

Demonstration of ASP.NET Page Processing

Develop a page to demonstrate various events which are raised and handled during ASP.NET Page processing once the page object has been created? Develop a story about it?

Code Behind File:

```
Partial Class _Default

    Inherits System.Web.UI.Page

    Private Sub form1_Init(sender As Object, e As EventArgs) Handles form1.Init
        If IsPostBack Then
            Label1.Text &= "<br/>Page Initialization Event Occurred (PostBack)<br/>"
        Else
            Label1.Text &= "<br/>Page Initialization Event Occurred (First Load)<br/>"
        End If
    End Sub

    Private Sub form1_Load(sender As Object, e As EventArgs) Handles form1.Load
        If IsPostBack Then
            Label1.Text &= "Page Load Event Occurred (PostBack)<br/>"
        Else
            Label1.Text &= "Page Load Event Occurred (First Load)<br/>"
        End If
    End Sub

    Private Sub form1_PreRender(sender As Object, e As EventArgs) Handles
form1.PreRender
        If IsPostBack Then
```

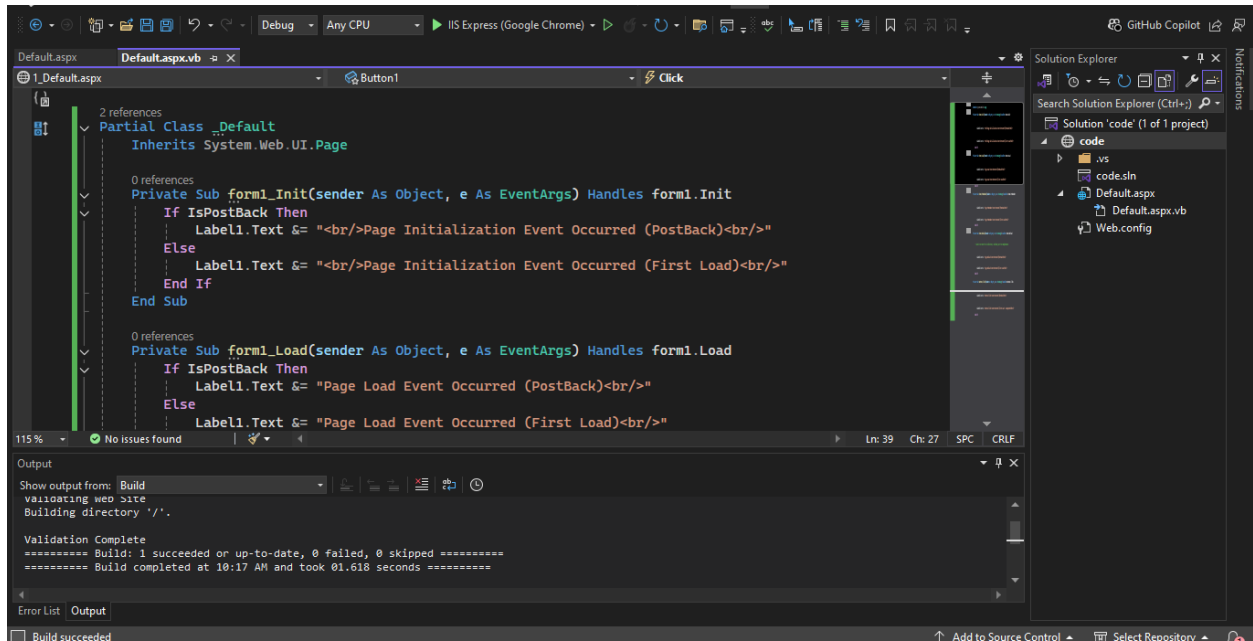
```

        Label1.Text &= "Page PreRender Event Occurred (PostBack)<br/>"
    Else
        Label1.Text &= "Page PreRender Event Occurred (First Load)<br/>"
    End If
End Sub

Private Sub form1_Unload(sender As Object, e As EventArgs) Handles form1.Unload
    ' Label1 text won't be visible here, included just for completeness
    If IsPostBack Then
        Label1.Text &= "Page Unload Event Occurred (PostBack)<br/>"
    Else
        Label1.Text &= "Page Unload Event Occurred (First Load)<br/>"
    End If
End Sub

Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
    If IsPostBack Then
        Label1.Text &= "Button Click Event Occurred (PostBack)<br/>"
    Else
        Label1.Text &= "Button Click Event Occurred (First Load - unexpected)<br/>"
    End If
End Sub
End Class

```



Default.aspx file

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

```
<!DOCTYPE html>
```

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

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

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

```
</head>
```

```
<body>
```

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

```
        <div>
```

```
            <br>
```


<asp:Button ID="Button1" runat="server" Text="Button" Width="80px" />

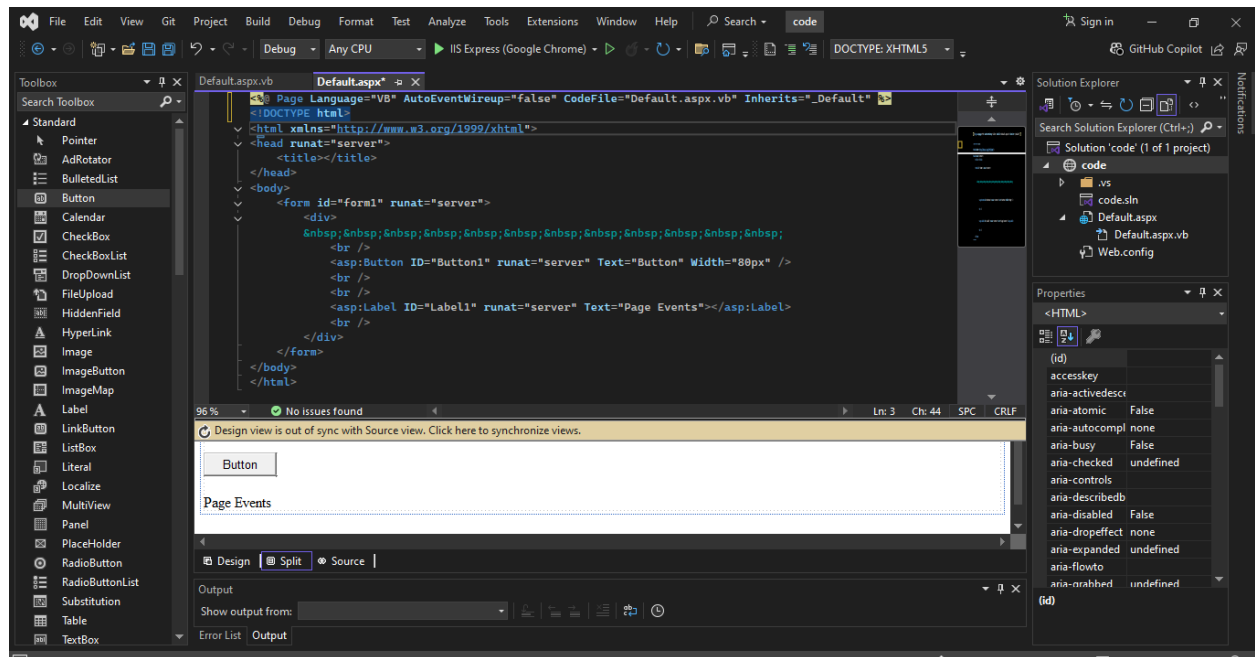
<asp:Label ID="Label1" runat="server" Text="Page Events"> </asp:Label>

</div>

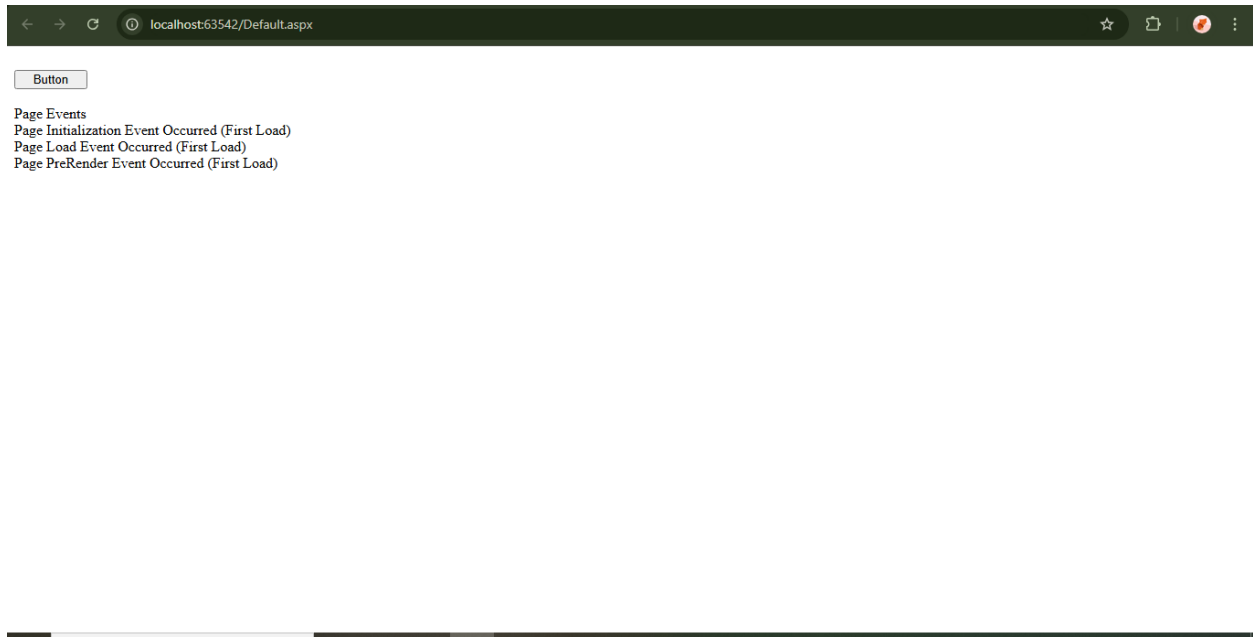
</form>

</body>

</html>



Web Page



Page Initialization: This is the very first event that happens when a page is requested. It sets up the page's controls, but the page is not yet visible to the user.

Page Load: After initialization, this event occurs. It's where the page starts getting loaded with data, user controls, and any initial content. It's like the page being filled with all the necessary information.

Page PreRender: This event occurs just before the page is rendered (or sent) to the user's browser. At this point, html page is generated.

Page Unload: After the page has been rendered and the user is done with it, this event is triggered to clean up and release any resources. The label string in the unload event handler does not get displayed because the html page gets rendered before the page unload event so the

- **Button Click:** This event is separate from the page lifecycle. It occurs when the user interacts with a button on the page. When the button is clicked, the request is sent to the server where the page is loaded again, (the page initialization event only occurs for the first time the page is requested) then the event handler for button click runs. After this the page prerender events occur. After page unload event the rendered page is displayed on the web.

