# 5.2.0 – Looping Through Controls

#### Introduction

In the previous lesson, you were able to select a row from a ListView control and display the data on the MessageUserControl. In this lesson, you will be shown how to loop through all the rows of a ListView display summary information. In this lesson you will be modifying both the **ShoppingCart.aspx** and the **PurchaseOrder.aspx** web forms.

## ShoppingCart.aspx

#### ShoppingCart.aspx

What we want to do here is to create a summary of:

- Total number of products for sale by the category selected
- Total price of the products in the selected category

Add the following code below the ListView:

```
<br/><asp:Button ID="ListViewSummary" runat="server" Text="Category Summary" CssClass="btn
btn-primary" />
```

We need to add the OnClick parameter to this button:

```
<asp:Button ID="ListViewSummary" runat="server" Text="Category Summary" CssClass="btn btn-primary" OnClick="" />
v>
ObjectDataSource Control(s) -->
```

This will give us the following:

```
<asp:Button ID="ListViewSummary" runat="server" Text="Category Summary" CssClass="btn
btn-info" OnClick="ListViewSummary_Click"/>
```

Now, open the code behind file, **ShoppingCart.aspx.cs**, to see the new event method stub:

```
protected void ListViewSummary_Click(object sender, EventArgs e)
{
}
```

Modify this code to be:

```
Listing 1: ListViewSummary_Click Event Code
protected void ListViewSummary_Click(object sender, EventArgs e)
{
   int count = 0;
   decimal categoryPriceTotal = 0;
```

```
string msg;
//Loop through all the items in the ListView
foreach(ListViewDataItem item in ProductListLV.Items)
{
    count++;
    categoryPriceTotal += decimal.Parse((item.FindControl("PriceTextBox") as
TextBox).Text);
}//end foreach
    msg = "Number of " + CategoryListDDL.SelectedItem.Text + " Products: " +
count.ToString() + ", Category Price Total: " + categoryPriceTotal.ToString();
    MessageUserControl.ShowInfo("Category Summary", msg);
}//eom
```

Run the **ShoppingCart** web form, select a category, and your output should look like:

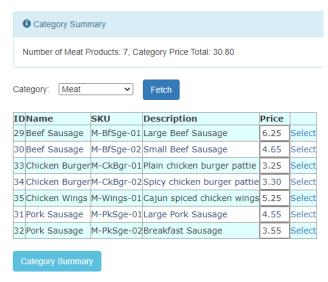


Figure 1: ListView Walk Through Output

#### PurchaseOrder.aspx

What we want to do here is to create a summary of:

- Total number of products for order by the supplier selected
- Total value of the products for the selected supplier

For a Product:  $Value = Cost \times QuantityOnHand$ 

As with **ShoppingCart.aspx**, you need to add a button below the ListView: We will need to add separate command buttons to the web form (outside of the ListView and GridView controls). Add the following code below the ListView control:

```
<br />
<asp:Button ID="SupplierSummary" runat="server" Text="Supplier Summary" CssClass="btn
btn-info" />
```

Add the OnClick parameter to this buttons, creating a new event. Code this event as shown below:

```
protected void SupplierSummary Click(object sender, EventArgs e)
}
The ListView walk through event code is:
Listing 2: ListView Walk Through Event Code
protected void SupplierSummary Click(object sender, EventArgs e)
    int count = 0;
    decimal inventoryCost = 0;
                                                                     Loop through all the
    string msg;
    foreach (ListViewDataItem item in ProductListLV.Items)
                                                                    Items of the ListView.
        inventoryCost += int.Parse((item.FindControl("QOHTextBox") as TextBox).Text) *
decimal.Parse((item.FindControl("CostTextBox") as TextBox).Text);
    }//end for
    msg = "Number of " + SupplierListDDL.SelectedItem.Text + " Products = " +
count.ToString() + ", Inventory Cost = " + inventoryCost.ToString();
    MessageUserControl.ShowInfo("Supplier Summary", msg);
```

The **Cost**, and **QOH** cells are read the same way we did previously

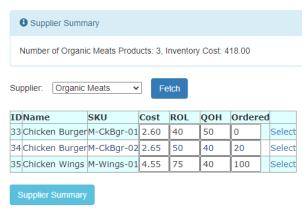


Figure 2: ListView Walk Through

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4	Α	В	С
1	Cost	QOH	Cost
2	2.60	50	130.00
3	2.65	40	106.00
4	4.55	40	182.00
5		Inv Cost	418.00
6			
_			

Figure 3: Calculation Check with Excel

## Uses for This Technique

Displaying the summary is a nice touch, but the process of looping through the controls is more useful when you want to collect all the information from a control, create a List<T>, and process the List<T> on this web form or in another file. A demonstration of this will be done in a later lesson.

### **Exercise**

Complete Exercise 5.2.1.