**Use a cookie collection to persist user information and set scope and lifetime to save the last chosen category**

1. On postback,

* Create a cookie object called **Preferences** that holds the current product category,
* Saved as a value named **LastCategory**.
* Make sure that the cookie will expire after one minute.
* The cookie must be appended to the response.

**[Visual C#]**

else

{

if (lbCategories.SelectedIndex != -1)

{

string category = lbCategories.SelectedValue;

**HttpCookie cookie = new HttpCookie("Preferences");**

**cookie["LastCategory"] = category;**

**cookie.Expires = DateTime.Now.AddMinutes(1);**

**Response.AppendCookie(cookie);**

Response.Redirect("/Products.aspx?id=" + category);

}

}

In the **Default**/**\_Default** class, add the following code to the **Page\_Load** event handler.

**HttpCookie cookie = new HttpCookie("Preferences");**

**cookie["LastCategory"] = category;**

**cookie.Expires = DateTime.Now.AddMinutes(1);**

**Response.AppendCookie(cookie);**

else

{

if (lbCategories.SelectedIndex != -1)

{

string category = lbCategories.SelectedValue;

If the page is rendered for the first time, add code to check that a cookie named **Preferences** exists in the request cookie collection, and if there is, read the **LastCategory** value from the cookie, and assign it to the **SelectedValue** property of the **ListBox** control.

if (!Page.IsPostBack)

{

List<ProductCategory> data = DataAccessLayer.Products.GetCategories();

lbCategories.DataSource = data;

lbCategories.DataBind();

**HttpCookie cookie = Request.Cookies["Preferences"];**

**if (cookie != null)**

**{**

**lbCategories.SelectedValue = cookie["LastCategory"];**

**}**

}

In the **Default**/**\_Default** class, add the following code to the **Page\_Load** event handler.

HttpCookie cookie = Request.Cookies["Preferences"];

if (cookie != null)

{

lbCategories.SelectedValue = cookie["LastCategory"];

}

After the following code:

if (!Page.IsPostBack)

{

List<ProductCategory> data = DataAccessLayer.Products.GetCategories();

lbCategories.DataSource = data;

lbCategories.DataBind();

**Store system-wide information in the Application object**

void Application\_Start(object sender, EventArgs e)

{

**Application["OnlineVisitors"] = 0;**

}

void Session\_Start(object sender, EventArgs e)

{

**Application.Lock();**

**int visitors = (int)Application["OnlineVisitors"];**

**visitors++;**

**Application["OnlineVisitors"] = visitors;**

**Application.UnLock();**

}

void Session\_End(object sender, EventArgs e)

{

**Application.Lock();**

**int visitors = (int)Application["OnlineVisitors"];**

**if (visitors > 0)**

**{**

**visitors++;**

**Application["OnlineVisitors"] = visitors;**

**}**

**Application.UnLock();**

}