Kentico CMS Tutorial 4.0



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1 Introduction

1.1 Kentico CMS Overview

Kentico CMS for ASP.NET helps you create powerful dynamic web sites with minimum effort. This document will guide you through the most important features of the system step-by-step, so that you can start creating your own web sites.

This document was written for evaluators and new users. It's intended for developers who create the web sites. It's not intended for end-users without programming knowledge.

If you need a more detailed documentation of some features, please see one of the following documents:

- Developer's Guide
- Web parts and Controls Reference
- API Reference
- Database Reference



Kentico CMS Support

You get free technical support during your evaluation period. If you need any help, please visit <u>http://www.kentico.com/Support.aspx</u>



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2 Installation

2.1 Prerequisites

Before you start the installation, please make sure you have the following software installed:

- Operating system: Microsoft Windows 2000, XP, or Vista, Microsoft Windows Server 2000, 2003 or 2008
- Web server: Internet Information Services (IIS) or Visual Studio 2005 or 2008 or Visual Web Developer 2005 or 2008.
- Database server: Microsoft SQL Server 2000, Microsoft SQL Server 2005 or Microsoft SQL Server 2005 Express Edition, Microsoft SQL Server 2008. The database server can be installed on a remote server.
- Development tools: Visual Studio 2005 or 2008 or Visual Web Developer 2005 or 2008.

Required experience

Although Kentico CMS allows you to create dynamic web sites without programming, you may need to create custom web parts or to add custom code when developing a more complex web site. You should be able to create a simple application in ASP.NET 2.0 using Visual Studio 2005 and have some experience with relational databases and SQL, so that you can leverage the flexibility of Kentico CMS.

2.2 Setup installation

i	Troubleshooting installation issues If you encounter any problems during the installation, please see Kentico CMS Developer's Guide -> Installation and deployment -> Troubleshooting installation issues or contact our support at <u>http://www.kentico.com/Support.aspx</u>
---	---

Run KenticoCMS.exe and follow the installation wizard:



Read and accept the license agreement and click **Next**. Choose the installation location of the binary files and documentation on your disk. After the setup completes the installation, choose to **Launch Kentico CMS Web Installer** and click **Finish**.

2.3 Web application installation

Now you should see the Kentico CMS Web Installer. If you cannot see it, you can always run it from Start menu -> All Programs -> Kentico CMS 3.x -> Kentico CMS Web Installer.

₩ Kentico CMS Web Installer	
Step 1 - Select .NET Framework version	
Please choose the .NET Framework version you are using:	
I am using .NET Framework 2.0 or Visual Studio 2005	
◯ I am using .NET Framework 3.5 or Visual Studio 2008	
< Back Next >	Cancel

First, you need to choose the version of .NET Framework and Visual Studio that you wish to use. Click **Next**.

Kentico CMS Web Installer
Step 2 - Select target location
Choose the location where the web files will be installed:
I want to use local IIS server
◯ I want to use built-in web server in Visual Studio 2005
 I want to install Kentico CMS on a remote (production or testing) server
<pre></pre>

Choose to use either IIS server or Visual Studio 2005 built-in web server (if you do not have IIS installed). Click **Next**.

IIS installation

If you choose the IIS server, you can choose the web site where the virtual directory will be created and the folder on your local disk where project files will be deployed. The installer will create a new virtual directory on your server and configure it for ASP.NET. Click **Finish**.

👫 Kentico CMS We	eb Installer	
Ste	p 3 - Local IIS	
Please choose the	e IIS location:	
Choose web site:	Default Web Site	
Choose target folder:	c:\Inetpub\www.root\KenticoCMS	Browse
	This is an installation to the root (do not create virtual directory)	
	< Back Finish	Cancel

Please note: if you're installing Kentico CMS into the root of your web site (such as http://www. domain.com) and do not wish to create a virtual directory (such as http://www.domain.com/cms), please check the box.

VS2005 installation

If you chose to use the built-in server in VS2005, you only need to specify the local disk where the project files will be deployed. Click **Finish**.

쁆 Kentico CMS We	b Installer			_ 🗆 🔀
Step	o 3 - Visual Studio 2005			
Please choose the	web site location:			
Choose target folder:	c:\Inetpub\www.root\KenticoCMS			Browse
		< Back	Finish	Cancel

After the setup copies all files, you will see the link for opening the web application in browser or the web project in Visual Studio. Click the link.

Opening the web site in VS2005

If you chose VS2005 installation, the project is opened in VS2005:

🏶 WebProject - Microsoft Visua	Studio		
<u>File E</u> dit <u>V</u> iew Web <u>s</u> ite <u>B</u> uild	$\underline{D}ebug \underline{T}ools \underline{W}indow$	<u>C</u> ommunity <u>H</u> elp	
🛅 • 🔛 🗿 👗 🖻 🖭 🔊 •	(🗠 - 🕨 Debug	• 🔩 😤 🛠 💽 •	
Toolbox 🗸 🗸 🗙			Solution Explorer - c:\\KenticoCMS_2_0_200608 $\bullet $ 4 \times
🖃 General			🔓 🚯 🖻 🗞 🖧 🌆 🎾
There are no usable controls in this group. Drag an item onto this text to add it to the toolbox.	Output	₩ # X 	ct KenticoCM5_2_0_20060814_3 app_code App_code app_Themes Bin amp_controls CMSControls cmScontrolsExamples CMSControls cmScontrolsExamples CMSControls cmScontrolsExamples CMSControls cmScontrols CMSControls
			Properties 👻 👎 🗙
			-
			2↓ □
	Pending Checkins 📸 E	irror List 📃 Output	
Ready			

Choose **Debug -> Start without debugging** from the main menu. The site displayed in the new browser window, using the built-in web server.



When you cannot open the web site in Visual Studio 2005

If the link for opening the project in Visual Studio doesn't work, you may need to start Visual Studio manually and choose **File -> Open -> Web Site...** and locate the project folder on your disk manually.

2.4 Database setup and Corporate Site

0 K	enti	co CMS Database Setup	- Windows Inter	net Explorer							
0	0	👻 🕖 + + + + + + + + + + + + + + + + + +	_46_4/cmsinstall/insta	all.asp×			🖌 (+) 🗙	Live Search			P -
*	ŵ	<i> (</i> Kentico CMS Database	Setup			- 🟠	S - H	• 📴 Page •	Tools +	@- 🖗	s 4
											<u>^</u>
			Kentic	o CMS Da	tabase	Setup -	Step 1				
		(terms)	-	Ę	*						
		SQL server									
		SQL Server nar	ne or IP address:	MYCOMPUTE	ER						
		⊙ Use SQL S	erver account								
			Login name:	sa							
			Password:	•••••							
		⊖ Use integra	ted Windows authe	entication (ASP.	NET acco	unt: PETRP2	VASPNET)				
							e	Next	>		
								Version:	3.0 Build: 3	0 2941	
								10.0.011			
Done	_							🧐 Local intrar	iet	100	∕₀ • .;

Now you should see the **Database setup** in your web browser.

Choose the SQL Server name or IP address. If you're using SQL Server 2005 Express Edition, the default server name is .\SQLExpress or (local)\SQLExpress.

You can use either SQL Server authentication (recommended) or integrated Windows authentication.

- In case you use SQL Server account, you need to enter the user name (such as sa) and password.
- In case you use **Windows authentication**, you need to ensure that the ASP.NET account of the name displayed in the brackets has an appropriate login name in your SQL Server.

The account must be granted with permissions for creating new databases or for creating database objects in an existing database.

Click Next.

Kentico) CMS Database Se	tup - Window	s Intern	et Explorer	,										×
	 Intermediate Inter	st/30_46_4/cmsin:	stall/insta	l.asp×				¥ 47	× Live S	Search				9	•
4	🏀 Kentico CMS Data	base Setup					<u>۰</u>		🖶 🔹 🕞	Page 🕶 🤅	🔆 T <u>o</u> ols	• 🕢 •	<i>(</i>)	64	100
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				Databas	a Satu		- 2								
				Databas	e Setu	J - SIE	р 2								
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				_											
	Databaco														
	Database														
	🖲 Create a	new database													
	New dat	tabase name:	Kenti	coCMS											
	🔾 Use an e	xisting databas	e												
	Existing	database name	a.												
	🗹 Cre	ate Kentico CMS	6 databa	se objects											
						0		< Back		Next >					
									Ve	ersion: 3.	0 Build: 3	.0.2941			
									i loci	al intranet		۲	100%		

Choose to use an existing database or to create a new one. Click **Next**. If no error occurs, you should see the last step:



You can choose from the following options:

Choose a starter site such as:

- Corporate Site (portal engine) - this option installs the sample corporate site - it is recommended for most users, especially for evaluators.

- Corporate Site (ASPX templates) this option is recommended only for experienced ASP.NET developers who want to use ASPX page templates instead of portal templates.
- Blank site this is a blank site without any content; you will use it to create a new site from scratch.
- Blank site ASPX the same as above, but for ASPX poage templates
- and others
- Continue to the New site wizard this option is recommended if you're starting a new site from scratch.
- Import an existing Kentico CMS web site use this option is you already created a web site with Kentico CMS and need to import it into a new installation (e.g. on the production server).

For the purpose of this guide, please choose to **create sample Corporate Site** and click **Next**. You will see the confirmation and a link to your new web site:



Click the link and you will be redirected to the sample Corporate Site web site:





Sample web site

The Corporate Site web site is only an example of the web site you can create with Kentico CMS. You have full control over the site structure, design, page layout and functionality as you will see in the next chapters.



3 Managing content

3.1 User interface overview

Click the Sign in to CMS Desk link at the top of the web site or go to http://domain/virtualdirectory/cmsdesk. You will be asked for user name and password.

Default user name and password
The default user name is administrator with blank password.
It's highly recommended that you change the password before you publish the web site on the live server.

Once you sign in, you will see a page like this:



The user interface consists of the following main sections:

- Main menu with Content, My Desk, Tools and Administration sections.
- **Document actions** toolbar with buttons for creating new documents, deleting, copying, moving and sorting documents.
- View mode selection that allows you to choose between editing, preview, live view and list view.
- **Content tree** that represents the site map of the web site and allows you to organize the structure of documents and choose document that appears on the right side of the screen.
- **Page editing mode** you can choose to edit page content, design the page template, edit the document fields, product properties or document properties.
- Editing/viewing space here you can view/edit the document selected in the content tree in the mode selected in the view mode toolbar and in the page editing mode toolbar.

CMS Desk and Site Manager

CMS Desk allows content editors to edit content of a single web sites. Developers and site administrators who need to manage settings, code and configuration of all web sites, can use also the **Site Manager** interface. The Site Manager interface is accessible either through the URL <web project>/CMSSiteManager or by clicking the **Switch to Site Manager** link at the top of the CMS Desk user interface. The following figure shows how the database, Site Manager, CMS Desk and web sites are related: 20



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3.2 Editing home page content

Now we will modify the home page content. Click **Home** in the content tree. You will see a page like this on the right side:



The page is now displayed in the editing mode with editable region. Delete all content from the editable region and enter the following text:

This is my first text.

You can then use the WYSIWYG editor toolbar at the top of the page to change the formatting of the text like this:

This is my first text.

Click the Save button at the top of the page or press CTRL+S to save the changes.

Now click the **Live site** button in the main toolbar. You will see the modified version of the home page as it's displayed to the site visitors.



Preview mode

If you click the **Preview** mode now, it will display the same content as the **Live site** mode. It works as a preview mode only if you set up workflow. Then, you can preview the latest modifications before they are published.

3.3 Creating a new page

Now we will create a new page under the Services section. Click **Edit** in main toolbar to switch back to the editing mode.Click **Services** in the content tree. Click **New** in the main toolbar. You will see the following dialog that allows you to select the type of the document you want to create under the currently selected document:



Click the Page (menu item) button. You will be redirected to the new page properties dialog.

Enter *System Integration* in the **Page name** field and choose the **Templates with editable regions/Header and text with left menu** template:



Click **Save** to create the new page. The page is now created in the content tree and you can edit page content on the right. Enter some text in the editable regions and click **Save**.



Now you may want to change the order of the items in the left menu. Click the **Down** button in the main toolbar three times. The *System Integration* item is moved at the bottom of the section:



Click **Live site** in the main toolbar. You will see your new page as it is displayed to site visitors. Please note that the **System Integration** item is placed at the end of the left menu as you specified:



You have learned how to create a new page based on a pre-defined page template.

3.4 Uploading and inserting an image

Now we will upload and insert a new image to our page. Click **Services -> System Integration** in the content tree. Place cursor into the main editable region and click **Insert image** in the WYSIWYG editor toolbar. The **Image Properties** dialog opens:

🖉 Image Properties 1	∦ebpage Dialog	\mathbf{X}
Image Properti	es	
Image Info Link Adva	inced	
URL		
	Browse Server	
Alternative Text		_
	Preview	
Width Height C Border HSpace VSpace Align	Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Maecenas feugiat consequat diam. Maecenas metus. Vivamus diam purus, cursus a, commodo non, facilisis vitae, nulla. Aenean dictum lacinia tortor. Nunc iaculis, nibh non iaculis aliquam, orci felis euismod neque, sed ornare massa mauris sed velit. Nulla pretium mi et risus. Fusce mi pede, tempor id, cursus ac, ullamcorper nec, enim. Sed tortor. Curabitur molestie. Duis velit augue, condimentum at, ultrices a, luctus ut, orci. Donce plentesque egestas eros. Integer cursus, augue in cursus faucibus, eros pede bibendum sem, in tempus tellus justo quis ligula. Etiam	<
	OK Canc	el

🖉 CMSDesk - Select file -- Webpage Dialog X 🔚 Select file 🛃 Upload file Site: CorporateSite 🔽 🖃 🎱 Corporate Site 📄 Home File name File size (bytes) 🗄 📄 Services 连 📄 Products Services_webdevelop.jpg 111843 Paste image 🖲 📄 News 🖲 📄 Partners Services_webdesign.jpg 41458 Paste image 🖲 📄 Company 🖲 📄 Blogs Services_network.jpg 63336 Paste image 🗆 📄 Forums 🖲 📄 Events 4081 CompanyLogo.gif Paste image 🖲 📄 Images 37552 3197 Paste image homepage.jpg 🗄 📄 Wiki 🖲 📄 Examples 🖲 📂 Special pages 😑 눧 Images 당 Services_webdevelop 😸 Services_webdesign 🔠 Services_network 🔚 CompanyLogo 🛃 People 🧐 Local intranet http://localhost/30_44/CMSDesk/Content/SelectImageDialog/default.aspx?select=image

Click Browse Server and click the Images folder in the content tree:

Click the **Upload file** button in the upper right corner. Now click the **Browse** button and locate some image on your local disk:

🖉 Content - Edit	Webpage Dialog	×
📙 <u>Save</u>	Save and create another 🛛 🔯 Spell check	
Upload file:	C:\Documents and Settings\petrp\Desktop\Computer1.jpg	
File description:		
http://localhost/30_44	/CMSDesk/Content/EditFrameset.aspx?action=new&nodeid=: 🧐 Local intranet	.::

Click **Save**. The image is uploaded to your server and stored in the CMS. Click **Paste image** on the image preview page.



Click OK on the Image Properties dialog to insert the image into the text. Your page will look like this:



Click Save to save the changes. Click Live site to see the new version of your page.

You have learned how to upload an image and insert it into the text.



3.5 Creating a link

Now we will create a link between the **Services** page and our **System Integration** page. Click **Services** in the content tree and make sure you have the **Edit** mode selected.

Add a new item in the bulleted list called **System integration**:

ext
rices
Text
de professional services in the following areas:
<u>/eb_development</u> <u>/eb_design</u> <u>etwork_administration</u> ystem integration
simple page with left menu and content on the right. You ca dit Link button in the editor toolbar.
7 7 7 7 7 7 7 7 7 7

Select the whole line:

Services

HeaderText

Our Services

ContentText

We provide professional services in the following areas:

- Web development
- Web design
- <u>Network administration</u>
- System integration

This is a simple page with left menu and content on the right. You car Insert/Edit Link button in the editor toolbar. And click the Insert/Edit Link button in the WYSIWYG editor toolbar. The Link dialog opens.

🙆 Link V	/ebpage	e Dialog			×
Link					
Link Info	Target	Advanced			
Link Type URL		*			
Protocol http://	URL		 		
Browse S	erver				
				OK	Cancel

Click Browse Server. The document selection dialog opens. Select the Services -> System Integration page and click OK.

🖉 Content - Select document Webpage Dialog		
Nelect document		
Site: CorporateSite 💌		
🖃 🎱 Corporate Site		^
👘 📄 Home		
🚊 📄 Services		
📄 📄 Web Development		
📄 📄 Web Design		
🛛 📄 Network Administration		
🗄 📄 System Integration		
😟 📄 Products		
连 📄 News		
连 📄 Partners		
连 📄 Company		
🗈 📄 Blogs		
🖳 📄 Forums		
😟 📄 Events		
連 📄 Images		
连 📄 Wiki		
連 📄 Examples		
🗈 🍃 Special pages		
💼 🖻 Images		*
Document name: System Integration	ОК	Cancel
http://localhost/30_44/CMSDesk/Content/SelectLinkDialog/default.aspx	🧐 Local intranet	

Click OK on the Link dialog to create the link. The text is now marked as a link:



Click **Save** and choose the **Live site** mode. When you click the **System integration** link now, you're redirected to the new page.

You have learned how to create a link between pages.

3.6 Creating a news item

Now you will learn how to create a news item. Click **Edit** in the main toolbar. Click **News** in the content tree and click **New**. Choose to create a new document of type **News**. You are redirected to the form that allows you to define news item sections: title, summary, full text and release date. Enter the following text:

- News title: My first news
- Release date: click Now
- News summary: Some summary text.
- News text: Some news text.

Click **Save** to save the new document.



As you can see, the editing mode is now set to **Form** instead of **Page**. It means you do not edit the editable regions on the page, but you edit the structured data related to the document. The **Form** tab is used for editing the **structured data related to the document**. The document fields are fully customizable for every document type.

When you click **Live site**, you will see the news item displayed using a pre-defined transformation in both News and News -> My first news page:

Compa	ny <mark>Logo</mark>			
Home Services	Products News	Partners	Company	Blogs
<u>News</u> > My first news				
My first news				
1/20/2008				
Some summary text.				
Some news text.				

You have learned how to add a news item and how to use the editing form for structured documents.



Page versus Form

There are two faces of document: content stored in editable regions on the page and data stored in form fields. The following table compares both approaches:

	Editable regions on the page	Form
Content structure	Simple content structure, only text content.	Complex content structure, typed data, such as text, date-time, numbers, etc.
Validation	Only basic validation rules for minimum and maximum length.	Complex validation rules, including regular expressions and custom form controls with custom validation code.
Display	The content is displayed in the context of the page as it is displayed in the editing mode.	The content is displayed using XSLT or ASCX transformations using special controls or web parts.
Storage	The content is stored in a single XML document in the document properties.	The content is stored in a separate database table. Each field has its own column. The data can be easily modified using SQL queries or API.
Examples of use.	Home page, contact page. Generally: pages with simply structured or unstructured text-based content. The editable regions are usually used for documents of type Page (menu item) .	News, product specification, event details, job opening, etc. Generally: pages with structured content where you need to separate content from design and keep the content in its original data type. The form-based content is usually used for documents of type News , Product , Article etc.



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4 Site Development Overview

4.1 Site Development Overview

Kentico CMS provides two development models and you can choose which one suits you better:

• **Portal Engine** - this model allows you to build web site using a portal engine. It's the recommended way for most developers since it doesn't require programming and using Visual Studio. You can easily build web site using web parts in the **browser-based** user interface.


• <u>ASPX Templates</u> - this model can be chosen by advanced ASP.NET developers who prefer to create the web site using standard ASP.NET architecture and using standard development tools, such as **Visual Studio 2005**. You need to be familiar with ASP.NET development and have at least basic programming knowledge of C# or VB.NET.



Both approaches are fully supported and they provide the same level of flexibility and extensibility. We recommend that you use the portal engine model, but if you're a hard-core .NET developer and do not trust portal engines, you may want to use ASPX templates.

Both models can be combined in a single web site and you can e.g. enhance the portal engine web site with ASPX templates or even with your own ASPX pages and integrate your own applications.

	Portal Engine	ASPX Template
How you work	You build web site using the browser- based interface.	You build ASPX page templates that are used to display content from Kentico CMS.
	required for common tasks.	At least basic programming knowledge of ASP.NET and either C# or VB.NET is required.
How you assemble pages	You use built-in or custom web parts that you place into customizable page layouts.	You use built-in or custom ASP.NET server controls that are placed on the ASPX pages. These are standard ASPX pages and they are part of the web site project that you can open in Visual Studio 2005.
		You can also place web parts (which are actually standard ASCX user controls) on the page templates if the functionality is not available as a server control.
Master pages and visual inheritance	Sub-pages inherit the content from the parent pages by default (so called "visual inheritance"). The inheritance can be optionally broken if you want to create a page without parent content.	All page templates (.ASPX pages) may use a master page, which is a standard ASP.NET 2.0 master page (.master page).
		The pages do not inherit content from their parents, they only inherit content from the master page (if it's used).
Custom code integration and extensibility	You can create your own user controls and web parts if you need to integrate a specific functionality.	You build standard ASPX pages with code-behind which means you can use any custom controls and code on the page in Visual Studio.
	code to the web parts or user controls that you use on your web site.	
	You can also use standard ASPX pages within your portal engine-based web site.	
Advantages	 Easier and faster way of building a web site. ASP.NET programming knowledge is not required for common tasks. You can build the whole web site very quickly, only using the web browser. 	 Standard ASP.NET architecture. You can use your favorite development tools, such as Visual Studio 2005 for all changes.
Disadvantages	 Proprietary architecture and development. 	 Requires ASP.NET programming knowledge.

The following table compares both portal engine and ASPX templates:

Is Kentico CMS just another portal engine?
Now you may ask what's the difference between Kentico CMS and DotNetNuke or SharePoint.
 Well, the main difference is the flexibility. Kentico CMS gives you a full control over: site structure site navigation page layout design content structure
 Also, it's important to explain that Kentico CMS is a content management system, not only a portal engine. It provides features of advanced CMS systems, such as: content repository with a logical tree hierarchy of documents content/design separation custom document types with custom fields workflow and versioning content locking (check-out, check-in) multilingual content content preview and content staging document-level permissions with permission inheritance full-text search in all content document management features for uploaded files
Moreover, Kentico CMS comes with many professional and flexible built-in modules out-of-the-box , including Newsletters, On-line forms, Forums, E-commerce, Content Staging, Image gallery, Event calendar, Booking system, Blogs, Polls and others
It means you do not need to purchase third-party modules with inconsistent user and programming interface, but you get everything from a single source, with a complete documentation.

The rest of this tutorial explains the portal engine approach. If you want to use the portal engine, please read the Tutorial for portal engine.



5 Creating pages using the portal engine

5.1 Page templates

Kentico CMS portal engine provides a highly flexible and extensible framework that allows you to build complex dynamic web sites using built-in and custom web parts. This chapter explains how the portal engine works.

What is a page template?

Every web page is based on some page template. The page template can be specific for a single web page (so called "ad hoc" page template) or it can be re-used for several pages. The following picture shows an example of two pages that use the same page template:



As you can see both of them use the same header, main menu, sub-menu, content structure and footer - they are based on the same **page template**. In this way, you can create multiple pages using the same design.

What does the page template consist of?

The page template is a combination of page layout (HTML code) and web parts. The following figure illustrates the structure of the page template and how it's used to display a page:



As you can see, the **page layout** is a simple, fully customizable HTML code that defines the design of the page and it contains web part zones. The **web part zones** can contain web parts. The **web parts** display page content or provide some functionality, such as input form. The layout and the web parts

together define the page template.

When you add **page specific content** to the page template, you get the final **page**.

5.2 Overview of web parts

Now you will learn how to modify the page template. Click the **Home** page and click the **Design** tab. You will see the structure of the home page template. The main logo and main menu are inherited from the root page. The "active" part marked with green box contains the yellow web part zones and blue web parts:



The page is based on the page template *Home page with top image and three columns*. The **page template** consists of **web parts** that are placed inside **web part zones**. The web part zones are organized in the page layout (HTML layout) that specifies the placement of the zones within the page.

When you click the **Edit layout** button in the green header of the active page template, you can edit the page layout:

Page Design Form Product Properties	☑ Display web part content
	Current user: Global Administrator (administrator)
🔲 Page layout	\boxtimes
🗐 Save 🛛 🙆 Check out to file	
Check out the layout to file c:_test\30_44\CMSTemplat	eLayouts\cms\homepagewithtopimageand3cols.ascx to edit the layout externally.
Use the following expression to add a new web part zone (the ID must be unique within page layout)	<cc1:cmswebpartzone id="zoneTopRight" runat="server"></cc1:cmswebpartzone>
<pre><div class="homeTopImage3cols"></div></pre>	nneTon" runat="server" />
Left column	
<pre><div class="zoneLeft" style="floa</th><th>t: left;"> oneLeft" runat="server" /></div></pre>	
 Center column	
<pre><div class="zoneCenter" style="fl</th><th>pat: left;"> oneCenter" runat="server" /></div></pre>	
<pre> </pre>	at right.
<pre><ccl:cmswebpartzone id="z </div></pre></th><th>oneRight" runat="server"></ccl:cmswebpartzone></pre>	
<pre></pre>	

As you can see, the page layout is a simple HTML (or rather ASPX) code that contains controls called **CMSWebPartZone**. Each of them must have a unique ID. You can also see that you can use any HTML code for page formatting - it's up to you whether you use tables or CSS layout.

Editing the layout using an external editor

You can check out the file to the disk using the Check out to file button, edit it using Visual Studio or some other editor and then check it in.



5.3 Modifying the home page structure

Now you will learn how you can modify the home page structure. We will replace the polls on the left with a static text.

Click **Home** in the content tree and click the **Design** tab. Right-click the **Poll** web part and click **remove** and confirm the action.



Now click the plus icon 😐 in the **zoneLeft** zone.

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The Select web part dialog opens. Choose web part Text -> Static text and click OK.



The web part is added to the web part zone and the **Web part properties** dialog opens. Enter the following text in the Text property:

<h1>Welcome to our site</h1>	
<hl>Welcome to our site</hl>	

The dialog now looks like this:

Web part properties (Stati	ic text)	entation
Properties Layout Default		^
Default		^
ID:		
ID.	STATICTEXT	
Visible:	V	
Hide on sub-pages:		
Show for document types:	Select	
Display to roles:	Select	=
Content		
Text:	<hl>Welcome to our site</hl>	
HTML Envelope		
Web part container:	(none)	
Web part container title:		~
Refresh content	OK Cancel Apply	

Click **OK** to save changes. Click **Live site** in the main toolbar and see the new design of the home page:



Subscription	
First Name:	
Last Name:	
E-mail:	
	Subscribe

Welcome to our site

Welcome to Sample Corporate Site

This is a sample web site created with $Kentico\ CMS$ for ASP.NET. You can use it as a starter kit for your own web site and to learn Kentico CMS.

Default user name and password

You can sign in to CMS Desk (the administration interface) using the link at the top of the page or by going to http://localhost/KenticoCMS/CMSDesk (if you're using the default installation path). Use the following credentials:

User name: administrator Password: Leave the password blank.

Getting Started

<u>Kentico CMS Tutorial</u> will guide you through Kentico CMS. You can also get help at <u>http://www.kentico.com/Support.aspx</u>.

Now when you click **Edit** in the main toolbar, the home page is displayed in the editing mode, but the *Welcome to our site* text cannot be edited, since it is displayed using the **Static text** web part that doesn't enable content editors to edit the text (the text can be edited only by the web developer). If you want to create an editable region, you would need to add the **Editable text** web part.

You have learned how to modify the structure of an existing page template and how to work with web parts.



5.4 Creating a new page template

Now you will learn how to create a new page from scratch without using a pre-defined page template. We will create a new **About Us** page with two columns that will contain editable regions.

Click the root in the content tree and and click New. Choose to create a new Page (menu item).

Enter the page name **About Us** and choose to **create a blank page** using the **Two columns** layout. Make sure that the **Copy this layout to my page template** box is checked - it will ensure that your page template can use a modified version of the pre-defined layout without modifying other pages.

orate Site	
Save 🛛 Save and create another 🛛 🔯 Spell check	
	1
Page name: About Us	
◯ Use page template ◯ Inherit from parent page ④ Create a bl	ank page
Blank master page layout Corporate Site home page layout Corporate Site Master Page with Top Menu Grid 2x2 cells Grid 2x2 cells (CSS) Grid 3x2 cells (CSS) Simple Three columns Three columns (CSS) Top row, three columns, bottom row Two columns - 20/80 Two columns - 20/80 Two columns - 20/80 (CSS) Two columns - 30/70 Two columns - 30/70 Two columns - 70/30 Two columns - 70/30 Two columns - 80/20 Two columns - 80/20 Two columns (CSS) Two columns (CSS) Two columns, three columns Two columns, three columns Two columns, three columns	no image Two columns Two columns with web part zones.

Copy this layout to my page template

Click Save to create the new page. Use the Down button to move the page at the end.

The page cannot be edited now since it doesn't contain any editable regions. We will add an editable image region on the left and two editable regions on the right. Click **Design** and click the **+** icon in the **zoneLeft** web part zone.

Choose the Text -> Editable image web part and click OK.

🔊 Portal engine - Web part selection Webp	age Dialog	×
💼 Select web part		
Google services	Editable image	
€	ilit.	
ter and Navigation		
	Image is not available	
Editable image		
	The Editable text web part displays an editable region that contains single image.	
OK Cancel		
http://localhost/30_46_4/CMSDesk/PortalEngine/SelectWeb	oPart.aspx Second intranet	

Set the following values:

- ID: LeftImage
- Image title: Left image

Add another web part to the **zoneRight** zone: Choose the **Text -> Editable text** web part and click **OK** . Set the following property values:

- ID: HeaderText
- Editable region title: Header
- Editable region type: Textbox
- Content before: <h1>
- Content after: </h1>

Click **OK**. Add another **Editable text** web part to the right web part zone and set the following properties:

- ID: MainText
- Editable region title: Main text
- Editable region type: HTML Editor
- Editable region width: (leave empty)
- Editable region height: 400

Click **Page** and you will see a page with editable regions like this:



Now you can enter some content and choose some image using the **Select** button. Click **Save** and see the page in the **Live site** mode:



Congratulations, you have just created your first page template using web parts.

5.5 Re-using the page template

In the previous chapter, you have learned how to create a new page with its own, page-specific page template. This type of page template is called an **ad-hoc page template**.

Now, you will learn how convert the page-specific page template into a **re-usable page template** that can be used for several pages with the same layout, but different content.

Go to **CMS Desk -> Content**. Click the new **About Us** page and click the **Properties** tab. Click **Template**. Now you can see a dialog like this:

Page Design	Form Product	Properties
General		
Template		
Metadata		
Menu	Template:	ad-hoc 70f2222b-925e-41d5-b9ab-3c52d0c79296 Select
Workflow		🔂 Save as new template
Versions		hinherit template
Related docs		
Linked docs		
Security	Inherit content:	
		 Use page template settings Do not inherit any content Select inherited levels

Click **Save as new template** and enter the following values:

- Template display name: Left image with text on the right
- Template code name: LeftImageWithRightText
- Template category: Templates with editable regions
- Template description: Two columns with image on the left and text on the right.

🖉 Page template - Save	as new Webpage Dialog		×
🛃 Save as new p	age template		
Template display name:	Left image with text on the right		
Template code name:	LeftImageWithRightText		
Template category:	Templates with editable regions	~	
	Two columns with image on the left and text on the right.	^	
Template description:			
		~	
	OK Cancel		
http://localhost/30_46_4/CMSE	Desk/PortalEngine/SaveNe 🧐 Local intranet		

Click OK and click Save on the Template dialog. The dialog now looks like this:

Page	Design	Form	Product	Properties
Genera	 =te	ŀ] <u>Save</u>	
remp				
Metada	ta	-		
Menu		ler	nplate:	Left image with text on the right
Workflo	W			🛃 Save as new template
Version	s			Inherit template
Related	docs			Second the strength
Linked	docs			Solutione as ad-noc template
Security	/			Edit template properties
		Inh	erit content:	
				 Use page template settings Do not inherit any content Select inherited levels

You have just created a new re-usable page template. If you try to create a new page now, the page template will be offered and you can create another page with the same structure as the About Us

page.

Е	
L	

Modifying shared page templates

Please note that when you modify the re-usable page template, the changes will affect all pages that use this page template!

5.6 Visual inheritance

The content of sub-pages is displayed using the page placeholder web parts. The impact of this approach is that the sub-page content is "nested" inside the content upper pages. The following picture shows the root (master page) without nested content:

C	IS Desk	C	ontent	My Desk	Tools Administration Switch to Site Manager Site: Corporate Site User: Global Administrator Sign Out	v3.0
New	Delete Copy	Move	1 Up	Down	Edit Ive site I List	0
- 0	Corporate Site				Page Design Form Product Master page Properties	0
	E Home Services Products				Save Spell check	
÷.	E News				図Source Q ※略隐隐@ @ /> □ M % 圖2 B Z 型## * ¥ 扫扫 律律44 書書書 \$\$\$\$\$\$\$	
	Company				i La 🕐 □ == 🥹 🖓 🖓 i 📄 i 📄 🔍 i Style - Format - Fort - Size - V i 🆓 - 🆓 - V i 🖓 - V i 🖓	
٠	📄 Blogs 📄 Forums				Current user: Global Administrator (administrator)	^
* * *	E Events Images Wiki				Control Contro	
÷.	Examples				Search: Search	
: :: :: :	 Special pages Images 			4	Home Services Products News Partners Company Blogs Forums Events Images Wiki Examples About Us	
Doc	iments Search				Version: 3.0 Build: 3.0.2	2941



... and here's the home page nested inside the master page:

Please note how the pages are structured in the content tree: the root page is parent of the Home page which is loaded inside the master page. You can do the nesting recursively at any level of the content tree. The important component of page nesting is the **Page placeholder** web part. This web part must be placed in the master page and it specifies the place where the underlying page will be inserted. The Page placeholder in the Corporate Site root loads the sub-pages between the main menu and footer:

Corporate Site	Page Design Form Product Master page Properties	2
Services Products Products		

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5.7 Configuring visual inheritance

In some cases, you may want to hide some parts of the parent page. There are several ways how to achieve that:

Using the "Inherit content" property of the page template

Click the **/News** page and click **Properties -> Template -> Edit template properties**. Now you can set the **Inherit content** value to **Selected inherited levels** and check only the **Level 1** box. It means that only the content from first level of content hierarchy will be displayed and the master page (root) is not inherited. Click **OK** to save the changes.

🔊 Page Templates Webpage Dialog 🛛 🕅						
Page template properties						
Templates 🕨 News with s	ummary					
General Sites Layout	General Sites Layout Web parts Header					
<u>u</u>		^				
Thumbnail:	I.png Upload: Browse					
Template type:	Ortal page OASPX page					
Show as master templat	Show as master template:					
innen content.	O Do not inherit any content					
	 Select inherited levels 					
	····· LevelO					
	Evel1					
	Evel2					
	Level3	_				
	Level4	=				
	Level5					
http://localhost/30_46_4/CMSSil	teManager/Development/PageTemplates/PageTemplate_Edit.aspx?temp 🧐 Local intranet					

CMS Desk	ntent My Des	k Tools Administration Switch to Site Manager Site: Corporate Site 🗸 User: Global Adr
New Delete Copy Move	Up Down	Edit Preview Dist
🖃 🌍 Corporate Site		News
Home		
Services		News
Produces		This was a subject of the factor with a band on a line destruction. The same can be disclosed in an bird, when the subject of
🖲 📄 Partners		This page contains a list of news with a neader and introductory text. The news can be displayed in multiple ways depending on chosen transit
🖲 📄 Company		My first news 1/20/2008
🖲 📄 Blogs		
Forums		Some summary text.
Events		
ie 📄 Wiki		Your second news 1/15/2008
🖲 📄 Examples		
🖳 📄 About Us		Here you can enter the summary of the news item. You can use WYSIWYG editor to format the text, insert links and images. The summary
🗈 📂 Special pages		preview.
🗉 📂 Images		
		- <u>Your first news</u> 1/10/2008
		Here you can enter the summary of the news item. You can use WYSIWYG editor to format the text, insert links and images. The summary
		preview.
		XML

The page will look like this:

Set the value back to inheritance from Level0 only and click Save.

Similarly, you can set the content inheritance on **page level** using the **Properties -> Template** dialog. The content inheritance settings you configure for the page override the page template settings:

Corporate Site	Page	Design	Form	Product	Properties	
me Home						
🗈 🖻 Services		General		Roup		
🖶 📄 Products	Template			ave <u>ave</u>		
	Metada	ta				
🗐 ·· 📄 Company	Menu		Ter	nplate:	News with summary Select	
🖲 📄 Blogs	nona				,	
Forums	Workflo	low			🛃 Save as new template	
🗐 📄 Events	Versions				🔊 Inherit template	
'≢'' ⊑ Images € Ē Wiki	Related	docs			Clone as ad-hoc template	
🗈 📄 Examples	Linked d	locs				
E About Us	Security	,			Edit template properties	
t → b openia poges t → b Images	Jecuity		Inh	erit content:	 Use page template settings Do not inherit any content Select inherited levels V Root 	

Using the "Hide on sub-pages" web part property

Every web part has the property called "Hide on sub-pages". When you check the box, the web part is hidden if some sub-page is displayed.

Using the "Show for document types" web part property

The **Show for document types** property allows you to define a list of document types for which the web part will be displayed. Click **/News**, click **Design** and click **configure** in the **BreadCrumbs** web part. The **Show for document types** field is set to the **News** document type. Do not make any changes and click **Cancel**.

http://127.0.0.1/CMS30/CMSDesk/Port	alEngine/WebPartProperties.aspx?aliaspath=%2fNews&zoneid=zoneLeft&webpartid=BreadCrumbs&instanc	:eguid=ur 💙						
		Intp://127.0.0.1/CMS30/CMSDesk/PortalEngine/WebPartProperties.aspx?aliaspath=%2fNews&zoneid=zoneLeft&webpartid=BreadCrumbs&instanceguid=ur						
Web part properties (Br	eadcrumbs)	<u>umentation</u>						
Properties Layout								
Default								
ID:	BreadCrumbs							
Visible:								
Hide on sub-pages:								
Show for document types:	cms.news Select							
Display to roles:	Select							
Content								
Selected path:	Select							
Default path:	Select							
Starting path:	/ Select							
Class names:	Select							
Refresh content	OK Cancel Ap	oly						

Go to the live site, to the **News** page. The breadcrumb navigation is hidden since the currently selected document type is a page:

Home Services Produ	cts News	Partners	Company
---------------------	----------	----------	---------

News

This page contains a list of news with a header and introductory text. The npart.

Your second news 1/15/2008				
Here you can enter the summary of the news item. You can use WYSIW news item preview.				

When you go to some particular news item, the currently selected document is a news item and the breadcrumb navigation is displayed:

Home	Services	Products	News	Partners	Company

News > Your second news

Your second news



1/15/2008

Here you can enter the summary of the news item. ` The summary will be used in news item preview.

You have learned how to break inheritance of content and how to display content based on the current document type.

5.8 Web part containers

The web parts can display only its own content or they can be rendered with a "container". The container consists of HTML code that is rendered before and after the web part.

Switch to the **CMS Desk** and click **Live site**. The **Newsletter subscription** web part uses the black container:

With container:	Without container:		
Subscription First Name: Last Name: E-mail: Subscribe	First Name: Last Name: E-mail: Subscribe		

The container is useful when you need to organize the page layout into separate boxes. You can choose the web part container when you configure the web part in the **Design** mode.

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CMS Site Manager Sites Administration Settings Development Licenses Support Buy Development **Container properties** ...考 CSS stylesheets 🕙 Countries Web part containers
 Black box 🍓 Cultures 😪 Document types 🙈 E-mail templates Container display name: Black box 🐭 Form controls Container code name: BlackBox 🔙 Inline controls 🝓 Modules <div class="blackBox"> <h2 class="title">{%ContainerTitle%}</h2> 🛐 Page layouts <div class="content"> les Page templates 📲 Relationship names ill System tables 🍘 UI cultures Web part containers 鷸 Web parts Text before web part: o Web templates 🥪 Workflows </div> </div>

The containers can be edited in the Site Manager -> Development -> Web part containers section.

Here's an example of the **Black box** container code:

Text before web part:

```
<div class="blackBox">
<h2 class="title">{%ContainerTitle%}</h2>
<div class="content">
```

Text after web part:

```
</div>
</div>
```

As you can see the container is a simple HTML code. It can use DIVs or a TABLE element. The {% ContainerTitle%} expression indicates where the container title should be displayed. It's dynamically substituted when the web part is displayed.

5.9 Adding custom code to your web site

The easiest way how to insert custom code into the portal engine-based web site is using the standard ASCX user controls. This chapter will show you how to do that. If you're not familiar with Visual Studio development, you can skip this chapter.

Current time example

In this example, we will create a simple user control (ASCX) using Visual Studio 2005 (or 2008) and integrate it into our home page.

Open the web site project using the WebProject.sIn file that is placed in the folder where you deployed the web site. Right-click the web project in the Solution Explorer window and click the **Add new item...** option. Choose to create a new Web User Control and set its name to **GetTime.ascx**. You can set the programming language option to either Visual C# or Visual Basic.

Add New Item -	C:_Test\21a_1\					? 🗙
Templates:						
Visual Studio i	nstalled templates					^
Visual Studio installed templates Web Form HTML Page Style Sheet XML Schema SQL Database Site Map Report Mobile Web Configuration File Browser File My Templates		Master Page Meb Service Veb Configura Text File DataSet Mobile Web Fo SCript File XSLT File Class Diagram	ition File rm	Web User Contro Class XML File Resource File Control File Control File Nobile Web User Skin File	ol r Control	
An ASP.NET serve	r control created using	the visual designer				
<u>N</u> ame: Language:	GetTime.ascx Visual C#	~	Place code	in separate file		
				rret hage	Add	Cancel

Click **Add**. Switch to the **Design** mode and drag and drop the following controls and set their properties:

Button control:

- ID: Button1
- Text: Get time
- Label control:
- ID: Label1
- Text: <clear the value>



Double-click the Get time button and enter the following code to the Button1_Click method:

[C#]

Label1.Text = DateTime.Now.ToString();

[VB.NET]

Label1.Text = DateTime.Now.ToString()

This code ensures that the label displays current date and time when the button is clicked. It's not necessary to compile the project - the user controls are compiled at run time.

Save both the ASCX and ASCX.CS files.

Adding the user control on the page

Sign in to Kentico CMS Desk, click the Home page and click **Design**. Add web part of type **General -> User control** to the left zone. Choose to add the General/User control web part. Enter the following value in the User control virtual path property:

~/GetTime.ascx

The ~ character represents the root of your web application. Click **OK**. Click the **Live site** mode and now you can see the user control inserted into the page. When you click the **Get time** button now, the current date and time is displayed next to the button:

Get time 1/20/2008 7:49:45 PM

User controls versus web parts

Another option how to insert custom code into the page is creating your own web part. A web part is basically also an ASCX user control, but it inherits some standardized properties and methods from the CMSAbstractWebPart class. You will build web parts in case you need to create re-usable, parameterized user controls. The web parts are described in the next chapter.



6 Developing web parts

6.1 Web part development overview

Web parts allow you to add your custom .NET code inside the web site. They allow you to display content or add some functionality on your web site.

A web part is a user control (ASCX) that inherits from the CMSAbstractWebPart class. You can easily create your own web parts using Visual Studio 2005/2008 or Visual Web Developer 2005/2008 Express Edition.

Web parts can be managed in **Site Manager -> Development -> Web parts**. Each web part has the following properties:

Web part display name	The name of the web part displayed to the users.				
Web part code name	The name of the site used in the code.				
Web part category	Here you can choose the category of the web part catalog where the web part is placed.				
	Contains a relative path to the user control that implements the web part. The path starts from the CMSWebParts folder. Example:				
Web part file name	Search/cmscompletesearchdialog.ascx				
	It's recommended that you organize the web parts on the disk in the same way as in the categories.				
Web part description	Description.				
Thumbnail	Image used in the web part catalog.				

CMS Site Manager Sites	Administration Settings Development	Licenses Support Buy Switch to
Development CSS stylesheets Countries Countries Countries Countries Countries Countries Countries Countries Countries Countrols Cou	Web parts New web part Export selected item New category Cone web parts Signature BizForms Signature BizForm (on-line form) Signature BizForm B	Web part properties V/eb parts > BizForm (on-line form) General Properties Layout Documentation Web part display name: BizForm (on-line form) Web part code name: BizForm Web part category: BizForms Web part file name: BizForms/bizform.ascx The BizForm web part allows you to insert your own BizForm on the page. Thumbnail: Upload: OK

On the **Properties** tab, you can define the web part properties and how they appear in the **Web part properties** configuration dialog. Each web part must have at least the following properties (they are created automatically when you define a new web part):

WebPartControlID	ID of the web part on the page.			
Visible	Indicates if the web part should be displayed.			
HideOnSubPages	Indicates if the web part should be hidden on sub-pages.			
ShowForDocumentTypes	The list of document type code names separated with a semicolon (;) for which the web part should be displayed (if they are selected as the current document).			
DisplayToRoles	The list of roles the web part should be displayed to.			
Container	Container (box) displayed around the web part. This value contains the code name of the container defined in Development -> Web part containers .			
ContainerTitle	Container title displayed if you specify the container.			
ContentBefore	HTML content displayed before the web part. You can use it to display some header or add some encapsulating code, such as <div> or element for required layout.</div>			
ContentAfter	HTML content displayed after the web part. You can use it to close the tags contained in the ContentBefore value, such as or element for required layout.			

The structure of the web part, content before/after and container is following:

Container
ContentBefore
Web part (ASCX) content
ContentAfter



Storing files related to a web part

If your web part consists of several files (such as ASCX controls, images, js scripts, etc.), you should place these files in the subfolder under the folder where your main web part ASCX file is placed. If the name of the web part is MyWebPart.ascx, the subfolder name must be MyWebPart_Files. It will ensure that the additional files are exported/imported correctly when you move your web site or when you distribute the web part to other developers.

6.2 Creating a simple web part

This chapter will guide you through the process of creating a very simple "Hello world" web part that displays a label and a button. When the button is clicked, it updates the current time displayed in the label.

- 1. Open the web project in Visual Studio 2005 (or Visual Web Developer) using the **WebProject.sIn** file or using **File -> Open -> Web site** in Visual Studio.
- 2. Right-click the **CMSWebParts** folder in the **Solution Explorer** window and choose **New Folder**. Rename the folder to **MyWebParts**.
- 3. Right-click the **MyWebParts** folder and choose **Add New Item**. Choose to create a new **Web User Control** and call it **HelloWorld.ascx**.



4. Display the **HelloWorld** control in Design mode. Drag and drop a new Button control and a new Label control on the form:

💞 WebProject - Microsoft Visual Studio					
<u> Eile E</u> dit <u>V</u> iew Website <u>B</u> uild <u>D</u> ebug I	F <u>o</u> rmat La <u>v</u> out <u>T</u> ools <u>W</u> indow	Community	Help		
🛅 + 🛅 + 💕 🛃 🥔 🐰 🗈 🛍 🤊 -	🔍 - 🚛 - 🖳 🕨 Debug	✓ Mixed	Platforms	- 🆄 🚦	i 🖽 📇 👗 💂
· · · ·	B I <u>U</u> A A ≡ -	E 1 🗄 🛛		- 🎸 🗟	-
Toolbox + P ×	CMSWebParts/loWorld.asc	* • X	Solution Explorer - Solut	ion 'WebProject'	(1 project) 🗕 🕂 🗙
Standard				3 🗐 🖬 🥻	•
	Button		Solution 'WebProje	ect' (1 project)	_
abl TextBox	Pahal		E. C. C. Code	a17\ ;	
ab Button			庄 🛛 📝 App_Them	nes	
LinkButton			🖭 📷 Din 🖅 🔁 CMSAdmin	Controls	
ImageButton			🗄 🗠 🔁 CMSContro	olsExamples	
				Iontrols	
= ListBox		-	🗄 🗠 🔁 CMSInstall		
CheckBox	Design 🛛 Source 📔 📢	<body></body>		ages	<u> </u>
Output		+ ₽ ×	Properties		• 4 X
Show output from:	• P A B, 🛒 🖃				•
			Language C#		
			Language Specifies the language used when compiling all inline		
📸 Error List 🔳 Output 🕵 Find Symbol Results 🕞		rendering (<% \gg and <%= \gg) and code declaration			
Ready					

5. Double-click the Button control and add the following code to the Button1_Click method:

[C#]

Label1.Text = DateTime.Now.ToString();

[VB.NET]

Label1.Text = DateTime.Now.ToString()

6. Add the following line to the beginning of the code:

[C#]

using CMS.PortalControls;

[VB.NET]

Imports CMS.PortalControls

7. Change the following line:

[C#]

```
public partial class CMSWebParts_MyWebParts_HelloWorld :
System.Web.UI.UserControl
```

to

```
public partial class CMSWebParts_MyWebParts_HelloWorld : CMSAbstractWebPart
```

[VB.NET]

```
Partial class CMSWebParts_MyWebParts_HelloWorld
Inherits System.Web.UI.UserControl
to
Partial class CMSWebParts_MyWebParts_HelloWorld
Inherits CMSAbstractWebPart
```

It ensures that the user control behaves as a web part.

Please make sure that inheritance is set to Inherits="CMSWebParts_MyWebParts_HelloWorld" in the HelloWorld.ascx file, as Visual Studio does not always change it automatically.

8. Add the following code to the Page_Load method:

[C#]

Button1.Text = (string) PartInstance.GetValue("ButtonText");

[VB.NET]

(Visual Basic.NET doesn't create the Page_Load method automatically, so you need to add the whole method:)

```
protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) _
Handles Me.Load
Button1.Text = CType(PartInstance.GetValue("ButtonText"), String)
End Sub
```

It sets the button text to the value configured in Kentico CMS Desk.

- 9. Save all changes.
- 10.Open Site Manager -> Development -> Web parts, click the root and click New category. Enter My web parts into the Category display name field, MyWebParts into the Category name field and click OK.
- 11.Click the new category and click **New web part**. Click the **Create a new web part** radio button and enter the following values:

- Web part display name: Hello world
- Web part code name: HelloWorld
- Web part file name: MyWebParts/HelloWorld.ascx
- Click OK.
- 12. Switch to CMS Desk.
- 13. Click the **Services** page in the content tree and switch to the **Design** mode.
- 14. Add the new **Hello world** web part to the left zone and set the value of the **Button text** field to *Hello world*!
- 15. Now switch to the **Live site** mode. You will see the button with text Hello world! When you click it, the label displays current date and time:

Hello world!

1/21/2008 11:55:54 AM

You have learned how to create a simple web part.



Tip: Displaying content on the web part

You can also use Kentico CMS Controls on the web part to display content from Kentico CMS.

6.3 Web part modifications

Web part cloning

If you need to copy or modify the behavior of some web part, you can clone the web part. It ensures that your changes won't be overwritten with the nearest upgrade.

You can clone a web part in **Site Manager -> Development -> Web parts**. Choose the original web part and click **Clone web part**. Then, you can modify the web part code in Visual Studio.

Web part layout

Custom web part layouts allow you to modify the design of web parts. It's useful if you need to change the look of some dialog or hide some field.

Go to **CMS Desk**, choose the **Design** mode, open web part properties and switch to the **Layout** tab. Here you can choose to create a new layout and modify its HTML code. Please note: you always need to keep all ASP.NET controls in the layout. If you need to hide some of the controls, just add the Visible="False" attribute to the control.

Web part inheritance

Web part inheritance allows you to create web parts with pre-set values for particular purpose. You can, for example, create a specialized web part for displaying news, inherited from the Repeater web part. You will define default values for the relevant properties so that the Repeater web part displays news items without additional configuration. It may speed-up your work.

You can create an inherited web part by going to **Site Manager -> Development -> Web parts**, clicking **New web part** and choosing to **inherit** from an existing web part.


7 Managing styles and design

7.1 CSS styles

The design of the web site relies on standard CSS styles. Each web site has its global CSS stylesheet that can be chosen in **Site Manager -> Sites -> ... edit site ... -> General**. Here you can choose also a different CSS stylesheet used by WYSIWYG editors.

Besides, each page can overwrite the global CSS stylesheet by setting is own stylesheet in CMS Desk -> Content -> ... edit some document ... -> Properties -> General.

The CSS stylesheets can be managed in the Site Manager. When you're in CMS Desk, you can easily switch to the Site Manager by clicking the **Switch to Site Manager** link in the header:



Then click Development in the Site Manager main menu and click CSS stylesheets in the left menu:



Edit the Corporate Site stylesheet:

General Sites		
틙 Save ြ	eck out to file	
Check out the styleshee	t to file c:_test\30_52\CMSCSSStylesheets\CorporateSite.css to edit the stylesheet externally.	
Stylesheet display name:	Corporate Site	
Stylesneet code name:	CorporateSite	
Stylesheet text:	<pre>/*#Global#*/ .LTR, .RTL { background-color: #ffffff; } body { background-color: #ffffff; font-size: small; font-family: Arial; margin: Opx; } h1(color: #ffa2le; font-size: 160%;) h2(font-size: 130% }</pre>	Blog Carrier Containers Black box Content padding Gray box Orange box with grey cc Events Examples Change password Drop down menu My profile PagerControl Report Vertical css menu Forum Global Language Selector Logon form Message & Errors labels Grid Main styles
	<	Blog page

Example:

Change the background color of the .LTR, .RTL style to **#fef3b8**, click **OK** to save the changes. Switch back to **CMS Desk** and see the live site. The site background will be yellow.

Please note: you may need to right-click the page and choose Refresh (in Internet Explorer) in order to see the latest version of the style.





- Filelox. Geckt
- Safari: Safari

7.2 App themes

In some cases, you may leverage the built-in support for ASP.NET themes. You can use them for setting styles of controls that do not have their own CSS class name, such as Datagrid, Calendar or web parts with complex dialogs (logon form, registration form, ...).

The name of the theme folder under App_Themes must be same as the code name of the site CSS stylesheet. So if you use the Green stylesheet on your site, your theme must be stored in the App_Themes\green sub-folder under your web project.

You need to add your skins to the default.skin file. Here's an example of CMSCalendar / Calendar web part skin:

The code above defines the look of the Event calendar control. You can see this control on the Events page in the sample Corporate Site.



Where should I store web site design files?

It's recommended that you store all images or Flash movies that are part of the web site design template in folder app_themes/<stylesheet code name>. This ensures that the files are exported together with web site when your deploying it to some other server.

7.3 Menu design

Now you will learn how to change the design of the main menu. The main menu used in the sample Corporate Site is displayed using the **Drop-down menu** web part which is based on the **CMSMenu** server control.

The menu design depends primarily on the CSS styles. Here's an example of the CSS styles for the drop-down menu:

```
.horizontalmenu{
      background: #000 url(../App_Themes/CorporateSite/Images/
topMenuBackground.gif);
.horizontalCMSMenu
Ł
      height: 34px;
      color: #fff;
      padding: 3px;
      background: #000 url(../App_Themes/CorporateSite/Images/
topMenuBackground.gif);
.horizontalsubCMSMenu
ł
      background: black;
      color: #fff;
.horizontalsubCMSMenu tr
{
      background: black;
.horizontalsubCMSMenuItem
{
      white-space: no-wrap;
      display: block;
. . .
```

As you can see these are standard CSS styles. You can modify the styles in the global CSS stylesheet of the given site.

The default menu looks like this:

Home Services Products News Partners Company Blogs

Now we will change the background color of selected menu items to orange. Go to **Site Manager -> Development -> CSS stylesheets** and edit the **Corporate Site** stylesheet. Choose **Top menu styles -> Horizontal** in the right navigation panel. Change the highlighted line:



Click **OK** to save changes. When go to the live site now, you will see a menu like this:

Home	Services	Products	News	Partners	Company	Blogs
------	----------	----------	------	----------	---------	-------

Defining different styles for different menu levels

When you mouse-over the menu you will see that the sub-menus are displayed in different colors:

Home	Services	Products	News	Partners	Cor
		Cell phones			
		PDAs			
		Laptops			

The sub-menu styles can be configured using the **CSS prefix** property of the **Drop-down menu** web part or the CSSPrefix property of the CMSMenu control.

In the sample Corporate Site project, the property is set to "horizontal;horizontalsub". It means that the CSS styles for the first level of the menu use styles like horizontalCMSMenuItem, while the sub-menus on the second and further levels are displayed using the CSS styles with prefix horizontalSub, such as horizontalSubCMSMenuItem. In this way, you can define different CSS styles for any level of the menu structure.

Defining the style of a single menu item

Every document may have its own style that is used when the document is displayed in the menu. We will try to modify the style of the **Home** menu item. Go to **CMS Desk -> Content** and click **Home**. Click **Properties -> Menu**. Here you can define:

- Menu caption the name of the document when it's displayed in the menu.
- Show in navigation indicates if the document should be displayed in the navigation controls
- Show in site map indicates if the document should be displayed in the site map
- Menu item design for standard, mouse-overed and highlighted menu item.

Enter the following value into the **Menu item style** value (under the Menu item design section): **background-color:** red; and click **Save**. Click **Live site**. Click **Services**. The **Home** menu item is now displayed in red:

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8 Creating a new site using the portal engine

8.1 Overview

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This tutorial will guide you through the creation of a simple web site. You will learn how to define site structure and design and how to create your own pages and page templates.

During this tutorial, we will use a static web site template that is similar to what a developer gets from graphic designer. It looks like this:



You can find the static page template in folder C:\Program Files\Kentico CMS\<version>\CodeSamples\SampleWebTemplate. The template consists of the home.htm file, styles folder and app_themes folder with images.

8.2 Creating a new web site using a wizard

The following chapters assume that you have previously installed a sample CorporateSite on your computer. We will leave the existing web site and add a new web site that will run on http://127.0.0.1.

Multiple sites and VS20
If you're using the built-in stop the CorporateSite continue. Since the built-i
you will use the localhos

05 built-in web server

n web server in Visual Studio instead of IIS, you need to site in the Site Manager -> Sites dialog first and then you can in web server doesn't support other domain than localhost, you will use the localhost domain again.

Sign in as Administrator to Site Manager -> Sites. Click New site wizard on the home page.



In the first step, choose to create a new site using a wizard.

Step 1 Choose default web site If you choose to create a blank site, the wizard will guide you through the process of creating a new site. If you choose to use a template, you will be able to choose one of the predefined web site templates.	
 O Use web site template 	
Next >	

In the second step, enter the following details:

- Site display name: My web site
- Site code name: mysite
- Domain: **127.0.0.1** if you're using Visual Studio built-in web server, set the default value to **localhost**
- Default culture: **English United States** (by choosing a different default culture, you can achieve displaying date, time and numeric values in culture-specific format)

Click Next.

Step 2	nter new site settings nter the display name and code name of the web site. ill use to access the web site during development (you ulture is the main language of the web site.	The Domain field must contain the doma I may change it when the site goes live).	ain that you The default
Site display name: Site code name: Domain name: Site culture:	My web site mysite localhost English - United States		
		C	< Previous Next >

In the third step, you're asked to select objects which should be imported to your new site. Do not change anything and click **Next**.

Step 3 Objects select of Please select of	ection bjects which should be imported.
 Import objects Web site Tools Administration Development 	 Import objects Please select the object type from the tree if you wish to change the default selection. Click Next to start the import of selected objects. Global selection Load default selection Select all objects Select only new objects Deselect all objects Please after import Delete incomplete site when import fails Import files (recommended)
	< Previous Next >

In the fourth step, the progress of objects import is displayed. Click **Next** after **Import has successfully finished** appears.

Step 4	Import progress Objects are being imported.		
Import has succe Starting site "My w Copying objects fi Importing addition Importing ACL iter Importing ACLs Importing Cschedu Importing 'Schedu Importing 'Schedu Importing 'Settings Importing 'Settings	ssfully finished eb site' les al document properties ns ent / (en-US) lled tasks' objects objects jects s' objects s categories' objects		
		< Previous Cancel Next >	

In the fifth step, you can choose the master page. You can change or modify it at any time later. For now, please choose the **Blank master page** option.

Step 5	elect master page e master page defines the layout of the main menu, logo and content placeholders. You can change it at y time later.	
Blank master page	Blank master page Generic default page template.	
no image	Ecommerce master page	
	Top logo and left menu Master page template with logo on the top and menu on the left side.	
	Next >	

Click **Next**. In the sixth step, you can design the site map of your new web site. Click **New** and add a new page called **Home** and choose page template **Templates with editable regions -> Simple text**. Click **OK** to save it.

Step 6 Define basic site Define the site map page must have som	e structure of your new web site. The pages you create will be displayed in the site menu. Every ne template specified or it can inherit page template from the parent page.
New Delete Up Down	Page properties Page name: Home Page template: Simple text OK
	Next >

Click **My web site** and click **New**. Add a new page called **News** and choose page template **News -> News list**. Click **OK** to save it. Use the **Down** button to move it down under the Home page.

Step 6 Define basic sit Define the site map page must have sor	e structure of your new web site. The pages you create will be displayed in the site menu. Every me template specified or it can inherit page template from the parent page.
New Delete Up Down	Page properties Page name: News Page template: News list OK
	Next >

Click **Next**. You will see a confirmation message:

Step 7 The web site has been created successfully Now you can view and edit your new web site.	
Edit your new web site If this is your first web site, the default user account is administrator without password.	
	Finish

Click the **Edit your new web site** link. A new window with Kentico CMS Desk opens at domain 127.0.0.1. You need to sign in again (user name administrator, blank password) since the authentication is not shared over different domains. After you sign in, you will see your new, empty web site:

CMS Desk	Conten	t My Desk	Tools Administration	Switch to Site Manager Site: My web site VIser: Global Administrator Sign Out	v3.0
New Delete Copy	Move Up	Down	Edit Preview O Live site List		0
🖃 🎱 My web site			Page Design Form Product Master page Properties		2
News			Save Spell check		
		-			
Documents Search	J			Version: 3.0 Build: 3.0.2	943

You have created the base for your new web site. In the next chapters, you will learn how to implement the required design.

8.3 Creating a CSS stylesheet

Before we start editing our new web site, we will prepare the CSS styles and images based on our web site template. Go to Site Manager -> Development -> CSS Stylesheets and click New CSS stylesheet. Enter the following values:

- Stylesheet display name: My site stylesheet
- Stylesheet code name: MySite
- Stylesheet text: copy and paste all text from the **SampleWebTemplate\Styles\main.css** file (you will find it in folder C:\Program Files\Kentico CMS\<version>\CodeSamples)

Contries Counters Count	CMS Site Manager Site	s Administration	Settings	Development	Licenses	Support	Buy	Switch to CMS Desk	Use
	Development SS stylesheets Countries Coun	Stylesheet d Stylesheet d Stylesheet d Stylesheet d Opx; WID A, A:vis () H1 () H2 () H3 (styleshe isplay name ode name: ext: PADD ING- TH: 100% ited color: # font-siz color: # font-siz o web site M	et w CSS stylesheet e: My My: RIGHT: Opx; ; PADDING-TO 22668bf; 32078cc; re: large; 33c78cc; re: medium; fy web site	site styles Site PADDING- PF: Opx; OK	LEFT: 0) BACKGROT	px; FC	NT-SIZE: 11px; PADDING-BOTTOM: Opx; MARGIN: SPEAT: repeat; FONT-FAMILY: Arial	

Click OK. Click the Sites tab and make sure the stylesheet is assigned to My web site.

Go to Site Manager -> Sites and edit properties of My web site. Select My site stylesheet in the Site CSS stylesheet drop-down list and click OK. It ensures that the stylesheet is used on all pages of your new web site.

CMS Site Manag	er Sites Administration Settings Development
Site Properties	}
Sites + mysite	
General Domain aliases	Cultures
Site display name:	My web site
Site code name:	mysite
Site domain name:	127.0.0.1
Default content culture:	English - United States Change
Default visitor culture:	(Automatic)
Site CSS stylesheet:	My site stylesheet 👻
Editor CSS stylesheet:	(site stylesheet)
Site description:	Sample blank web site
	~
	ОК

Now copy the folder **SampleWebTemplate\app_themes\MySite** to **<web project>\app_themes**. The folder contains graphics for this web site template. It will ensure that the images are exported as a part of the web site if you decide to move the web site in future. Please note that the folder under app_themes must have the same name as the code name of the CSS stylesheet - **MySite**.

	CSS stylesheet URL and relative paths
	We have adjusted the image paths in the sample CSS stylesheet so that they match the target folders in your new web site. In real life, you will need to adjust the paths manually. The URLs of images in the CSS stylesheets are always relative to the CSS stylesheet.
	The URL of the CSS stylesheet is
	<pre><web project="">/CMSPages/GetCSS.aspx?stylesheetname=MySite</web></pre>
	which means, you need to link to files in the app_themes folder like this:
	/app_themes/mysite/images/imagename.gif.

8.4 Master page

The site master page is defined by the root document. Click the root of the site in the content tree and choose the **Design** tab. You will see the blank page template:



As you can see, there are no web parts at this moment. Click the icon in the green box is to edit the **HTML layout**.

Clear the text box content and copy and paste the HTML code inside the <BODY> element from file **home.htm** (it's part of the web site template located in folder C:\Program Files\Kentico CMS\<version> \CodeSamples\SampleWebTemplate) into the text box:



Click Save.



Using CSS-based layout instead of tables

If you prefer using CSS-based layout, you can easily change the HTML code here and replace the tables with DIV elements. You may also need to modify page layouts in **Site Manager -> Development -> Page layouts** so that they use CSS-based layout. We use table-based layout by default since it's easier to understand, although we are aware of advantages of the CSS-based layout.



Click the **Page** tab now and you can see your new web site design (it's still static):

Adding web part zones

Now we need to replace static text with web part zones, so that we can put dynamic web parts on the page. Click **Design** and click **HTML layout**.

Locate the <!-- main menu --> section in your page template and replace the following code:

with:

```
<!-- main menu -->
<div class="MainMenu">
        <ccl:CMSWebPartZone ID="zoneMenu" runat="server" />
</div>
```

Now replace the main content section between <!-- main content --> and <!-- /main content --> lines with:

<ccl:CMSWebPartZone ID="zoneMain" runat="server" />

Click **Save**. After you close the HTML layout, you will see the new layout with web part zones:

Page Design Form Product Master page Properties	🗹 Display web part content 🛛 🕢
/ - page template: Blank master page	2
Our Business, Inc.	
▼ zoneMenu	
▼ zoneMain	
This is a sample web site for Ke	entico CMS



Tip 1: Editing HTML layout code in an external editor

If you prefer to edit the HTML layout code in some external editor, such as Visual Studio or Dreamweaver, you can Check-out the code to file on your disk using the **Check out to file** button in the HTML layout editor:

Page Design Form Product Master page Properties	Display web part content	0
▼ /-page template: Blank master page		
T Page layout		\boxtimes
😓 Save 🥚 Check out to file		
Check out the layout to file c:_test\30_48\CMSTemplateLayouts\cms\blankmasterpage.ascx to edit the layout externally.		
Use the following expression to add a new web part zone: «cc1:CMSWebPartZone ID="zoneTopRight" runat="server" /> (the ID must be unique within page layout)		
<div class="MainDiv"></div>		~

Now you can open the file using the path displayed on the screen in your favorite editor. You can modify the HTML code and preview the changes on the live site. After you finish the changes, you can check in the code back to the system and make the changes available to all users.

Please note: If you check-in the file or undo the check-out, the file is deleted on your disk.

You can use the same concept with transformations and CSS stylesheets as well.



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Tip 2: Master page tab

The **Master page** tab allows you to add custom **DOCTYPE** directive, custom **HEAD section elements** and custom **BODY attributes**. It also allows you to edit the master page HTML layout directly (this is the same code that you edit in the **HTML layout** mode of the **Design** view).

<pre></pre>	11/DTD/xhtml1-
transitional.dtd">	~
<hr/> html>	
<head></head>	
Wy Site - wy Site - - cmain - - cmain - -	
minippe to accord an effectively rec_rection ages of concertainty effectively and injointy in	
	~
	· · · · ·
<pre></pre>	
chody slope="ILTP_DecignMedia.IE7"	
Subury classe LTR Designmoute (L7)	
<div class="MainDiv"></div>	
Anhan:	
	E
main menu	
<div class="MainMenu"></div>	
<cc1:cmswebpartzone id="zoneMenu" runat="server"></cc1:cmswebpartzone>	
main content	
<ccl:cmswedpartzone id="ZoneMain" runat="server"></ccl:cmswedpartzone>	
<pre><:== /main concent ==></pre>	
<pre>class footer ==></pre>	
	~
(dim glass="Footer")	

8.5 Main menu

Now we will add the main menu. Switch to the **Design** mode of the root. Add the **Navigation/Drop-down menu** web part to the **zoneMenu** zone:

🖉 Portal engine - Web part selection Webpa	ge Dialog	X
http://127.0.0.1/30_48/CMSDesk/PortalEngine/SelectW	ebPart.aspx	~
💏 Select web part		
Outgie services Outgie services	Drop-down menu Home Services Web Development Products Web Design Network Administration News The Drop-down menu web part displays a menu including sub-menus that open on mouse-over. It uses JavaScript, tables and it can be designed using CSS styles. You can choose between horizontal and vertical layout.	
http://127.0.0.1/30_48/CMSDesk/PortalEngine/SelectWebPa	rt.aspx 😔 Internet	

Click OK. The Web part properties dialog opens. Set the value CSS prefix to ;sub - it means that the menu CSS classes for second menu level will have a prefix sub*. Set the value Design/Layout to Horizontal. Click OK.

When you switch to the Page, you will see the page with a dynamic menu that displays the pages - Home and News:

Page Design Form Product Master pa	ge Properties	0
📙 Save 🛛 🔯 Spell check		
Our Business Inc		
Home News		
	This is a sample web site for Kentico CMS	

8.6 Page placeholder

Now we need to add a **Page placeholder** web part that ensures loading of sub-pages (such as Home or News page) into the master template. There can be only single page placeholder web part in a single page template.

Switch to the **Design** mode and add the **General/Page placeholder** web part into the **zoneMain** zone. Click **OK**. You do not need to make any changes to the page placeholder settings.

Page D	esign Form	Product	Master page	Properties	✓ Display web part content	0
🔻 / - page te	mplate: Blank m	aster page				
Ou	ır Busin	ess, Ir	IC.			
🔻 zone	Menu					
🕶 cms	menu 🕜					
- zoneň	Main					
🔻 page	placeholder 🕜					
					This is a sample web site for Kentico CMS	

8.7 Home page

Now we will create the home page. Delete the existing /Home page. Click the root and click New to create a new Page (menu item) document. Enter the page name **Home** and choose to **create a blank page** using the **Simple** layout:

CMS Desk	nt My Desk	Tools Administration	Switch to Site Manager	Site: My we
New Delete Copy Move U;	p Down	Edit OPreview OLive site List		
New Delete Copy Move U; My web site	p Down	My web site Save Save and create another Save Save and create another Page name: Home Use page template Inherit from parent page Blank master page layout Corporate Site home page layout Corporate Site home page layout Corporate Site Master Page with Top Menu Grid 2x2 cells Grid 3x2 cells Grid 3x2 cells Grid 3x2 cells Three columns Three columns, bottom row Two columns 20/80 Two columns 20/80 Two columns 20/80 Two columns 20/80 Two columns 30/70 Two columns 30/70 Two columns 70/30 Two columns 70/30 Two columns 60/20 Two columns 60/20 Two columns 80/20 Two columns, three columns Two columns, three columns Two columns, three columns Two columns, three columns Two columns, three columns Two columns, three columns Two columns, three columns	nk page no image Simple Simple layout with one web part zone.	
		Copy this layout to my page template		

Click Save to create the page.

Now we will define a new HTML layout for our home page. Click the Home page. Switch to the **Design** mode and edit the HTML layout. Replace the default code with following code:

```
	<!-- left column -->
```

Click **Save** to save the new layout and close the HTML layout editor. Add the **Text/Editable text** web part into the **zoneCenter** zone. Set its properties:

- Editable region title: Main text
- Editable region height: 450

Click **OK**. Add another **Text/Editable text** web part into the **zoneRight** zone and click **OK**. Set its properties:

- Editable region title: Contact text
- Editable region height: 100

Click **OK**. Click the **Page** tab. Now you can see that the page contains two editable regions. Enter the following text:

- Main text: Here comes the welcome text.
- Contact text: Call 800 111 2222

Click Save.

Click Live site and you will see the home page of your new web site:



Configuring the web site home page

When the site visitor comes to the root of your web site (e.g. to <u>http://www.mydomain.com</u>), the system needs to know which page should be displayed as a home page. Go to **Site Manager -> Settings**, select **My web site** in the drop-down menu, click **Web site** and make sure the value **Default alias path** is set to **/home**, which is the alias path of our new home page. If not, please uncheck the **Inherit from global settings** box, enter the value and click **Save**.

CMS Site Manager	Sites	Administration	Settings	Development	Licenses	Support	В	γL	<u>Switch to</u>
Site: My web site		V	Nett	ings					
Settings Blogs Goking system Content Manageme Content staging E-commerce E-mails	nt		Cache co Cache im	ntent (minutes) iages (minutes)		(0 ✓ Inherit from global settings 10 ✓ Inherit from global settings	Save Save
Files Forums Payment Gateways Payment Gateways	- Autho - PayPa	orize.NET al	Cache pa Combine	ige info (minutes Files With Defai	s) ult Culture	•		10 Inherit from global settings	Save
··· System ··· URLs ··· Web analytics			Combine	With Default Cu	lture	•	2	Inherit from global settings Inherit from global settings	Save
WED SILE			Control E	lement		•		div Inherit from global settings	Save
			Default Al	ias Path		•		/home	Save
			Default cu	ulture of the cont	ent	•		en-US	Save

8.8 Container for home page text

Now we will create the gray and blue containers for our home page text. Such a container can be reused for any other web part later. If you do not wish to use a container, you could alternatively insert the surrounding code into the HTML layout of your page template.

Go to **Site Manager -> Development -> Web part containers** and click **New container**. Enter the following values:

- Container display name: My web site gray box
- Container code name: MyWebSiteGrayBox
- Text before web part:

```
width="100%">

         
        <&nbsp;</td>
        <&nbsp;</td>
        <&nbsp;</td>
        <&nbsp;</td>
        <&nbsp;</td>
        <&nbsp;</td>
        <&nbsp;</td>
        <&nbsp;</td>
        <</td>
```

Text after web part:

Click **OK** and create another container:

- Container display name: My web site blue box
- Container code name: MyWebSiteBlueBox
- Text before web part:

```
    {%ContainerTitle%}
```

• Text after web part:

Now go back to CMS Desk -> Content -> select Home page -> Design and configure the editabletext web part in the middle column. Set the Web part container value to My web site gray box and click OK.

Configure the editabletext1 web part in the right column and set the Web part container value to My web site blue box. Set the Web part container title value to *Contact Us*.

When you go to the **Live site** now, you can see the gray box around the home page text and blue box around the Contact Us text:

Home News		
	Here comes the welcome text.	Contact Us Call 800 111 2222

8.9 News page

Click **/News** in the content tree. The News page is ready to use since it uses the pre-defined **News list** page template. Click **New**, choose to create a news document and enter the following text:

- News title: News 1
- Release date: click the date-time picker and click Now and click OK.
- News summary: News 1 summary.
- News text: News 1 text.
- Teaser, Publish from, to: leave the fields blank.

Click Save and create another. Enter the following values:

- News title: News 2
- Release date: click the date-time picker and click Now and click OK.
- News summary: News 2 summary.
- News text: News 2 text.
- Teaser, Publish from, to: leave the fields blank.

Click Save .

When you click /News and Live site now, you will see the list of news under the News section:

Our Business, Inc.	
Home News	
News	
lews 1 (2/7/2007) News 1 summary.	
<mark>llews 2</mark> (2/7/2007) News 2 summary.	
XML	This i

As you can see the main page **/News** displays the list of the news items that are placed under it. This is an example of how the content is logically structured in Kentico CMS. When you click **/News/News 1** now, you will see the detail view:

lome News
News > News 1
lews 1
7/2007
ews 1 summary.
ews 1 text.
XML

The breadcrumbs now show you current path on the web site: **News > News 1**. The position is also reflected in the URLs:

- The URL of the News page is /news.aspx
- The URL of the News 1 page is /news/news-1.aspx

This makes the web site more accessible to both people and search engines, such as Google.

You might wonder how the listings are displayed by Kentico CMS. Let's explain it on this page: Click *I* **News**, click **Edit** and choose the **Design** tab. Edit the properties of the **NewsRepeater** web part. This web part ensures displaying of the list of documents. It's actually based on the standard ASP.NET Repeater control that you may already know.

CMS Desk - Web Part properties	: Webpage Dialog				
/// http://127.0.0.1/30_48/CMSDesk/PortalEngine/WebPartProperties.aspx?aliaspath=%2fNews&zoneid=zoneLeft&webpartid=NewsRepeater&instanceguid=L					
🙀 Web part properties (Re	peater)	ntation			
Properties Layout					
Default					
ID:	NewsRepeater				
Visible:	\checkmark				
Hide on sub-pages:					
Show for document types:	Select				
Display to roles:	Select				
Content					
Path:	Select				
Content filter					
Document types:	CMS.News Select				
	○ Yes	*			
Refresh content	OK Cancel Apply				
http://127.0.0.1/30_48/CMSDesk/PortalEngi	ine/WebPartProperties.aspx?aliaspath=%2fNews&zoneid=zoneLeft&webpartid= 😔 Internet				

The most important properties are these:

- **Path** this property says where the content that should be displayed is located in the content tree. If you leave the value empty, it searches for documents under the current page.
- Document types = cms.news this property says what type of documents should be displayed (news/products/jobs/etc.)
- Transformation = cms.news.preview this property says which transformation should be used for the items displayed in the listing. The transformation is actually the ItemTemplate section that you normally use with Repeater control. The transformations can be managed in Site Manager -> Development -> Document types -> ... edit document type ... -> Transformations dialog.
- Selected item transformation = cms.news.default this property says which transformation should be used for the detailed view of the selected document.
- **Paging** if you plan to have too many news items on a single page, you can configure automatic paging using this property.

How it works

- 1. You go to the /News page.
- The NewsRepeater web part checks if you have selected some particular news item (based on its Document types property value).
- 3. It finds out that you have selected a page document, so it looks for all underlying news documents and displays them as a list using the **cms.news.preview** transformation.

4. When you click on some particular news item, such as **/News/News 1**, the **NewsRepeater** web part uses the **cms.news.default** transformation instead and displays the details.

Path expressions

The Path property in web parts supports following special expressions that allow you select the content dynamically:

/%	All documents on the web site.		
/news/%	All documents under /News.		
/news/news1	News1 document.		
./%	All items under the current document.		
./logo	Logo document under the current document.		
./images/%	All images under the images child document.		
/contacts/%	All documents under the sibling document contacts.		
/{0}/%	All documents under the current first level document. Example: if the currently selected document is /news/news1 the expression is evaluated as /news/%		
8.10 Services page

Now we will create a new site section for services. This site section will contain a left tree menu and a single editable region.

Click the root of the content tree and click **New**. Choose to create a new **Page (menu item)**. Enter page name **Services** and choose to create a blank page using the **Two columns - 20/80** layout. Leave the box "Copy this layout to my page template" checked.

CMS Desk Content My C	k Tools Administration	Switch to Site Manager	Site:
New Delete Copy Move Up Dov	Edit Preview SLive site List		
🖃 🥝 My web site	My web site		
tene ∎n≣ News	🛃 Save 🛛 Save and create another 🛛 🔯 Spell check		
	Page name: Services]	
	● Use page template ● Inherit from parent page ● Create a bl Blank master page layout Corporate Site home page layout Corporate Site Master Page with Top Menu Grid 2x2 cells Grid 2x2 cells (CSS)	ank page no image	
	Grid 3x2 cells Grid 3x2 cells (CSS)		
	Three columns Three columns (CSS) Top row, three columns, bottom row Two columns - 20/80 Two columns - 20/80 Two columns - 20/80 (CSS) Two columns - 30/70 Two columns - 30/70 (CSS) Two columns - 70/30 Two columns - 70/30 Two columns - 70/30 Two columns - 80/20 Two columns - 80/20 (CSS) Two columns (CSS) Two columns, three columns Two columns, three columns	Two columns - 20/80 Two columns in ratio 20%/80%.	

Copy this layout to my page template

Click **Save** and use the **Down** button to move the page at the last position. Click **Design** and add the **Navigation/Tree menu** web part into the **zoneLeft** zone. Set the following menu properties:

- Content -> Path: /{0}/% (this means that the menu starts from the second level)
- Design -> Item image URL: ~/app_themes/mysite/images/bullet.gif
- Design -> Open item image URL: ~/app_themes/mysite/images/bullet.gif

(the ~ character represents the root of the web site and it ensures that the image will be displayed correctly whether you run the web sites in the root or in a virtual directory)

Click OK.

Add the Text/Editable text web part into the zoneRight zone and set the following values:

- Editable region title: Header
- Editable region type: Text box
- Editable region width: 600
- Content before: <h1>
- Content after: </h1>

Click **OK**. Add another web part of type **Text/Editable text** below the first one and set the following web part properties:

- Editable region title: Main text
- Editable region type: HTML editor
- Editable region height: 300

Click OK. The design mode of the page now looks like this:

Page Design Form Product	Properties Signal Signa
Our Business, In	с.
Home News Services	
 /Services - page template: ad-hoc 	
▼ zoneTop	
 zoneLeft ↓ cmstreemenu 	✓ zoneRight ✓editabletext
▼ zoneBottom	

This is a sample web site for Kentico CMS

Entering text

Click the Page tab and enter some text into editable regions. Click Save.

Pag	e Design	Form	Product	Properties	
	Save	🛃 <u>Spell</u>	<u>check</u>		
] Source 🛛 🗋	189	a il i	◎ ● ♡♀ ぬ気 圓∥ BIU艸 Ҳメ 日日 健健44 美美美 ● ● ●	
	Ø 🔲 🗄	= 🖂 ർ) († 1 E		
_ St	,le	Ŧ	Format	🔻 Font 🔹 Size 🔹 🐨 🖬 🏹 🖓 🖓	
	Our B	usine	ess, Ir	c.	
Но	me News	Services			
				Header	
				Our Services	
				Main text	
				Our services are the best.	

Creating a re-usable template

Now we will save this page as a re-usable template so that we can use it for sub-pages. Go to **Properties -> Template** and click **Save as new page template**. Enter the following values:

- Template display name: Services page template
- Template code name: ServicesPageTemplate
- Template category: General.

Click OK and click Save on the Template dialog.

Adding sub-pages

Click **New** in the main toolbar and choose to create a new **Page (menu item)** under the /Services page. Call the page **Service 1** and choose the **General/Services page template** template. Click **Save** . Enter the following text:

• Header: Web hosting

• **Main text:** We provide professional web hosting. Click **Save**.

Click Live site. You will see a page like this:

CMS Desk My Desk	Tools Administration	Switch to Site Manager Site: My web site 💟 User
New Delete Copy Move Up Down	Edit Preview Dive site List	
My web site My web site Mome Mome Services Service 1	Our Business, Inc.	
	Home News Services	
	Service 1 Web hosting	
	We provide professional v	web hosting.
		This is a sample web site for Kentico CMS

In this chapter, you have learned how to create a new page template with editable regions from scratch and how to re-use it for multiple pages.

8.11 Products page

8.11.1 Overview

Now we will add a new Products section displaying a list of computers and their technical specification. You will learn how to create a new document type *Computer* and how to display a list of computers on the site. You will also learn how write transformations.

8.11.2 New document type

Each document in the Kentico CMS repository is of some type, such as news, product, article, etc. Each document type has its own fields. Our document type will describe computer, so it will have a computer name, processor type, RAM size, disk size and a product image field.

Go to **Site Manager -> Development -> Document types** and click **New document type**. You are redirected to the New document type wizard. In the first step, enter the following values:

- Document type display name: Computer (this name will be displayed to the users)
- **Document type code name:** custom.computer (custom is your namespace to distinguish your document types from system types that use the cms namespace, computer is the document type); you will use this value in web part properties later.

CMS Site Manager	Sites	Administration	Settings	Development	Licenses	Support	Buy			Switch to CMS Desk	User: Global Administra
Development SCS stylesheets Countries Countries Countries Countries Countrols E-mail templates Countrols E-mail templates Countrols Page layouts Page templates System tables COUntries Web parts Web templates Workflows		New Document to Ste	docume _{vpes} ► Nev p 1	nt type v document type General Please ente	r document	type display	/ name (for users) and c	ode name (it will be us	ed in your code when neces	sary).
	ers	Docur Docur	nent type di	splay name: Com de name: cust name	puter om sspace				computer document type		
											Next

Click **Next**. In step 2, you need to choose the name of the database table that will be used for storing computer details. You also need to enter the name of the primary key in this table. Leave the default values:

Step 2	r <mark>ata type</mark> lease choose document data type. If you choose a doc ames of the new database table and its primary key.	cument type with custom attributes you will also need to supply
 The document type has Table name: Primary key name: The document type is 	as custom fields custom_computer computerID only a container without custom fields	
		Next

Click **Next**. The wizard has created a new database table for computers. Now you need to define the fields (columns of the table). Click **New attribute** to create a new field. Enter the following values:

- Attribute name: ComputerName
- Attribute type: Text
- Attribute size: 200
- Field caption: Computer name
- Field type: Text box

Click OK. Click New attribute. Enter:

- Attribute name: ComputerProcessorType
- Attribute type: Text
- Attribute size: 200
- Field caption: Processor type
- Field type: Drop-down list, choose to use Options
- Options: enter the following options, one per line:

Athlon;Athlon Pentium XEON;Pentium XEON Pentium Core 2 Duo;Pentium Core 2 Duo

Click OK. Click New attribute. Enter:

- Attribute name: ComputerRamSize
- Attribute type: Integer number
- Field caption: RAM (MB)
- Field type: Text box

Click OK. Click New attribute. Enter:

- Attribute name: ComputerHddSize
- Attribute type: Integer number
- Field caption: HDD (GB)
- Field type: Text box

Click OK. Click New attribute. Enter:

- Attribute name: ComputerImage
- Attribute type: File
- Allow empty value: check the box
- Field caption: Image
- Field type: Upload file

Click OK.

he changes were saved.					
computerID ComputerName		Database		<u>^</u>	
ComputerProcessorType		Attribute name:	ComputerImage		
ComputerHddSize	T	Attribute type:	File	×	
Jomputerimage	♣	Attribute size:		=	
		Allow empty value:	\checkmark		
	e	Attribute default value:			
	4	🗹 Display attribute in the e	editing form		
		Field			
		Field caption:	Image		
	~	Field type:	Upload file	×	
				OK	

Click **Next**. Now you need to choose the field that will be used as document name. Choose the **ComputerName** field. It means that when you create a new computer document, its name will be automatically taken from the ComputerName value and this value will appear in site navigation and in CMS Desk content tree.

Additional settings Please choose the source field that will be used as a document name. You can choose either one of the custom fields or you can choose to use document name as a separate field.	
Document name source: ComputerName	
Next	

Click **Next**. In step 5, you need to select the document types under which the computers can be added in the content tree. Check only the **Page (menu item)** value, which means the editors will be able to create computer documents only under some page, not under article or news document in the content tree.

Ste	p 5 Paren Please	rarent types Please select document types under which this document template can be placed				
	1					
	FAQ	CMS Fag				
	File	CMS.File				
	Folder	CMS.Folder				
	Job opening	CMS.Job				
	Knowledge base article	e CMS.KBArticle				
	Laptop	CMS.Laptop				
	News	CMS.News				
	Office	CMS.Office				
~	Page (menu item)	CMS.MenuItem				
	PDA	CMS.Pda				
	Press release	CMS.PressRelease				

Click **Next**. In step 6, you need to choose which web sites will use this document type. Check **My web site**.

Step 6	Sites Please select sites where this document type can be used:
Select Site name	3 Olia
My web s	te
	Next

Click **Next**. The wizard has finished the configuration of the new document type. It has automatically created not only the database table, but also the SQL queries for SELECT, INSERT, UPDATE, DELETE operations and a default transformation.

Step 7	The wizard has finished	
The setup has finish • The new documen • The new custom ta • The new editing fo • The document type • The sites were set • The default ASCXt • The default permis • The default icon wa	hed the following steps: nt type was created. table for the document type was created. orm was created. ses were added among allowed child types of the new document type. elected where this document type can be used. transformation was created. ission names were created. vas created.	
		Finish

You have learned how to define a new document type.

	How the content is stored As you already know, the new document type C Each document is stored in three tables: CMS_ CMS_Document (document properties and me case CUSTOM_Computer:	computer has its own database table. TREE (tree structure), tadata) and the custom table - in this
	CMS_Tree CMS_Document	CUSTOM_Computer ComputerID ComputerName ComputerProcessorType ComputerRamSize ComputerIddSize ComputerImage
	The system automatically ensures all operations this storage is that it's very fast and you can ea queries to retrieve data from the repository (i.e database).	s on these tables. The advantage of sily write standard SQL SELECT e. from the Microsoft SQL Server

8.11.3 Transformations

Now that we have created a new document type, we need to prepare the transformations that will be used for displaying product details in a list and in a detail view.

In the **Computer** document type properties dialog, click the **Transformations** tab:

	ment	Types + Con	nputer				
ener	al	Fields Form	Transformations	Queries	Child types	Sites	E-commerce
1	New	Transformation					
Act	ions	Transformat	tion name				
Act	ions X	Transformat Default	tion name				

As you can see, the wizard has created some default transformations. We will use them for our detail view. Edit the **Default** transformation, clear the default code and enter the following code:

```
<h1>
  <%# Eval("ComputerName") %>
</hl>
Processor:
    <%# Eval("ComputerProcessorType") %>
    RAM (MB):
    <%# Eval("ComputerRamSize") %>
    HDD (GB):
    <%# Eval("ComputerHddSize") %>
    Image:
```

```
<
<%# GetImage("ComputerImage") %>
```

Click **Save**. As you can see the transformation code is the standard ItemTemplate code that you may already know from ASP.NET 2.0 Repeater and DataList controls. It combines HTML code with ASP. NET commands and data binding expressions. You can use several built-in functions, such as **GetImage** that simplify some tasks. You can find the list of the most important functions directly under the transformation code.

Now we will create transformation for the list of computers. Go back to the transformation list and edit the **Preview** transformation. Clear the default code and enter the following code:

```
<div style="text-align:center;border: 1px solid #CCCCCC">
<h2>
<a href="<%# GetDocumentUrl() %>"><%# Eval("ComputerName") %></a>
<h2>
<img src="<%# GetFileUrl("ComputerImage") %>?maxsidesize=120" />
</div>
```

Click Save.

Please note how the link to the document is created:

```
<a href<%# GetDocumentUrl() %>"×%# Eval("ComputerName") %></a>
```

It consists of standard HTML tags for links and it inserts the URL and link text dynamically.

Similarly, you can create an image tag with parameter that ensures automatic resize of the longest side to 120 pixels on the server side:

```
<img src<%# GetFileUrl("ComputerImage") %>?maxsidesize=120" />
```

You have learned how to write transformations for displaying the content of structured documents.

8.11.4 Page template

Now we get to the final step of this chapter: publishing computer specifications on your web site. Go to CMS Desk -> Content, click New and choose to create a new Page (menu item) document. Enter page name Products and choose to create a blank page using the Simple layout.

CMS Desk Content My Desk	Tools Administration	Switch to Site Manager	Site:
New Delete Copy Move Up Down	Edit Preview Dive site Elist		
🖃 🎱 My web site	My web site		
iene iene ienenenenenenenenenenenenenenenenenenen	Save 💦 Save and create another 🔯 Spell check		
E Service 1			
	Page name: Products]	
	● Use page template ● Inherit from parent page ● Create a bit Blank master page layout Corporate Site Master Page with Top Menu Grid 2x2 cells Grid 2x2 cells (CSS) Grid 3x2 cells (CSS) Simple Three columns (CSS) Top row, twe columns, bottom row Top row, twe columns, bottom row Two columns - 20/80 Two columns - 20/80 Two columns - 20/80 Two columns - 30/70 Two columns - 30/70 Two columns - 70/30 Two columns - 70/30 Two columns - 80/20 Two columns - 80/20 Two columns - 80/20 Two columns, three columns Two columns, three columns	no image Simple Simple layout with one web part zone.	

Click the **Down** button in the toolbar until you move the new page at the end of the list.

Click **Design** and add the **Navigation/Breadcrumbs** web part into the **zoneLeft** zone. Leave the default values and click **OK**.

Then, add the **Listing and viewers/Datalist** web part. Set the following property values of this web part:

- Document types: custom.computer
- ORDER BY expression: ComputerName ASC
- Transformation: custom.computer.preview
- Selected item transformation: custom.computer.default
- Show New button: yes
- New button text: Add new computer
- Show edit and delete buttons: yes

Click OK.

Now we need to enter some computer details. Click **/Products** in the content tree and click **New**. Choose to create a new computer. Enter the following value:

- Computer name: Home PC Dallas
- Processor type: Athlon
- RAM (MB): 512
- HDD (GB): 80
- Image: upload some image (you can find sample images in folder <Kentico CMS installation> \CodeSamples\SampleWebTemplate\Computer_Images)
- Publish from/to leave the values blank

Click Save and create another and enter the following values:

- Computer name: Office PC Houston
- Processor type: Pentium Core 2 Duo
- RAM (MB): 1024
- HDD (GB): 120
- Image: upload some image (you can find sample images in folder <Kentico CMS installation> \CodeSamples\SampleWebTemplate\Computer_Images)
- Publish from/to leave the values blank

Click Save.

CMS Desk	Content	My Desk	Tools Administration			
New Delete Copy	Move Up	P Down	Edit	🔪 Preview 🛛 🗿 Live site 🔚 List		
🖃 🥥 My web site 🔚 Home			Page Design F	Form Product Properties		
🕂 📄 News 🛨 💼 Services		_	릙 <u>Save</u> 🔯 <u>Spell check</u>			
Products Office PC I	Houston		computerID:	2		
····· 🗾 Home PC I	Dallas		Computer name:	Office PC Houston		
			Processor type:	Pentium Core 2 Duo		
			RAM (MB):	1024		
			HDD (GB):	120		
			Image:	Computer2.jpg Upload: Browse		
			Publish from:	B Now		
		4	Publish to:	100 Now		

Now, when you click /Products you will see a page like this:



This is a sample web site for Kentico CMS

When you click on some link, you will see computer details:



You have learned how to define new document type and how to publish its documents on the web site.

8.12 Search page

Kentico CMS allows you to full-text search all documents in Kentico CMS repository. You can also configure it so that it searches the text inside uploaded documents, such as PDF, DOC or XLS documents. The configuration is described in **Developer's Guide -> Installation and deployment -> Configuration of full-text search in files**. It's not necessary to configure it at this moment since we will use only database search.

We need to create the search page. Click root, click **New** and choose to create a new **Page (menu item)**. Enter page name **Search** and choose the **General/Search** page template. Click **Save**.

Click the **Down** arrow in the main toolbar until you move the **Search** page at the end of the list.



Click the new **/Search** page. You will see the search page. Enter **PC** in the **Search for** box and click **Go**.

Our E	Our Business, Inc.						
Home News	Services Products Se	earch					
Search							
Search for:	рс	Go					
Search mode:	Any Word	~					
<u>Home PC Dallas</u> Path: /Products/ <u>Office PC Houst</u> Path: /Products/	Home PC Dallas on Office PC Houston						

This is a sample web site for Kentico CMS

When you click some search result, you are redirected to the appropriate document.



Modifying the search results format

If you prefer a different design of the search results, you can modify the format in **Site Manager -> Development -> Document types -> Root -> Transformations -> searchresults** transformation.

8.13 Secured section for partners

Kentico CMS allows you to create secured site sections that can be accessed only by users who have a valid user name and password. We will create a simple page for partners that can be accessed only by registered users.

Go to **CMS Desk -> Content**, click root and click **New**. Choose to create a new **Page**. Enter page name **Partners** and choose to use the page template **Templates with editable regions/Simple text**. Click **Save**. Click the **Down** arrow in the main toolbar until you move the **Partners** page at the end of the list.

Click the Page tab and enter the following text: This is a secured page for partners. Click Save.

Click **Propeties -> Security**. In the **Access** section of the dialog, click **Yes** in the **Requires authentication** field and click **OK**. This will ensure that the page can be accessed only by authenticated users.

Configuring the logon page

Now we need to create the logon page. We will use a pre-defined page template that you can further customize if necessary. Click root and click **New**. Choose to create a new **Page (menu item)**. Enter page name **Logon** and choose the page template **Membership and security/Log-on page with registration form**. Click **Save**.

Click **Properties -> Menu** and uncheck boxes **Show in navigation** and **Show in sitemap**. Click **Save** and use the **Down** button to move the **Logon** page at the end of the document list in the content tree...

CMS Desk Content My Desk	: Tools Administration	on Switch to Site Manager Sit	e: My web site 🛛 👻			
New Delete Copy Move Up Down	Edit	🔍 Preview 💿 Live site 🔚 List				
🖃 🚳 My web site 🔚 Home	Page Design	Form Product Properties				
	General					
	Template	29AAF				
	Metadata					
E Partners	Menu	The changes were saved.				
	Workflow	Menu caption:				
	Versions	Show in navigation:				
	Related docs	Show in sitemap:				
	Linked docs	Menu action				
	Security	Standard behavior O				

We will also need to configure the system so that it uses our new logon page. Go to **Site Manager** -> **Settings**, choose **My web site** in the drop-down list, click **Security** and set the value **Secured areas logon** page to **~/logon.aspx**, which is the relative URL of our logon page (from the web application

root). Click Save.

CMS Site Manager Sites Administration Settings Development Licenses Support Buy						
Site: My web site	Settings					
 Settings Blogs Booking system Content Management Content staging E-commerce E-mails Files Forums Payment Gateways - Authorize.NET Payment Gateways - PayPal Security System URLs Web analytics Web Site 	Access denied page URL: Inherit from global settings Check page permissions: NO Inherit from global settings Save Secured Areas Logon Page Inherit from global settings Save Save Save Save					

Configuring the Sign out button

Go to **CMS Desk -> Content ->** select the root document -> click **Design**, add the following web parts to the **zoneMain** web part zone and set their properties:

Membership/Current user

• Content before: <div style="text-align:right">

Membership/Sign out button

Content after: </div>

Then sort the web parts in the **zoneMain** zone in the following order (you can drag and drop web parts using mouse):

- Current user
- Sign out button
- Page placeholder

CMS Desk	Content	My Desk	Tools Administration	<u>Switch</u>
New Delete Copy	Move Up	J Down	Edit Preview O Live site List	
🖃 🌖 My web site			Page Design Form Product Master page Properties	
⊡ 📄 Home ⊡ 📄 News			▼ / - page template: Blank master page	
🗈 📄 Services				
 			Our Business, Inc.	
			▼ zoneMenu	
			▼ cmsmenu 🎯	
			▼ zoneMain	
			👻 currentuser 🧬	
			SignOutButton	
			▼ pageplaceholder ③	
		4	Thi	s is a sai

Sign out from Kentico CMS Desk. Click Partners in the main menu. You are redirected to the logon page:

Our Business, Inc.	
Home News Services Products Search Partners	Not a member yet? Sign up now!
User name: Password: Remember me Log on Forgotten password	First name: Last name: E-mail: Password: Confirm password: Register
	This is a sample web site for Kentico CMS

Now you need either to sign in as administrator or register as a new user. After you sign in successfully, you will see the Partners page content together with **Sign out** button:

Our Business, Inc.		
Home News Services Products Search Partners		
Service 1		Current user: administrator (administrator)
This is a secured page for partners.		
	This is a cample web site for Kentice CMS	

You have learned how to secure part of the web site so that it's only accessible for registered users.



You have just finished the sample web site.



9 Further steps

9.1 Further steps

This is the end of the Kentico CMS Tutorial. If you need any further details, you will find them in **Kentico CMS Developer's Guide**. It covers also other advanced topics, such as:

- Multi-lingual content
- Multi-site configuration
- Workflow and versioning
- Security administration
- Deployment to the live web site
- Newsletters, BizForms and other modules
- Kentico CMS API and extensibility
- and many other features.

If you cannot find some information, please feel free to contact us at http://www.kentico.com/Support.aspx