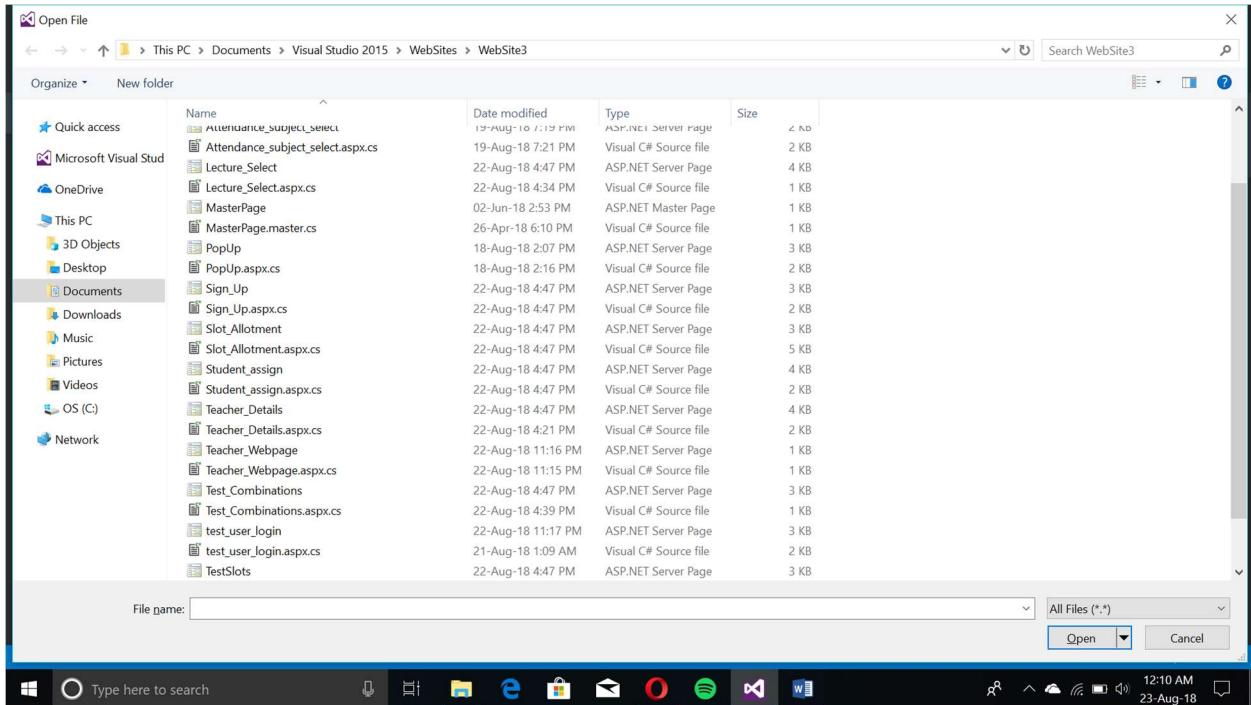


## Criterion C: Development

Website3.sln is an ASP.NET and Visual C# based web application for IB Coordinator Ms. Hema Rajan and teachers; Administrator (Coordinator) can add students, teachers, configure and/or add slots (different subject lectures happening simultaneously) and lastly can check the overall report of class attendance. Teachers mark the lecture-wise attendance of students with their slot-IDs.



This file should be in the folder where the entire website's contents are present.



Computational Thinking based programming statements and techniques:

- For Loops
- While Loops
- Conditional Statements (if/else if/else)
- Database Views
- Dynamic Tables
- Collections
- Try-catch

- Joins
- Sub-Queries
- Auto-increment

### Program Structure

I have used Microsoft Visual Studio 2015 for creating front-end elements like Labels, buttons, panels, textboxes, etc. As seen in the below structure of the program.

Commonalities throughout the application:

- Navigation provided by buttons redirecting back to the main page.
- Confirmation of successful input to the back-end tables in the database.
- Submit button submits queries to the tables in the database
- Declaration of variables with string/integer/etc. as appropriate.

---

Username:

Password:

If you would like to sign up:

The login is the first page. The sign-in page uses existing user login details for the admin and the teachers. New teachers can sign up via the “Sign\_Up” button. The “Submit” button will submit the

“Username” and “Password” entered in.

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="test_user_login.aspx.cs" Inherits="_Default" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
  <head runat="server">
    <title></title>
    <style type="text/css">
      .auto-style1 {
        position: absolute;
        top: 21px;
        left: 24px;
        z-index: 1;
      }
      .auto-style2 {
        position: absolute;
        top: 18px;
        left: 138px;
        z-index: 1;
      }
      .auto-style3 {
        position: absolute;
        top: 54px;
        left: 30px;
        z-index: 1;
      }
      .auto-style4 {
        position: absolute;
        top: 56px;
        left: 137px;
        z-index: 1;
      }
    </style>
  </head>
  <body>
    <form id="form1" runat="server">
      <div>
        <asp:Label ID="Label1" runat="server" CssClass="auto-style1" Text="Username:></asp:Label>
        </div>
        <asp:TextBox ID="TextBox1" runat="server" CssClass="auto-style2"></asp:TextBox>
        <asp:Label ID="Label2" runat="server" CssClass="auto-style3" Text="Password:></asp:Label>
        <asp:TextBox ID="TextBox2" runat="server" CssClass="auto-style4"></asp:TextBox>
        <asp:Label ID="Label3" runat="server" CssClass="auto-style7" Text="Label" Visible="False"></asp:Label>
        <br />
        <br />
        <br />
        <br />
        If you would like to sign up:
        <asp:Button ID="Button1" runat="server" CssClass="auto-style5" OnClick="Button1_Click1" Text="Submit" />
        <asp:Button ID="Button2" runat="server" CssClass="auto-style6" OnClick="Button2_Click1" Text="Sign Up" />
      </form>
    </body>
  </html>
```

If the user is the admin and logs in with their respective details, the admin main page is loaded, for any other user it's the teacher's main page. To check the login:

```
2 references
public partial class _Default : System.Web.UI.Page
{
    0 references
    protected void Page_Load(object sender, EventArgs e)
    {
        if (!IsPostBack)
        {
            // Validate initially to force asterisks
            // to appear before the first roundtrip.
            Validate();
        }
    }

    0 references
    protected void Button1_Click1(object sender, EventArgs e)
    {
        String un, psd;
        un = TextBox1.Text;
        psd = TextBox2.Text;
        SqlConnection sconn = new SqlConnection("Data Source=ELLIVEN;Initial Catalog=Attendance_System;Integrated Security=True;");
        sconn.Open();
        SqlCommand com = new SqlCommand("SELECT password FROM Attendance_System.dbo.user_login WHERE username = '" + un + "'");
        com.Connection = sconn;
        SqlDataReader rd = com.ExecuteReader();
```

```
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
```

```
        }

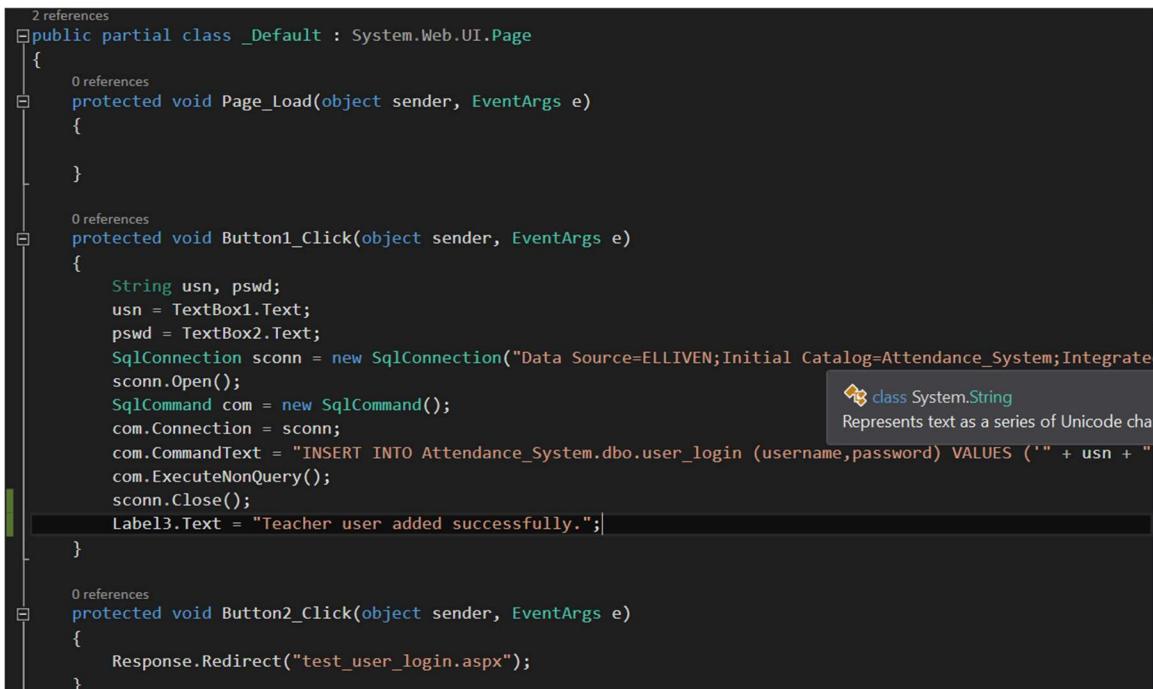
        else if (psd.Equals(str))
        {
            Response.Redirect("Teacher_Webpage.aspx");
            Session["Username"] = un;
            Session["Password"] = psd;
        }
        else
        {
            Label3.Text = "Login Unsuccessful, incorrect details entered";
        }
    }

    0 references
    protected void Button2_Click1(object sender, EventArgs e)
    {
        Response.Redirect("Sign_Up.aspx");
    }
}
```

The conditional “if (!IsPostBack)” gives a Boolean value whether the page is rendered for the first time or from posting back.

Upon clicking submit, an SQL query is sent to a user\_login table in the Attendance\_System database connected with the program via a connection string. It will check for the username and password upon entry and verify. If it's the admin, it will redirect to Admin Webpage, if any other user, the teacher webpage. If none, a label appears saying login was unsuccessful.

### Sign\_Up Page



```
2 references
public partial class _Default : System.Web.UI.Page
{
    0 references
    protected void Page_Load(object sender, EventArgs e)
    {
    }

    0 references
    protected void Button1_Click(object sender, EventArgs e)
    {
        String usn, pswd;
        usn = TextBox1.Text;
        pswd = TextBox2.Text;
        SqlConnection sconn = new SqlConnection("Data Source=ELLIVEN;Initial Catalog=Attendance_System;Integrated Security=True");
        sconn.Open();
        SqlCommand com = new SqlCommand();
        com.Connection = sconn;
        com.CommandText = "INSERT INTO Attendance_System.dbo.user_login (username,password) VALUES ('" + usn + "' ,'" + pswd + "')";
        com.ExecuteNonQuery();
        sconn.Close();
        Label3.Text = "Teacher user added successfully.";
    }

    0 references
    protected void Button2_Click(object sender, EventArgs e)
    {
        Response.Redirect("test_user_login.aspx");
    }
}
```

Subject Combinations form: [Click here](#)

Teacher Details form: [Click here](#)

Slot ID form: [Click here](#)

Student Table: [Click Here](#)

Absentee Report : [Click Here](#)

Teacher Table : [Click here](#)

The page enters the username and password of the teacher into the system. Upon completion, the label changes to successful entry. The second button (Login) redirects back to the login page.

### Administrator Webpage

```
WebSite3 _Default
10
11     0 references
12     protected void Page_Load(object sender, EventArgs e)
13     {
14         Label3.Text = Convert.ToString(Session["Username"]);
15     }
16
17     0 references
18     protected void Button1_Click(object sender, EventArgs e)
19     {
20         Response.Redirect("Student_assign.aspx");
21     }
22
23     0 references
24     protected void Button2_Click(object sender, EventArgs e)
25     {
26         Response.Redirect("Test_Combinations.aspx");
27     }
28
29     0 references
30     protected void Button3_Click(object sender, EventArgs e)
31     {
32         Response.Redirect("Teacher_Details.aspx");
33     }
34
35     0 references
36     protected void Button4_Click(object sender, EventArgs e)
37     {
38
39         Response.Redirect("PopUp.aspx");
40     }
```

This webpage acts as the homepage for admin. All features described by the Success Criteria are available to the admin. The Label after "Welcome" is coded to display the username. Clicking any of the buttons would redirect to that respective webpage. All pages have a button that redirects to this page.

```
0 references
protected void Button4_Click1(object sender, EventArgs e)
{
    Response.Redirect("Student_Table_View.aspx");
}

0 references
protected void Button5_Click(object sender, EventArgs e)
{
    Response.Redirect("Report_Date_Selector.aspx");
}

0 references
protected void Button6_Click(object sender, EventArgs e)
{
    Response.Redirect("Teacher_Table_View.aspx");
}

0 references
protected void Button7_Click(object sender, EventArgs e)
{
    Response.Redirect("test_user_login.aspx");
}
```

## Student Form

The student details form adds a student into the database for attendance purposes. Using an INSERT SQL query, the data is added to the table. Simultaneously, it is inserted as a roll number row for another table used for configuring students and their subjects in a slot. A dropdown list differentiates in-house from new students in their current documentation.

```
0 references
protected void Button1_Click(object sender, EventArgs e)
{
    String studentfirstname, fees, studentlastname;
    int rollno;
    rollno = Convert.ToInt32(textBox1.Text);
    studentfirstname = TextBox2.Text;
    studentlastname = TextBox3.Text;
    fees = DropDownList1.Text;
    SqlConnection sconn = new SqlConnection("Data Source=ELLIVEN;Initial Catalog=Attendance_System;Integrated Security=True;");
    sconn.Open();
    SqlCommand com = new SqlCommand();
    SqlCommand com2 = new SqlCommand();
    com.CommandText = "INSERT INTO students (Roll_Number,Fees,First_Name,Last_Name) VALUES ('" + rollno + "','" + fees + "','" + studentfirstname + "','" + studentlastname + "')";
    com2.CommandText = "INSERT INTO Slot_Allotments (Roll_No) VALUES ('" + rollno + "')";
    com2.Connection = sconn;
    com.Connection = sconn;
    com.ExecuteNonQuery();
    com2.ExecuteNonQuery();
    sconn.Close();
    Label1.Text = "Student added successfully.";
}

0 references
protected void DropDownList1_SelectedIndexChanged(object sender, EventArgs e)
{

}

0 references
protected void Button3_Click(object sender, EventArgs e)
{
    Response.Redirect("Admin_Webpage.aspx");
}
```

Roll Number	<input type="text"/>
First Name	<input type="text"/>
Last Name	<input type="text"/>
Fees (type)	<input type="text"/> <input type="button" value="▼"/>

Label

Submit

If you wish to go back to the main page: [Main Page](#)

Teacher First Name	<input type="text"/>
Last Name	<input type="text"/>
Teacher ID	<input type="text"/>
Interest	<input type="text"/>
	<input type="button" value="Submit"/> <input type="button" value="Reset"/>
Label	
To go back to the main page	<input type="button" value="Main Page"/>

```

using System.Web.UI.WebControls;
using System.Data.SqlClient;

public partial class _Default : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
    }

    protected void Button1_Click(object sender, EventArgs e)
    {
        String TF_Name, TL_Name, Interest, ID;
        TF_Name = TextBox1.Text;
        Interest = TextBox4.Text;
        TL_Name = TextBox2.Text;
        ID = TextBox3.Text;
        SqlConnection sconn = new SqlConnection("Data Source=ELLIVEN;Initial Catalog=Attendance_System;Integrated Security=True;");
        sconn.Open();
        SqlCommand com = new SqlCommand();
        com.CommandText = "INSERT INTO teacher_details(ID,First_Name,Last_Name,Interest) VALUES ('" + ID + "' , '" + TF_Name + "' , '" + TL_Name + "' , '" + Interest + "')";
        com.Connection = sconn;
        com.ExecuteNonQuery();
        sconn.Close();
        Label3.Text = "Details updated successfully";
    }

    protected void Button3_Click(object sender, EventArgs e)
    {
        Response.Redirect("Admin_Webpage.aspx");
    }
}

```

The admin adds a new teacher to the database with their subject. A “Teacher ID” allows unique identification and creates relations.

Slot-ID form

Enter the no subjects in the slot [Label2]

OK

If you wish to go back to  
the main page:

[Click Here](#)

```
g System.Data.SqlClient;

references
ic partial class _Default : System.Web.UI.Page

0 references
protected void Page_Load(object sender, EventArgs e)
{
    SqlConnection con2 = new SqlConnection("Data Source=ELLIVEN;Initial Catalog=Attendance_System;Integrated Security=True;");

    con2.Open();
    SqlCommand cmd = new SqlCommand();
    cmd.CommandText = "SELECT COUNT(Slot_ID) FROM slot_det";
    cmd.Connection = con2;
    SqlDataReader rd = cmd.ExecuteReader();
    rd.Read();
    Label2.Text = "St"+Convert.ToString(Convert.ToInt32(rd[0])+1);

}

0 references
protected void btnReverse_Click(object sender, EventArgs e)
{
    Session["slot_sub_count"] = txtReverse.Text;
    SqlConnection con2 = new SqlConnection("Data Source=ELLIVEN;Initial Catalog=Attendance_System;Integrated Security=True;");
    int noofsub = Convert.ToInt32(txtReverse.Text);
```

```

0 references
protected void btnReverse_Click(object sender, EventArgs e)
{
    Session["slot_sub_count"] = txtReverse.Text;
    SqlConnection con2 = new SqlConnection("Data Source=ELLIVEN;Initial Catalog=Attendance_System;Integrated Security=True;");
    int noofsub = Convert.ToInt32(txtReverse.Text);
    con2.Open();
    SqlCommand cmd = new SqlCommand();
    SqlCommand cmd2 = new SqlCommand();
    cmd.CommandText = "INSERT INTO slot_det (Slot_ID, No_of_Sub) VALUES ('" + Label2.Text + "', " + noofsub + ")";
    cmd.Connection = con2;
    cmd.ExecuteNonQuery();
    cmd.CommandText = "CREATE TABLE " + Label2.Text + "_sub (Subject varchar(50),Level varchar(50), Teacher_Id varchar(10))";
    cmd2.CommandText = "ALTER TABLE Attendance_System.dbo.Slot_Allotments ADD " + Label2.Text + "_sub VARCHAR(50)";
    Session["Curr_Slt_Table"] = Label2.Text.ToLower() + "_sub";
    cmd.ExecuteNonQuery();
    cmd2.Connection = con2;
    cmd2.ExecuteNonQuery();
    Response.Redirect("TestSlots.aspx");
}

0 references
protected void Button1_Click(object sender, EventArgs e)
{
    Response.Redirect("Admin_Webpage.aspx");
}

```

This page creates new slots. The admin specifies how many subjects and the “[Label]” displays the Slot-ID and name of the new table. It is made the same as “Stx\_sub” where “x” is the number of that slot. It is auto-incremental. INSERT, SELECT COUNT, CREATE TABLE and ALTER TABLE queries make a new slot table and design it according to the admin’s slot specifications. A Slot Details table is made which has the Slot ID and number of subjects. Upon submission, it redirects to the Test\_Slots.aspx page.

#### Main Slot Creation Form

WebSite3      TestSlots      Button3\_Click(object sender, EventArgs e)

10      2 references

Subject No 1	<input type="text" value="English Literature"/>	Subject Level	<input type="text" value="SL"/>	Teacher Id	<input type="text" value="T1"/>
Subject No 2	<input type="text" value="French"/>	Subject Level	<input type="text" value="SL"/>	Teacher Id	<input type="text" value="T7"/>
Subject No 3	<input type="text" value="Spanish"/>	Subject Level	<input type="text" value="SL"/>	Teacher Id	<input type="text" value="T8"/>

If you wish to add a teacher to the teacher table click the "Teacher Table" button.

ID	First_Name	Last_Name	Interests
T1	Garima	Gupta	English
T2	Ankana	Maitra	English
T3	Jigar	Shah	Computer Science
T4	Farida	Virani	Business Management
T5	Ninad	Mungekar	Mathematics
T6	Khushbu	Thaker	Economics
T7	Meenakshi	Mani	French
T8	Sachin	Jain	Spanish
T9	Shuaat	Ali	History

```

40 }
41     table1.Append("</tr>");
42     Panel3.Controls.Add(new Literal { Text = table1.ToString() });
43     rd.Close();
44 }
45
46 rowCount = Convert.ToInt32(Session["slot_sub_count"]);
47 Table table = new Table();
48 table.ID = "SlotTable";
49
50 TableRow tr;
51 for (int i = 0; i < rowCount; i++)
52 {
53     tr = new TableRow();
54     TableCell tc1, tc2, tc3, tc4, tc7, tc8;
55     Label Sub_Lvl, Sub, Tea_Nm, Tea_Id;
56     TextBox Txt_Sub_Lvl, Txt_Sub, Txt_Tea_Id;
57     Tea_Id = new Label();
58     Tea_Nm = new Label();
59     Sub = new Label();
60     Sub_Lvl = new Label();
61     Tea_Id.Text = "Teacher Id";
62     Sub_Lvl.Text = "Subject Level";
63     Sub.Text = "Subject No " + Convert.ToString(i + 1);
64     Txt_Sub = new TextBox();
65     Txt_Sub_Lvl = new TextBox();
66     Txt_Sub_Lvl.Width = 30;
67     Txt_Tea_Id = new TextBox();
68     Txt_Tea_Id.Width = 40;
69
70     Txt_Sub.ID = "Txt_Sub_" + Convert.ToString(i + 1);
71     Txt_Sub_Lvl.ID = "Txt_Sub_Lvl_" + Convert.ToString(i + 1);
72     Txt_Tea_Id.ID = "Txt_Tea_Id_" + Convert.ToString(i + 1);
73     tc1 = new TableCell();
74
75     tc2 = new TableCell();
76     tc3 = new TableCell();
77     tc4 = new TableCell();
78     tc7 = new TableCell();
79     tc8 = new TableCell();
80     tc1.Controls.Add(Sub);
81     tc2.Controls.Add(Txt_Sub);
82     tc3.Controls.Add(Sub_Lvl);
83     tc4.Controls.Add(Txt_Sub_Lvl);
84     tc7.Controls.Add(Tea_Id);
85     tc8.Controls.Add(Txt_Tea_Id);
86     tr.Cells.Add(tc1);
87     tr.Cells.Add(tc2);
88     tr.Cells.Add(tc3);
89     tr.Cells.Add(tc4);
90     tr.Cells.Add(tc7);
91     tr.Cells.Add(tc8);
92     table.Rows.Add(tr);
93 }
94 Panel2.Controls.Add(table);
95 }
96
97 0 references
98 protected void Button1_Click(object sender, EventArgs e)
99 {
100     SqlConnection sconn = new SqlConnection("Data Source=ELLIVEN;Initial Catalog=Attendance_System;Integrated Security=True;");
101     sconn.Open();
102     SqlCommand com = new SqlCommand();
103     com.Connection = sconn;
104
105     for (int j = 0; j < rowCount; j++)
106     {
107         TextBox Txt_Sub = (TextBox)FindControl("Txt_Sub_" + Convert.ToString(j + 1));
108         string Subject = Txt_Sub.Text;
109         TextBox Txt_Sub_Lvl = (TextBox)FindControl("Txt_Sub_Lvl_" + Convert.ToString(j + 1));
110         string SubjectLevel = Txt_Sub_Lvl.Text;
111         TextBox Txt_Tea_Id = (TextBox)FindControl("Txt_Tea_Id " + Convert.ToString(i + 1));

```

```

99
100    {
101        SqlConnection sconn = new SqlConnection("Data Source=ELLIVEN;Initial Catalog=Attendance_System;Integrated Security=True;");
102        sconn.Open();
103        SqlCommand com = new SqlCommand();
104        com.Connection = sconn;
105
106        for (int j = 0; j < rowcount; j++)
107        {
108            TextBox Txt_Sub = (TextBox)FindControl("Txt_Sub_" + Convert.ToString(j + 1));
109            string Subject = Txt_Sub.Text;
110            TextBox Txt_Sub_Lvl = (TextBox)FindControl("Txt_Sub_Lvl_" + Convert.ToString(j + 1));
111            string SubjectLevel = Txt_Sub_Lvl.Text;
112            TextBox Txt_Tea_Id = (TextBox)FindControl("Txt_Tea_Id_" + Convert.ToString(j + 1));
113            string TeacherID = Txt_Tea_Id.Text;
114            string Slt_Table = Convert.ToString(Session["Curr_Slt_Table"]);
115            com.CommandText = "INSERT INTO " + Slt_Table + "(Subject, Level, Teacher_Id) VALUES ('" + Subject + "','" + SubjectLevel + "', '" + TeacherID + "')";
116            com.ExecuteNonQuery();
117        }
118        sconn.Close();
119    }
120
121
122    0 references
123    protected void Button3_Click(object sender, EventArgs e)
124    {
125        Response.Redirect("Teacher_Details.aspx");
126    }
127
128    0 references
129    protected void Button2_Click(object sender, EventArgs e)
130    {
131        Response.Redirect("Admin_Webpage.aspx");
132    }

```

Here, subjects, their level and the teacher ID are added to the created and designed slot. Using a for-loop and a string-builder, a dynamic table is created showing teacher's information to see their IDs. An INSERT query is performed with a for-loop on the table and hence multiple data entries are added.

#### Subject-Slot Combinations Selector

```

19
20
21
22    0 references
23    protected void DropDownList1_SelectedIndexChanged(object sender, EventArgs e)
24    {
25    }
26
27    0 references
28    protected void Button1_Click(object sender, EventArgs e)
29    {
30        Session["Slot_Selected"] = DropDownList1.Text;
31        Response.Redirect("Slot_Allotment.aspx");
32    }
33
34    0 references
35    protected void Button2_Click(object sender, EventArgs e)
36    {
37        Response.Redirect("Admin_Webpage.aspx");
38    }

```

Select the required Slot	Databound	Submit
--------------------------	-----------	--------

To go back to the main page, click the button: [Main Page](#)

In “Select Required Slots”, the “Sql Datasource 1” is written, this shows the dropdown list’s source seen by “Databound”. This means that the list is bound to data from the databases to provide indexes, the names of the slot tables. After selection, the data passes through Session data. The slot selection for configuration happens here.

Roll No First Name Last Name

1	Neville	Albuquerque	<input checked="" type="radio"/> Business Management	<input type="radio"/> Mathematics
2	Siddharth	Thakkar	<input type="radio"/> Business Management	<input checked="" type="radio"/> Mathematics
3	Arnav	Singh	<input checked="" type="radio"/> Business Management	<input type="radio"/> Mathematics
4	Dhruvi	Sapani	<input checked="" type="radio"/> Business Management	<input type="radio"/> Mathematics
5	Aneesha	Nadkarni	<input type="radio"/> Business Management	<input checked="" type="radio"/> Mathematics
6	Rahil	Parikh	<input checked="" type="radio"/> Business Management	<input type="radio"/> Mathematics
7	Jahnavi	Varma	<input checked="" type="radio"/> Business Management	<input type="radio"/> Mathematics
8	Anish	Sheikh	<input checked="" type="radio"/> Business Management	<input type="radio"/> Mathematics
9	Sambodhi	Dhaware	<input checked="" type="radio"/> Business Management	<input type="radio"/> Mathematics
10	Param	Tahilramani	<input checked="" type="radio"/> Business Management	<input type="radio"/> Mathematics
11	Kunth	Shah	<input checked="" type="radio"/> Business Management	<input type="radio"/> Mathematics
12	Anirbit	Ghosh	<input type="radio"/> Business Management	<input checked="" type="radio"/> Mathematics
13	Vidhi	Vasandani	<input checked="" type="radio"/> Business Management	<input type="radio"/> Mathematics
14	Pranav	Patel	<input type="radio"/> Business Management	<input checked="" type="radio"/> Mathematics
15	Maanhar	Singh	<input checked="" type="radio"/> Business Management	<input type="radio"/> Mathematics
16	Arvind	Rao	<input type="radio"/> Business Management	<input checked="" type="radio"/> Mathematics

## Slot Configuration Page

```
9  public partial class _Default : System.Web.UI.Page
10 {
11     RadioButtonList[] rdl = new RadioButtonList[100];
12     int TotalStudents = 0;
13     int i = 0;
14     String[] Subjects = new String[8];
15     SqlConnection con = new SqlConnection("Data Source=ELLIVEN;Initial Catalog=Attendance_System;Integrated Security=True;MultipleActiveResultSets=True");
16     protected void Page_Load(object sender, EventArgs e)
17     {
18         con.Open();
19         SqlCommand cmd = new SqlCommand();
20         cmd.CommandText = "Select * from students";
21         cmd.Connection = con;
22         SqlDataReader rd = cmd.ExecuteReader();
23         string slot_name = Convert.ToString(Session["Slot_Selected"]);
24
25         Table selection_table = new Table();
26
27         SqlCommand cmd2 = new SqlCommand();
28         cmd2.CommandText = "Select * from " + slot_name.ToLower() + "_sub";
29         cmd2.Connection = con;
30         SqlDataReader rd2 = cmd2.ExecuteReader();
31         if (rd.HasRows)
32         {
33             TableRow tr = new TableRow();
34             TableCell tc1 = new TableCell();
35             Label rn1 = new Label();
36             rn1.Text = "Roll No";
37             tc1.Controls.Add(rn1);
38             tr.Cells.Add(tc1);
39             TableCell tc2 = new TableCell();
40             Label rn2 = new Label();
41             rn2.Text = "First Name";
42             tc2.Controls.Add(rn2);
43             tr.Cells.Add(tc2);
44             TableCell tc3 = new TableCell();
45             Label rn3 = new Label();
46             rn3.Text = "Last Name";
47             tc3.Controls.Add(rn3);
48             tr.Cells.Add(tc3);
49
50             while (rd2.Read())
51             {
52                 TableCell tc = new TableCell();
53                 Label rn = new Label();
54                 rn.Text = Convert.ToString(rd2[0]);
55                 tc.Controls.Add(rn);
56                 i++;
57             }
58         }
59     }
60 }
```

```
WEBRESOURCES  
50  
51  
52  
53  
54  
55  
56  
57             Subjects[i] = Convert.ToString(rd2[0]);  
58         }  
59         selection_table.Rows.Add(tr);  
60  
61  
62         while (rd.Read())  
63     {  
64         TotalStudents++;  
65         TableRow tr1 = new TableRow();  
66         TableCell tc = new TableCell();  
67         Label rno = new Label();  
68         rno.Text = Convert.ToString(rd[0]);  
69         tc.Controls.Add(rno);  
70         tr1.Cells.Add(tc);  
71         TableCell tcfn= new TableCell();  
72         Label fn = new Label();  
73         fn.Text = Convert.ToString(rd[2]);  
74         tcfn.Controls.Add(fn);  
75         tr1.Cells.Add(tcfn);  
76         TableCell tcln = new TableCell();  
77         Label ln = new Label();  
78         ln.Text = Convert.ToString(rd[3]);  
79         tcln.Controls.Add(ln);  
80         tr1.Cells.Add(tcln);
```

```
WEBSITES  
80  
81             tr1.Cells.Add(sltopt),  
82             rdl [Convert.ToInt32(rd[0])] = new RadioButtonList();  
83             for (int j=1;j<=i;j++)  
84             { rdl[Convert.ToInt32(rd[0])].Items.Add(new ListItem(Subjects[j], Subjects[j])); }  
85             rdl[Convert.ToInt32(rd[0])].RepeatDirection = RepeatDirection.Horizontal;  
86             TableCell sltopt = new TableCell();  
87             sltopt.Controls.Add(rdl[Convert.ToInt32(rd[0])]);  
88             tr1.Cells.Add(sltopt);  
89             selection_table.Rows.Add(tr1);  
90  
91     }  
92  
93     }  
94     rd.Close();  
95  
96     Panel1.Controls.Add(selection_table);  
97 }  
98  
0 references  
99     protected void Button1_Click(object sender, EventArgs e)  
100    {  
101  
102        for (int count = 1; count <= TotalStudents; count++)  
103        {  
104            SqlCommand cmd = new SqlCommand();
```

```

99         0 references
100    protected void Button1_Click(object sender, EventArgs e)
101    {
102
103        for (int count = 1; count <= TotalStudents; count++)
104        {
105            SqlCommand cmd = new SqlCommand();
106            String query = "UPDATE Slot_Allotments SET " + Convert.ToString(Session["Slot_Selected"]) + "_sub = ''" + rdl[count].SelectedVa
107            cmd.CommandText = query;
108            cmd.Connection = con;
109            cmd.ExecuteNonQuery();
110
111        }
112        Label1.Text = "Slot has been configured with students accordingly.";
113    }
114
115    0 references
116    protected void Button3_Click(object sender, EventArgs e)
117    {
118        Response.Redirect("Admin_Webpage.aspx");
119    }

```

The page creates a table for displaying the Name, Roll Number and subject for configuration. A Radio Button List holds chosen values. A SELECT query outputs the data for students in general and the subjects for that slot.

Using loops for creating tables, views were created for the student and teacher tables, with a link for adding/deleting them.

#### Student View & Removal

The Students table is as follows:

To remove a student:

[Click here](#)

To add a student:

[Click here](#)

Roll_Number	Fees	First_Name	Last_Name
1	Outsider	Neville	Albuquerque
2	Outsider	Siddharth	Thakkar
3	Insider	Arnav	Singh
4	Insider	Dhruvi	Sapani
5	Outsider	Aneesha	Nadkarni
6	Insider	Rahil	Parikh
8	Insider	Anish	Sheikh
9	Insider	Sambodhi	Dhaware
10	Insider	Param	Tahilramani
11	Outsider	Kunth	Shah
12	Outsider	Anirbit	Ghosh
13	Insider	Vidhi	Vasandani
14	Outsider	Pranav	Patel
15	Insider	Maanhar	Singh
16	Insider	Arvind	Rao
17	Insider	Henil	Rambia

10	Insider	Param	Tahilramani
11	Outsider	Kunth	Shah
12	Outsider	Anirbit	Ghosh
13	Insider	Vidhi	Vasandani
14	Outsider	Pranav	Patel
15	Insider	Maanhar	Singh
16	Insider	Arvind	Rao
17	Insider	Henil	Rambia

Main Page

```

using System;
using System.Collections.Generic;
using System.Configuration;
using System.Linq;
using System.Text;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data.SqlClient;

2 references
public partial class _Default : System.Web.UI.Page
{
    int rowcount;
    StringBuilder table1 = new StringBuilder();
    0 references
    protected void Page_Load(object sender, EventArgs e)
    {
        if (!Page.IsPostBack)
        {

            SqlConnection con2 = new SqlConnection("Data Source=ELLIVEN;Initial Catalog=Attendance_System;Integrated Security=True;");

            con2.Open();
            SqlCommand cmd = new SqlCommand();
            cmd.CommandText = "Select COUNT (*) from Attendance_System.dbo.students";
            cmd.Connection = con2;
            SqlDataReader rd = cmd.ExecuteReader();
            rd.Read();
            rowcount = Convert.ToInt32(rd[0]);
        }
    }
}

```

A view is created with options to add or delete students. The same generic table with a SELECT query shows the students and their details.

```
0 references
protected void Button2_Click(object sender, EventArgs e)
{
    Response.Redirect("Choosing_Student_Removal.aspx");
}

0 references
protected void Button3_Click(object sender, EventArgs e)
{
    Response.Redirect("Student_assign.aspx");
}
```

When removing a student, the page redirects and the user selects a roll number whilst showing a table containing the current students. Once chosen, the page accepts the response and verifies the user's choice.

```
        if (rd.HasRows)
    {
        while (rd.Read())
        {
            table1.Append("<tr>");
            table1.Append("<td>" + rd[0] + "</td>");
            table1.Append("<td>" + rd[1] + "</td>");
            table1.Append("<td>" + rd[2] + "</td>");
            table1.Append("<td>" + rd[3] + "</td>");
            table1.Append("</tr>");
        }
    }
    table1.Append("</tr>");
    Panel1.Controls.Add(new Literal { Text = table1.ToString() });
    rd.Close();
}

}

0 references
protected void Button1_Click(object sender, EventArgs e)
{
    string check;
    check = Session["Username"].ToString();
    if (check.Equals("admin"))
    { Response.Redirect("Admin_Webpage.aspx"); }
    else
    { Response.Redirect("Teacher_Webpage.aspx"); }
```

```
2 references
public partial class Choosing_Student_Removal : System.Web.UI.Page
{
    int rowcount;
    string Roll_Number;
    StringBuilder table1 = new StringBuilder();
    0 references
protected void Page_Load(object sender, EventArgs e)
{
    if (!Page.IsPostBack)
    {

        SqlConnection con2 = new SqlConnection("Data Source=ELLIVEN;Initial Catalog=Attendance_System;Integrated Security=True;");

        con2.Open();
        SqlCommand cmd = new SqlCommand();
        cmd.CommandText = "Select COUNT (*) from Attendance_System.dbo.students";
        cmd.Connection = con2;
        SqlDataReader rd = cmd.ExecuteReader();
        rd.Read();
        rowcount = Convert.ToInt32(rd[0]);
        rd.Close();
        cmd.CommandText = "Select * from Attendance_System.dbo.students";
        cmd.Connection = con2;
        rd = cmd.ExecuteReader();
        table1.Append("<table border= '1'>");
        table1.Append("<tr><th>Roll_Number</th><th>Fees</th><th>First_Name</th><th>Last_Name</th></tr>");
        if (rd.HasRows)
    }
}
```

```
    table1.Append("<tr>" + rd[0] + "</tr>");
    table1.Append("<tr>" + rd[1] + "</tr>");
    table1.Append("<tr>" + rd[2] + "</tr>");
    table1.Append("<tr>" + rd[3] + "</tr>");
    table1.Append("<tr>" + rd[4] + "</tr>");
    table1.Append("<tr>" + rd[5] + "</tr>");

    Panel1.Controls.Add(new Literal { Text = table1.ToString() });
    rd.Close();
}

}
```

```
0 references
protected void DropDownList1_SelectedIndexChanged(object sender, EventArgs e)
{
    Roll_Number = DropDownList1.Text;
}

0 references
protected void Button1_Click(object sender, EventArgs e)
{
    Response.Redirect("Student_Table_View.aspx");
}

0 references
protected void Button2_Click(object sender, EventArgs e)
{
    Response.Redirect("Admin_Webpage.aspx");
}

0 references
protected void Button3_Click(object sender, EventArgs e)
{
    Roll_Number = DropDownList1.Text;
    Session["Roll_Number_Removal"] = Roll_Number;
    Response.Redirect("Student_Removal.aspx");
}
```

Upon selecting a roll number, the finalization page comes up:

Are you sure you want to delete 17

Yes

No, go back

Label

Main Page

Student Table

Are you sure you want to delete 17

Yes

No, go back

17 has been deleted successfully

Main Page

Student Table

```
public partial class _Default : System.Web.UI.Page
{
    int text;
    protected void Page_Load(object sender, EventArgs e)
    {
        Label1.Text = Session["Roll_Number_Removal"].ToString();
        text = Convert.ToInt16(Label1.Text);
    }

    protected void Button6_Click(object sender, EventArgs e)
    {
        SqlConnection sconn = new SqlConnection("Data Source=ELLIVEN;Initial Catalog=Attendance_System;Integrated Security=True;");
        sconn.Open();
        SqlCommand com = new SqlCommand("DELETE FROM Attendance_System.dbo.students WHERE Roll_Number =" + text);
        com.Connection = sconn;
        com.ExecuteNonQuery();
        sconn.Close();
        Label2.Text = text + " has been deleted successfully";
    }

    protected void Button8_Click(object sender, EventArgs e)
    {
        Response.Redirect("Admin_Webpage.aspx");
    }
}
```

```
protected void Button8_Click(object sender, EventArgs e)
{
    Response.Redirect("Admin_Webpage.aspx");
}

protected void Button9_Click(object sender, EventArgs e)
{
    Response.Redirect("Student_Table_View.aspx");
}

protected void Button7_Click(object sender, EventArgs e)
{
    Response.Redirect("Choosing_Student_Removal.aspx");
}
```

With the DELETE Query, the row is deleted. There's a view and removal option for the teacher table too.

The Teacher table is as follows:

IDr	First_Name	Last_Name	Interest
T1	Garima	Gupta	English
T2	Ankana	Maitra	English
T3	Jigar	Shah	Computer Science
T4	Farida	Virani	Business Management
T5	Ninad	Mungekar	Mathematics
T6	Khushbu	Thaker	Economics
T7	Meenakshi	Mani	French
T8	Sachin	Jain	Spanish
T9	Shujaat	Ali	History
T10	Deepak	Choudhary	Physics
T11	Kamlesh	Singh	Chemistry
T12	Neelam	Chauhan	Chemistry
T13	Siddharth	Patil	Biology
T14	ShivSantosh	Jha	Mathematics

---

T5	Ninad	Mungekar	Mathematics
T6	Khushbu	Thaker	Economics
T7	Meenakshi	Mani	French
T8	Sachin	Jain	Spanish
T9	Shujaat	Ali	History
T10	Deepak	Choudhary	Physics
T11	Kamlesh	Singh	Chemistry
T12	Neelam	Chauhan	Chemistry
T13	Siddharth	Patil	Biology
T14	ShivSantosh	Jha	Mathematics

If you would like to add a teacher:

[Click here](#)

If you would like to remove a teacher:

[Click here](#)

---

[Main Page](#)

To go back: [Click here](#) Alternatively if you want to go to the main page: [Click here](#)

Select a teacher to be deleted:

ID	First_Name	Last_Name	Interest
T1	Garima	Gupta	English
T2	Ankana	Maitra	English
T3	Jigar	Shah	Computer Science
T4	Farida	Virani	Business Management
T5	Ninad	Mungekar	Mathematics
T6	Khushbu	Thaker	Economics
T7	Meenakshi	Mani	French
T8	Sachin	Jain	Spanish
T9	Shujaat	Ali	History
T10	Deepak	Choudhary	Physics
T11	Kamlesh	Singh	Chemistry
T12	Neelam	Chauhan	Chemistry
T13	Siddharth	Patil	Biology
T14	ShivSantosh	Jha	Mathematics

Are you sure you want to remove ?

T13

T13 has been deleted successfully

```

public partial class _Default : System.Web.UI.Page
{
    int rowcount;
    StringBuilder table1 = new StringBuilder();
    0 references
protected void Page_Load(object sender, EventArgs e)
{
    if (!Page.IsPostBack)
    {

        SqlConnection con2 = new SqlConnection("Data Source=ELLIVEN;Initial Catalog=Attendance_System;Integrated Security=True;");

        con2.Open();
        SqlCommand cmd = new SqlCommand();
        cmd.CommandText = "Select COUNT (*) from Attendance_System.dbo.teacher_details";
        cmd.Connection = con2;
        SqlDataReader rd = cmd.ExecuteReader();
        rd.Read();
        rowcount = Convert.ToInt32(rd[0]);
        rd.Close();
        cmd.CommandText = "Select * from Attendance_System.dbo.teacher_details";
        cmd.Connection = con2;
        rd = cmd.ExecuteReader();
        table1.Append("<table border= '1'>");
        table1.Append("<tr><th>ID</th><th>First_Name</th><th>Last_Name</th><th>Interest</th></tr>");
        if (rd.HasRows)
        {
            while (rd.Read())
            {
                table1.Append("<tr>");

                while (rd.Read())
                {
                    table1.Append("<td>" + rd[0] + "</td>");
                    table1.Append("<td>" + rd[1] + "</td>");
                    table1.Append("<td>" + rd[2] + "</td>");
                    table1.Append("<td>" + rd[3] + "</td>");
                    table1.Append("</td>");
                }
            }
            table1.Append("</tr>");
            Panel1.Controls.Add(new Literal { Text = table1.ToString() });
            rd.Close();
        }
    }
}

0 references
protected void Button1_Click(object sender, EventArgs e)
{
    string check;
    check = Session["Username"].ToString();
    if (check.Equals("admin"))
    { Response.Redirect("Admin_Webpage.aspx"); }
    else
    { Response.Redirect("Teacher_Webpage.aspx"); }
}

```

```

0 references
protected void Button1_Click(object sender, EventArgs e)
{
    string check;
    check = Session["Username"].ToString();
    if (check.Equals("admin"))
    { Response.Redirect("Admin_Webpage.aspx"); }
    else
    { Response.Redirect("Teacher_Webpage.aspx"); }
}

0 references
protected void Button2_Click(object sender, EventArgs e)
{
    Response.Redirect("Teacher_Details.aspx");
}

0 references
protected void Button3_Click(object sender, EventArgs e)
{
    Response.Redirect("Choosing_Teacher_Removal.aspx");
}

```

```

2 references
public partial class Choosing_Teacher_Removal : System.Web.UI.Page
{
    int rowcount;
    string TID;
    StringBuilder table1 = new StringBuilder();
    0 references
    protected void Page_Load(object sender, EventArgs e)
    {
        if (!Page.IsPostBack)
        {

            SqlConnection con2 = new SqlConnection("Data Source=ELLIVEN;Initial Catalog=Attendance_System;Integrated Security=True;");

            con2.Open();
            SqlCommand cmd = new SqlCommand();
            cmd.CommandText = "Select COUNT (*) from Attendance_System.dbo.teacher_details";
            cmd.Connection = con2;
            SqlDataReader rd = cmd.ExecuteReader();
            rd.Read();
            rowcount = Convert.ToInt32(rd[0]);
            rd.Close();
            cmd.CommandText = "Select * from Attendance_System.dbo.teacher_details";
            cmd.Connection = con2;
            rd = cmd.ExecuteReader();
            table1.Append("<table border='1'>");
            table1.Append("<tr><th>ID</th><th>First_Name</th><th>Last_Name</th><th>Interest</th></tr>");
            if (rd.HasRows)
        }
    }
}

```

```
table1.Append("<tr><td>" + rd[0] + "</td>" + rd[1] + "</td>" + rd[2] + "</td>" + rd[3] + "</td>" + "</tr>");
if (rd.HasRows)
{
    while (rd.Read())
    {
        table1.Append("<tr>");
        table1.Append("<td>" + rd[0] + "</td>");
        table1.Append("<td>" + rd[1] + "</td>");
        table1.Append("<td>" + rd[2] + "</td>");
        table1.Append("<td>" + rd[3] + "</td>");
        table1.Append("</tr>");
    }
}
table1.Append("</tr>");
Panel1.Controls.Add(new Literal { Text = table1.ToString() });
rd.Close();

}
}
0 references
protected void DropDownList2_SelectedIndexChanged(object sender, EventArgs e)
{

    TID = DropDownList2.Text;
}

0 references
protected void Button4_Click(object sender, EventArgs e)
{
    Response.Redirect("Admin_Webpage.aspx");
}
```

```

    0 references
    protected void Button4_Click(object sender, EventArgs e)
    {
        Response.Redirect("Admin_Webpage.aspx");
    }

    0 references
    protected void Button3_Click(object sender, EventArgs e)
    {
        Response.Redirect("Teacher_Table_View.aspx");
    }

    0 references
    protected void Button5_Click(object sender, EventArgs e)
    {
        Session["Teacher_ID_Removal"] = TID;
        Response.Redirect("Teacher_Removal.aspx");
    }

}
```

```
public partial class _Default : System.Web.UI.Page
{
    string text;

    protected void Page_Load(object sender, EventArgs e)
    {
        text = Session["Teacher_ID_Removal"].ToString();
        Label1.Text = text;
    }

    protected void Button1_Click(object sender, EventArgs e)
    {
        SqlConnection sconn = new SqlConnection("Data Source=ELLIVEN;Initial Catalog=Attendance_System;Integrated Security=True;");
        sconn.Open();
        SqlCommand com = new SqlCommand("DELETE FROM Attendance_System.dbo.teacher_details WHERE ID ='"+text+"'");
        com.Connection = sconn;
        com.ExecuteNonQuery();
        sconn.Close();
        Label2.Text = text + " has been deleted successfully";
    }

    protected void Button2_Click(object sender, EventArgs e)
    {
        Response.Redirect("Choosing_Teacher_Removal.aspx");
    }
}
```

```
protected void Button3_Click(object sender, EventArgs e)
{
    Response.Redirect("Admin_Webpage.aspx");
}

protected void Button4_Click(object sender, EventArgs e)
{
    Response.Redirect("Teacher_Table_View.aspx");
}
```

Attendance Report Generation

Select the date for which the attendance report is to be generated:

20-Sep-18 12:00:00 AM ▾

Submit

```
2 references
public partial class _Default : System.Web.UI.Page
{
    0 references
    protected void Page_Load(object sender, EventArgs e)
    {
        ...
    }

    0 references
    protected void DropDownList1_SelectedIndexChanged(object sender, EventArgs e)
    {
        ...
    }

    0 references
    protected void SqlDataSource1_Selecting(object sender, SqlDataSourceSelectingEventArgs e)
    {
        ...
    }

    0 references
    protected void Button1_Click(object sender, EventArgs e)
    {
        Session["Report_Date"] = DropDownList1.Text;
        Response.Redirect("Attendance_Report.aspx");
    }
}
```

	Roll No	First Name	Last Name	Lecture 1	Lecture 2	Lecture 3	Lecture 4	Lecture 5	Lecture 6	Lecture 7	Lecture 8	Total Lectures	Attended
1	Neville	Albuquerque	Present	8	8								
2	Siddharth	Thakkar	Present	8	8								
3	Arnav	Singh	Present	Present	Present	Present	Present	Absent	Present	Present	Present	7	
4	Dhrushi	Sapani	Present	Present	Absent	Present	Present	Present	Absent	Absent	Absent	5	
5	Aneesha	Nadkarni	Absent	Present	7								
6	Rahil	Parikh	Present	Present	Absent	Absent	Absent	Present	Present	Present	Absent	4	
8	Anish	Sheikh	Present	Absent	Present	Present	Present	Present	Present	Absent	Present	6	
9	Sambodhi	Dhaware	Present	Present	Absent	Present	Absent	Present	Present	Present	Present	6	
10	Param	Tahilramani	Present	Present	Present	Present	Absent	Absent	Absent	Absent	Absent	4	
11	Kunth	Shah	Absent	Present	Present	Present	Present	Absent	Absent	Absent	Absent	4	
12	Anirbit	Ghosh	Absent	Present	Absent	Absent	Absent	Present	Present	Present	Present	4	
13	Vidhi	Vasandani	Present	Absent			Absent	Present	Present		Present	4	
14	Pranav	Patel	Absent	Present			Absent	Absent	Present		Present	3	
15	Maanhar	Singh	Present				Absent	Present	Absent		Absent	2	
16	Arvind	Rao	Present				Present	Absent	Present		Present	4	

Total Students present : 15

Total students Absent : 0

```
public partial class _Default : System.Web.UI.Page
{
    int lecture_count = 0;
    int stu_present = 0;
    int stu_absent = 0;
    0 references
protected void Page_Load(object sender, EventArgs e)
{
    String Report_Date = Session["Report_Date"].ToString();
    String strQuery = "SELECT Roll_Number, First_Name, Last_Name FROM Attendance_System.dbo.students";
    SqlConnection con = new SqlConnection("Data Source=ELLIVEN;Initial Catalog=Attendance_System;Integrated Security=True;MultipleActiveResultSets=true");
    SqlCommand cmd2 = new SqlCommand();
    cmd2.CommandText = strQuery;
    cmd2.Connection = con;
    Table report_table = new Table();
    try
    {
        con.Open();
        SqlDataReader sdr = cmd2.ExecuteReader();
        SqlCommand sq_lec_1 = new SqlCommand();
        sq_lec_1.CommandText = "select * from Attendance_System.dbo.Lecture_1 where Date='2018-09-06'";
        sq_lec_1.Connection = con;
        SqlDataReader dr_lec_1 = sq_lec_1.ExecuteReader();
        SqlCommand sq_lec_2 = new SqlCommand();
        sq_lec_2.CommandText = "select * from Attendance_System.dbo.Lecture_2 where Date='2018-09-06'";
        sq_lec_2.Connection = con;
        SqlDataReader dr_lec_2 = sq_lec_2.ExecuteReader();
        SqlCommand sq_lec_3 = new SqlCommand();
        sq_lec_3.CommandText = "select * from Attendance_System.dbo.Lecture_3 where Date='2018-09-06'".
```

```

SqlDataReader dr_lec_2 = sq_lec_2.ExecuteReader();
SqlCommand sq_lec_3 = new SqlCommand();
sq_lec_3.CommandText = "select * from Attendance_System.dbo.Lecture_3 where Date='2018-09-06'";
sq_lec_3.Connection = con;
SqlDataReader dr_lec_3 = sq_lec_3.ExecuteReader();
SqlCommand sq_lec_4 = new SqlCommand();
sq_lec_4.CommandText = "select * from Attendance_System.dbo.Lecture_4 where Date='2018-09-06'";
sq_lec_4.Connection = con;
SqlDataReader dr_lec_4 = sq_lec_4.ExecuteReader();
SqlCommand sq_lec_5 = new SqlCommand();
sq_lec_5.CommandText = "select * from Attendance_System.dbo.Lecture_5 where Date='2018-09-06'";
sq_lec_5.Connection = con;
SqlDataReader dr_lec_5 = sq_lec_5.ExecuteReader();
SqlCommand sq_lec_6 = new SqlCommand();
sq_lec_6.CommandText = "select * from Attendance_System.dbo.Lecture_6 where Date='2018-09-06'";
sq_lec_6.Connection = con;
SqlDataReader dr_lec_6 = sq_lec_6.ExecuteReader();
SqlCommand sq_lec_7 = new SqlCommand();
sq_lec_7.CommandText = "select * from Attendance_System.dbo.Lecture_7 where Date='2018-09-06'";
sq_lec_7.Connection = con;
SqlDataReader dr_lec_7 = sq_lec_7.ExecuteReader();
SqlCommand sq_lec_8 = new SqlCommand();
sq_lec_8.CommandText = "select * from Attendance_System.dbo.Lecture_8 where Date='2018-09-06'";
sq_lec_8.Connection = con;
SqlDataReader dr_lec_8 = sq_lec_8.ExecuteReader();

if (sdr.HasRows&&dr_lec_1.HasRows&&dr_lec_2.HasRows && dr_lec_3.HasRows && dr_lec_4.HasRows && dr_lec_5.HasRows && dr_lec_6.HasRows && dr_lec_7.HasRows && dr_lec_8.HasRows)
{
    TableRow tr = new TableRow();
    TableCell tc1 = new TableCell();

```

```

        TableRow tr = new TableRow();
        TableCell tc1 = new TableCell();
        Label rn1 = new Label();
        rn1.Text = "Roll No";
        tc1.Controls.Add(rn1);
        tr.Cells.Add(tc1);
        TableCell tc2 = new TableCell();
        Label rn2 = new Label();
        rn2.Text = "First Name";
        tc2.Controls.Add(rn2);
        tr.Cells.Add(tc2);
        TableCell tc3 = new TableCell();
        Label rn3 = new Label();
        rn3.Text = "Last Name";
        tc3.Controls.Add(rn3);
        tr.Cells.Add(tc3);
        TableCell tc4 = new TableCell();
        Label rn4 = new Label();
        rn4.Text = "Lecture 1";
        tc4.Controls.Add(rn4);
        tr.Cells.Add(tc4);
        TableCell tc5 = new TableCell();
        Label rn5 = new Label();
        rn5.Text = "Lecture 2";
        tc5.Controls.Add(rn5);
        tr.Cells.Add(tc5);
        TableCell tc6 = new TableCell();
        Label rn6 = new Label();
        rn6.Text = "Lecture 3".

```

```

rn6.Text = "Lecture 3";
tc6.Controls.Add(rn6);
tr.Cells.Add(tc6);
TableCell tc7 = new TableCell();
Label rn7 = new Label();
rn7.Text = "Lecture 4";
tc7.Controls.Add(rn7);
tr.Cells.Add(tc7);
TableCell tc8 = new TableCell();
Label rn8 = new Label();
rn8.Text = "Lecture 5";
tc8.Controls.Add(rn8);
tr.Cells.Add(tc8);
TableCell tc9 = new TableCell();
Label rn9 = new Label();
rn9.Text = "Lecture 6";
tc9.Controls.Add(rn9);
tr.Cells.Add(tc9);
TableCell tc10 = new TableCell();
Label rn10 = new Label();
rn10.Text = "Lecture 7";
tc10.Controls.Add(rn10);
tr.Cells.Add(tc10);
TableCell tc11 = new TableCell();
Label rn11= new Label();
rn11.Text = "Lecture 8";
tc11.Controls.Add(rn11);
tr.Cells.Add(tc11);

```

```

TableCell tc12 = new TableCell();
Label rn12 = new Label();
rn12.Text = "Total Lectures Attended";
tc12.Controls.Add(rn12);
tr.Cells.Add(tc12);
report_table.Rows.Add(tr);
while(dr_lec_1.Read()&&dr_lec_2.Read() && dr_lec_3.Read() && dr_lec_4.Read() && dr_lec_5.Read() && dr_lec_6.Read() && dr_lec_7.Read() &
while (sdr.Read())
{
    TableRow tr1 = new TableRow();
    TableCell tc = new TableCell();
    Label rno = new Label();
    rno.Text = Convert.ToString(sdr[0]);
    int Curr_Roll_no = Convert.ToInt32(sdr[0]);
    tc.Controls.Add(rno);
    tr1.Cells.Add(tc);
    TableCell tcfn = new TableCell();
    Label fn = new Label();
    fn.Text = Convert.ToString(sdr[1]);
    tcfn.Controls.Add(fn);
    tr1.Cells.Add(tcfn);
    TableCell tcln = new TableCell();
    Label ln = new Label();
    ln.Text = Convert.ToString(sdr[2]);
    tcln.Controls.Add(ln);
    tr1.Cells.Add(tcln);
}

```

```

        TableCell cell_lec_1 = new TableCell();
        Label lb_lec_1 = new Label();
        lb_lec_1.Text = Convert.ToString(dr_lec_1[Curr_Roll_no]);
        cell_lec_1.Controls.Add(lb_lec_1);
        tr1.Cells.Add(cell_lec_1);

        TableCell cell_lec_2 = new TableCell();
        Label lb_lec_2 = new Label();
        lb_lec_2.Text = Convert.ToString(dr_lec_2[Curr_Roll_no]);
        cell_lec_2.Controls.Add(lb_lec_2);
        tr1.Cells.Add(cell_lec_2);

        TableCell cell_lec_3 = new TableCell();
        Label lb_lec_3 = new Label();
        lb_lec_3.Text = Convert.ToString(dr_lec_3[Curr_Roll_no]);
        cell_lec_3.Controls.Add(lb_lec_3);
        tr1.Cells.Add(cell_lec_3);

        TableCell cell_lec_4 = new TableCell();
        Label lb_lec_4 = new Label();
        lb_lec_4.Text = Convert.ToString(dr_lec_4[Curr_Roll_no]);
        cell_lec_4.Controls.Add(lb_lec_4);
        tr1.Cells.Add(cell_lec_4);

        TableCell cell_lec_5 = new TableCell();
        Label lb_lec_5 = new Label();
        lb_lec_5.Text = Convert.ToString(dr_lec_5[Curr_Roll_no]);
        cell_lec_5.Controls.Add(lb_lec_5);
        tr1.Cells.Add(cell_lec_5);

```

```

        TableCell cell_lec_6 = new TableCell();
        Label lb_lec_6 = new Label();
        lb_lec_6.Text = Convert.ToString(dr_lec_6[Curr_Roll_no]);
        cell_lec_6.Controls.Add(lb_lec_6);
        tr1.Cells.Add(cell_lec_6);

        TableCell cell_lec_7 = new TableCell();
        Label lb_lec_7 = new Label();
        lb_lec_7.Text = Convert.ToString(dr_lec_7[Curr_Roll_no]);
        cell_lec_7.Controls.Add(lb_lec_7);
        tr1.Cells.Add(cell_lec_7);

        TableCell cell_lec_8 = new TableCell();
        Label lb_lec_8 = new Label();
        lb_lec_8.Text = Convert.ToString(dr_lec_8[Curr_Roll_no]);
        cell_lec_8.Controls.Add(lb_lec_8);
        tr1.Cells.Add(cell_lec_8);

        if (lb_lec_1.Text.Equals("Present"))
        { lecture_count++; }
        if (lb_lec_2.Text.Equals("Present"))
        { lecture_count++; }
        if (lb_lec_3.Text.Equals("Present"))
        { lecture_count++; }

```

```

        {
            if (lb_lec_4.Text.Equals("Present"))
            { lecture_count++; }
            if (lb_lec_5.Text.Equals("Present"))
            { lecture_count++; }
            if (lb_lec_6.Text.Equals("Present"))
            { lecture_count++; }
            if (lb_lec_7.Text.Equals("Present"))
            { lecture_count++; }
            if (lb_lec_8.Text.Equals("Present"))
            { lecture_count++; }

            TableCell cell_total_lec = new TableCell();
            Label lb_tot_lec = new Label();
            lb_tot_lec.Text = Convert.ToString(lecture_count);
            cell_total_lec.HorizontalAlign = HorizontalAlign.Center;
            if(lecture_count<8)
            { cell_total_lec.BackColor = System.Drawing.Color.Red; }
            cell_total_lec.Controls.Add(lb_tot_lec);
            tr1.Cells.Add(cell_total_lec);
            if (! (lecture_count >0))
            { stu_absent++; }
            else
            { stu_present++; }

            report_table.Rows.Add(tr1);

            lecture_count = 0;
        }
    }

}
catch (Exception ex)
{
    throw ex;
}
finally
{
    con.Close();
    con.Dispose();
}
Panel1.Controls.Add(report_table);
Panel1.Controls.Add(new LiteralControl("<br/> <br/>"));
Label Label1 = new Label();
Label Label2 = new Label();
Label1.Text = "Total Students present : " + Convert.ToString(stu_present);
Label2.Text = "Total students Absent : " + Convert.ToString(stu_absent);
Label1.Style.Add("margin-right","30px");
Panel1.Controls.Add(Label1);
Panel1.Controls.Add(new LiteralControl("<br/> <br/>"));
Panel1.Controls.Add(Label2);
}
}

```

This creates the table containing the red flags (which indicate absence or bunking), attendance (lecture-wise) and gives a total figure for the coordinator in terms of total present and absent. The table is just a view from joining all the 8 lecture tables.

## Teacher Webpage

Welcome Jigar.shah

Click on button for Attendance Form.

**Attendance Form**

Click on button for Student Table

**Student Table**

To log out:

**Click here**

```
2 references
public partial class _Default : System.Web.UI.Page
{
    0 references
    protected void Page_Load(object sender, EventArgs e)
    {
        Label1.Text = Session["Username"].ToString();
    }

    0 references
    protected void Button1_Click(object sender, EventArgs e)
    {
        Response.Redirect("Lecture_Select.aspx");
    }

    0 references
    protected void Button2_Click(object sender, EventArgs e)
    {
        Response.Redirect("Students_View_Restricted.aspx");
    }

    0 references
    protected void Button3_Click(object sender, EventArgs e)
    {
        Response.Redirect("test_user_login.aspx");
    }
}
```

This page is the home page for teachers wherein they record the attendance during lectures and view the student table. Due to less functions, it's quicker in terms of number of clicks to reach the attendance form.

### Attendance Recording

Select the Lecture:



Select the Slot:



Main Page

Select the Lecture:



Select the Slot:



Submit

Main Page

```
2 references
public partial class _Default : System.Web.UI.Page
{
    0 references
    protected void Page_Load(object sender, EventArgs e)
    {
    }

    0 references
    protected void Button1_Click(object sender, EventArgs e)
    {
        Session["Current_Slot"] = DropDownList2.Text;
        Session["Current_Lecture"] = DropDownList1.Text;
        Response.Redirect("Attendance_subject_select.aspx");
    }

    0 references
    protected void Button2_Click(object sender, EventArgs e)
    {
        Response.Redirect("Teacher_Webpage.aspx");
    }
}
```

Starts with lecture and slot selection so that the teacher can select their slots and lectures hence filtering the subjects that would be entered otherwise.

Roll No First Name Last Name

2	Siddharth	Thakkar	<input type="radio"/> Present	<input checked="" type="radio"/> Absent
4	Dhruvi	Sapani	<input type="radio"/> Present	<input checked="" type="radio"/> Absent
6	Rahil	Parikh	<input type="radio"/> Present	<input checked="" type="radio"/> Absent
9	Sambodhi	Dhaware	<input type="radio"/> Present	<input checked="" type="radio"/> Absent
10	Param	Tahilramani	<input type="radio"/> Present	<input checked="" type="radio"/> Absent
11	Kunth	Shah	<input type="radio"/> Present	<input checked="" type="radio"/> Absent
13	Vidhi	Vasandani	<input type="radio"/> Present	<input checked="" type="radio"/> Absent
14	Pranav	Patel	<input type="radio"/> Present	<input checked="" type="radio"/> Absent

Roll No First Name Last Name

2	Siddharth	Thakkar	<input type="radio"/> Present	<input checked="" type="radio"/> Absent
4	Dhruvi	Sapani	<input checked="" type="radio"/> Present	<input type="radio"/> Absent
6	Rahil	Parikh	<input type="radio"/> Present	<input checked="" type="radio"/> Absent
9	Sambodhi	Dhaware	<input checked="" type="radio"/> Present	<input type="radio"/> Absent
10	Param	Tahilramani	<input type="radio"/> Present	<input checked="" type="radio"/> Absent
11	Kunth	Shah	<input type="radio"/> Present	<input checked="" type="radio"/> Absent
13	Vidhi	Vasandani	<input checked="" type="radio"/> Present	<input type="radio"/> Absent
14	Pranav	Patel	<input type="radio"/> Present	<input checked="" type="radio"/> Absent

Main Attendance Select Form

```
public partial class _Default : System.Web.UI.Page
{
    RadioButtonList[] rdl = new RadioButtonList[100];
    int TotalStudents = 0;
    int[] roll_nos = new int[100];
    String insertqry;
    String Updateqry;
    String[] UpdateRllNo = new String[100];
    0 references
    protected void Page_Load(object sender, EventArgs e)
    {
        String sub_selected = Session["Attendance_Sub"].ToString();
        String strQuery = "SELECT Roll_Number, First_Name, Last_Name FROM Attendance_System.dbo.students s INNER JOIN Attendance_System.dbo.Slot_Allotm
SqlConnection con = new SqlConnection("Data Source=ELLIVEN;Initial Catalog=Attendance_System;Integrated Security=True;MultipleActiveResultSets=
SqlCommand cmd2 = new SqlCommand();
cmd2.CommandText = strQuery;
cmd2.Connection = con;
Table selection_table = new Table();
this.Updateqry = "UPDATE Lecture_" + Session["Current_Lecture"].ToString() + " SET";
this.insertqry = " INSERT INTO Lecture_" + Session["Current_Lecture"].ToString() + " (Date";
try
{
    con.Open();
    SqlDataReader sdr = cmd2.ExecuteReader();
    . . .

```

```
        if (sdr.HasRows)
        {
            TableRow tr = new TableRow();
            TableCell tc1 = new TableCell();
            Label rn1 = new Label();
            rn1.Text = "Roll No";
            tc1.Controls.Add(rn1);
            tr.Cells.Add(tc1);
            TableCell tc2 = new TableCell();
            Label rn2 = new Label();
            rn2.Text = "First Name";
            tc2.Controls.Add(rn2);
            tr.Cells.Add(tc2);
            TableCell tc3 = new TableCell();
            Label rn3 = new Label();
            rn3.Text = "Last Name";
            tc3.Controls.Add(rn3);
            tr.Cells.Add(tc3);
            selection_table.Rows.Add(tr);

            while (sdr.Read())
            {
                TotalStudents++;
                TableRow tr1 = new TableRow();

```

---

4	Dhruvi	Sapani	<input checked="" type="radio"/> Present <input type="radio"/> Absent
6	Rahil	Parikh	<input type="radio"/> Present <input checked="" type="radio"/> Absent
9	Sambodhi	Dhaware	<input checked="" type="radio"/> Present <input type="radio"/> Absent
10	Param	Tahilramani	<input type="radio"/> Present <input checked="" type="radio"/> Absent
11	Kunth	Shah	<input type="radio"/> Present <input checked="" type="radio"/> Absent
13	Vidhi	Vasandani	<input checked="" type="radio"/> Present <input type="radio"/> Absent
14	Pranav	Patel	<input type="radio"/> Present <input checked="" type="radio"/> Absent

Label

Submit

Main page

```
public partial class _Default : System.Web.UI.Page
{
    RadioButtonList[] rdl = new RadioButtonList[100];
    int TotalStudents = 0;
    int[] roll_nos = new int[100];
    String insertqry;
    String Updateqry;
    String[] UpdateRllNo = new String[100];
    0 references
protected void Page_Load(object sender, EventArgs e)
{
    String sub_selected = Session["Attendance_Sub"].ToString();
    String strQuery = "SELECT Roll_Number, First_Name, Last_Name FROM Attendance_System.dbo.students s INNER JOIN Attendance_System.dbo.Slot_Allotm
    SqlConnection con = new SqlConnection("Data Source=ELLIVEN;Initial Catalog=Attendance_System;Integrated Security=True;MultipleActiveResultSets=
    SqlCommand cmd2 = new SqlCommand();
    cmd2.CommandText = strQuery;
    cmd2.Connection = con;
    Table selection_table = new Table();
    this.Updateqry = "UPDATE Lecture_" + Session["Current_Lecture"].ToString() + " SET";
    this.insertqry = " INSERT INTO Lecture_" + Session["Current_Lecture"].ToString() + " (Date";
    try
    {
        con.Open();
        SqlDataReader sdr = cmd2.ExecuteReader();
        while (sdr.Read())
        {
            rdl[TotalStudents] = new RadioButtonList();
            rdl[TotalStudents].Items.Add(new ListItem(sdr["First_Name"].ToString() + " " + sdr["Last_Name"].ToString(), sdr["Roll_Number"].ToString()));
            rdl[TotalStudents].Items.Add(new ListItem("Absent", "0"));
            rdl[TotalStudents].Items.Add(new ListItem("Present", "1"));
            roll_nos[TotalStudents] = sdr["Roll_Number"].ToString();
            if (sdr["First_Name"].ToString() == sub_selected)
            {
                insertqry += " (" + sdr["Roll_Number"].ToString() + ", " + sdr["First_Name"].ToString() + ", " + sdr["Last_Name"].ToString() + ", " + sdr["Slot_Allotm
                Updateqry += " (" + sdr["Roll_Number"].ToString() + ", " + sdr["First_Name"].ToString() + ", " + sdr["Last_Name"].ToString() + ", " + sdr["Slot_Allotm
            }
            else
            {
                insertqry += " (" + sdr["Roll_Number"].ToString() + ", " + sdr["First_Name"].ToString() + ", " + sdr["Last_Name"].ToString() + ", " + sdr["Slot_Allotm
                Updateqry += " (" + sdr["Roll_Number"].ToString() + ", " + sdr["First_Name"].ToString() + ", " + sdr["Last_Name"].ToString() + ", " + sdr["Slot_Allotm
            }
            TotalStudents++;
        }
        sdr.Close();
    }
    catch { }
}
```

```

        if (sdr.HasRows)
        {
            TableRow tr = new TableRow();
            TableCell tc1 = new TableCell();
            Label rn1 = new Label();
            rn1.Text = "Roll No";
            tc1.Controls.Add(rn1);
            tr.Cells.Add(tc1);
            TableCell tc2 = new TableCell();
            Label rn2 = new Label();
            rn2.Text = "First Name";
            tc2.Controls.Add(rn2);
            tr.Cells.Add(tc2);
            TableCell tc3 = new TableCell();
            Label rn3 = new Label();
            rn3.Text = "Last Name";
            tc3.Controls.Add(rn3);
            tr.Cells.Add(tc3);
            selection_table.Rows.Add(tr);

            while (sdr.Read())
            {
                TotalStudents++;
                TableRow tr1 = new TableRow();

                TableCell tc = new TableCell();
                Label rno = new Label();
                rno.Text = Convert.ToString(sdr[0]);
                roll_nos[TotalStudents] = Convert.ToInt32(sdr[0]);
                this.insertqry = this.insertqry + ",RN" + Convert.ToString(sdr[0]);
                this.UpdateR11No[TotalStudents] = " RN" + Convert.ToString(sdr[0]) + " = ";
                tc.Controls.Add(rno);
                tr1.Cells.Add(tc);
                TableCell tcfn = new TableCell();
                Label fn = new Label();
                fn.Text = Convert.ToString(sdr[1]);
                tcfn.Controls.Add(fn);
                tr1.Cells.Add(tcfn);
                TableCell tcfn = new TableCell();
                Label ln = new Label();
                ln.Text = Convert.ToString(sdr[2]);
                tcfn.Controls.Add(ln);
                tr1.Cells.Add(tcfn);
                rdl[Convert.ToInt32(sdr[0])] = new RadioButtonList();
                rdl[Convert.ToInt32(sdr[0])].Items.Add(new ListItem("Present", "Present"));
                rdl[Convert.ToInt32(sdr[0])].Items.Add(new ListItem("Absent", "Absent"));
                rdl[Convert.ToInt32(sdr[0])].RepeatDirection = RepeatDirection.Horizontal;
            }
        }
    }
}

```

```

        rdl[Convert.ToInt32(sdr[0])].SelectedValue = "Absent";
        TableCell sltopt = new TableCell();
        sltopt.Controls.Add(rdl[Convert.ToInt32(sdr[0])]);
        tr1.Cells.Add(sltopt);
        selection_table.Rows.Add(tr1);

    }
}
catch (Exception ex)
{
    throw ex;
}
finally
{
    con.Close();
    con.Dispose();
}
Panel1.Controls.Add(selection_table);
}

0 references
protected void Button1_Click(object sender, EventArgs e)

```

```

protected void Button1_Click(object sender, EventArgs e)
{
    string check = "";

    String Lecture_Selected = Session["Current_Lecture"].ToString();
    SqlConnection sconn = new SqlConnection("Data Source=ELLIVEN;Initial Catalog=Attendance_System;Integrated Security=True;MultipleActiveResultSets=True");
    SqlCommand cmd = new SqlCommand();
    sconn.Open();
    cmd.Connection = sconn;
    this.insertqry = this.insertqry + ") VALUES ('" + DateTime.Now.ToString("yyyy-MM-dd") + "'";
    for (int i = 1; i <= TotalStudents; i++)
    {
        this.insertqry = this.insertqry + "," + rdl[roll_nos[i]].SelectedValue.ToString() + "";
        this.Updateqry = this.Updateqry + this.UpdateRllNo[i] + "" + rdl[roll_nos[i]].SelectedValue.ToString() + " ,";
    }
    this.Updateqry = this.Updateqry.Substring(0, this.Updateqry.Length - 1);
    this.Updateqry = this.Updateqry + " WHERE Date = '" + DateTime.Now.ToString("yyyy-MM-dd") + "'";
    this.insertqry = this.insertqry + ")";
    cmd.CommandText = "SELECT COUNT(*) FROM Lecture_" + Session["Current_Lecture"].ToString() + " WHERE Date = '" + DateTime.Now.ToString("yyyy-MM-dd") + "'";
    SqlDataReader CountReader = cmd.ExecuteReader();
    CountReader.Read();
    if (Convert.ToInt32(CountReader[0]) > 0)

    {
        CountReader.Close();
        cmd.CommandText = Updateqry;
        cmd.ExecuteNonQuery();
        check = "1";
    }
}

```

```

else
{
    CountReader.Close();
    cmd.CommandText = insertqry;
    cmd.ExecuteNonQuery();
    check = "1";
}

cmd.CommandText = "SELECT COUNT(*) FROM Attendance_System.dbo.Lectures_Summary WHERE Date = '" + DateTime.Now.ToString("yyyy-MM-dd") + "'";

SqlDataReader CountReader1 = cmd.ExecuteReader();
CountReader1.Read();
if (Convert.ToInt32(CountReader1[0]) > 0)

{
    CountReader1.Close();
    cmd.CommandText = "UPDATE Attendance_System.dbo.Lectures_Summary SET Lecture" + Session["Current_Lecture"].ToString() + "='Yes' WHERE Date = '" + DateTime.Now.ToString("yyyy-MM-dd") + "'";
    cmd.ExecuteNonQuery();
    check = check+"1";
}
else
{
    CountReader1.Close();
    cmd.CommandText = "INSERT INTO Attendance_System.dbo.Lectures_Summary(Date , Lecture" + Session["Current_Lecture"].ToString() + ") VALUES ('" + DateTime.Now.ToString("yyyy-MM-dd") + "','" + Session["Current_Lecture"].ToString() + "')";
    cmd.ExecuteNonQuery();
    check = check + "1";
}
sconn.Close();
if (check.Equals("11"))

```

```

        {
            Response.Redirect("Successful_Attendance_Select.aspx");
        }
        else {
            Response.Redirect("Unsuccessful_Attendance_Select.aspx");
        }
    }

0 references
protected void Button2_Click(object sender, EventArgs e)
{
    Response.Redirect("Teacher_Webpage.aspx");
}

```

The queries are dependent upon whether the initial table was filled. If it was, by another teacher e.g. within the same lecture, instead of an INSERT query, an UPDATE query is used. This allows the individual lecture tables to be filled.