using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace WebApplication4

{

public partial class WebForm1 : System.Web.UI.Page

{

protected void Page\_PreInit(object sender, EventArgs e)

{

// Setting Master Page / Themes dynamically

// Response.Write("PreInit fired");

}

protected void Page\_PreLoad(object sender, EventArgs e)

{

// Response.Write("Pre Load fired");

}

protected void Page\_Load(object sender, EventArgs e)

{

if (IsPostBack)

{

Response.Write("Post Back happend");

}

else

{

Response.Write("Post back not happened");

}

}

}

}

Whenever a requrst is sent to server rom clinet , connection is established

In 2 ways (stateless , statefull)

State Management : To preserve or keep values of controls across different pages

http is stateless and connection less protocol

stateful : server / manager keeps information/request of client / employee with him

connection – oriented :

tcp

For managing / remembering the state, we have some techinques

Client Side : Cookies , QueryString , Hidden Fields , ViewState

Server Side : Session , Application

URL : Uniform Resource Locator

QueryString : Value is appended to the URL

We add vlues by usinh ? with the URL

protected void Button1\_Click(object sender, EventArgs e)

{

Response.Redirect("WebForm2.aspx?firstname="+ TextBox1.Text);

}

How do we access it

protected void Page\_Load(object sender, EventArgs e)

{

if(Request.QueryString["firstname"]!=null)

{

Response.Write(Request.QueryString["firstname"].ToString());

}

}

// Passing more than value

protected void Button1\_Click(object sender, EventArgs e)

{

// Response.Redirect("WebForm2.aspx?firstname="+ TextBox1.Text);

Response.Redirect("WebForm2.aspx?firstname=" + TextBox1.Text + "&lastname=" + TextBox2.Text);

}

if(Request.QueryString["firstname"]!=null)

{

Response.Write(Request.QueryString["firstname"].ToString());

}

if (Request.QueryString["lastname"] != null)

{

Response.Write(Request.QueryString["lastname"].ToString());

}

Cookies

Small text files which are stored on the browser itself

protected void Button2\_Click(object sender, EventArgs e)

{

HttpCookie cookie = new HttpCookie("cookei");

cookie["firstname"] = TextBox1.Text;

cookie["lastname"] = TextBox2.Text;

Response.Cookies.Add(cookie);

Response.Redirect("WebForm2.aspx");

}

// For Cookies

HttpCookie cookie1 = Request.Cookies["cookei"];

if (cookie1 != null)

Label1.Text = cookie1["firstname"].ToString();

Label2.Text = cookie1["lastname"].ToString();

Session Variables

protected void Button3\_Click(object sender, EventArgs e)

{

Session["firstname"] = TextBox1.Text;

Session["lastname"] = TextBox2.Text;

Response.Redirect("WebForm2.aspx");

}

if (Session["firstname"] != null)

{

Label1.Text = Session["firstname"].ToString();

}

if (Session["lastname"] != null)

{

Label2.Text = Session["lastname"].ToString();

}

<https://www.c-sharpcorner.com/UploadFile/2072a9/state-management-in-Asp-Net/>

View State :