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|  | **BAHRIA UNIVERSITY,**  **(Karachi Campus)**  *Department of Software Engineering*  **ASSIGNMENT#02 – Spring 2021**  **COMPLEX ENGINEERING PROBLEM** |

Course Title: **Web Engineering** Course Code: **SEN-310**

Class: **BSE – 6(A,B)** Shift: **Morning**

Course Instructor: **Engr. M. Adnan Ur Rehman** Date: **07-Jun-2021**

Time Allowed: **1 Week**

***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.

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| **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:**

Graphical user interface, text, application

Description automatically generated

By checking on another browser:

Graphical user interface, text, application

Description automatically generated

1. **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:**

Graphical user interface, text, application

Description automatically generated

By checking on another browser:

Graphical user interface, text, application

Description automatically generated

1. **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:**

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated

**After 5 seconds:**

Graphical user interface, application, Word

Description automatically generated

**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/iQaiserAbbas/WebForm-in-Asp.net.git