

Internet Application Development

Lab No 2:

Name Jalal Ahmed

Problem statement:

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 implementation :

Frontend:

```
<%@ Page Language="VB" AutoEventWireup="true" CodeFile="pageevent.aspx.vb"
Inherits="Pageevent" %>

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>The Life of a Web Page</title>
    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
" rel="stylesheet" />
    <style>
        body {
            background-color: #eef2f5;
            font-family: 'Segoe UI', sans-serif;
            padding: 50px;
        }
        .card {
            max-width: 600px;
            margin: auto;
            box-shadow: 0 4px 12px rgba(0, 0, 0, 0.1);
        }
        .card-header {
            background-color: #0d6efd;
            color: white;
            font-size: 1.5rem;
            text-align: center;
        }
        .card-body {
            background-color: #ffffff;
        }
        .event-log {
```

```

        font-family: Consolas, monospace;
        color: #0d6efd;
        padding: 10px;
        background-color: #f1f8ff;
        border-radius: 5px;
        min-height: 120px;
    }
    .btn-primary {
        width: 100%;
    }
</style>
</head>
<body>
    <form id="form1" runat="server">
        <div class="card">
            <div class="card-header">
                Page's Life cycle Story
            </div>
            <div class="card-body">
                <p>This page is alive! Click the button below to
interact.</p>
                <asp:Label ID="lblEvents" runat="server" CssClass="event-
log"></asp:Label>
                <asp:Button ID="btnClickMe" runat="server" CssClass="btn btn-
primary mt-3" Text="Let's Interact!" OnClick="btnClickMe_Click" />
            </div>
        </div>
    </form>
</body>
</html>

```

Backend:

Partial Class Pageevent

Inherits System.Web.UI.Page

Protected Overrides Sub OnInit(e As EventArgs)

Log("1: page initialization occurred")

MyBase.OnInit(e)

End Sub

Protected Sub Page_Load(sender As Object, e As EventArgs) Handles Me.Load

Log("2: Page_Load occurred")

End Sub

Protected Sub btnClickMe_Click(sender As Object, e As EventArgs)

Log("3: Button Clicked")

End Sub

Protected Overrides Sub OnPreRender(e As EventArgs)

Log("4: OnPreRender")

MyBase.OnPreRender(e)

End Sub

```
Private Sub Log(message As String)
    lblEvents.Text &= message & "<br/>"
End Sub
End Class
```

output:

