#### **ASP.NET**

#### Lecture 14

CS 638 Web Programming



#### Review



- □ ASP = Active Server Pages
  - □ ASP here refers to ASP.NET, not original ASP
- □ ASP pages have HTML and ASP controls
- □ ASP controls are members of a class that is built for you can access them from program code that is associated with the ASP page
- Controls can raise events / cause postbacks
- Processing of a page has many steps in its lifecycle on the server

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#### **ASP.NET Project Creation**



- □ Start VS 2005
- □ New->Web Site
- □ Select ASP.NET Web Site
- □ Fill in location
- □ Hit OK
- An "empty" default.aspx page is created and shown.

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## Adding an ASP.NET control



- □ Hover or click on Toolbox
- Click and hold on "Label"
- Drag to desired location in aspx file (between the "div" statements in this case)
- Change ID of control to "lblTime"
- Debug / Run web page (F5)
- Say yes to creating a web config setting
- Browser appears with page loaded

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#### If IE is not Default Browser



- If a browser other than Internet Explorer comes up, do this:
  - □ Switch back to VS2005
  - □ Hit Shift-F5 (kills currently running debug session)
  - □ Click or hover over Solution Explorer
  - □ Right click on default.aspx
  - □ Click on "Browse With"
  - □ Select Internet Explorer and set it to default
  - □ Hit OK and rerun page (F5) IE should come up

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## Debugging an ASP.NET page



- □ While still viewing page, hit reload (Ctrl-R)
- Page reloads
- □ Switch to VS2005
- □ Right click to bring up context menu
- □ Select "View code"
- □ default.aspx.cs comes up
- Put breakpoint (F9) on closing brace of Page\_Load

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#### Debugging an ASP.NET page



- □ Switch back to browser
- Reload page
- Execution of the page halts at the breakpoint moving VS2005 to front
- Continue execution with F5
- Browser comes to front
- □ Close browser window VS2005 comes back – debugging is terminated
- Remove breakpoint (F9 again when on line)

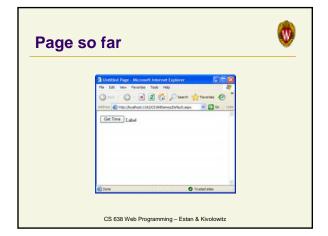
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#### **Adding Another Control**



- □ Looking at default.aspx, place (click) cursor before opening "<" of the ASP label
- Click or hover over Toolbox
- Double click on Button
- Button appears where cursor was positioned
- Change ID to "btnSubmit" and Text to "Get Time"
- □ Run page should look like this...

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#### **Add Event Handler**



- Terminate debugging of page
- View default.aspx
- □ At bottom click "Design"
- □ A WYSIWYG preview of your page comes up
- □ Double click on the button
- View switches to default.aspx.cs
- □ VS2005 adds an event handling stub for you

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# Add Event Handler



- Enter:
  - lblTime.Text = DateTime.Now.ToShortTimeString();
- □ Run page (F5)
- Click on button
- □ Should see:



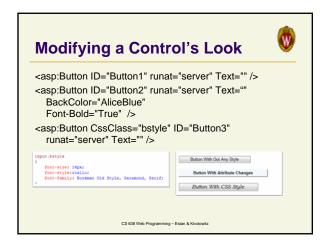
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### **Modifying Control's Look**



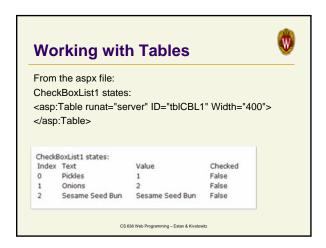
- ASP.NET control offer many options for modifying their look
- Modifications can be declared right along with the control's declaration
- □ Controls can also reference CSS styles

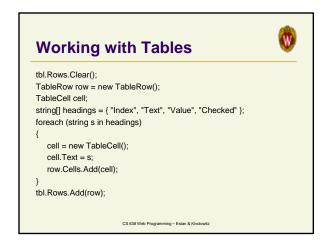
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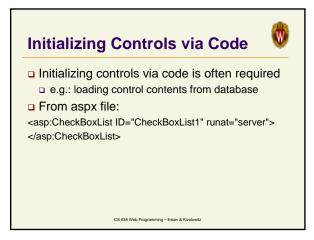






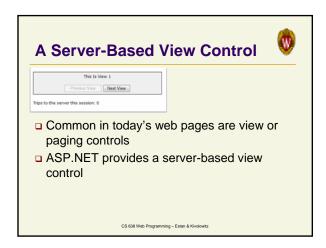






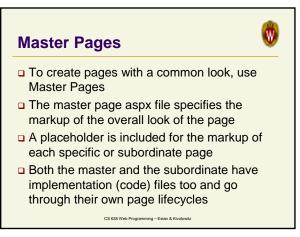
```
Initializing Controls via Code

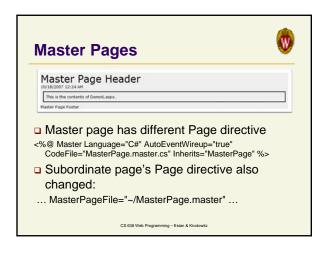
Listtem[] cbrecords = { new Listtem("Pickles", "l"), new Listtem("Chions", "
protected void Fage_Load(object sender, EventArgs e)
{
    if ('IsPostBack)
    {
        InitializeCheckBoxList(cbrecords, CheckBoxList1);
    }
    DumpCheckBoxList(CheckBoxList, tblCBL1);
}
private void InitializeCheckBoxList(ListTem[] records, CheckBoxList cbl)
{
    cbl.Items.Clear();
    foreach (ListTem r in records)
    {
        cbl.Items.Add(r);
    }
}
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```











# **Master Pages**



- Master page includes:
  - <asp:contentplaceholder id="ContentPlaceHolder1" runat="server"> </asp:contentplaceholder>
- □ Subordinate pages include:
- <asp:Content ID="Content1"
  ContentPlaceHolderID="ContentPlaceHolder1" Runat="Server">
- </asp:Content>

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