

1 **ListView and DataPager**

CST272—ASP.NET

2 **Templated Data Web Controls**

- ListView is a templated data Web control that *require* templates to fully configure its output
- Template-based controls can result in a much more flexible layout including:
 - Allow for a mix of HTML, Web controls and data binding syntax giving the developer almost complete control of the Web page
 - Price to pay for this control is that there is a lot more manual source coding

3 **The ASP:ListView Web Control**

- The asp:ListView Web control displays records from its data source grouped together or in pages (similar to the GridView)
- Format:


```
<asp:ListView ID = "ControlName"
  runat = "server"
  DataSourceID = "SqlDataSourceID">
  ListViewTemplates
</asp:ListView>
```
- Located in the Data group in the "Toolbox"

4 **The ASP:ListView Templates (Page 1)**

- LayoutTemplate—specifies the *entire layout* of the ListView control (required)
 - Rendered once for the entire control
 - Must include one control with ID= "itemPlaceholder"
 - Holds the place* in ListView layout (e.g. in the LayoutTemplate) for the contents of the ItemTemplate
 - May be an <asp:Placeholder> control (in the Standard group in the "Toolbox") or almost any other control
- ItemTemplate—renders one time for every record returned from the data source (required)

5 **ListViewManualTemplates.aspx (Insert LayoutTemplate and ItemTemplate)**

6 **ListViewManualTemplates.aspx (Insert LayoutTemplate and ItemTemplate)**

7 **The ASP:ListView Templates (Page 2)**

- Other Listview templates:
 - AlternatingItemTemplate—rendered in place of the ItemTemplate for every other row if specified
 - EditItemTemplate—renders format of the editing interface (if the ListView is configured for editing)
 - EmptyDataTemplate—renders if no records are returned from the data source
 - GroupTemplate—renders "grouping" information if the ListView control is

configured to render several ItemTemplates as a group

8 **The ASP:ListView Templates (Page 3)**

- Other Listview templates (con.):

- InsertItemTemplate—renders format of the inserting interface (if the ListView is configured for inserting)
- ItemSeparatorTemplate—renders elements entered between each ItemTemplate if specified

9 **ListViewManualTemplates.aspx (Insert “Other” Templates)**

10 **Sorting and the <ASP:LinkButton> Web Control (Page 1)**

- The asp:LinkButton Web control is used to create a hyperlink-style button
 - Has the same *appearance* as a Hyperlink control but the *functionality* of a Button control (executes commands)

11 **Sorting and the <ASP:LinkButton> Web Control (Page 2)**

- One or more <asp:LinkButtons> tags can be added to a ListView control to implement sorting
 - Inserted at any location within LayoutTemplate
- Found in the Standard group in the “Toolbox”

12 **Sorting and the <ASP:LinkButton> Web Control (Page 3)**

- The most important attributes which can be coded manually or set in the “Properties” window are:
 - Text—the text label for the link button
 - CommandName—the operation to be performed, in this case the Sort command
 - It also can be the name of a method/function developed in the C# code behind the page
 - CommandArgument—the field from the data source on which sorting is to be implemented

13 **ListViewManualTemplates.aspx (Insert “Sort” LinkButtons)**

14 **The <ASP:DataPager> Web Control (Page 1)**

- Renders a paging interface for various data Web controls on an ASP.NET form
 - Needed in the case of the ListView Web control because it does not have built-in paging
- Found in the Data group in the “Toolbox”

15 **The <ASP:DataPager> Web Control (Page 2)**

- To configure initially, click the smart tag to display the “DataPager Tasks” dialog window and select an option from the Choose Pager Style drop-down list
 - Next/Previous Pager—displays First, Previous, Next, and Last options
 - Numeric Pager—displays up to five numeric page links
- In the “Properties” window set:

- PageControlID—the ID of the Web control for which paging is to be implemented
- PageSize—number of pages displayed on one page

16 **The <ASP:DataPager> Web Control (Page 3)**

- The <Fields> block defines the controls in a Data Pager:
 - <asp:NextPreviousPagerField>
 - <asp:NumericPagerField>

17 **The <ASP:DataPager> Web Control (Page 4)**

- <Fields> example:

```
<Fields>
  <asp:NextPreviousPagerField
    ShowFirstPageButton="True"
    ShowNextPageButton="False"
    ShowPreviousPageButton="False"
    ButtonType="Button" />
  <asp:NumericPagerField />
  <asp:NextPreviousPagerField
    ShowLastPageButton="True"
    ShowNextPageButton="False"
    ShowPreviousPageButton="False"
    ButtonType="Button" />
</Fields>
```

18 **ListViewManualTemplates.aspx (Insert DataPager Web Control)**

19 **Using the Configure ListView Option**

- The templates can be configured automatically by using the “Configure ListView” dialog window
- Click the smart tag to display the “ListView Tasks” dialog window
 1. Perform Configure Data Source... option as usual
 2. Then click the Configure ListView... command
 3. Make your choices for both the Select a Layout: and Select a Style: options
 4. Click “on” the check boxes to enable Editing, Inserting, Deleting and Paging options if appropriate
 5. Click the <OK> button