



Bahria University
Discovering Knowledge

BAHRIA UNIVERSITY, (Karachi Campus)

Department of Software Engineering

ASSIGNMENT#02 – Spring 2021

COMPLEX ENGINEERING PROBLEM

Course Title: **Web Engineering**
Class: **BSE – 6(A,B)**
Course Instructor: **ENGR. M. ADNAN UR REHMAN**
Time Allowed: **1 WEEK**

Course Code: **SEN-310**
Shift: **Morning**
Date: **07-Jun-2021**

Note: -

➤ This is a group assignment. A group consists up to 3 members. Submission is only one member of the group. Upon completion you have to submit a compressed ZIP file containing the following:

1. **This title page file** **.docx** after filling the group names and output of your program
2. **Project Folder** Cleaned project folder.

GROUP MEMBERS

S.No.	Student Name	Enrolment#
1	Syeda Bushra Naqvi	02-131182-055
2	Mahnoor Gohar	02-131182-023
3	Qaiser Abbas	02-131182-030

[CLO-3; 20 Points]

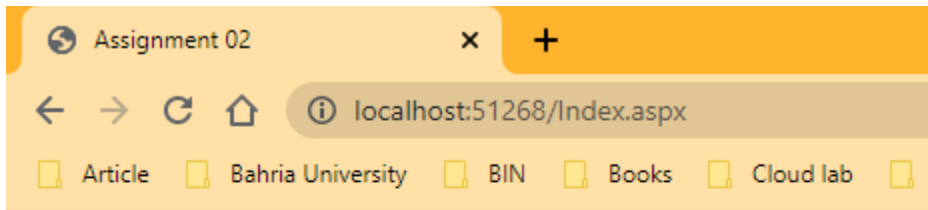
Task: Create a web application having **three** pages with the following properties:

1. Page1.aspx:

- This page must contain a button by which value of a shared integer counter can be increased.
- Value of the integer counter must be shared among all the users of your web application i.e. if any user increase the counter, the counter value will be increased for all users.

```
protected void Button1_Click(object sender, EventArgs e)
{
    if (Application["x"] == null)
    {
        Application["x"] = 1;
    }
    else
    {
        Application["x"] = (int)Application["x"] + 1;
    }
    Response.Write("value of a shared integer " + (int)Application["x"]);
}
```

Output:



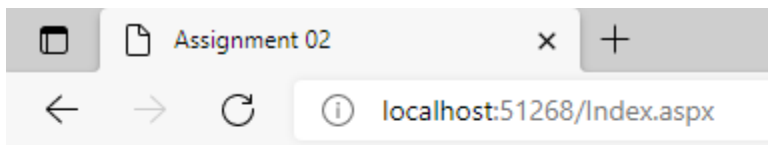
value of a shared integer 13

Assignment Page 01

Click Me



By checking on another browser:



value of a shared integer 14



Assignment Page 01

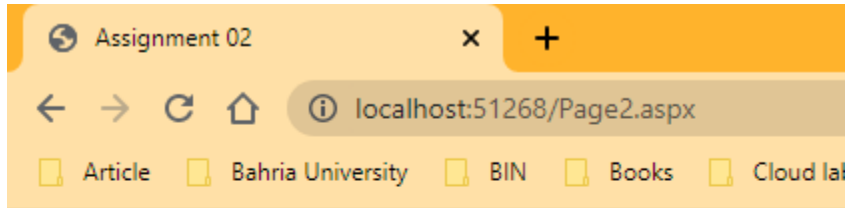
Click Me

2. Page2.aspx:

- This page must contain a button by user can increase the value of his/her integer counter.
- Value of the integer counter must be private for all the users i.e. increment of one user's counter must not affect another.

```
protected void Button1_Click(object sender, EventArgs e)
{
    if (Session["x"] == null)
    {
        Session["x"] = 1;
    }
    else
    {
        Session["x"] = (int)Session["x"] + 1;
    }
    Response.Write("value of a shared integer " + (int)Session["x"]);
}
```

Output:

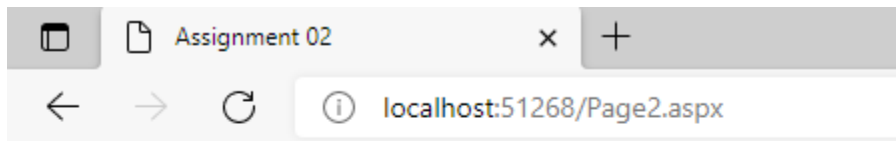


value of a shared integer 7

Assignment Page 02

Click me

By checking on another browser:



value of a shared integer 1

Assignment Page 02

Click me

3. Page3.aspx:

- Initially on first visit, page must show a time on which it will be expired.
- This page must be expired after specific time (after 5 seconds) if user revisited.
- User must be displayed “page expired” message.

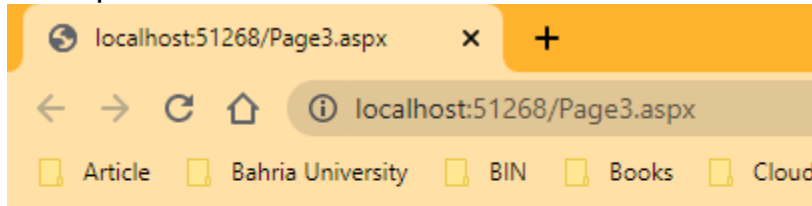
```
protected void Page_Load(object sender, EventArgs e)
{
    if (Session["Seconds"] == null)
    {
        HttpCookie cookie = new HttpCookie("ExpirationCookie");
        cookie.Expires = DateTime.Now.AddSeconds(5);

        Response.Cookies.Add(cookie);
        Session["Seconds"] = Response.Cookies["ExpirationCookie"].Expires.Second;
    }

    int TimeLeft = (int)(Session["Seconds"] - DateTime.Now.Second);
    if (TimeLeft > 0)
    {
        Response.Write("This Page is expiring after " + TimeLeft + " Seconds");
    }
}
```

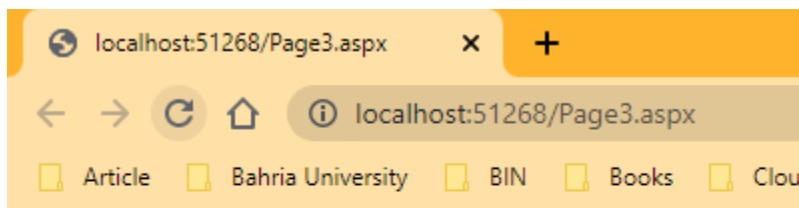
```
}  
else  
{  
    Response.Write("page expired");  
}  
}
```

Output:



This Page is expiring after 5 Seconds

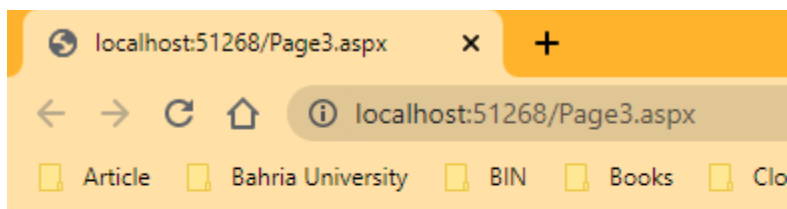
Assignment Page 03



This Page is expiring after 2 Seconds

Assignment Page 03

After 5 seconds:



page expired

Assignment Page 03

Note: As the file size is greater than 15 Mbs. It can not be uploaded on LMS. So, we are providing a GitHub repository URL that contain all the code.

<https://github.com/iKaiserAbbas/WebForm-in-Asp.net.git>