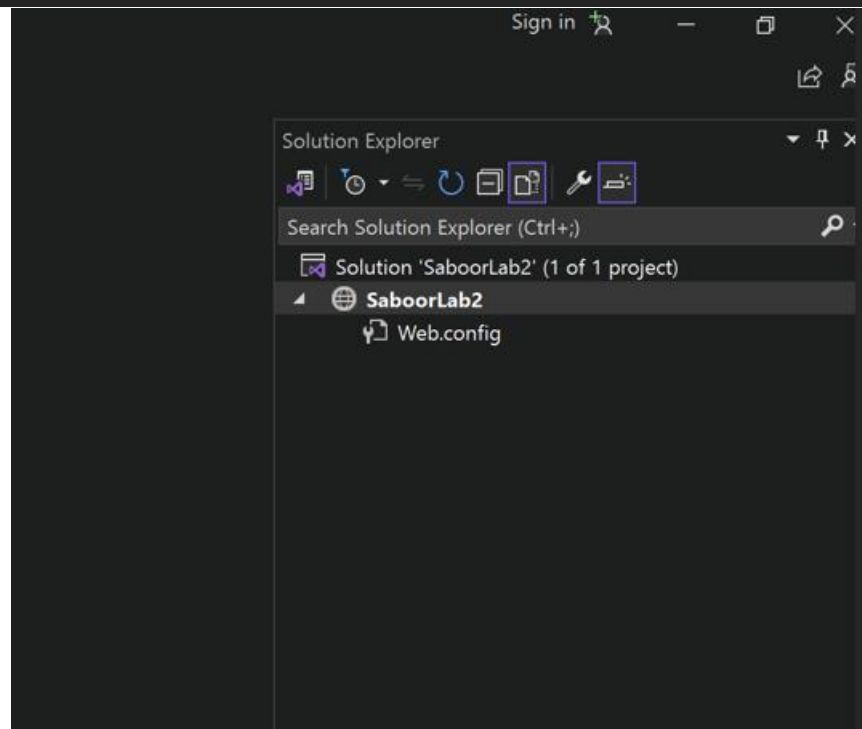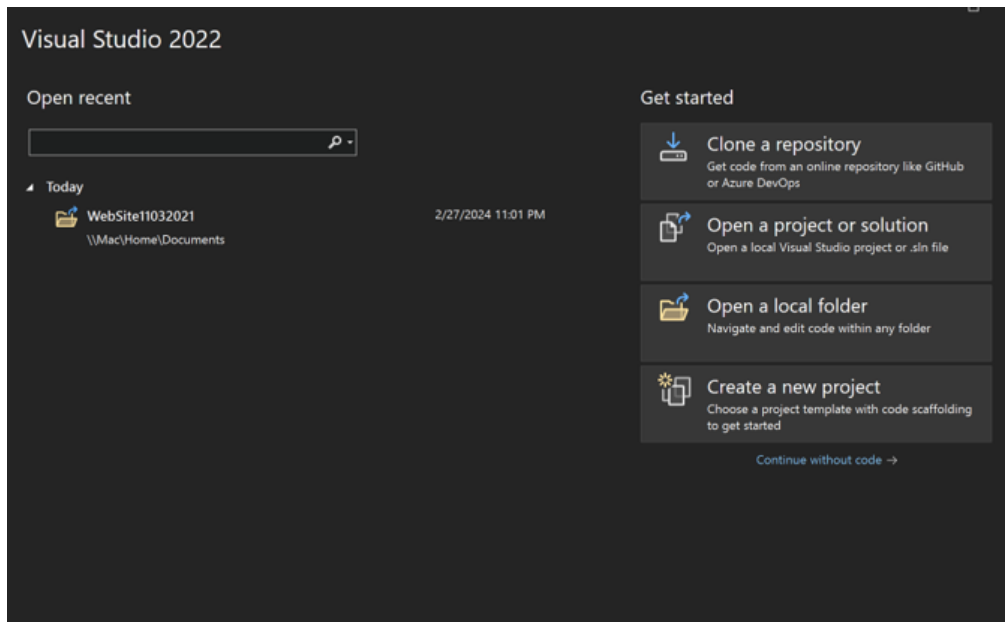# Rao Abdul Saboor
Date: 28 February 2024

Internet Application Development
Lab No 2:
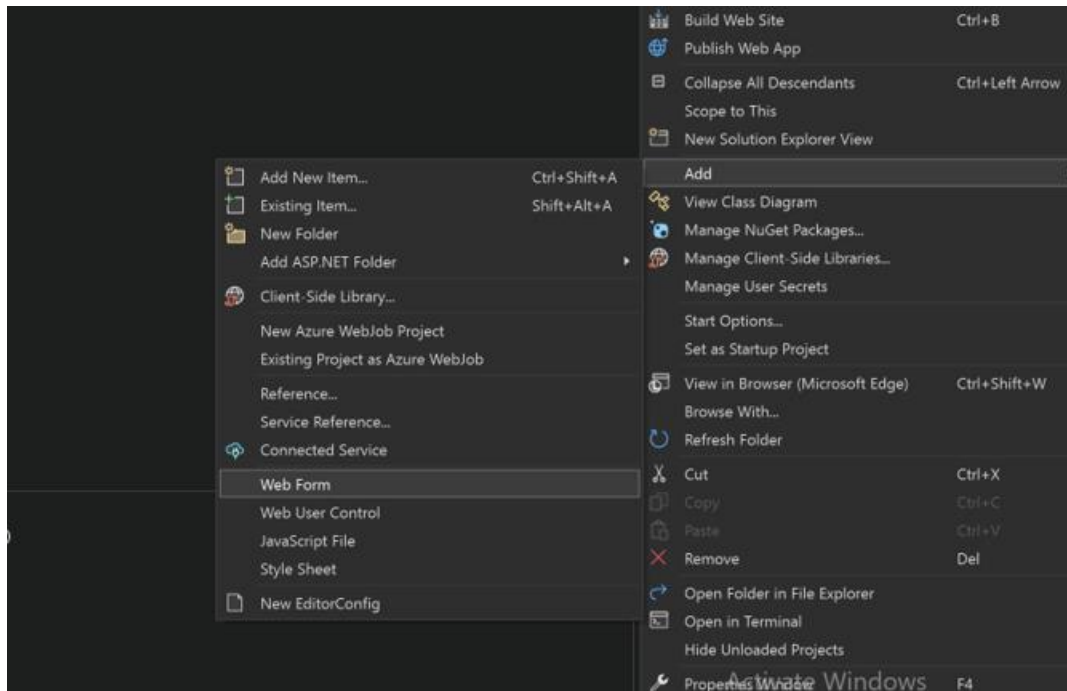
Creating a Web Application Project in VS

1. Create an Empty folder on desktop.

2. Start Visual Studio and Open Website Option From File then Open.
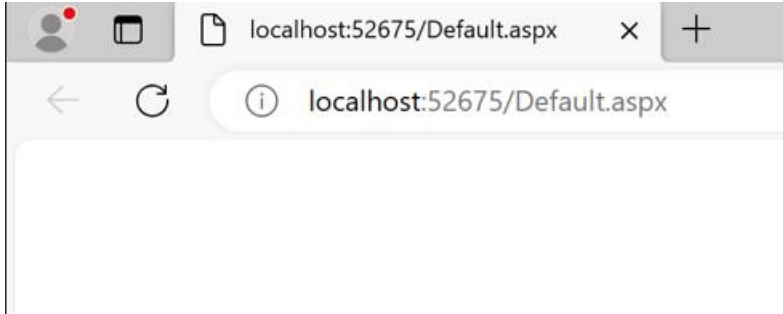
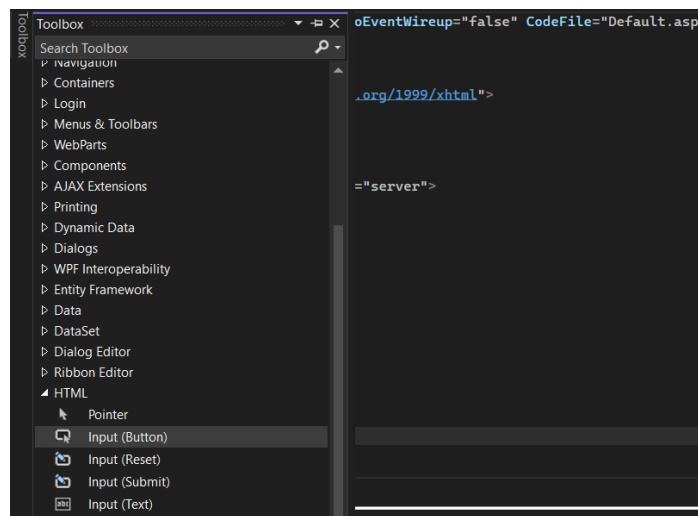3. Add New Item as Webform in Solution explorer.

4. Source and Code View

5. Clicking on play loads page in the browser

6. Add the HTML Tags from Toolbox & also Event Handlers.

Part 2:
Demonstration of ASP.NET Page Processing

Q-1) 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?

To demonstrate the various events raised and handled during ASP.NET Page processing, we are going to create a ASP.NET Web Forms page.

The basic event handler execution flow is given as follow:

```
2 references
Partial Class _Default
    Inherits Page

    0 references
    Protected Sub Page_Load(sender As Object, e As EventArgs) Handles Me.Load
        Response.Write("<br/>Page Load")
    End Sub

    0 references
    Private Sub Page_PreRender(sender As Object, e As EventArgs) Handles Me.PreRender
        Response.Write("<br/>PagePre Rendered...")
    End Sub

    0 references
    Private Sub Page_Unload(sender As Object, e As EventArgs) Handles Me.Unload
        ' Response.Write("<br/>Page UnLoad")
    End Sub

    0 references
    Protected Sub Page_Init(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Init
        Response.Write("<br/>Page Init")
    End Sub
```

When you run this page, you will see displaying the names of the events in the order they are raised during the ASP.NET Page processing lifecycle.

```
Page Init
Page Load
PagePre Rendered...
[button] [                    ]
```

➢ Various event raised(event handler)

➢ Page Initialization (Page_Init):

    i.   The Page_Init event is raised when the page is initialized.
    ii.   Displays "Page Init" and initializes TextBox content.

➢ Page Loading (Page_Load):

    i.   The Page_Load event is raised when the page is loaded into memory.
    ii.   Displays "Page Load" in the message div.

➢ Page Pre-render :
  i.   The Page Prerender event is raised just before the page is rendered to the client.
  ii.   Updates TextBox content based on postback.

➢ Page Unloading (Page_Unload):
  i.   The Page_Unload event is raised after the page has been fully rendered and sent to the client.
  ii.   Displays "Page Unload" in the message div.
  iii. It is displayed when the page object has been destroyed.

```vbnet
2 references
Partial Class _Default
    Inherits Page

    0 references
    Protected Sub Page_Load(sender As Object, e As EventArgs) Handles Me.Load
        'Response.Write("<br/>Page Load")

        msg.InnerHtml &= "<br/> Page Load"
    End Sub

    0 references
    Private Sub Page_PreRender(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.PreRender
        'Response.Write("<br/>PagePre Rendered...")

        If Me.IsPostBack = False Then
            Text1.Value = "It's confirmed that page is pre rendered during FIRST REQUEST"
        Else
            Text1.Value = "It's confirmed that page is pre rendered during POSTBACK"
        End If

        msg.InnerHtml &= "<br/> Page Pre Render"
    End Sub

    0 references
    Private Sub Page_Unload(sender As Object, e As EventArgs) Handles Me.Unload
        ' Response.Write("<br/>Page UnLoad")

        msg.InnerHtml &= "<br/> Page Unload"
    End Sub
```

```vbnet
    0 references
    Protected Sub Page_Init(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Init
        'Response.Write("<br/>Page Init")

        If Me.IsPostBack = False Then
            Text1.Value = "It's confirmed that page is initialized during FIRST REQUEST"
        Else
            Text1.Value = "It's confirmed that page is initialized during POSTBACK"
        End If

        msg.InnerHtml &= "<br/> Page Init"
    End Sub

    0 references
    Private Sub Button1_Click(ByVal sender As Object, ByVal e As EventArgs) Handles Button1.ServerClick
        'Text1.Value &= "123"

        msg.InnerHtml &= "<br/>123"
    End Sub
End Class
```

It is confirmed that page Pre Render has occurred during FIRST REQUEST

Page Init
Page Load
Page Pre Render

button

It is confirmed that page Pre Render has occurred during POSTBACK

Page Init
Page Load
Page Pre Render
Page Load
123
Page Pre Render
Page Load
123
Page Pre Render

button