArgs e) {
        if (IsPostBack) {
            // Retrieve form data using Request.Form
            fild = new Dictionary<String, String>{
                {"rollnumber", Request.Form["rollnumber"]},
                {"sem", Request.Form["sem"]},
                {"firstname", Request.Form["firstname"]},
                {"lastname", Request.Form["lastname"]},
                {"phonenumber", Request.Form["phonenumber"]},
                {"dob", Request.Form["dob"]},
                {"gender", Request.Form["gender"]},
                {"hobby", ""},
                {"email", Request.Form["email"]},
                {"password", Request.Form["password"]}
            };

            DateTime birthDateForm;
            if (DateTime.TryParse(fild["dob"], out birthDateForm)) {
                fild["dob"] = birthDateForm.ToString("yyyy-MM-dd");
            }

            // Retrieve hobbies (checkbox values)

```

```

        var hobbies = new System.Text.StringBuilder();
        if (Request.Form["hobby1"] != null)
hobbies.Append(Request.Form["hobby1"] + ", ");
        if (Request.Form["hobby2"] != null)
hobbies.Append(Request.Form["hobby2"] + ", ");
        if (Request.Form["hobby3"] != null)
hobbies.Append(Request.Form["hobby3"] + ", ");
        if (hobbies.Length > 0) hobbies.Length -= 2;
        fild["hobby"] = hobbies.ToString();
    }
}

protected void AddData(object sender, EventArgs e) {
    this.getForm(sender, e);
    using (SqlConnection conn = new SqlConnection(connStr)) {
        String query = "INSERT INTO studentinfo Values (@rollnumber, @sem,
@firstname, @lastname, @phonenumber, @dob, @gender, @hobby, @email, @password)";
        using (SqlCommand cmd = new SqlCommand(query, conn)) {
            foreach(String afiled in fildSelf) {
                cmd.Parameters.AddWithValue(afiled, fild[afiled]);
            }
            String resultHtml = "";
            conn.Open();
            try {
                cmd.ExecuteNonQuery();
                resultHtml = "<script>alert('Data is Added to database')
</script>";
            }
            catch (Exception ex) {
                resultHtml = "<script>alert('Problem in adding data')
</script>";
            }
            conn.Close();
            resultDiv.InnerHtml = resultHtml;
        }
    }
}

protected void UpdateData(object sender, EventArgs e) {
    this.getForm(sender, e);
    using (SqlConnection conn = new SqlConnection(connStr)) {
        String query = "UPDATE studentinfo SET sem=@sem, firstname=@firstname,
lastname=@lastname, phonenumber=@phonenumber, dob=@dob, gender=@gender,
hobby=@hobby, email=@email, password=@password WHERE rollnumber=@rollnumber";
        using (SqlCommand cmd = new SqlCommand(query, conn)) {
            foreach(String afiled in fildSelf) {
                cmd.Parameters.AddWithValue(afiled, fild[afiled]);
            }
            conn.Open();
            cmd.ExecuteNonQuery();
            conn.Close();

            String resultHtml = "<script>alert('Data is Updated')</script>";
            resultDiv.InnerHtml = resultHtml;
        }
    }
}

```

```
}  
}  
}  
}
```

Welcome Form for Developers

localhost:49672/21_Database 80%

Welcome to Development web site

Roll Number
22

Semester
SEM 5

First Name
Subham

Last Name
Dave

Phone No.
5555555555

Birth Date
1998-2-18

Gender
☒ Male
☐ Female

Hobby
☒ Knowing about new Computer technology
☒ Development
☐ Getting new Things from Books

E-Mail
subhamdave@gamil.com

Password

Add Show Update Delete Reset

22. Search and Delete query - Database

Using same **Home.aspx** of 21 program

Home.aspx.cs


```

using System.Data.Sql;
using System.Data.SqlClient;

public partial class Home : Page {
    Dictionary<String, String> fild;
    String[] fildSelf = { "rollnumber", "sem", "firstname", "lastname",
        "phonenumner", "dob", "gender", "hobby", "email", "password" };

    String connStr = @"Data
Source=.\SQLEXPRESS;AttachDbFilename=path\21_DatabaseOperation\App_Data\DevDb.mdf;
Integrated Security=True;User Instance=True";

    protected void ShowData(object sender, EventArgs e) {
        using (SqlConnection conn = new SqlConnection(connStr)) {
            String query = "SELECT * FROM studentinfo WHERE
rollnumber=@rollnumber;";
            using (SqlCommand cmd = new SqlCommand(query, conn)) {
                cmd.Parameters.AddWithValue("rollnumber",
Request.Form["rollnumber"]);

                conn.Open();
                SqlDataReader dr = cmd.ExecuteReader();

                if (dr.Read()) {
                    rollnumber.Value = dr["rollnumber"].ToString();
                    firstname.Value = dr["firstname"].ToString();
                    lastname.Value = dr["lastname"].ToString();
                    phonenumner.Value = dr["phonenumner"].ToString();
                    dob.Value = dr["dob"].ToString();
                    email.Value = dr["email"].ToString();
                    password.Value = dr["password"].ToString();
                }
                else {
                    String resultHtml = "<script>alert('This data in not
available')</script>";
                    resultDiv.InnerHtml = resultHtml;
                }
                conn.Close();
            }
        }
    }

    protected void DeleteData(object sender, EventArgs e) {
        using (SqlConnection conn = new SqlConnection(connStr)) {
            String query = "DELETE FROM studentinfo WHERE
rollnumber=@rollnumber;";
            using (SqlCommand cmd = new SqlCommand(query, conn)) {
                cmd.Parameters.AddWithValue("rollnumber",
Request.Form["rollnumber"]);

                conn.Open();
                cmd.ExecuteNonQuery();
                conn.Close();
            }
        }
    }
}

```

```

        String resultHtml = "<script>alert('Data is Deleted')</script>";
        resultDiv.InnerHtml = resultHtml;
    }
}
}

```

Welcome Form for Developers

localhost:49672/21_Database 80%

Welcome to Development web site

Roll Number
8

Semester
SEM 1

First Name
Janak

Last Name
Jat

Phone No.
1111111111

Birth Date
6/20/1999 12:00:00 AM

Gender
☒ Male
☐ Female

Hobby
☐ Knowing about new Computer technology
☐ Development
☐ Getting new Things from Books

E-Mail
janak@gamil.com

Password

Add Show Update Delete Reset

23. Reander Data from database.

Home.aspx

```

<html>
<head>
  <title>Welcome Form for Developers</title>
  <link rel="stylesheet" href="style.css" />
</head>
<body class="oswald">
  <h1>Welcome to Development web site</h1>
  <div id="DataList" runat="server"></div>
</body>
</html>

```

Home.aspx.cs

```

using System.Data.Sql;
using System.Data.SqlClient;

public partial class Home : Page {
    String[] fildSelf = { "rollnumber", "sem", "firstname", "lastname",
"phonenummer", "dob", "gender", "hobby", "email", "password" };
    String connStr = @"Data
Source=.\SQLEXPRESS;AttachDbFilename=path\21_DatabaseOperation\App_Data\DevDb.mdf;
Integrated Security=True;User Instance=True";

    protected void Page_Load(object sender, EventArgs e) {
        using (SqlConnection conn = new SqlConnection(connStr)) {
            String query = "SELECT * FROM studentinfo;";
            using (SqlCommand cmd = new SqlCommand(query, conn)) {
                conn.Open();
                SqlDataReader dr = cmd.ExecuteReader();
                String resultHtml = "<table> <tr><th>Roll Number</th>
<th>Semester</th><th>Frist Name</th><th>Last Name</th><th>Phone No.</th>
<th>BirthDate</th><th>Gender</th><th>Hobby</th><th>Email</th><th>Password</th>
</tr>";

                while (dr.Read()) {
                    resultHtml += "<tr>";
                    foreach (String afile in fildSelf) {
                        resultHtml += "<td>" + dr[afile] + "</td>";
                    }
                    resultHtml += "</tr>";
                }
                resultHtml += "</table>";
                DataList.InnerHtml = resultHtml;
                conn.Close();
            }
        }
    }
}

```

Welcome Form for Developers

localhost:49672/21_DatabaseOperation/Home.aspx

Welcome to Development web site

Roll Number	Semester	Frist Name	Last Name	Phone No.	BirthDate	Gender	Hobby	Email	Password
8	Sem-5	Janak	Jat	1111111111	6/20/1999 12:00:00 AM	Male	New Computer Technology, Development	janak@gamil.com	india@helloto
22	Sem-5	Subham	Dave	5555555555	2/18/1998 12:00:00 AM	Male	New Computer Technology, Development	subhamdave@gamil.com	alksljk@#\$qwou
29	Sem-5	Kishan	Jat	2222222222	7/20/1999 12:00:00 AM	Male	New Computer Technology, Development, Getting new Things from Books	kishan@gamil.com	~6.)i=-5zS-VK@v
70	Sem-5	Krunal	Suthar	3333333333	11/6/1999 12:00:00 AM	Male	New Computer Technology	krunal@gamil.com	hi@#\$\$lksjw2#
71	Sem-5	Dasharath	Suthar	4444444444	3/4/2002 12:00:00 AM	Male	Development	dasharath@gamil.com	not++password

24. DataSet methods and use

Index.aspx

```
<html>
<head>
    <title>DataSet methods and use</title>
    <link rel="stylesheet" href="style.css" />
</head>
<body>
    <main>
        <h1>User at Development</h1>
        <form runat="server">
            <asp:GridView ID="DataList" runat="server" />
        </form>
    </main>
</body>
</html>
```

Index.aspx.cs

```
using System.Data;
using System.Configuration;

public partial class Index : System.Web.UI.Page {
    protected void Page_Load(object sender, EventArgs e) {
        DataSet ds = CreateDataSet();
        DataList.DataSource = ds.Tables["User"];
        DataList.DataBind();
    }

    private DataSet CreateDataSet() {
        DataSet ds = new DataSet();
        DataTable User = CreateUserTable();
        ds.Tables.Add(User);
        return ds;
    }
}
```

```

    }

    private DataTable CreateUserTable() {
        DataTable User = new DataTable("User");
        Type dataType = Type.GetType("System.String");
        User.Columns.Add("ID", dataType);
        User.Columns.Add("Name", dataType);
        User.Columns.Add("Address", dataType);
        User.Columns.Add("Phone", dataType);

        AddNewUser(User, "USER23", "Jat Kishan", "Sherpura", "1111111111");
        AddNewUser(User, "USER08", "Jat Janak", "Yaverpura", "2222222222");
        AddNewUser(User, "USER35", "Suthar Krunal", "Sherpura", "3333333333");
        AddNewUser(User, "USER34", "Suthar Dasharath", "Yaverpura", "4444444444");
        AddNewUser(User, "USER66", "Dave Subham", "Deesa", "5555555555");
        return User;
    }

    private void AddNewUser(DataTable table, String id, String name, String
address, String phone) {
        DataRow newUser = table.NewRow();
        newUser["ID"] = id;
        newUser["Name"] = name;
        newUser["Address"] = address;
        newUser["Phone"] = phone;
        table.Rows.Add(newUser);
    }
}

```

DataSet Object methods

localhost:49811/24_dataset_object_methods/Index.aspx

User at Development

ID	Name	Address	Phone
USER23	Jat Kishan	Sherpura	1111111111
USER08	Jat Janak	Yaverpura	2222222222
USER35	Suthar Krunal	Sherpura	3333333333
USER34	Suthar Dasharath	Yaverpura	4444444444
USER66	Dave Subham	Deesa	5555555555