FIT5192 Module 2
Internet Applications Development
Lecture 6

Lecture Overview

1. Introduction
2. Master Pages
3. Themes and Skins

Introduction

Master Pages motivation

Designed in ASP.NET 2.0
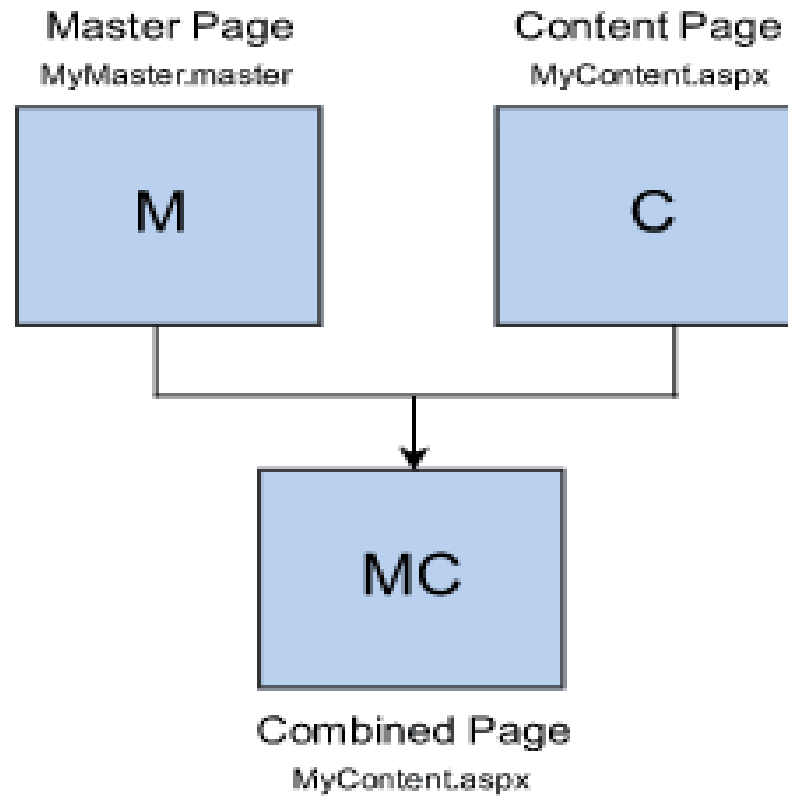
>> Separates common page components of a website

>> Clearly identifies areas that change from page to page

An IDE like Visual Studio can help show the areas that are editable

When a user calls the page, the different parts -Master and page content are merged

Partial Classes

Component partial classes merged

Using Master Pages

A Master Page has the Default look of the website

- A content place holder shows where the variable content will be placed

```
<%@ Master Language="C#" %>

<html>   <head runat="server”><title><title><head>
<body>
  <h3>The Master page</h3>
    <form id="form1" runat="server">
      <asp:ContentPlaceHolder ID="ContentPlaceHolder1"
        runat="server" />
    </form>
</body> </html>
```

The Content Page

The content page links to the Master page

    Has one or more content controls

```
<%@ Page Language="C#"     MasterPageFile="example.master"
    Title="ASP.NET Master Page Example"%>


<asp:Content ID="Content1"
ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
 <asp:Label ID="lbl1" runat="server" Text="This is the content page"/>
</asp:Content>
```

Multiple ContentPlaceHolder's

Master Page for Multiple ContentPlaceHolders

```
<%@ Master Language="C#" %>
<html>   <head runat="server">     <title></title>  </head>
  <body>
  <h3>The Master page</h3>
   <form id="form1" runat="server">
    <asp:ContentPlaceHolder  ID="ContentPlaceHolder1"
      runat="server" />
    <p /><hr />
    <asp:ContentPlaceHolder  ID="ContentPlaceHolder2"
      runat="server" />
   </form>  </body></html>
```

Content Page for Multiple ContentPlaceHoders

```
<%@ Page Language="C#" MasterPageFile="example0102.master"
  Title="ASP.NET Master Page Example"%>

<asp:Content ID="mainContent"
  ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
  Main content. </asp:Content>

<asp:Content ID="footerContent"
  ContentPlaceHolderID="ContentPlaceHolder2" runat="server">
  Footer content. </asp:content>
```

More Complex Master Pages

Running the Head Tag at the Server

```
<head id="Head1" runat="server">
  <title></title>
</head>
```

In the Content Page

```
<%@ Page Language="C#"
MasterPageFile="example0103.master"
  Title="Products"%>
```

Adding EventHandlers

e.g.

```
void Page_Load(object sender, EventArgs e)
{
  litBannerTitle.Text = Page.Title;
  lblDate.Text = DateTime.Now.ToLongDateString();
}
```

MONASH
University

Laying Out Master Page with Table

```
<table cellpadding="0" cellspacing="0">
<tr>
  <td class="bordertxt" colspan="3" height="20"></td>
</tr>
<tr>
  <td class="bannertxt"><img src="pix/BillnBenLeft.gif" /></td>
  <td class="bannertxt">
    Bill n' Ben's Nursery<br />
    <asp:Literal ID="litBannerTitle" runat="server" />
  </td>
  <td class="bannertxt">
    <img src="pix/BillnBenRight.gif" />
  </td>
</tr>
```

Laying Out Master Page with Table (Part2)

```
<tr>
 <td class="bordertxt" colspan="3" height="20"></td>
</tr>
<tr>
 <td valign="top" class="bordertxt" style="height: 340px">
  <asp:HyperLink ID="hl1" runat="server"
    NavigateUrl="products.aspx" Text="Products" />
  <p />
  <asp:HyperLink ID="hl2" runat="server"
    NavigateUrl="customers.aspx" Text="Customers" />
  <p />
  <asp:HyperLink ID="hl3" runat="server"
    NavigateUrl="orders.aspx" Text="Orders" />
 </td>
```

```
        <td colspan="2" style="height: 327px" valign="top">
<asp:ContentPlaceHolder ID="ContentPlaceHolder1" runat="server">
</asp:ContentPlaceHolder>
        </td>
    </tr>
    <tr>
        <td class="footertxt">   Copyright Bill n' Ben</td>
        <td class="footertxt" align="right">
<asp:Label id="lblDate" runat="server" />
        </td>
        <td class="footertxt"></td>
    </tr>
    </table>
```

Using the Master Page (with Table)

```
<%@ Page Language="C#" MasterPageFile="example0103.master"
 Title="Products"%>

 <asp:Content ID="mainContent"
  ContentPlaceHolderID="ContentPlaceHolder1"      Runat="Server">
   <div class="mainpage">This is the products page</div>
 </asp:Content>
```

MONASH University

Configuring the Master Page in the web.config

If a site uses a single master File

It can be declared in the web.config file

```
<configuration>
  <system.web>
    <pages masterPageFile="~/MyMaster.master"/>
  </system.web>
</configuration>
```

If the Master File has been declared in the web.config

Each page does not need to link to the Master file, so:

<%@ Page Language="C#" Title="Products"%>

Rather than:

<%@ Page Language="C#" MasterPageFile="example0103.master" Title="Products"%>

Different Master Pages

Part of the Application can have different Master Pages

- Defined via the subdirectory

```xml
<configuration>
 <location path="Public">
 <system.web>
     <pages masterPageFile="~/MyPublicMaster.master" />
     </system.web>
 </location>
 <location path="Admin">
<system.web>
<pages masterPageFile="~/MyAdminMaster.master" />
</system.web>
 </location>
</configuration>
```
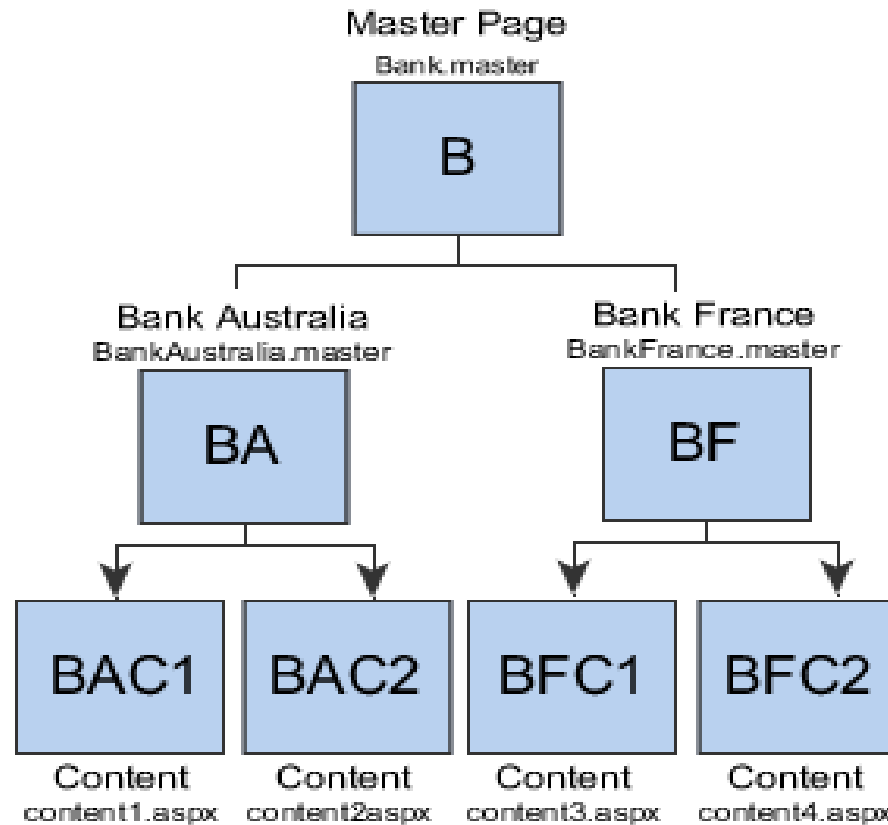
Nested Master files

Most Companies have a Complicated Structure

National and then Local Divisions

Nested Master Pages can be used in these situations

Themes

Themes are used for consistency

Each theme can have different:

- Images
- Style sheets
- Skins
- Etc...

MONASH University

Themes

Theme File Structure

App_Theme directory in the root folder of the application
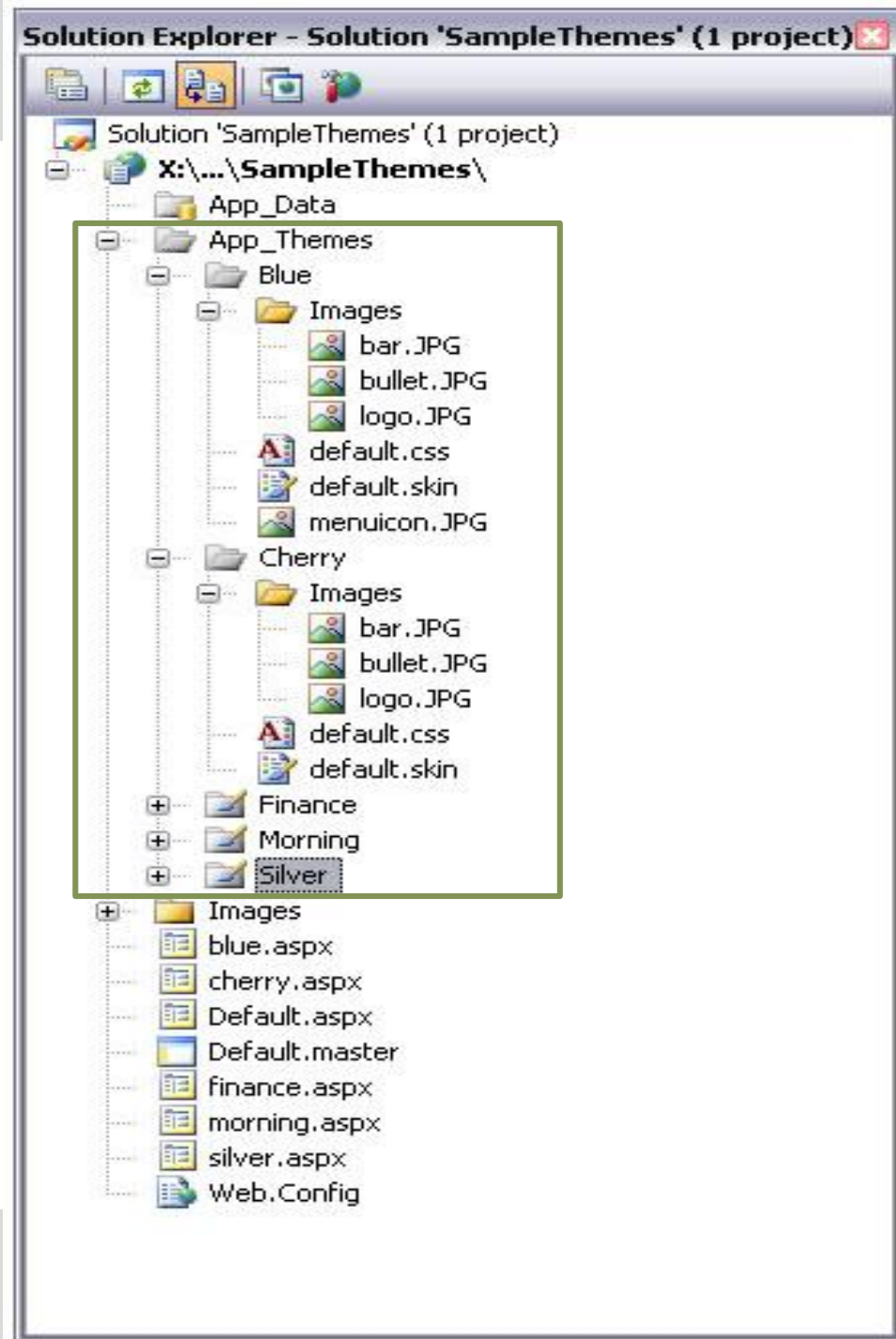
CSS and .SKIN files

CSS files are the cascading style sheet files

- These contain all the HTML layout definitions

SKIN files are like style sheets for the ASP controls

```
<asp:image runat="server" Imageurl="Images/logo.jpg" skinid="logo" />
 <asp:Calendar runat="server" SkinID="CalendarView"
     BackColor="White" BorderColor="#999999"
     CellPadding="4" DayNameFormat="Shortest" Font-Size="0.8em"
      ForeColor="Black" Height="180px" Width="200px">


     <SelectedDayStyle BackColor="#8C8EAA" Font-Bold="True"
     ForeColor="White" Font-Size="0.8em"/>
     <SelectorStyle BackColor="#8C8EAA" Font-Size="0.8em"/>
     <WeekendDayStyle BackColor="#F3F3F6" Font-Size="0.8em"/>
     <OtherMonthDayStyle ForeColor="#8C8EAA" Font-Size="0.9em"/>
```

.SKIN file for the silver theme (2)

```
<TodayDayStyle BackColor="#D2D5DE" ForeColor="Black"
Font-Size="0.8em"/>
<NextPrevStyle VerticalAlign="Bottom" Font-Bold="True"
ForeColor="White" Font-Size="0.8em"/>
<DayHeaderStyle Font-Bold="True" Font-Size="0.8em"
BackColor="#D2D5DE"/>
<TitleStyle BackColor="#8C8EAA" BorderColor="Black"
Font-Bold="True" ForeColor="White" Font-Size="0.9em"/>
<DayStyle Font-Size="0.8em" />
</asp:Calendar>
```

Using the Themes (1)

```
<%@ Page Language="C#"

   MasterPageFile="~/Default.master"

   StylesheetTheme="Silver" %>

<asp:Content ID="Content1"

 ContentPlaceHolderID="ContentPlaceHolder1"   Runat="Server">
   <br />

   <p class="title">Silver Theme</p>

   <br /><h1>Heading 1</h1>

   <p class="bodytextindent1">Text</p>

   <h2>Heading 2<br /></h2>

   <p class="bodytextindent1">Text</p>
```

MONASH University

Using the Themes (2)

```
<h3>Heading 3</h3>

<p class="bodytextindent1">Text</p>

<h3>Sample Calendar</h3>

<br />

<asp:Calendar ID="Calendar1" runat="server"

  SkinID="CalendarView"/>

<br />

</asp:Content>
```

MONASH
University

StylesheetTheme or Theme

StylesheetTheme="Silver"

Theme="Silver"

If Theme is used it takes precedence

If StylesheetTheme is used,

- – then any style set in the asp file takes precedence

MONASH
University

Theme Images

Referencing images

In Master File:

<asp:Image ID="Image1" runat="server" skinid="logo"/>

In Theme .SKIN file:

<asp:image runat="server"

  Imageurl="Images/logo.jpg"

  skinid="logo" />

Master Pages don't reference themes

Content pages reference the theme:

```
<%@ Page Language="C#"
    MasterPageFile="~/Default.master" Title="Untitled Page"
    StylesheetTheme="Silver"%>
```

MONASH University

Multiple skin options

Multiple definitions of server controls (1)

```
<asp:Textbox Runat="server" ForeColor="#004000"
  Font-Names="Verdana" Font-Size="X-Small"
  BorderStyle="Solid" BorderWidth="1px"
  BorderColor="#004000" Font-Bold="True" />


<asp:Textbox Runat="server" ForeColor="#000000"
  Font-Names="Verdana" Font-Size="X-Small"
  BorderStyle="Dotted" BorderWidth="5px"
  BorderColor="#000000" Font-Bold="False"
  SkinID="TextboxDotted" />
```

Multiple definitions of server controls (2)

<asp:Textbox Runat="server"

  ForeColor="#000000"

  Font-Names="Arial" Font-Size="X-Large"

  BorderStyle="Dashed" BorderWidth="3px"

  BorderColor="#000000" Font-Bold="False"

  SkinID="TextboxDashed" />

  Server control without a skinID is the default

Using multiple SkinID controls (Part1)

```
<%@ Page Language="C#" Theme="Summer" %>

<html xmlns="http://www.w3.org/1999/xhtml" >

 <head id="Head1" runat="server">

  <title>Different SkinIDs</title>

    </head>

    <body>

     <form id="form1" runat="server">

     <p>

    <asp:Textbox ID="TextBox1" Runat="server">

        Textbox 1 </asp:Textbox> </p>
```

```
<p>

<asp:Textbox ID="TextBox2" Runat="server"

SkinId="TextboxDotted">Textbox 2 </asp:Textbox>

</p>

<p>

<asp:Textbox ID="TextBox3" Runat="server"

SkinId="TextboxDashed">Textbox 3</asp:Textbox>

</p>

</form> </body> </html>
```

Summary

1. Introduction
2. Master Pages
3. Themes and Skins

What you will do in the Studio

Complete topic 6 exercises

Read ahead ASP examples from topic 7

Run using Visual Studio 2015/2017 and test some examples

Thanks and See you in the Studio!