



## **USER GUIDE**

**User Controls** 

Let's add a custom page to our *Web Site Factory* application. Open *Code On Time Generator*, click on the project name, and press *Design*. Switch to the *All Pages* tab. On the action bar, press *New | New Page*.

			YouTube   Blog   http://www.co	
Review and modify properties of the project	t items and select <i>Close</i> to return to code gene	erator.		
Project Designer				exit
Home				
All Controllers All Commands All Field	s All Views All Data Fields All Pages	All User Controls		
This is a list of application pages.				
Quick Find 🔎 New 🔻			View:	Pages •
Name New F	age : Title	Path	Style	Roles
Home	Start	Home	Home	n/a
Customers	1010 Customers	Customers	Generic	n/a
Orders	1020 Orders	Customers   Orders	Generic	n/a
CustomerCustomerDemo	1030 Customer Demo	Customers   Customer Demo	Generic	n/a
OrderDetails	1040 Order Details	Customers   Order Details	Generic	n/a
Employees	1050 Employees	Employees	Generic	n/a
EmployeeTerritories	1060 Employee Territories	Employees   Employee Territories	Generic	n/a
Categories	1070 Categories	Categories	Generic	n/a
Products	1080 Products	Categories   Products	Generic	n/a
CustomerDemographics	1090 Customer Demographics	Customer Demographics	Generic	n/a
«Previous   Page: 1 2 3 4   Next »		Items per page: 10, 25, 50, 100	Showing 1-10 of 32 ite	ms   Refres

The *Name*, *Title*, and *Path* properties will be "Test". *Description* will be "This is a test page". *Style* will be "Categories", and *About This Page* will be "This page will host several user controls."

General	Name *
Name and index of the page. The address of the generated ASP.NET page is ~/Pages/Name.aspx where Name is the specified name.	Test
Use <i>External Url</i> to create a menu link to an external web site. No physical application page is generate if <i>External Url</i> is not blank.	Index
If <i>External Url</i> is equal to <i>about:blank</i> then a site map node without a Url is created.	External Url
Presentation	Title *
Page title is displayed in the title of the browser window.	Test
Use symbol " " in the page path to define a multi-level menu option that selects the page. Make sure that any segment of the path is matched to a path of an existing page that has an index less then the index of this page.	Path Test
If Path is left blank then there will be no menu option to access the page.	Description
Page description is displayed as a tool tip of the corresponding menu option.	This is a test page
Custom style is one or more CSS classes. Use <i>Wide</i> as custom style to eliminate the side bar on the page.	<b>v</b>
The page will feature <i>About</i> box on the side bar if specified.	Style* Categories
	Custom Style
	About This Page
	This page will hose several user controls.

This page shows up at the top of the list of pages, because no *Index* was set for the page. Edit the record in-place and change *Index* to "1005". When saved, the page will move to second place in the list.

All Controllers All Commands All Fields A	Views All Data Fields All Pages	All User Controls		
This is a list of application pages.				
Quick Find 👂 New 🔻				View: Pages -
Name	Index Title	Path	Style	Roles
Home	1000 Start	Home	Home	n/a
Test	1005 Test	Test	Categories	*
Customers	1010 Customers	Customers	Generic	n/a
Orders	1020 Orders	Customers   Orders	Generic	n/a
CustomerCustomerDemo	1030 Customer Demo	Customers   Customer Demo	Generic	n/a
OrderDetails	1040 Order Details	Customers   Order Details	Generic	n/a
Employees	1050 Employees	Employees	Generic	n/a
EmployeeTerritories	1060 Employee Territories	Employees   Employee Territories	Generic	n/a
Categories	1070 Categories	Categories	Generic	n/a
Products	1080 Products	Categories   Products	Generic	n/a
* Previous   Page: 1 2 3 4   Next >> Items per page: 10, 25, 50, 100   Showing 1-10 of 33 items   Refresh				

Select the *Test* page from the list and switch to the *Containers* tab. Let us add several containers to the page. Containers are placeholders for user controls in your application. Create a new container by pressing *New | New Container*. Give this container a *Width* of "33%".

Project Designer	exit
G Home > Page: Test	
Page Containers Data Views Controls	
Please fill this form and click OK button to create a new container record. Click Cancel to return	n to the previous screen.
	View: New Container 🔻
General A container can host multiple data views and user controls. At least one container must be declared for each page. Specify container flow rule and optional width. Optional container width must be expressed as a percent of the total page width or as an exact width in pixels. The examples of width are 40% and 300px.	Id N/A Flow * New Row Width 33% CSS Class Name CSS Style Properties
* - indicates a required field	OK Cancel

## Create another container, with *Flow* of "New Column", with *Width* of "200px".

General	Id
A container can host multiple data views and user controls. At least one container must be	N/A
declared for each page.	Flow *
Specify container flow rule and optional width.	New Column 🔻
Optional container width must be expressed as a percent of the total page width or as an exact width in pixels. The examples of width are 40% and 300px.	Width 200px

The next container will have *Flow* of "New Column" and an empty *Width*. This way, the container will take up any space not used by the other two containers.

General	Id
A container can host multiple data views and user controls. At least one container must be declared for each page.	N/A Flow *
Specify container flow rule and optional width.	New Column -
Optional container width must be expressed as a percent of the total page width or as an exact width in pixels. The examples of width are <i>40 %</i> and <i>300px</i> .	Width

The last container, with *Flow* of "New Row", will create another row below the previous containers.

General	Id
A container can host multiple data views and user controls. At least one container must be	N/A
declared for each page.	Flow *
Specify container flow rule and optional width. Optional container width must be expressed as a percent of the total page width or as an exact width in pixels. The examples of width are <i>40%</i> and <i>300px</i> .	Width

Now, switch to the *Controls* tab. Controls bind user controls to specific containers. On the action bar, press *New | New Control*. We will also need to make some new user controls, so press the *New User Control* icon next to the *User Control* field. This will have *Name* of "TopLeft", and *Generate* of "First Time Only". Press *Ok* to insert the new user control into the field.

			Control 🔻
Ī	General	New User Control	x
	Page, contain	Please fill this form and dick OK button to create a new user control. Click Cancel to return to the previous screen.	
		General Name*	
		Name and code generation conditions of the user control. TopLeft	
	Activator Specify a met	Prefix* uc Generate * First Time Only	
	tab or menu o Use <i>Sequenc</i> i	* - indicates a required field OK Cancel	

For the control, specify *Container* as "c100", and save.

Project Designer	exit
G Home > Page: Test	
Page Containers Data Views Controls	
Please fill this form and click OK button to create a new control. Click Cancel to return to the pro	evious screen.
	View: New Control 🔻
General Page, container, and id of the control.	Id N/A Container * c100 User Control * TopLeft

Now create a new control. Press the *New User Control* icon next to the *User Control* field again. Give this new user control the *Name* of "TopCenter", and press *Ok* to insert into the field.

General	New User Control	×	Control 🔻
Page, contain	Please fill this form and click OK button to create a new user of	control. Click Cancel to return to the previous screen.	
	General Name and code generation conditions of the user control.	Name * TopCenter	
	Name and code generation conditions of the user condition.	Prefix*	
		uc	
Activator		Generate * First Time Only ▼	
Specify a met tab or menu c			
Use <i>Sequenc</i> i	* - indicates a required field	OK Cancel	

## Specify *Container* as "c101" and save.

Page Containers Data Views Controls				
Please fill this form and click OK button to create a new control. Click Cancel to return to the previous screen.				
	View: New Control 💌			
General	Id			
Page, container, and id of the control.	N/A			
	Container*			
	User Control * TopCenter			

Create a new control, and press the *New User Control* icon. This user control will have the *Name* of "TopRight". Press *Ok* to insert.

		Control 🔻
General	New User Control X	
Page, contain	Please fill this form and dick OK button to create a new user control. Click Cancel to return to the previous screen.	
	General Name*	
	Name and code generation conditions of the user control. TopRight	
Activator	Prefix* uc Generate* First Time Only	
Specify a met tab or menu o Use <i>Sequenc</i> i	* - indicates a required field OK Cancel	

## The control will have Container of "c102".

General	Id
Page, container, and id of the control.	N/A
	Container*
	User Control * TopRight

Create one last control, and press the *New User Control* icon again. This *User Control* will have the name of "CustomerList". Press *Ok* to insert.

		New User Control	x	Control 🔻
	General Page, contain	Please fill this form and click OK button to create a new user of		
l	Page, contain	General	Name *	
I		Name and code generation conditions of the user control.	CustomerList	
			Prefix*	
	Activator		Generate * First Time Only	
l	Specify a met			
I	tab or menu o Use <i>Sequenc</i> i	* - indicates a required field	OK Cancel	

For the control, specify *Container* of "c103", and save.

General	Id
Page, container, and id of the control.	N/A
	Container*
	User Control * CustomerList

Exit the *Designer*, and regenerate the application. When generation finishes, a web page will open with the modified application. Navigate to the *Test* page. You will see a logo in the top left, corresponding to the *Categories* style that was selected for the page. The *About* box contains text that was specified during the creation of the page. In the center of the page, you can see two rows of containers, with the respective user controls in each container.

3 MyCompany	
Home Test Customers * Employees * Categories * Customer Demographics Region * Reports * Membership	Site Actions •
Home > Test Test	
About This page will hose several uc:TopLeft uc:TopCenter uc:TopRight	
See Also	
<ul> <li>Home</li> <li>Customers</li> <li>Employees</li> <li>Categories</li> <li>Customer Demographics</li> <li>Region</li> <li>Reports</li> </ul>	

Let's make some changes to these user controls. Open the project in *Visual Studio* and navigate to *Controls/TopLeft.ascx*. If you format the document, you can see that there is a *div* with some styling.



View the *Properties*, and edit the style. Change background color to light blue. Under *Position*, specify a height of "150px".

👓 UserControls - Microsoft Visual Studio	
File Edit View Website Build Debug Team Data Tools Architecture Test Analyze Window	Help
🗄 🗞 🕶 🛅 🕶 😅 🛃 🎉 🐇 🍇 🖄 🔹 🔍 🗸 🖓 🖛 🖓 🗸 📖 🕨 🖉 Debug 👥 🛛 🚱 /rebuild	- 🖳 -
🗄 回 課 課 📋 🖄   XHTML 1.0 Transition 🚽 🚱 🖕	
Controls/TopLeft.ascx* ×	Properties 👻 📲 🖓
<pre>K%@ Control Language="C#" AutoEventWireup="true" CodeFile="TopLeft.ascx.cs" Inho K%@ Control Language="C#" AutoEventWireup="true" CodeFile="TopLeft.ascx.cs" Inho K</pre>	erit <div> • 🖁</div>
<pre>class:UpdatePanel ID="UpdatePanel1" runat="server"&gt; contentTemplate&gt; Modify Style </pre>	erit <dn></dn>
<pre><div 2px;="" border:="" ipx="" padding:<="" pre="" sliver;="" solid="" style="margin:"></div></pre>	
<pre></pre>	position: vidth: v v v
Backgroun Border	
Box	
Position Layout	right: v v v bottom: v v v v v v v v v v v v v v v v v v v
List Table	
Taue	
Preview:	
	AaBbYyGgLIJj
Description:	margin: 2px; border: solid 1px silver; padding: 8px; background-color: #CCFFFF
100 %	OK Cancel
□ Design □ Split □ Source	
🙀 Error List 🔳 Output	
Ready	

Save the file, and refresh the web page. You can see the background color is now different, and the height is now the specified 150px.

E Test - Windows Internet	Explorer		when help there have a set of	
G 🖉 🗢 🖉 http://loc	alhost:3141/UserControls/Pages/Test.aspx		👻 🔯 😽 🗙 🚼 Google	+ م
🖕 Favorites 🏾 🏉 Test			🐴 🔻 🔝 👻 🖶 🖛 Pag	ge ▼ _Safety ▼ Tools ▼ @ ▼ <sup>≫</sup>
History   Permalink			Welcome admin, Today is Saturday, January 08, 20:	11   My Account   Logout   Help
<b>MyCompany</b>				
	Employees      Categories      Customer Demographics     Home > Test     Test	Region • Reports • Membership		Site Actions *
About This page will hose several	uc:TopLeft	uc:TopCenter	uc:TopRight	
user controls. See Also • Home • Customers • Employees • Categories • Customer Demographics				
Region     Reports	uc:CustomerList			
	© 2010 MyCompany. All rights reserved.			
Done			Internet   Protected Mode: On	🖓 🔻 🍕 100% 👻

Now, change the background colors for *TopCenter.ascx* and *TopRight.ascx*. This can be anything you like. Specify *Height* as "150px" for *TopCenter.ascx* and "120px" for *TopRight.ascx*. Save the files, and refresh the application. The result is displayed below.

🏉 Test - Windows Internet f	Explorer	Contraction of the local distance	Anna Angel Auto	
🚱 🔵 🗢 🙋 http://loc	alhost:3141/UserControls/Pages/Test.aspx		👻 😣 😽 🗙 Google	• ٩
🚖 Favorites 🛛 🄏 Test			🟠 🔹 🔂 👻 🚍 📥 👻 <u>P</u> age 🕶	<u>S</u> afety ▼ T <u>o</u> ols ▼ 🕢 ▼
History   Permalink			Welcome admin, Today is Saturday, January 08, 2011	My Account   Logout   Help
瓣 MyCompany				
Home Test Customers	Employees      Categories      Customer Demographics	Region 👻 Reports 👻 Membership		Site Actions •
About	Home > Test Test			
About This page will hose several user controls.	uc:TopLeft	uc:TopCenter	uc:TopRight	
See Also     Home				
Customers     Employees				
Categories				
Customer Demographics				
Region     Reports	uc:CustomerList			

You can populate these controls with any content that you want, from text, to standard or commercial ASP.NET controls. The last control, *CustomerList.ascx*, will host a list of customers. Open the control in

*Visual Studio*, format, and delete the *div* that is present. Type in the code presented below, which will describe *div* with *id* of "Customers", and a *DataViewExtender* that displays *Customers* grid.

```
<asp:UpdatePanel ID="UpdatePanel1" runat="server">

<ContentTemplate>

<div id="Customers" runat="server">

</div>

<aquarium:DataViewExtender ID="dve1" runat="server" Controller="Customers"

TargetControlID="Customers" PageSize="5" ShowInSummary="true" />

</ContentTemplate>

</asp:UpdatePanel>
```

Save the file, and refresh the web page. You can see that now we have a list of customers at the bottom of the page. If you click on a record, the summary will display the selected record. When you click on the record, the details of the record will be displayed. If you scroll down the page, the summary will stay fixed in the top left corner.

🎁 Му	/Com	pany															
Home	Test	Customers	Employe	ees 🔹 Categ	jories 🔻	Customer Dem	ographics	Region	Reports	Members	hip						Site Actions *
			Home > Tes	st													
Summai			uc:TopLeft						-Center			usiTenDieht					
Customer	#		uc: ropLett	C .				uc:TopCenter uc:TopRig			uc: ropkight						
ANATR		_															
Company		a da da a															
Ana Trujil y helados		euados															
Contact N	Name																
Ana Trujil	llo																
Contact T	litle																
Owner			-	of customers.													
Address																	
Avda. de 2222	la Consti	itución	Quick F	Find 🖇		lew Customers	💷 Edit	X Dele	ete Actions	<ul> <li>Repo</li> </ul>	rt 🔻					View:	Customers •
		_	Customer#	Company Nar	ne		Contact Na	ame	Contact Title	1	Addres	S	City	Region	Postal Code	Country	Phone
About			ALFKI	Alfreds Futte	rkiste		Maria Ande	ers	Sales Represe	ntative (	Obere	Str. 57	Berlin	n/a	12209	Germany	030-0074321
This page user conti		e several	ANATR	Ana Trujillo Er	mparedad	os y helados	Ana Trujillo	)	Owner	,	Avda. de la Constitución 2222		México D.F.	n/a	05021	Mexico	(5) 555-4729
See Also	D		ANTON	Antonio More	no Taque	ía	Antonio Mo	oreno	Owner		Matade	eros 2312	México D.F.	n/a	05023	Mexico	(5) 555-3932
<ul><li>Home</li><li>Custom</li></ul>		AROUT Around the Horn Thoma		Thomas Ha	Thomas Hardy Sales Representative		ntative	120 Hanover Sq.		London	n/a	WA1 1DP	UK	(171) 555-7788			
<ul> <li>Employe</li> </ul>			BERGS	Berglunds sna	abbköp		Christina B	erglund	Order Adminis	trator E	Berguv	vsvägen 8	Luleå	n/a	S-958 22	Sweden	0921-12 34 65
<ul> <li>Catego</li> </ul>	ories		«Previous	Page: 1 2 3	4567	8 9 10   1	Next »					Items per page:	<b>5</b> , 10, 1	5, 20, 25   Shoi	wing 1-5 of	91 items   Refresh	

Now, let's customize the page layout. We will move the customer list to the top, and switch the green and pink containers. Go back to the designer, switch to *All Pages*, select the *Test* page, and switch to the *Containers* tab. Using the dropdown menu next to *c103*, select *Make First*.

Page	Contai	iners Data	Views	Controls				
This is a	list of co	ntainers.						
Quick F	ind	P Ne	w •					View: Containers
Id			Flow			Width	CSS Class Name	
c100			New R	ow		33%	n/a	
c101			New C	olumn		200px	n/a	
c102			New C	olumn		n/a	n/a	
c103			<ul> <li>New R</li> </ul>	ow		n/a	n/a	
		View						Showing 1-4 of 4 items   Refresh
= All cus	sti 💷	Edit	are stor	red in *.Lo	g.xml files located in the root o	f vour project fo	older.	
		Delete						
		Make First						

Now, use the dropdown list next to *c101* and press *Make Last*. This will properly rearrange the items on the page.

Project Designer			
Home > Page: Te	st		
Page Container	s Data Views Controls		
This is a list of contain	ners.		
Quick Find	P New ▼		View: Containers
Id	Flow	Width	CSS Class Name
c103	New Row	n/a	n/a
c100	New Row	33%	n/a
c102	New Column	n/a	n/a
c101	New Column	200px	n/a
			Showing 1-4 of 4 items   Ref

Close the *Designer* and regenerate the application. When the page opens, navigate to *Test* page, and you will see the proper results.

History   Permali	ink									Welcome	e <b>admin</b> , Today is	Saturday	January 08, 2	011   My Ac	count   Logout   He
🎁 MyCon	npany														
Home Test	Customers	<ul> <li>Employe</li> </ul>	es 🔹 Cate	egories 🔻	Customer Dem	ographics	Region	<ul> <li>Reports •</li> </ul>	Membership						Site Actions
		Home > Test	t												
About		This is a list o	of customers.												
This page will hos user controls.	se several	Quick Fi	ind	<b>Р</b> 🖬 N	ew Customers	Actions	Rep	oort 🔻						View:	Customers •
See Also		Customer#	Company Na	ame		Contact Na	ame	Contact Title	Addre	ESS	City	Region	Postal Code	Country	Phone
Home	-	ALFKI	Alfreds Futt	terkiste		Maria Ande	ers	Sales Represen	tative Obere	e Str. 57	Berlin	n/a	12209	Germany	030-0074321
Customers		ANATR	Ana Trujillo I	Emparedado	os y helados	Ana Trujillo		Owner	Avda.	de la Constitución 222	2 México D.F.	n/a	05021	Mexico	(5) 555-4729
Employees		ANTON	Antonio Mor	reno Taquer	ía	Antonio Mo	oreno	Owner	Matao	deros 2312	México D.F.	n/a	05023	Mexico	(5) 555-3932
<ul> <li>Categories</li> <li>Customer Dem</li> </ul>	ographics	AROUT	Around the	Horn		Thomas Ha	rdy	Sales Represen	tative 120 H	lanover Sq.	London	n/a	WA1 1DP	UK	(171) 555-7788
<ul> <li>Region</li> </ul>		BERGS	Berglunds si	nabbköp		Christina B	erglund	Order Administr	ator Bergu	ivsvägen 8	Luleå	n/a	S-958 22	Sweden	0921-12 34 65
<ul> <li>Reports</li> </ul>		«Previous	Page: 1 2	34567	8 9 10   M	lext »					Items per page:	5, 10, 1	5, 20, 25   Sho	wing 1-5 of	91 items   Refres
		uc:TopLeft					uc:To	pRight					uc:Top	Center	

If you resize the page, the containers will continue to take up the available space, per the settings specified earlier.