Practical No: 9

Aim: Write Theory regarding ASP.Net web controls: Radio Button Control, Image Control, and Link Button Control. Create a Web Form to demonstrate the use of ASP.Net web controls: Radio Button Control, Image Control, and Link Button Control.

Theory:

RADIO BUTTON CONTROLS

There are two different syntaxes for Radio Button Control one is for RadioButton control and the other one is for RadioButtonList.

Syntax for RadioButton Control:

```
<asp:RadioButton ID="Radio1"runat="server"></asp:RadioButton>
```

Syntax for RadioButtonList:

```
<asp:RadioButtonList ID="RadioButtonList1"runat="server" AutoPostBack="True"
OnSelectedldexChanged="RadioButton1_SelectedlndexChanged></asp:RadioButtonList>
```

Important Properties of a Radio Button Control:

Let us see some of the important properties of Radio button control

- **Text:** It is used to add the text for the radio button control.

- **Items:** Individual radio buttons are added to the control.

- **RepeatColumns:** It is the number of columns that are repetitively used for the values.

- **TextAlign:** It is used to proper alignment of the text property of a control.

- **Checked:** It is used to determine what exactly the user has clicked or not.it will return true or false according to the click event.

IMAGE CONTROLS

An ASP.NET Image server control is a control that displays an image on the web page. The image is sourced from either a location on the server or from a URL on the internet. Why did I use the term server control? Well, because like all other server controls, ASP.NET provides its own tag for the Image control which is run at the server and the generated HTML code is returned as a response to the browser. So, thinking from the HTML perspective, the Image control generates the HTML <img> tag along with the attributes such as source, height, width, styles, etc.

Syntax

The Image control can either be coded using ASP.NET provided tags or dragged and dropped using Visual Studio IDE. The drag and drop feature ultimately generate the same code. The syntax of ASP.NET Image in its simplest form is:

```
<asp:Image ID="ImageId" runat="server" />
```

Properties of ASP.NET Image

The ASP.NET Image control comes with certain pre-defined properties. These properties are converted to attributes in the native HTML code. They help define additional behavior for the Image control. Let's discuss some of the frequently used ones in detail:

1. **AlternateText**

This property gets or sets the alternate text to be displayed in case the image could not be loaded into the web page. There are multiple reasons due to which an image may not load. The image may not be found at the path, the server may be down, the connection may be poor or some other error.

```
<asp:Image ID="myFlowerImage" AlternateText="Flower Image" runat="server" />
```

2. **BorderColor, BorderStyle and BorderWidth**

These properties get or set the border styling for the control.

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```
<asp:Image ID="myFlowerImage" BorderWidth="5" BorderColor="Blue"
BorderStyle="dashed" runat="server" />
```

3. **CssClass**

This property gets or sets the CSS class to be applied to the control.

```
<asp:Image ID="myFlowerImage" CssClass="txtBxClass" runat="server" />
```

4. **DescriptionUrl**

This property gets or sets the location that contains a detailed description of the image.

```
<asp:Image ID="myFlowerImage" DescriptionUrl="~/Content/myImgDes.txt" runat="server" />
```

5. Enabled

This property gets or sets the value indicating whether the control is enabled or disabled. The default value is true.

```
<asp:Image ID="myFlowerImage" Enabled="false" runat="server" />
```

6. Font

This property gets or sets the font of the text to be displayed with the control. There are plenty of styles and options such as bold, italics, underline, strikeout, etc.

7. Height, Width

These properties get or set the height and width of the image in the number of pixels.

```
<asp:Image ID="myFlowerImage" Height="100" Width="500" runat="server" />
```

8. ID

This property gets or sets the unique identifier attribute to the control.

```
<asp:Image ID="myFlowerImage" runat="server" />
```

9. ImageUrl

This property gets or sets the source path of the image. All valid image formats such as jpg, jpeg, png, bmp, etc. are supported.

Note: The complete path is case-sensitive.

```
<asp:Image ID="myFlowerImage" ImageUrl="~/Content/myFlowerImage.jpg" runat="server" />
```

10. ImageAlign

This property gets or sets the position of the image with respect to other controls on the web page. It can be right, left, center, top, bottom, middle, etc.

```
<asp:Image ID="myFlowerImage" ImageAlign="Right" runat="server" />
```

11. ToolTip

This property gets or sets the tooltip value to be displayed when the mouse pointer has hovered over the link button.

```
<asp:Image ID="myFlowerImage" ToolTip="This is an image of a flower." runat="server" />
```

12. Visible

This property determines whether the control will be displayed on the UI or hidden. The default is true.

```
<asp:Image ID="myFlowerImage" Visible="false" runat="server" />
```

Link Button Controls

Syntax:

The LinkButton control can be coded using ASP.Net provided tags or dragged and dropped using Visual Studio IDE. The drag and drop feature ultimately generates the same code.

The syntax of ASP.Net LinkButton in its simplest form is:

```
<asp:LinkButton ID="LinkButton1" runat="server">DisplayText</asp:LinkButton>
```

Properties of ASP.NET LinkButton

The ASP.Net LinkButton control comes with certain pre-defined properties. These properties are converted to attributes in the native HTML code. They help define additional behavior for the LinkButton control. Let's discuss some of the frequently used ones in detail:

1. BackColor, ForeColor

This property gets or sets the background and the foreground color of the link button.

```
<asp:LinkButton ID="myLinkButton" BackColor="DarkBlue" ForeColor="White" runat="server" >Click here </asp:LinkButton>
```

2. BorderColor, BorderStyle and BorderWidth

These properties get or set the border styling for the link button control.

```
<asp:LinkButton ID="myLinkButton" BorderWidth="5" BorderColor="Blue" BorderStyle="dashed" runat="server" > Click here </asp:LinkButton>
```

3. CausesValidation

This property gets or sets a value which indicates whether a validation must be performed or not when the link button is clicked. The default is true.

```
<asp:LinkButton ID="myLinkButton" CausesValidation="false" runat="server" > Click here </asp:LinkButton>
```

4. CssClass

This property gets or sets the CSS class to be applied to the control.

```
<asp:LinkButton ID="myLinkButton" CssClass="txtBxClass" runat="server" > Click here
</asp:LinkButton>
```

5. Enabled

This property gets or sets the value indicating whether the link button control is enabled or disabled. The default value is true.

```
<asp:LinkButtonID="myLinkButton" Enabled="false" runat="server" > Click here
</asp:LinkButton>
```

6. Font

This property gets or sets the font of the text to be displayed in the link button. There are plenty of styles and options such as bold, italics, underline, strikeout, etc.

7. Height, Width

These properties get or set the height and width of the link button in the number of pixels.

```
<asp:LinkButtonID="myLinkButton" Height="100" Width="500" runat="server" > Click here
</asp:LinkButton>
```

8. ID

This property gets or sets the unique identifier attribute to the link button.

```
<asp:LinkButtonID="myLinkButton" runat="server" > Click here </asp:LinkButton>
```

9. PostBackUrl

This property gets or sets the URL of the page to navigate to from the current page.

```
<asp:LinkButtonID="myLinkButton" PostBackUrl="~/mywebpage.aspx" runat="server" > Click
here </asp:LinkButton>
```

10. Text

This property gets or sets the text displayed in the link button control.

```
<asp:LinkButtonID="myLinkButton" Text="Click here" runat="server" > </asp:LinkButton>
```

11. ToolTip

This property gets or sets the tooltip value to be displayed when the mouse pointer has hovered over the link button.

```
<asp:LinkButtonID="myLinkButton" ToolTip="Click here to go to my web page."
runat="server" > Click here </asp:LinkButton>
```

12. Visible

This property determines whether the link button control will be displayed on the UI or hidden. The default is true.
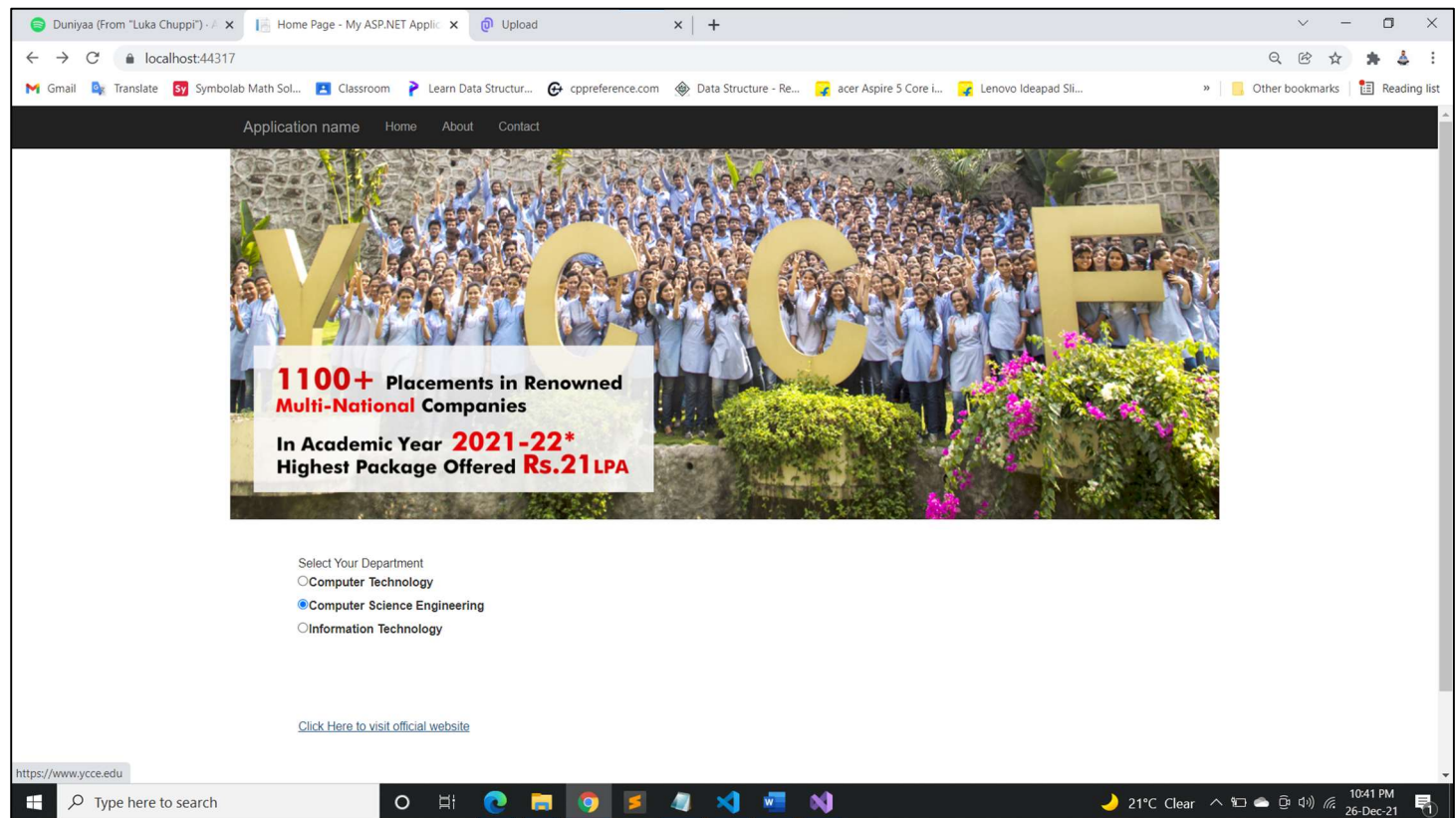
<asp:LinkButtonID="myLinkButton" Visible="false" runat="server" > Click here </asp:LinkButton>

Program:

Default.apsx

```
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master"
AutoEventWireup="true" CodeBehind="Default.aspx.cs" Inherits="Practical_9._Default" %>


<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">

    <asp:Image ID="Image1" runat="server" ImageUrl="~/ycce.jpg" Width="100%" Height="100%"
ImageAlign="Top"/>

    <div class="main">
        <div class="div1">
            <asp:Label ID="Label1" runat="server" Text="Label">Select Your
Department</asp:Label>
            <asp:RadioButtonList ID="RadioButtonList1" runat="server">
                    <asp:ListItem>Computer Technology</asp:ListItem>
                    <asp:ListItem>Computer Science Engineering</asp:ListItem>
                    <asp:ListItem>Information Technology</asp:ListItem>
            </asp:RadioButtonList>
        </div>
        <div class="div2">
            <asp:LinkButton ID="LinkButton1" runat="server"
Href="https://www.ycce.edu/">Click Here to visit official website</asp:LinkButton>
        </div>
    </div>
</asp:Content>
```

OUTPUT SCREEN SHOTS:

CONCLUSION:

I have studied different types of image controls, remote button controls and link button controls in ASP.Net framework and successfully completed Practical-9.