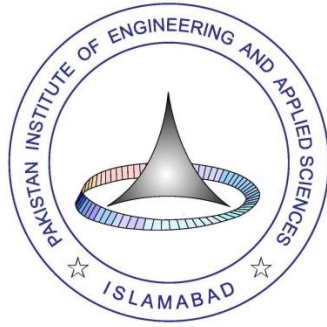


*Pakistan Institute of Engineering and Applied Sciences, Islamabad*  
*Department of Computer and Information Science*



# Internet Application Development

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*Lab Assignment no. 05*

*Submitted By*

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*Session (21-25)*

## **Problem 02:**

Using Html server controls develop a web form that displays a rectangle.

Write appropriate event handler code that detects the location at which the user has clicked.

### **circle.aspx:**

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

```
<!DOCTYPE html>
```

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

```
<head runat="server">
```

```
<title></title>
```

```
</head>
```

```
<body>
```

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

```
<div>
```

```
<!-- Adding an ImageButton server control -->
```

```
<asp:ImageButton ID="Circle" runat="server" ImageUrl="cimage.jpg" Height="360px"
Width="360px" OnClick="Circle_Click" />
```

```
<asp:Label ID="Result" runat="server"></asp:Label>
```

```
</div>
```

```
</form>
```

```
</body>
```

```
</html>
```

## circle.aspx.vb:

Partial Public Class circle

Inherits System.Web.UI.Page

' This event handler will be triggered when the circle image button is clicked

Protected Sub Circle\_Click(ByVal sender As Object, ByVal e As ImageClickEventArgs)

' Calculate the relative coordinates of the click event

Dim centerX As Integer = Circle.Width.Value \ 2

Dim centerY As Integer = Circle.Height.Value \ 2

Dim relativeX As Integer = e.X - centerX

Dim relativeY As Integer = centerY - e.Y ' Y-coordinate is flipped in screen coordinates

' Calculate distance from center (radius) using Cartesian coordinates

Dim radius As Double = Math.Sqrt(relativeX ^ 2 + relativeY ^ 2)

' Identify the region based on Cartesian coordinates

Dim region As String = ""

If radius <= 40 Then

    region = "Center"

ElseIf radius <= 80 Then

    region = "Middle"

Else

    region = "Outer"

End If

' Output the result

Result.Text = "You clicked at (" & e.X.ToString() & ", " & e.Y.ToString() & ")."

Result.Text &= " Relative to circle center: (" & relativeX.ToString() & ", " &  
relativeY.ToString() & "). "

Result.Text &= "Region: " & region

End Sub

End Class