



Universiti
Malaysia
PAHANG
Engineering • Technology • Creativity

BCS 2203 | WEB APPLICATION DEVELOPMENT

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AL-FATIHAH



COURSE OUTCOMES

At the end of this course, students should be able to:

- Create a master page
- Define editable regions within a master page
- Adding source code to a master page



What is Master Page

- One attribute of a well-designed website is a **consistent** look and feel across their pages.
- This includes layout
 - ✓ User interface elements appear
 - ✓ How they are oriented
- Fonts, Colors, Graphics Etc
 - ✓ A master page provides a template for other pages, with shared layout and functionality.
 - ✓ The master page defines placeholders for the content, which can be overridden by content pages.
 - ✓ The output result is a combination of the master page and the content page.

Example of good website design

UWP eCommunity Portal x Kalam Management - UM x Course: TEACHING AND L x f (1) FSKKP Postgraduate x NBA - National Basketball x Web Authentication x Zuriani x

espn.go.com/nba/

Apps New Tab alamat uum - Googl... Rob J Hyndman - WiMAX Mobile Stati... +Zuriani P1: Speedometer Imported From IE HP Pavilion g4-2205... Unit 3 Technology i... Other bookmarks

NBA MAY 27 Final HOU 90 GS 104 Full Scoreboard »

ESPN NFL NBA MLB NCAAAF NHL Soccer ... Watch Listen Fantasy Log In


NBA Home Scores Teams Schedule Stats Standings Playoffs Players Draft TrueHoop More

FAVORITES

Log in to ESPN or join to view your favorites

Sign Up

Log In

 2:02 1m Ezra Shaw/Getty Images


TOP HEADLINES

NOW

JAMES HARDEN AT THE PODIUM

"Obviously, you want to win the championship. We went through a lot of adversity, a lot of injuries ... this isn't where we wanted it to end at, but this has been a really good season for us."

Live on SportsCenter

 15h Share

12:36 PM 5/28/2015

Example of bad website design

← → ↺ ↻ ↵ arngren.net

Apps alamat uum - Googl... Rob J Hyndman - WiMAX Mobile Stati... +Zuriani P1: Speedometer Imported From IE HP Pavilion g4-2205... Unit 3 Technology i... Other bookmark

www.ARNGREN.net (Fra 07.11.2004) < Frithjof i sin Fly-Bil

23 Butikker Teknologi & Gadgets Index el-retur

Index
Akvarium
Alarm
Alkotester
ATV (el.)
Bildefliser
Bil (elektrisk) gas
Bilbane
Conrad-elektronikk
Digital-Kikkert
Disko-Lys
Dummy-Kamera
DVD-Spiller
Elektronikk & DAB
EL-Scooter & Bil
Figurer
Golf-biler (m/skilt)
Hobby & RC
Hoverpod
HP-Måler (Bil)
Isbitmaskin
Kamera (trådløst)
Kino (bærbar)
Kompass (Bil/Båt)
Laser-Jamer (Bil)
Luft-Jekke
Lys (oppladbar)
Mobil-telefon-1, 2
Motorsykkel-Mini
Omformer (110V)
Oversetter (44 språk)
PC-mini (9"). 2.

Mercedes
des
AMG
m/ Gummi-Hjul
2998.-

RC-Drone med Kamera
Walkere
QR X350PRO
Gimble og Monitor,
fra kr. 1.698.- med GPS

Forbruker Elektronikk
Nyhets! Ingen alders-grense
Elektrisk-scooter
PEDALS
Uten skifter 7998.-

Elektrisk-Fat
bike.
Sno-Kjøring
kr. 13.998.-

Alle Produktene på denne siden lagerføres hos ARNGREN i Oslo. Se Lagerkoden etter Prisene (lev. 2 - 5 dager):
● Er på Lager
● Kommer før 3 uker
● Lengre enn 3 uker

- Fjernstyrte Produkter
- Forbruker Elektronikk
- Batterier & Ladere, etc.
- Elektriske-Kjøretøy
- El-ATV
- Disko-Lys
- Rakett-Fly
- Roboter

Kjøpsloven klikk her.
Angreskjema klikk her.

Avatar-Gunship. Er dette Helikopteret noens...

El-Kjøretøy ; T-Truck
fra kr. 119.998.-

Elektronikk
Elektrisk-Scooter
Fra kr. 9.998.- (300)

RC Produkter
Ta alltid ut 230Vac Adapteren når du ikke er tilstede, eller sover

El-Bil ; Cross-Rider
fra kr. 89.998.-

Drone-bike
Last :
7 kg
Zoom Kikkert
20 - 144 x
& Teleskop
kr. 19.998.-
Elektronikk

FreeGo Selvbalanserende el-Scooter
fra kr. 19.998.-

Lyd, Rek, Lys

4WD Truck 2.4 Ghz RC
fra

El-jeep 998.-

Elektrisk-ATV

EL-Scooter



- Another attribute of a well-designed site is the ease with which the site's appearance can be changed.
 - The whole look and feel
 - the menu items
 - Or maybe a radically new design with different colors, fonts, and layout will be unveiled.
- Applying such changes to the entire site should be a fast and simple process that does not require modifying the thousands of web pages that make up the site.

- There are a variety of techniques for creating web pages with a consistent look and feel.
- A naive approach is to simply copy and paste the common layout markup into all web pages, but this approach has a number of downsides.
- For starters, every time a new page is created, you must remember to copy and paste the shared content into the page.
- Such copying and pasting operations are ripe for error as you may accidentally copy only a subset of the shared markup into a new page.
- And to top it off, this approach makes replacing the existing site-wide appearance with a new one a real pain because every single page in the site must be edited in order to use the new look and feel.

Master Page!



Creating a Master Page

- A master page is similar to ASP.NET pages.
- It consists of Web control, static HTML and server-side code.
- The main difference is that a master page's purpose is to define a template for the website.
- The extension of MasterPage is *.master.
- In a MasterPage we can have either inside ContentPlaceHolder or outside it.
- Only content inside the ContentPlaceHolder can be customized in the Content Page.
- We can have multiple MasterPage in one web application

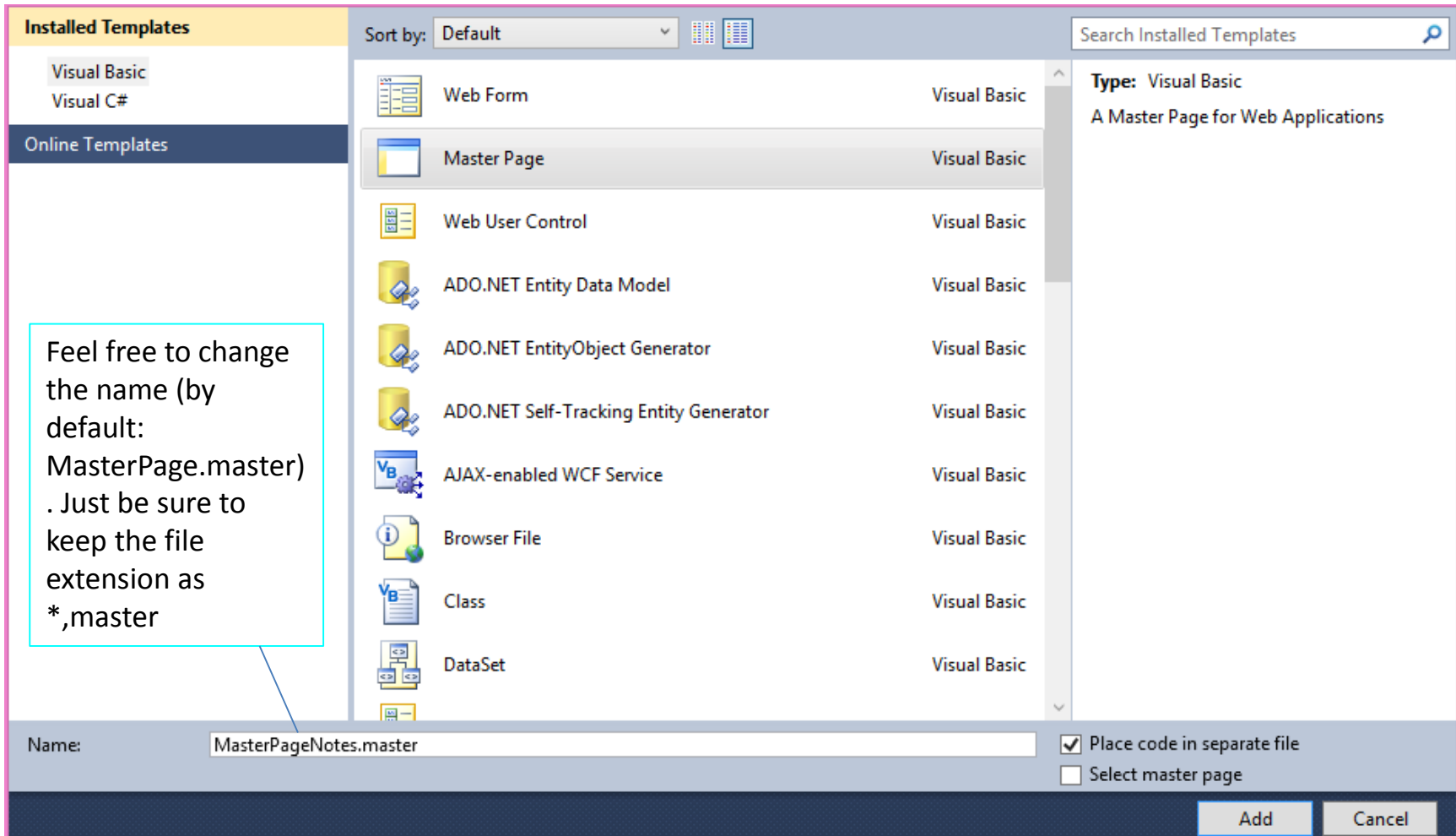


...Creating a Master Page

- As usual:
 - Right click the project name in the Solution Explorer
 - Add New Item
 - Choose the Master page
 - Choose a name for the master page.
 - Click Add

...Creating a Master Page

Feel free to change the name (by default: MasterPage.master) . Just be sure to keep the file extension as *.master



The screenshot shows the 'Add New Item' dialog box in Visual Studio. The 'Installed Templates' list on the left includes 'Visual Basic' and 'Visual C#'. The 'Online Templates' section is currently empty. The main list of templates is sorted by 'Default' and includes 'Web Form', 'Master Page' (selected), 'Web User Control', 'ADO.NET Entity Data Model', 'ADO.NET EntityObject Generator', 'ADO.NET Self-Tracking Entity Generator', 'AJAX-enabled WCF Service', 'Browser File', 'Class', and 'DataSet'. All templates are of type 'Visual Basic'. The 'Name' field at the bottom is set to 'MasterPageNotes.master'. The 'Place code in separate file' checkbox is checked, and the 'Select master page' checkbox is unchecked. The 'Add' and 'Cancel' buttons are at the bottom right.

Template Name	Type
Web Form	Visual Basic
Master Page	Visual Basic
Web User Control	Visual Basic
ADO.NET Entity Data Model	Visual Basic
ADO.NET EntityObject Generator	Visual Basic
ADO.NET Self-Tracking Entity Generator	Visual Basic
AJAX-enabled WCF Service	Visual Basic
Browser File	Visual Basic
Class	Visual Basic
DataSet	Visual Basic

Name: MasterPageNotes.master

☒ Place code in separate file
☐ Select master page

Add Cancel

CHAPTER | MASTER PAGE

<% Master %>
-Master directed

MasterPageNotes.master X

Client Objects & Events (No Events)

```
<%@ Master Language="VB" CodeFile="MasterPageNotes.master.vb" Inherits="MasterPageNotes" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
  <asp:ContentPlaceholder id="head" runat="server">
  </asp:ContentPlaceholder>
</head>
<body>
  <form id="form1" runat="server">
    <div>
      <asp:ContentPlaceholder id="ContentPlaceholder1" runat="server">
      </asp:ContentPlaceholder>
    </div>
  </form>
</body>
</html>
```

Delete, and go to Design



The layout of the page:

- The header region
- The navigation region
- The main region
 - Contain ContentPageHolder Web control
- The footer region

Layout A

A

B

C

Layout B

A	B	
C	E	D

Layout C

A

B

D

C

E

Layout D

A

B

C

D

- How to create such layout?
 - HTML?
 - Other approach?

MasterPageNotes.master* X

div

Cursor in the <div> tag

Insert Table to make the layout of the MasterPage.
Let say 3 rows and 1 column

Insert Table ? X

Size

Rows: 3 Columns: 1

Layout

Alignment: Default ☒ Specify width: ☐ In pixels ☒ In percent

Float: Default ☐ In pixels ☒ In percent

Cell padding: 1 ☐ Specify height: ☐ In pixels ☒ In percent

Cell spacing: 2 ☐ In pixels ☒ In percent

Borders

Size: 0 ☐ In pixels ☒ In percent

Color: ☐ In pixels ☒ In percent

☐ Collapse table border

Background

Color: ☐ In pixels ☒ In percent

☐ Use background picture

☐ In pixels ☒ In percent

Set

☐ Set as default for new tables

Header

Home Page

td.style3

Insert another Table in the second row of the first Table. Let say 2 columns and 1 row. Specify the height to 100, in Percent


Footer


Copyright 2015

Insert Table ? x

Size
Rows: 1 Columns: 2

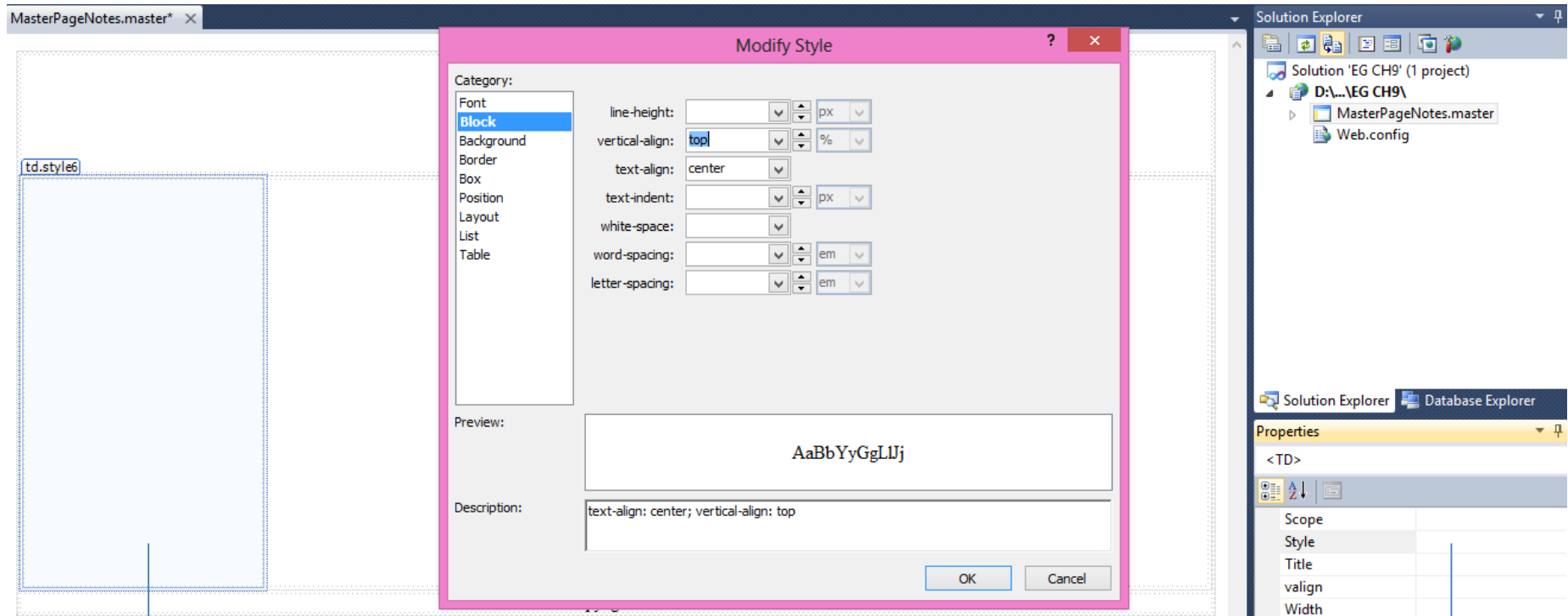
Layout
Alignment: Default ☒ Specify width:
Float: Default 100 ☐ In pixels ☒ In percent
Cell padding: 1 ☒ Specify height:
Cell spacing: 2 100 ☐ In pixels ☒ In percent

Borders
Size: 0
Color: 
☐ Collapse table border

Background
Color: 
☐ Use background picture

Set
☐ Set as default for new tables

CHAPTER | MASTER PAGE



For the second Table:
Set the first column smaller than the second column.
Set the style for the first column.

CHAPTER | MASTER PAGE

Untitled - Paint

File Home View

Paste Cut Copy Select Crop Resize Rotate Image

Tools Brushes

Shapes

Outline Fill

Size

Color 1 Color 2

Colors

Edit colors

ASP.aspx* PHP.aspx* HTML.aspx* MasterPageNotes.master* X

Solution Explorer

body

Home Page

```
<tr>
  <td class="style2" bgcolor="Blue">
    <strong style="color: #FFFFFF">Home Page</strong></td>
</tr>
```

Courses Offered

```
<td class="style6"
  style="text-align: center; vertical-align: top; background-color: #FFFFCC;">
  <strong>Courses Offered</strong><br />
<br />
</td>
```

Copyright 2015

```
<tr>
  <td bgcolor="Blue" class="style4">
    Copyright 2015</td>
</tr>
```

Solution Explorer

Database Explorer

Properties

DOCUMENT

Language VB

MasterPageFile

Strict

Body

ALink

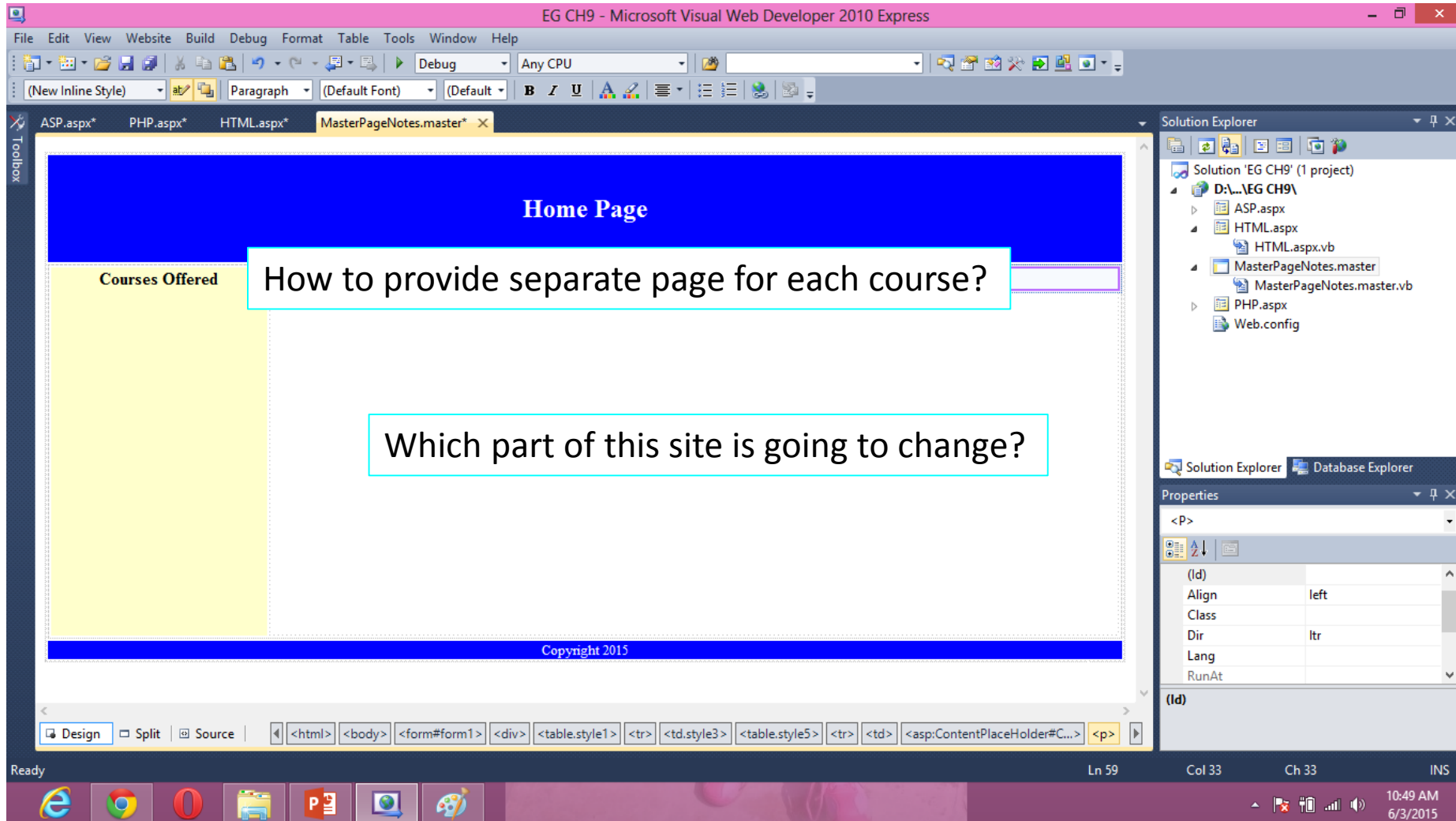
Background

1366 x 768px

100%

10:47 AM 6/3/2015

CHAPTER | MASTER PAGE



The screenshot displays the Microsoft Visual Web Developer 2010 Express interface. The main design area shows a master page with a blue header, a yellow sidebar, and a white content area. The header contains the text "Home Page". The sidebar is labeled "Courses Offered". The content area contains two text boxes with the questions "How to provide separate page for each course?" and "Which part of this site is going to change?". The footer of the master page says "Copyright 2015". The Solution Explorer on the right shows the project structure for "EG CH9", including files like ASP.aspx, HTML.aspx, MasterPageNotes.master, and Web.config. The Properties window at the bottom right shows the properties for a selected paragraph element.

EG CH9 - Microsoft Visual Web Developer 2010 Express

File Edit View Website Build Debug Format Table Tools Window Help

(New Inline Style) Paragraph (Default Font) (Default) B I U

ASP.aspx* PHP.aspx* HTML.aspx* MasterPageNotes.master* X

Home Page

Courses Offered

How to provide separate page for each course?

Which part of this site is going to change?

Copyright 2015

Solution Explorer

Solution 'EG CH9' (1 project)

- D:\...EG CH9\
- ASP.aspx
- HTML.aspx
- HTML.aspx.vb
- MasterPageNotes.master
- MasterPageNotes.master.vb
- PHP.aspx
- Web.config

Solution Explorer Database Explorer

Properties

<P>

(Id)	
Align	left
Class	
Dir	ltr
Lang	
RunAt	

(Id)

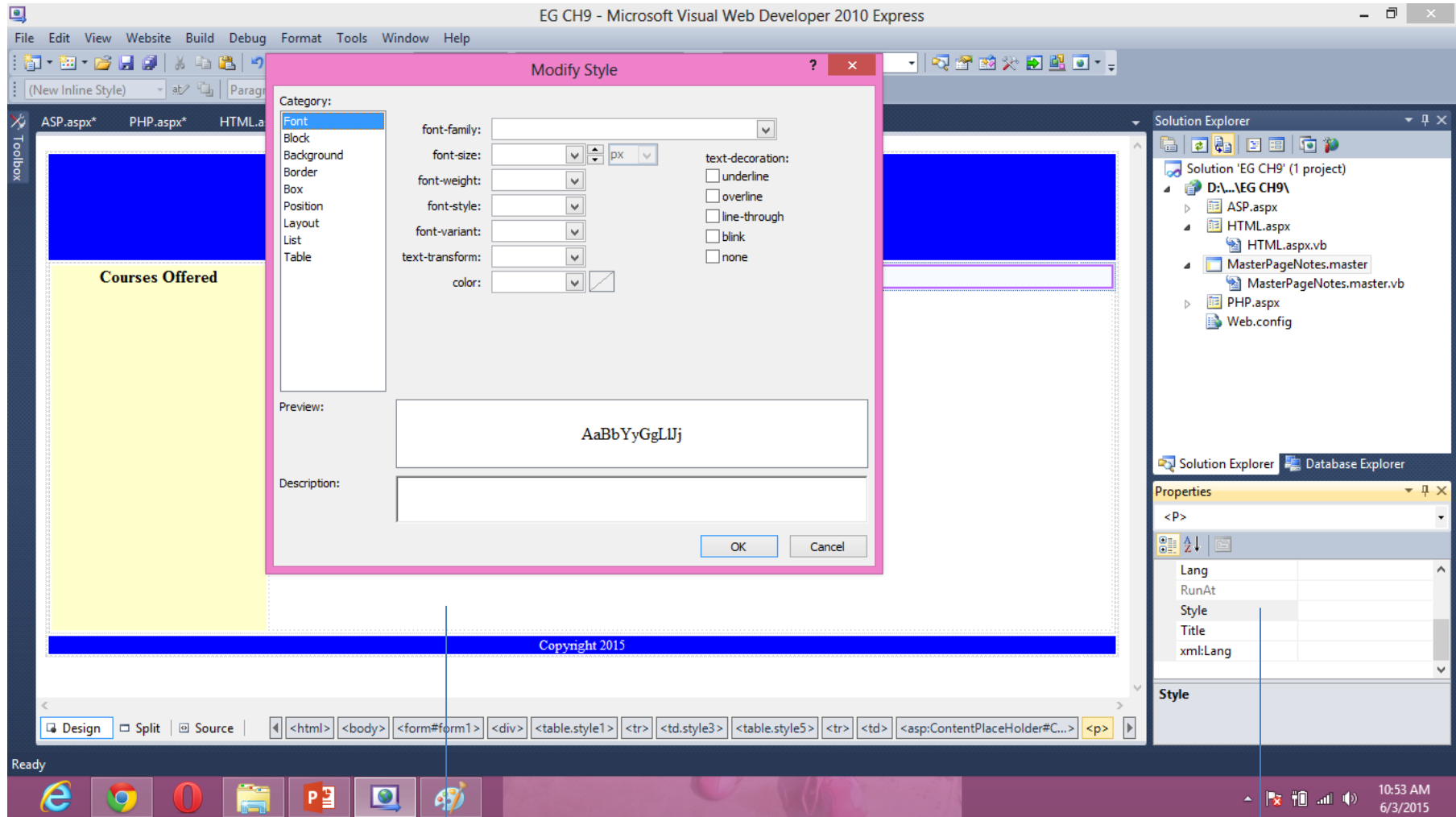
Design Split Source

<html> <body> <form#form1> <div> <table.style1> <tr> <td.style3> <table.style5> <tr> <td> <asp:ContentPlaceHolder#C...> <p>

Ready Ln 59 Col 33 Ch 33 INS

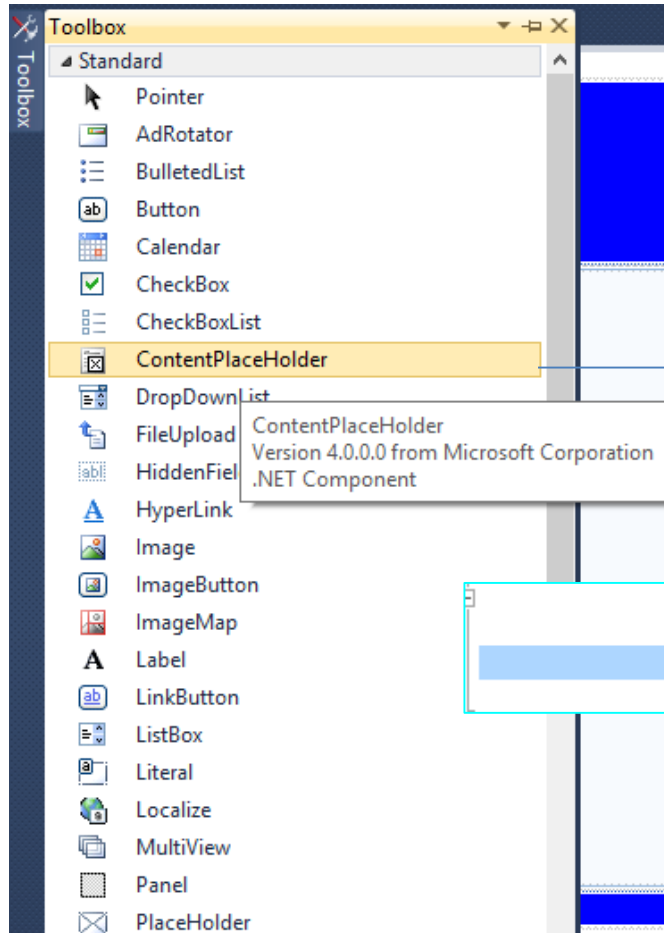
10:49 AM 6/3/2015

CHAPTER | MASTER PAGE



1. You can set the style for this part

2. In this particular section, we can drag and drop the ContentPlaceHolder



3. Or you also can type this code manually

```
<td style="text-align: left; vertical-align: top">  
    <asp:ContentPlaceHolder ID="ContentPlaceHolder1" runat="server">  
    </asp:ContentPlaceHolder>  
</td>
```

You can change the ID

CHAPTER | MASTER PAGE

EG CH9 - Microsoft Visual Web Developer 2010 Express

File Edit View Website Build Debug Format Table Tools Window Help

Debug Any CPU

< Inline Style > Paragraph (Default Font) (Default) B I U

ASP.aspx* PHP.aspx* HTML.aspx* MasterPageNotes.master* X

Home Page

Courses Offered

ContentPlaceHolder1.P
Page under construction

You may put text here
- This is our default page -

Copyright 2015

Solution Explorer

Solution 'EG CH9' (1 project)

- D:\...EG CH9\
- ASP.aspx
- HTML.aspx
- HTML.aspx.vb
- MasterPageNotes.master
- MasterPageNotes.master.vb
- PHP.aspx
- Web.config

Solution Explorer Database Explorer

Properties

<P>

Misc

(Id)	
Align	left
Class	
Dir	ltr
Lang	

(Id)

Design Split Source

<html> <body> <form#form1> <div> <table.style1> <tr> <td.style3> <table.style5> <tr> <td> <asp:ContentPlaceHolder#C...> <p>

Ready

10:55 AM
6/3/2015



Next step:

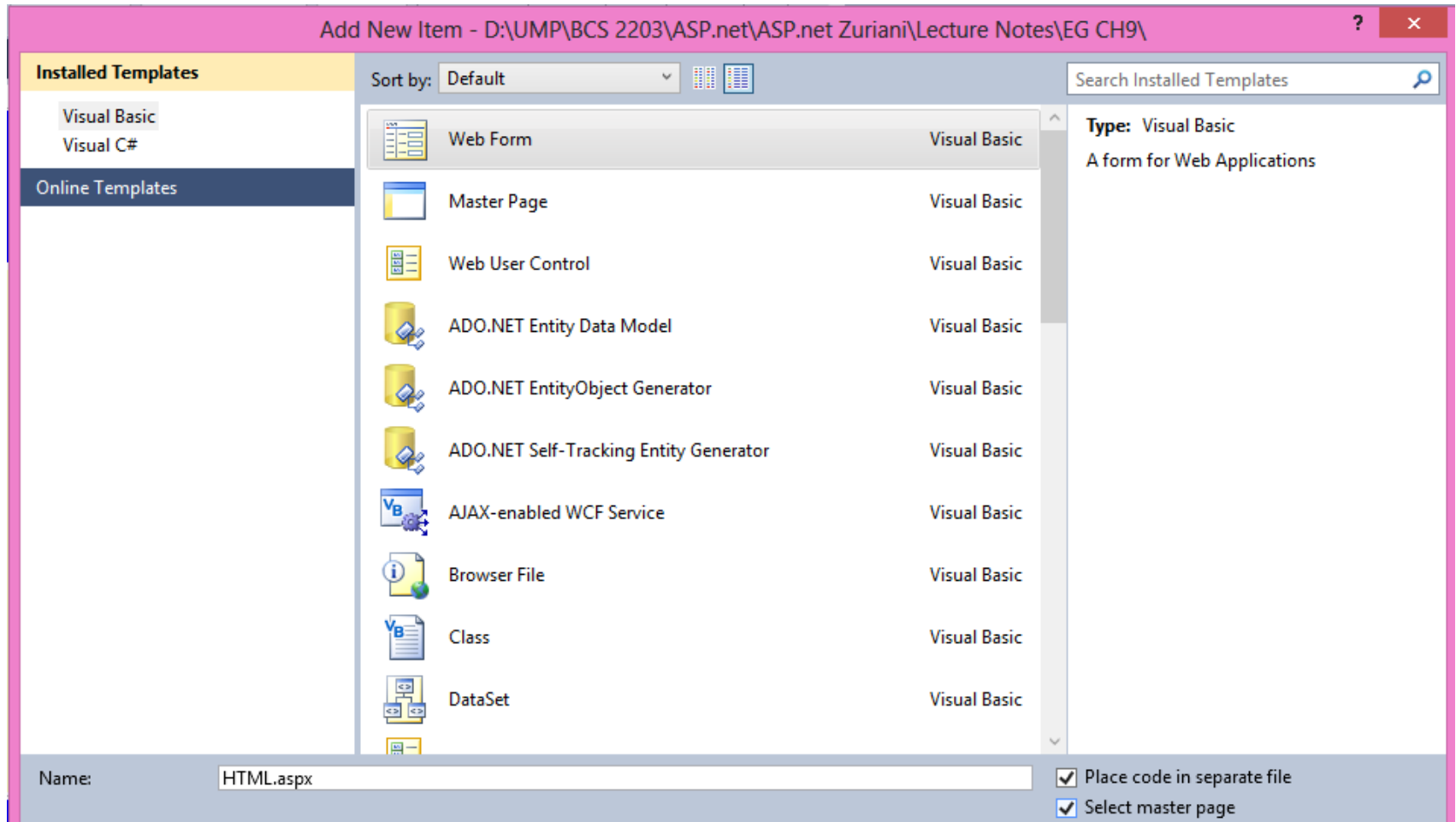
- With our master page created, the next step is to create a content page.
- When creating a content page, we start by identifying what master page to use.
- Next we define the content specific this page, which is placed in the regions defined by the master page's ContentPlaceHolder

Creating a Content Page

- A content page is an ASP.NET page that is bound to the master page
- The content pages contain the content you want to display.
- When users request the content page, ASP.NET merges the pages to produce output that combines the layout of the master page with the content of the content page.

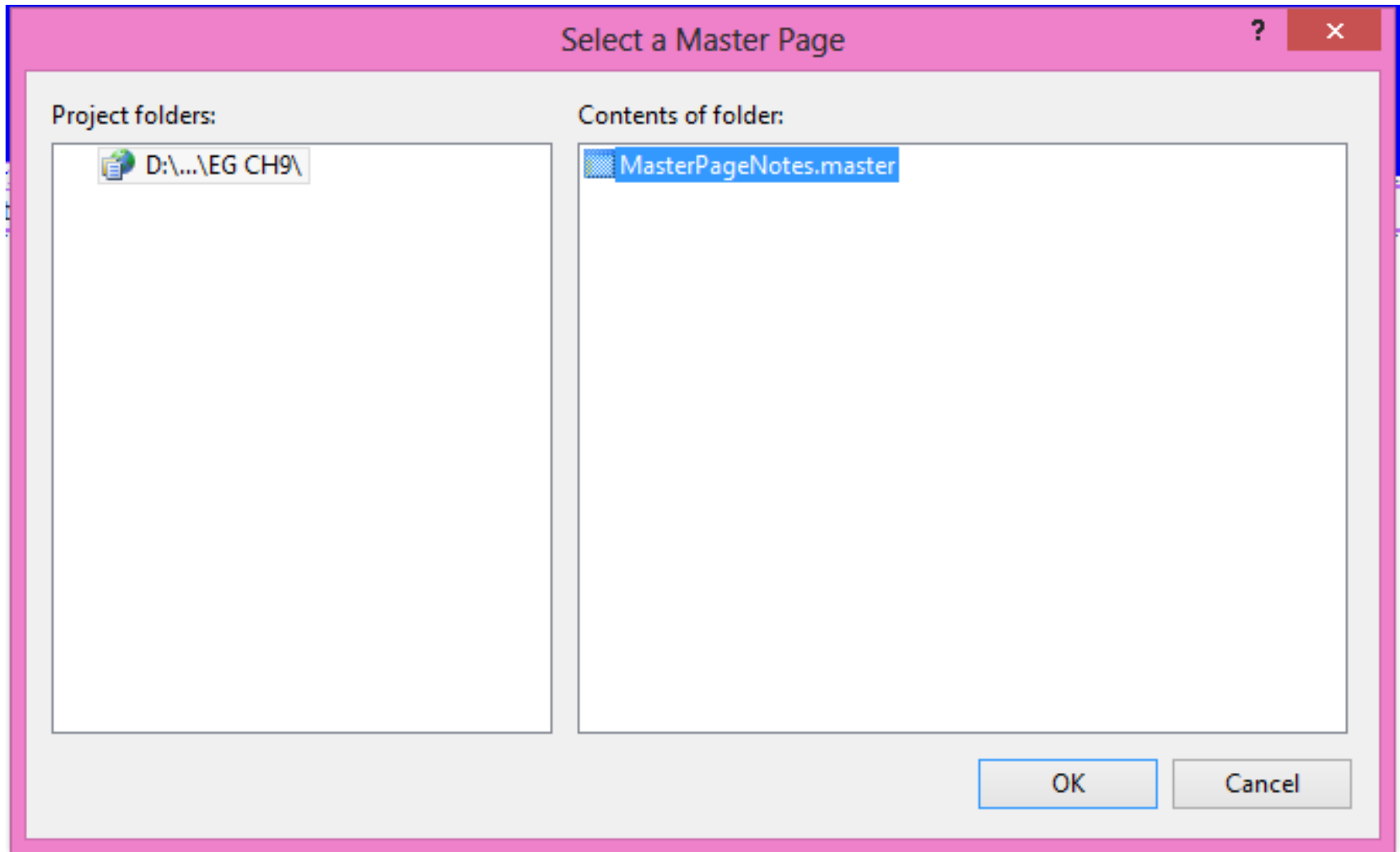
Creating a Content Page

Now, add a new Web Form, name it as HTML.aspx



Make sure both checkboxes are checked

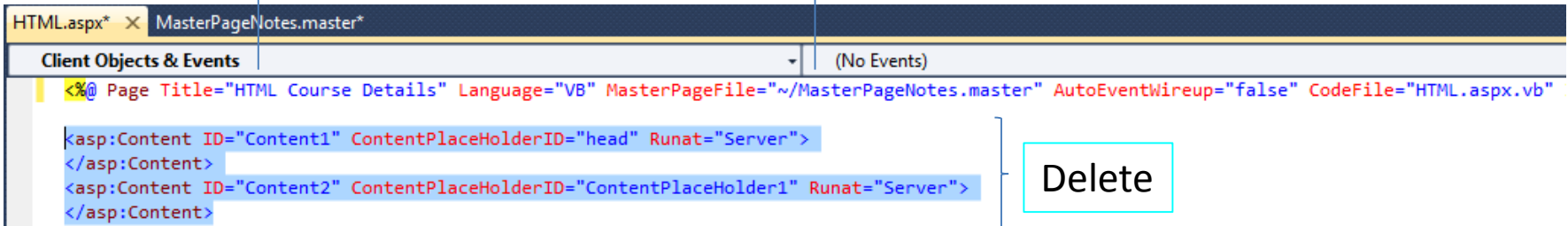
Select your MasterPage -> OK



CHAPTER | MASTER PAGE

Insert your Title here

Referencing to MasterPage file



HTML.aspx* × MasterPageNotes.master*

Client Objects & Events (No Events)

```
<%@ Page Title="HTML Course Details" Language="VB" MasterPageFile="~/MasterPageNotes.master" AutoEventWireup="false" CodeFile="HTML.aspx.vb"
    <asp:Content ID="Content1" ContentPlaceHolderID="head" Runat="Server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" Runat="Server">
</asp:Content>
```

Delete

CHAPTER | MASTER PAGE

EG CH9 - Microsoft Visual Web Developer 2010 Express

File Edit View Website Build Debug Format Table Tools Window Help

Debug Any CPU

(New Inline Style) (None) (Default Font) (Default) B I U

ASP.aspx* PHP.aspx* HTML.aspx* MasterPageNotes.master* X

body

Home Page

Courses Offered Page under construction

You can change everything in MasterPage: Header, Footer, Menu, ContentPlaceHolder

Copyright 2015

Design Split Source <html> <body> <form#form1> <div> <table.style1> <tr> <td.style3> <table.style5> <tr> <td> <asp:ContentPlaceHolder#C...> <p>

Solution Explorer

Solution 'EG CH9' (1 project)

- D:\... \EG CH9\
 - ASP.aspx
 - HTML.aspx
 - HTML.aspx.vb
 - MasterPageNotes.master
 - MasterPageNotes.master.vb
 - PHP.aspx
 - Web.config

Properties

DOCUMENT

Language	VB
MasterPageFile	
Strict	
Body	
ALink	
Background	

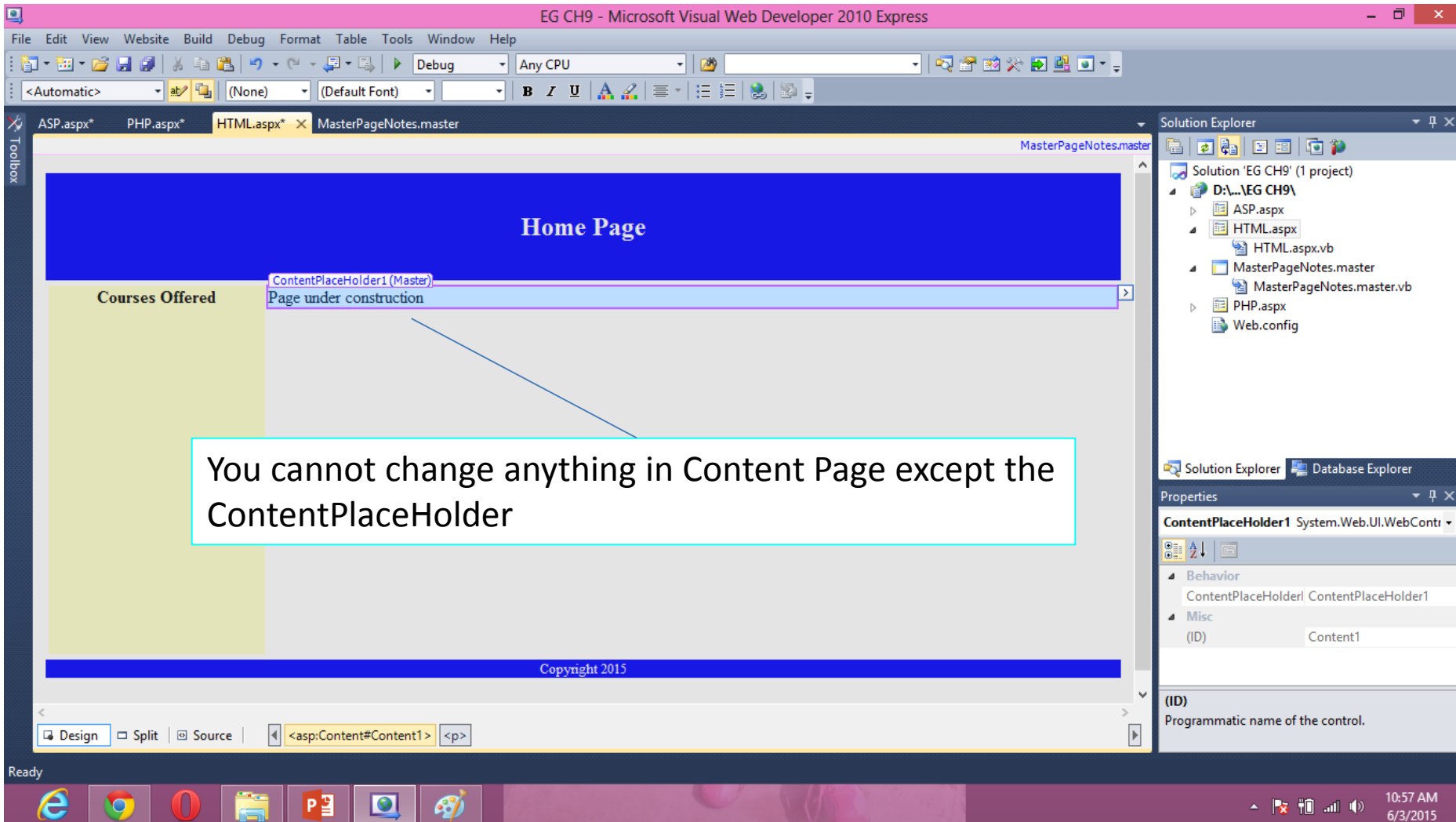
ALink

Color of all active links in the document.

Ready

10:55 AM
6/3/2015

CHAPTER | MASTER PAGE



The screenshot displays the Microsoft Visual Web Developer 2010 Express interface. The main design view shows a master page titled "MasterPageNotes.master" with a blue header area labeled "Home Page" and a footer area labeled "Copyright 2015". A content area on the left is labeled "Courses Offered". A light blue box labeled "ContentPlaceHolder1 (Master)" is overlaid on the content area, with a text label "Page under construction" and a blue arrow pointing to it. A white text box with a blue border is overlaid on the content area, containing the text: "You cannot change anything in Content Page except the ContentPlaceHolder". The Solution Explorer on the right shows the project structure for "EG CH9", including files like ASP.aspx, HTML.aspx, MasterPageNotes.master, and MasterPageNotes.master.vb. The Properties window on the right shows the properties for "ContentPlaceHolder1", including its behavior and ID.

EG CH9 - Microsoft Visual Web Developer 2010 Express

File Edit View Website Build Debug Format Table Tools Window Help

Debug Any CPU

<Automatic> (None) (Default Font) B I U

ASP.aspx* PHP.aspx* HTML.aspx* MasterPageNotes.master

MasterPageNotes.master

Home Page

Courses Offered

ContentPlaceHolder1 (Master)
Page under construction

You cannot change anything in Content Page except the ContentPlaceHolder

Copyright 2015

Design Split Source <asp:Content#Content1> <p>

Solution Explorer

Solution 'EG CH9' (1 project)

- D:\...EG CH9\
- ASP.aspx
- HTML.aspx
- HTML.aspx.vb
- MasterPageNotes.master
- MasterPageNotes.master.vb
- PHP.aspx
- Web.config

Solution Explorer Database Explorer

Properties

ContentPlaceHolder1 System.Web.UI.WebContr

Behavior

- ContentPlaceHolder1 ContentPlaceHolder1

Misc

(ID) Content1

(ID)

Programmatic name of the control.

Ready

10:57 AM 6/3/2015

CHAPTER | MASTER PAGE

EG CH9 - Microsoft Visual Web Developer 2010 Express

File Edit View Website Build Debug Format Table Tools Window Help

<Automatic> (None) (Default Font) B I U

HTML.aspx x MasterPageNotes.master

MasterPageNotes.master

Home Page

Courses Offered

HTML
PHP
ASP.NET

ContentPlaceHolder1 (Master)
Page under construction

Content Tasks
Create Custom Content

Click the smart tag – Create Custom Content

Copyright 2015

Design Split Source

Solution Explorer

Solution 'EG CH9' (1 project)

- D:\...EG CH9\
- HTML.aspx
- HTML.aspx.vb
- MasterPageNotes.master
- MasterPageNotes.master.vb

Database Explorer

Properties

ContentPlaceHolder1 System.Web.UI.WebContr

Behavior

ContentPlaceHolder1 ContentPlaceHolder1

Misc

(ID) Content1

(ID) Programmatic name of the control.

Ready

Ln 5 Col 1 Ch 1 INS

10:39 AM
6/3/2015

HTML.aspx* × MasterPageNotes.master

MasterPageNotes.r

Home Page

Courses Offered

HTML
PHP
ASP.NET

ContentPlaceHolder1 (Custom)

Let's learn HTML

p

What is HTML?

CHAPTER | MASTER PAGE

EG CH9 - Microsoft Visual Web Developer 2010 Express

File Edit View Website Build Debug Format Table Tools Window Help

Debug Any CPU

(New Inline Style) (None) (Default Font) (Default) B I U

ASP.aspx* PHP.aspx* HTML.aspx* MasterPageNotes.master* X

Home Page

td.style6

Courses Offered

[HTML.aspx](#)
[PHP.aspx](#)
[ASP.aspx](#)

Page under construction

How to create the links?

Copyright 2015

Solution Explorer

Solution 'EG CH9' (1 project)

- D:\...EG CH9\
 - ASP.aspx
 - HTML.aspx
 - HTML.aspx.vb
 - MasterPageNotes.master
 - MasterPageNotes.master.vb
 - PHP.aspx
 - Web.config

Properties

<A>

Misc

(Id)	
AccessKey	
Charset	
Class	
Coords	

Misc

Design Split Source

<html> <body> <form#form1> <div> <table.style1> <tr> <td.style3> <table.style5> <tr> <td.style6> <a>

PHP.aspx

10:58 AM
6/3/2015

CHAPTER | MASTER PAGE

EG CH9 - Microsoft Visual Web Developer 2010 Express

File Edit View Website Build Debug Format Tools Window Help

Debug Any CPU

(New Inline Style) (None) (Default Font) (Default)

ASP.aspx* PHP.aspx* HTML.aspx* MasterPageNotes.master* X

Home Page

td.style6

Courses Offered

[HTML.aspx](#)
[PHP.aspx](#)
[ASP.aspx](#)

Page under construction

Copyright 2015

Can set any file as a start page

Set As Start Page

File Name HTML.aspx
Full Path D:\UMP\BCS 2203\ASP.net

Design Split Source

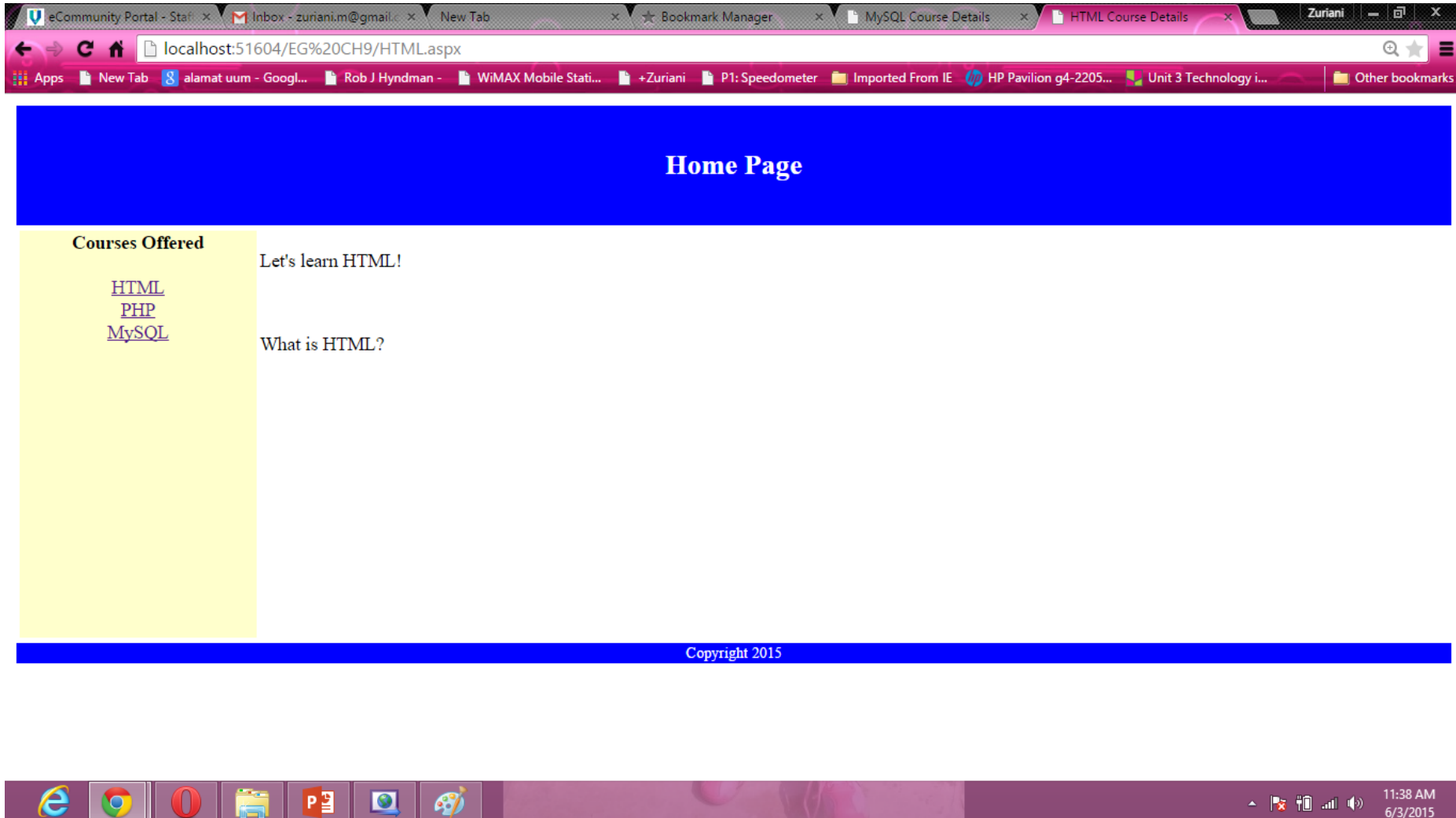
<html> <body> <form#form1> <div> <table.style1> <tr> <td.style3> <table.style5> <tr> <td.style6> <a>

PHP.aspx

11:00 AM
6/3/2015

CHAPTER | MASTER PAGE

When HTML hyperlink is clicked, it shows the page for HTML (see the URL)



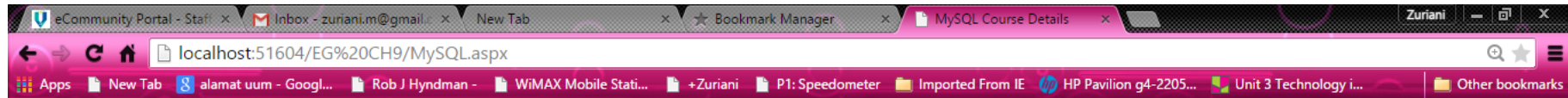
The screenshot shows a web browser window with multiple tabs. The active tab is titled 'HTML Course Details'. The address bar shows the URL 'localhost:51604/EG%20CH9/HTML.aspx'. The browser's toolbar includes various icons for navigation and search. The main content area has a blue header with the text 'Home Page'. Below the header, there is a yellow sidebar on the left with the title 'Courses Offered'. Inside this sidebar, there are three hyperlinks: 'HTML', 'PHP', and 'MySQL'. The main content area to the right of the sidebar contains the text 'Let's learn HTML!' and 'What is HTML?'. At the bottom of the page, there is a blue footer with the text 'Copyright 2015'. The Windows taskbar at the bottom of the screen shows several open applications, including Internet Explorer, Google Chrome, and Microsoft Office Word.

Let's learn HTML!

What is HTML?

Copyright 2015

CHAPTER | MASTER PAGE



Home Page

You also can change the layout easily! Just move the highlighted part from A to B

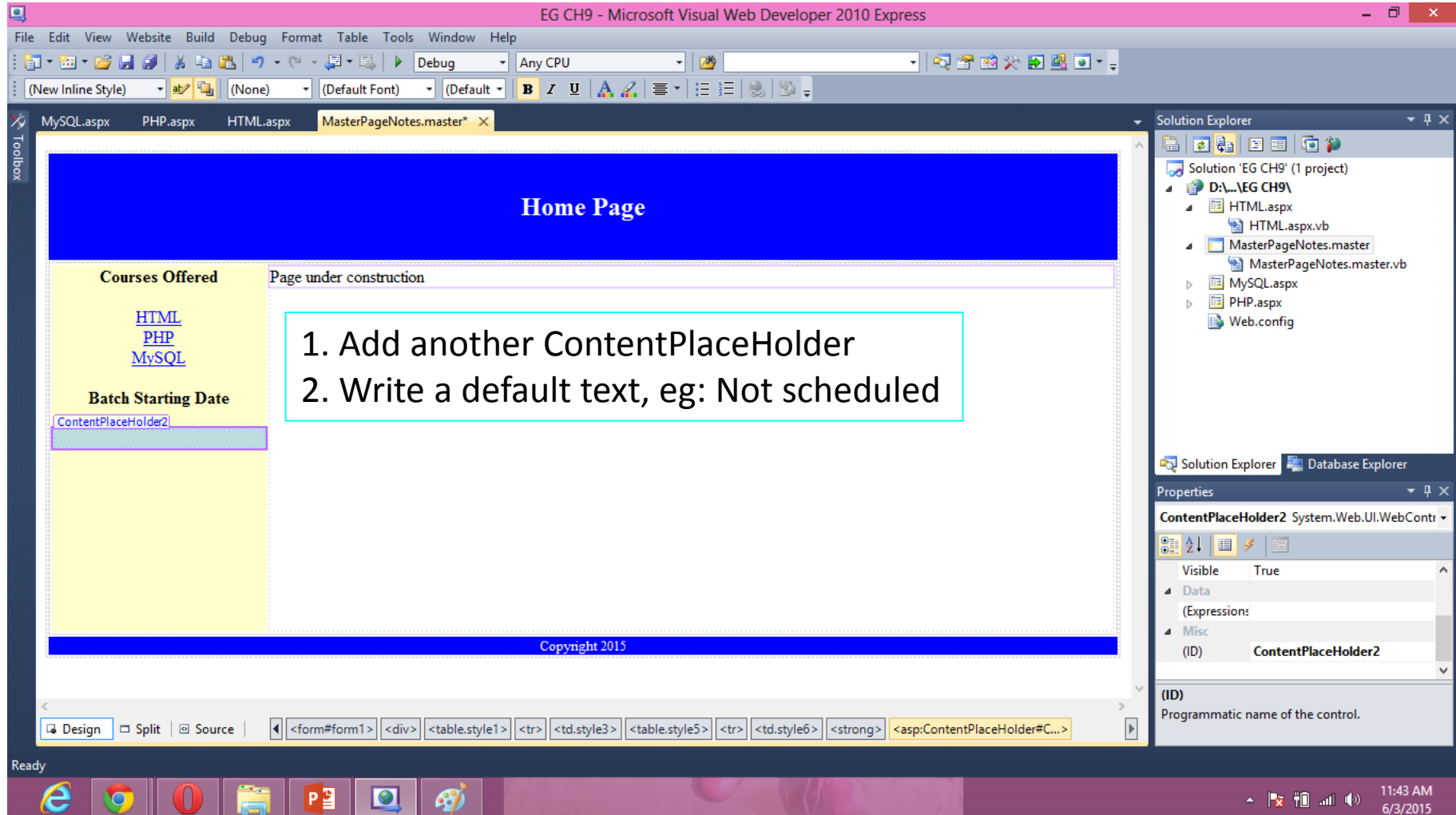
Let's learn MySQL!

Courses Offered

[HTML](#)
[PHP](#)
[MySQL](#)

```
<table class="style5">
  <tr>
    A
    <td style="text-align: left; vertical-align: top">
      <asp:ContentPlaceHolder ID="ContentPlaceHolder1" runat="server">
        <p style="text-align: left; vertical-align: top">
          Page under construction</p>
        </asp:ContentPlaceHolder>
      </td>
    <td class="style6"
      style="text-align: center; vertical-align: top; background-color: #FFFFCC;">
      B
      <strong>Courses Offered</strong><br />
      <br />
      <a href="HTML.aspx">HTML</a><br />
      <a href="PHP.aspx">PHP</a><br />
      <a href="MySQL.aspx">MySQL</a><br />
    </td>
  </tr>
</table>
```


CHAPTER | MASTER PAGE



The screenshot displays the Microsoft Visual Web Developer 2010 Express interface. The main workspace shows a master page design with a blue header containing the text "Home Page" and a blue footer containing "Copyright 2015". The left sidebar, titled "Toolbox", lists "Courses Offered" with links for "HTML", "PHP", and "MySQL", and "Batch Starting Date" with a "ContentPlaceHolder2" placeholder. The right sidebar, titled "Solution Explorer", shows the project structure for "Solution 'EG CH9' (1 project)" with files including "HTML.aspx", "HTML.aspx.vb", "MasterPageNotes.master", "MasterPageNotes.master.vb", "MySQL.aspx", "PHP.aspx", and "Web.config". The bottom status bar shows the "Design" view selected, and the "Properties" window displays the "ContentPlaceHolder2" control with its "Visible" property set to "True".

EG CH9 - Microsoft Visual Web Developer 2010 Express

File Edit View Website Build Debug Format Table Tools Window Help

Debug Any CPU

(New Inline Style) (None) (Default Font) (Default) B I U

MySQL.aspx PHP.aspx HTML.aspx MasterPageNotes.master*

Home Page

Courses Offered

[HTML](#)
[PHP](#)
[MySQL](#)

Batch Starting Date

ContentPlaceHolder2

Page under construction

1. Add another ContentPlaceHolder
2. Write a default text, eg: Not scheduled

Copyright 2015

Solution Explorer

Solution 'EG CH9' (1 project)

- D:\...EG CH9\
- HTML.aspx
- HTML.aspx.vb
- MasterPageNotes.master
- MasterPageNotes.master.vb
- MySQL.aspx
- PHP.aspx
- Web.config

Properties

ContentPlaceHolder2 System.Web.UI.WebContr

Visible True

Data

(Expressions)

Misc

(ID) ContentPlaceHolder2

(ID)

Programmatic name of the control.

Design Split Source

<form#form1> <div> <table.style1> <tr> <td.style3> <table.style5> <tr> <td.style6> <asp:ContentPlaceHolder#C...>

Ready

11:43 AM 6/3/2015

CHAPTER | MASTER PAGE

EG CH9 (Running) - Microsoft Visual Web Developer 2010 Express

File Edit View Website Build Debug Format Table Tools Window Help

MySQL.aspx PHP.aspx HTML.aspx MasterPageNotes.master

MasterPageNotes.master

Home Page

Courses Offered

Let's learn HTML!

What is HTML?

Batch Starting Date

ContentPlaceHolder2 (Custom)

1st January 2015

Now, change the ContentPlaceHolder by using smart tag Run, and see the output.

Design Split Source

Watch

Name	Value	Type

Output

Show output from: Debug

```
'WebDev.WebServer40.EXE' (Managed (v4.0.30319)): Loaded 'C:\Users\Dr. Herwan\Ap...  
The thread '<No Name>' (0xbb4) has exited with code 0 (0x0).  
The thread '<No Name>' (0x1b2c) has exited with code 0 (0x0).  
The thread '<No Name>' (0x13bc) has exited with code 0 (0x0).  
The thread '<No Name>' (0x3f4) has exited with code 0 (0x0).  
The thread '<No Name>' (0x294) has exited with code 0 (0x0).
```

Immediate Window Output

Ln 62 Col 1 Ch 1 INS

Ready

11:48 AM 6/3/2015

Working with a Master page's Source Code Portion

- Master pages have all the functionality found in ASP.NET pages. They can have Web controls in addition to static HTML.
- The Web controls in the master page can collect user input or retrieve data from a data source.
- In addition to Web controls and static HTML, master pages also have a server-side source code portion.

Advantage

1. Centralized Updating

The common code for the functionality of your pages can be stored in the master page's code behind, making coding and updates much easier.

2. Common Controls

How many times have you had to change menu layouts or drop down items. Placing server controls inside the Master page means you only have to edit the control in one location.

3. Flexibility

The Master page object model allows you to make changes to the master page from individual content pages. This allows fine grained control over the rendering of the final page.

...Advantage

4. Enhanced User Experience

Since all content pages are injected with the same master page controls, your interface will be more consistent and will provide a more consistent look and feel.

5. Site Management

Master pages improves site management because you're loading and having to work on fewer modules. Making changes to your application may not require you to load any content pages.

6. Less Code

Content pages are much easier to work with since they really don't have to contain any code whatsoever. A simple web app may only require code in its `masterpage.master` class only.

7. Less Storage Requirements

Since most of your UI code can be put in the same masterpage, your content pages will be considerably smaller.

To be continued at Database...