

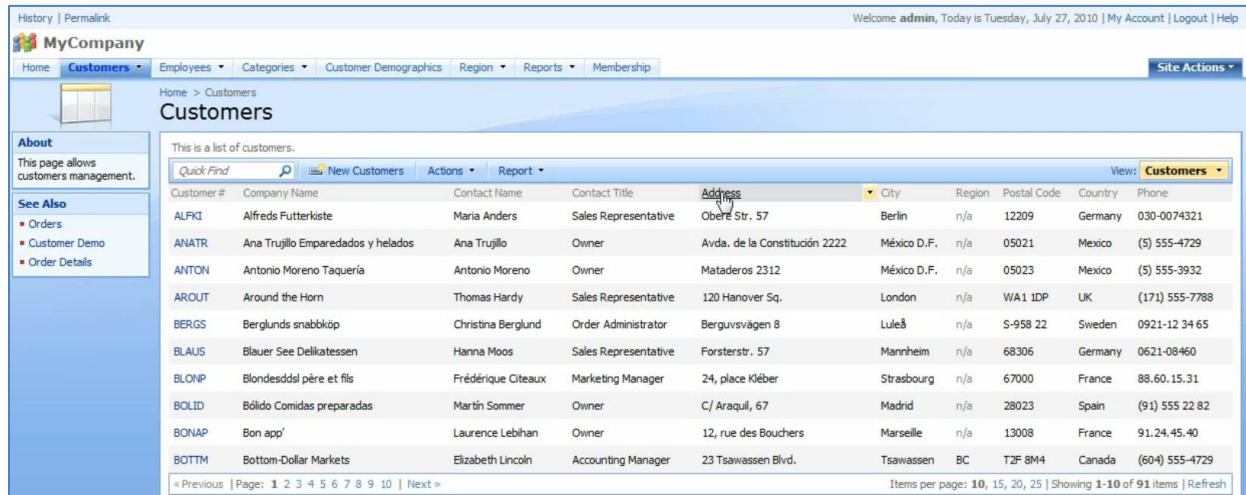
2010



**USING EXCEL TO BUILD
ASP.NET/AJAX APPLICATIONS**

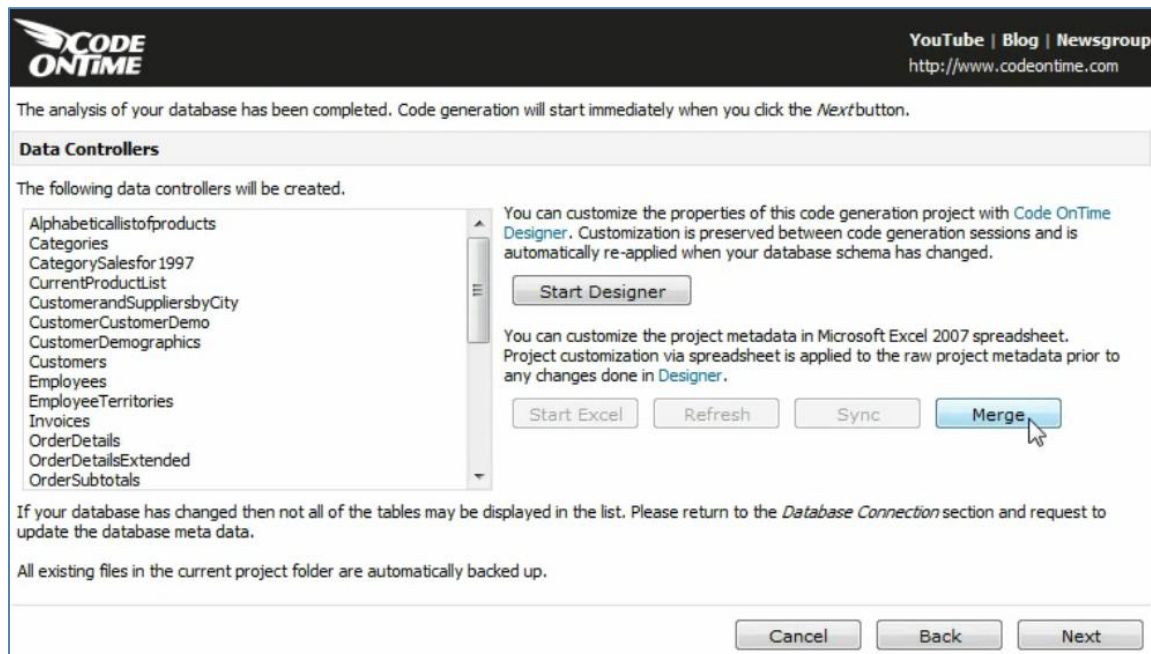
Using Excel to Build ASP.NET/AJAX Apps

Shown below is the baseline application that needs to be modified. In the grid view of *Customers*, you can see *Contact Name* and *Contact Title* fields. It would be nice if the *Phone* field were placed closer to these fields, so that end users can more easily figure out which number to call. Let's move *Phone* field where the *Address* field currently is, and insert *Fax* field next to it. *Fax* field is available for each record, but is not present in grid view. The *Region* field is empty for a lot of records, so let's get rid of it.



Customer #	Company Name	Contact Name	Contact Title	Address	City	Region	Postal Code	Country	Phone
ALFKI	Alfreds Futterkiste	Maria Anders	Sales Representative	Oberé Str. 57	Berlin	n/a	12209	Germany	030-0074321
ANATR	Ana Trujillo Emparedados y helados	Ana Trujillo	Owner	Avda. de la Constitución 2222	México D.F.	n/a	05021	Mexico	(5) 555-4729
ANTON	Antonio Moreno Taquería	Antonio Moreno	Owner	Mataderos 2312	México D.F.	n/a	05023	Mexico	(5) 555-3932
AROUT	Around the Horn	Thomas Hardy	Sales Representative	120 Hanover Sq.	London	n/a	WA1 1DP	UK	(171) 555-7888
BERGS	Berglunds snabbköp	Christina Berglund	Order Administrator	Berguvsvägen 8	Luleå	n/a	S-958 22	Sweden	0921-12 34 65
BLAUS	Blauer See Delikatessen	Hanna Moos	Sales Representative	Forsterstr. 57	Mannheim	n/a	68306	Germany	0621-08460
BLOMP	Blondesdél père et fils	Frédérique Citeaux	Marketing Manager	24, place Kléber	Strasbourg	n/a	67000	France	88.60.15.31
BOLID	Bólido Comidas preparadas	Martín Sommer	Owner	C/ Araquil, 67	Madrid	n/a	28023	Spain	(91) 555 22 82
BONAP	Bon app'	Laurence Lebihan	Owner	12, rue des Bouchers	Marseille	n/a	13008	France	91.24.45.40
BOTTM	Bottom-Dollar Markets	Elizabeth Lincoln	Accounting Manager	23 Tsawassen Blvd.	Tsawassen	BC	T2F 8M4	Canada	(604) 555-4729

Run *Code On Time Generator*, select the project name, and press the *Skip* button. You will arrive at a list of data controllers. Click on *Merge* and confirm to create a new *Excel* spreadsheet with data from the application.



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The analysis of your database has been completed. Code generation will start immediately when you click the *Next* button.

Data Controllers

The following data controllers will be created.

- Alphabetical list of products
- Categories
- CategorySalesfor 1997
- CurrentProductList
- CustomerandSuppliersbyCity
- CustomerCustomerDemo
- CustomerDemographics
- Customers
- Employees
- EmployeeTerritories
- Invoices
- OrderDetails
- OrderDetailsExtended
- OrderSubtotals

You can customize the properties of this code generation project with *Code OnTime Designer*. Customization is preserved between code generation sessions and is automatically re-applied when your database schema has changed.

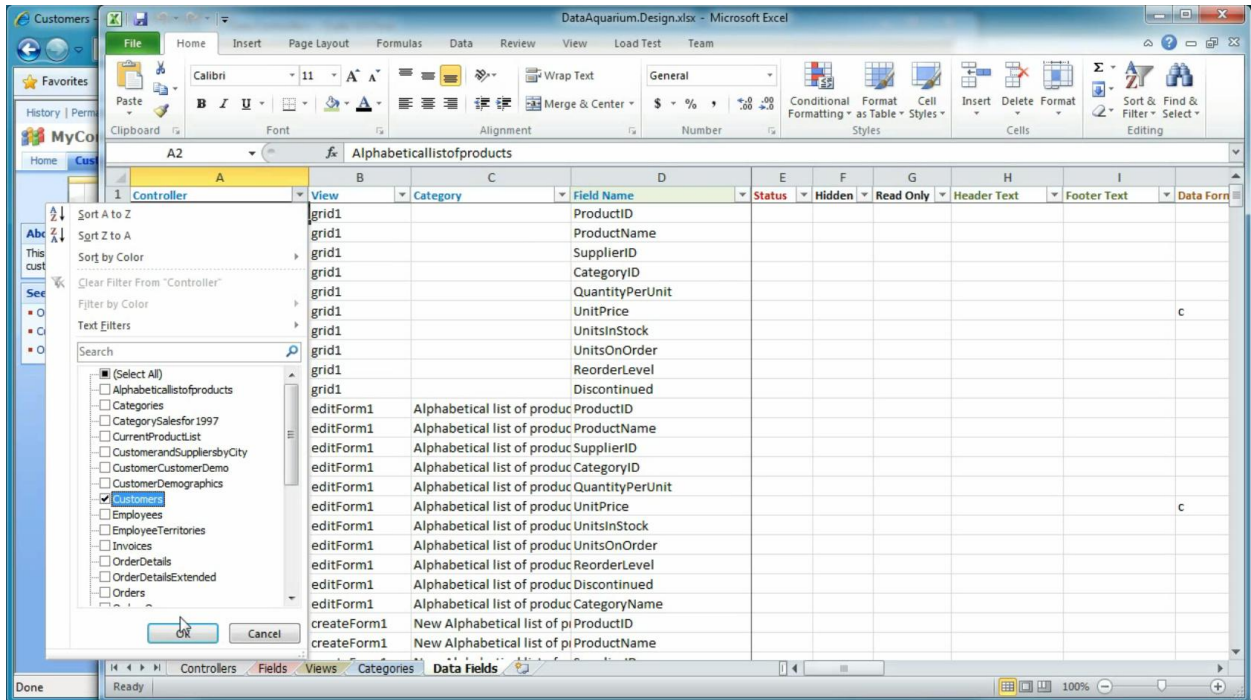
You can customize the project metadata in Microsoft Excel 2007 spreadsheet. Project customization via spreadsheet is applied to the raw project metadata prior to any changes done in *Designer*.

If your database has changed then not all of the tables may be displayed in the list. Please return to the *Database Connection* section and request to update the database meta data.

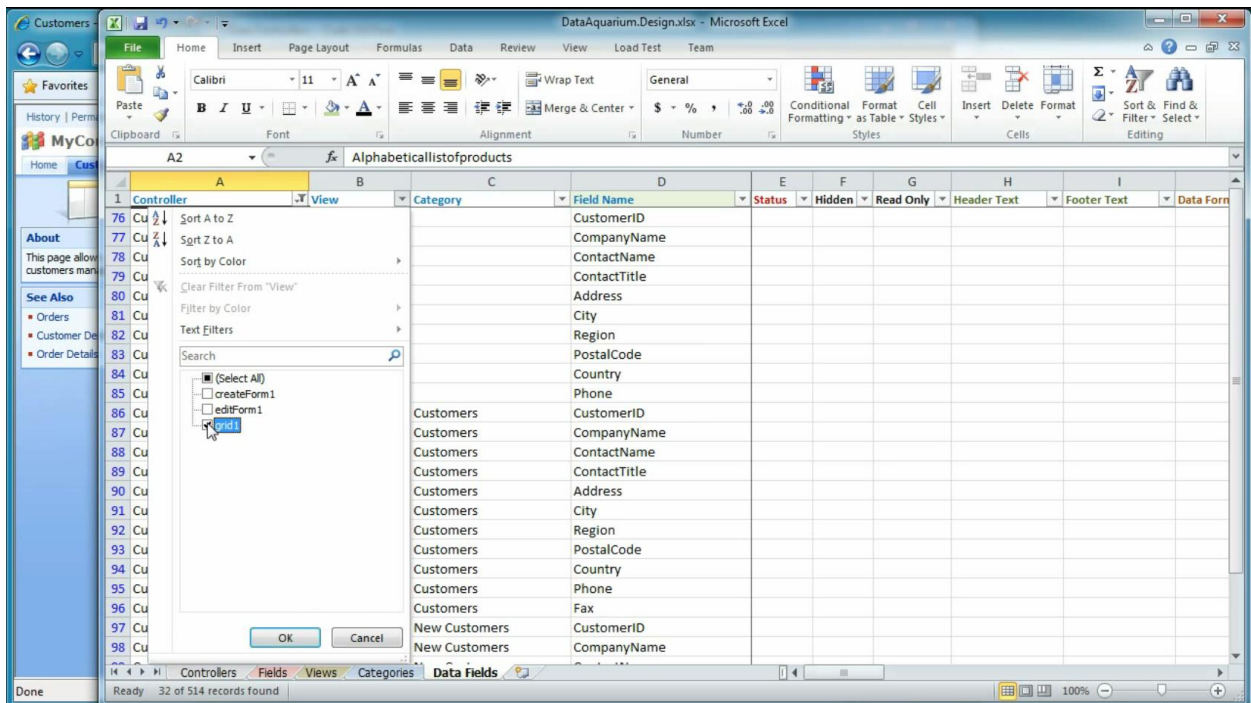
All existing files in the current project folder are automatically backed up.

(Note: If your Excel spreadsheet comes up with no data, you will need to install *Microsoft Access Database Engine 2010 Redistributable* at <http://www.microsoft.com/downloads/en/details.aspx?FamilyID=c06b8369-60dd-4b64-a44b-84b371ede16d&displaylang=en>)

There are several sheets, displayed at the bottom of the screen, that allow you to change various aspects of your application, including *Controllers*, *Fields*, *Views*, *Categories*, and *Data Fields*. Navigate to the *Data Fields* sheet. Filter the data fields to those that belong to the *Customers* data controller.



Next, limit the fields to only those that belong to the view of *grid1*.



We will make several changes to this view. Right click on the *Phone* row and press *Cut*. On the *Address* field, right click and press *Insert Paste Row*. This will relocate the *Phone* row into *Address's* position.

	A	B	C	D	E	F	G	H	I	
1	Controller	View	Category	Field Name	Status	Hidden	Read Only	Header Text	Footer Text	Data For
76	Customers	grid1		CustomerID						
77	Customers	grid1		CompanyName						
78	Customers	grid1		ContactName						
79	Customers	grid1		ContactTitle						
80	Customers	grid1		Phone						
81	Customers	grid1		Address						
82	Customers	grid1		City						
83	Customers	grid1		Region						
84	Customers	grid1		PostalCode						
85	Customers	grid1		Country						
516										
517										
518										
519										

Right click on *Address* and press *Insert Blank Row*. Press *Ctrl + D* to duplicate *Phone* row into the new row. Rename the *Field Name* to “*Fax*”. There is an actual field in the database with this name, which can be confirmed by going to *Fields* sheet and filtering down to show only fields that belong to *Customers* controller.

	A	B	C	D	E	F	G	H	I	
1	Controller	View	Category	Field Name	Status	Hidden	Read Only	Header Text	Footer Text	Data For
76	Customers	grid1		CustomerID						
77	Customers	grid1		CompanyName						
78	Customers	grid1		ContactName						
79	Customers	grid1		ContactTitle						
80	Customers	grid1		Phone						
81	Customers	grid1		Fax						
82	Customers	grid1		Address						
83	Customers	grid1		City						
84	Customers	grid1		Region						
85	Customers	grid1		PostalCode						
86	Customers	grid1		Country						
517										
518										
519										

The last step will involve removing the *Region* field from *grid1*. You can choose to delete the row from the spreadsheet altogether. Alternatively, you can type “*deleted*” in the *Status* column to delete the row from the view. You can also change the color of the *Region* row for better visual identification.

	A	B	C	D	E	F	G	H	I	
1	Controller	View	Category	Field Name	Status	Hidden	Read Only	Header Text	Footer Text	Data For
76	Customers	grid1		CustomerID						
77	Customers	grid1		CompanyName						
78	Customers	grid1		ContactName						
79	Customers	grid1		ContactTitle						
80	Customers	grid1		Phone						
81	Customers	grid1		Fax						
82	Customers	grid1		Address						
83	Customers	grid1		City						
84	Customers	grid1		Region	deleted					
85	Customers	grid1		PostalCode						
86	Customers	grid1		Country						
517										
518										
519										
520										
521										
522										

Save the spreadsheet, go back to *Code On Time Generator*, and press the *Sync* button. The spreadsheet will become the foundation for your project settings.

You can confirm your changes by going into the *Designer*. Click on the *Start Designer* button. Navigate to the *Customers* controller, and switch to *Views* tab. Click on the "grid1" View. Switch to the *Data Fields* tab. You will notice that the new data field layout will be active in this list, displaying *Phone* after *Contact Title*, and not having *Region* in the list.

Review and modify properties of the project items and select *Close* to return to code generator.

Project Designer Close

Home > Controller: Customers > View: **grid1**

View Categories Styles **Data Fields**

This is a list of data fields.

Quick Find New Preview View: **Data Fields**

Field Name	Category	Read Only	Cols	Rows	Data Type	Alias	Hidden
CustomerID	n/a	Default	5	n/a	String	n/a	No
CompanyName	n/a	Default	40	n/a	String	n/a	No
ContactName	n/a	Default	30	n/a	String	n/a	No
ContactTitle	n/a	Default	30	n/a	String	n/a	No
Phone	n/a	Default	24	n/a	String	n/a	No
Fax	n/a	Default	24	n/a	String	n/a	No
Address	n/a	Default	n/a	n/a	String	n/a	No
City	n/a	Default	15	n/a	String	n/a	No
PostalCode	n/a	Default	10	n/a	String	n/a	No
Country	n/a	Default	15	n/a	String	n/a	No

Showing 1-10 of 10 items | Refresh

Close the *Designer*, and generate the application by pressing *Next*. When generation finishes, a web page will appear with the modified application. Navigate to the *Customers* screen.

History | Permalink Welcome admin, Today is Tuesday, July 27, 2010 | My Account | Logout | Help

MyCompany

Home Customers Employees Categories Customer Demographics Region Reports Membership Site Actions

Home > Customers

Customers

This is a list of customers.

Quick Find New Customers Actions Report View: **Customers**

Customer #	Company Name	Contact Name	Contact Title	Phone	Fax	Address	City	Postal Code	Country
ALFKI	Alfreds Futterkiste	Maria Anders	Sales Representative	030-0074321	030-0076545	Obere Str. 57	Berlin	12209	Germany
ANATR	Ana Trujillo Emparedados y helados	Ana Trujillo	Owner	(5) 555-4729	(5) 555-3745	Avda. de la Constitución 2222	México D.F.	05021	Mexico
ANTON	Antonio Moreno Taquería	Antonio Moreno	Owner	(5) 555-3932	Serge	Mataderos 2312	México D.F.	05023	Mexico
AROUT	Around the Horn	Thomas Hardy	Sales Representative	(171) 555-7788	(171) 555-6750	120 Hanover Sq.	London	WA1 1DP	UK
BERGS	Berglunds snabbkop	Christna Berglund	Order Administrator	0921-12 34 65	0921-12 34 67	Berguvsvägen 8	Luleå	S-958 22	Sweden
BLAUS	Blauer See Delikatessen	Hanna Moos	Sales Representative	0621-08460	0621-08924	Forsterstr. 57	Mannheim	68306	Germany
BLOMP	Blondesdél père et fils	Frédérique Citeaux	Marketing Manager	88.60.15.31	88.60.15.32	24, place Kléber	Strasbourg	67000	France
BOLID	Bólido Comidas preparadas	Martín Sommer	Owner	(91) 555 22 82	(91) 555 91 99	C/ Araquil, 67	Madrid	28023	Spain
BONAP	Bon app'	Laurence Lebihan	Owner	91.24.45.40	91.24.45.41	12, rue des Bouchers	Marseille	13008	France
BOTTM	Bottom-Dollar Markets	Elizabeth Lincoln	Accounting Manager	(604) 555-4729	(604) 555-3745	23 Tsawassen Blvd.	Tsawassen	T2F 8M4	Canada

« Previous | Page: 1 2 3 4 5 6 7 8 9 10 | Next » Items per page: 10, 15, 20, 25 | Showing 1-10 of 91 items | Refresh

You can see that the columns should now be in the correct order, *Contact Name, Contact Title, Phone,* and *Fax*. *Regions* column is no longer displayed.

Next, let's modify the *Employees* screen. If you select an employee, you can see the fields listed from top to bottom. It would be better if these fields were presented in a more compact way. Switch back to the *Designer Spreadsheet*, and navigate to the *Categories* sheet. Filter the *Controller* column to only view categories from *Employees*. You will get two rows, *Employees* and *New Employees*. Change the *Floating* column to "Yes".

	A	B	C	D	E	F	G	H	
1	Controller	View	Category	Status	New Column	Tab	Floating	Template	Description
18	Employees	editForm1	Employees				yes		\$DefaultEditDescription
19	Employees	createForm1	New Employees				yes		\$DefaultNewDescription
62									
63									

Go back to *Code On Time Generator*, and press *Sync*. Then press *Next* to regenerate the application. Once the generator finishes, navigate to the *Employees* page. *Employee* record is now more compact, and fields flow from left to right in the page.

Please review employees information below. Click Edit to change this record, click Delete to delete the record, or click Cancel/Close to return back.


New Employees Actions Report View: Review Employees

Employees

These are the fields of the employees record that can be edited.

Last Name	First Name	Title	Title Of Courtesy	Birth Date	Hire Date	Address	City	Region	Postal Code	Country	Home Phone	Extension
Fuller	Andrew	Vice President, Sales	Dr.	2/19/1952	8/14/1992	908 W. Capital Way	Tacoma	WA	98401	USA	(206) 555-9482	3457

Photo



Notes

Andrew received his BTS commercial in 1974 and a Ph.D. in international marketing from the University of Dallas in 1981. He is fluent in French and Italian and reads German. He joined the company as a sales representative, was promoted to sales manager in January 1992 and to vice president of sales in March 1993. Andrew is a member of the Sales Management Roundtable, the Seattle Chamber of Commerce, and the Pacific Rim Importers Association.

Reports To Last Name: N/A Photo Path: http://accweb/emmployees/fuller.bmp

Edit Delete Close

Employee Territories list is displayed as details of the selected employee. Let's put the territories on the employees detail view as a checkbox list. To do this, switch to the *Designer Spreadsheet*. Navigate to the *Fields* sheet, and filter *Controller* to "Employees".

Field Name	Controller	Field Name	Status	Type	Allow Nulls	Read Only	Is Key	Server Default	Computed	SQL Formula
CustomerID	Employees	CustomerID		String	no		yes			
CompanyName	Employees	CompanyName		String	no					
ContactName	Employees	ContactName		String						
ContactTitle	Employees	ContactTitle		String						
Address	Employees	Address		String						
City	Employees	City		String						
Region	Employees	Region		String						
PostalCode	Employees	PostalCode		String						
Country	Employees	Country		String						
Phone	Employees	Phone		String						
Fax	Employees	Fax		String						

Right click on the *Notes* field, and press *Insert Row*. For the new row, set controller to *Employees*. The *Field Name* will be “Territories”. The *Type* is “String”. Type “Yes” under *Allow Nulls*. Set *Computed* to “yes”. Under *SQL Formula*, type “NULL”.

	A	B	C	D	E	F	G	H	I	J
1	Controller	Field Name	Status	Type	Allow Nulls	Read Only	Is Key	Server Default	Computed	SQL Formula
42	Employees	EmployeeID		Int32	no	yes	yes			
43	Employees	LastName		String	no					
44	Employees	FirstName		String	no					
45	Employees	Title		String						
46	Employees	TitleOfCourtesy		String						
47	Employees	BirthDate		DateTime						
48	Employees	HireDate		DateTime						
49	Employees	Address		String						
50	Employees	City		String						
51	Employees	Region		String						
52	Employees	PostalCode		String						
53	Employees	Country		String						
54	Employees	HomePhone		String						
55	Employees	Extension		String						
56	Employees	Photo		Byte[]						
57	Employees	Territories		String	yes				yes	NULL
58	Employees	Notes		String						

Label will be “Territories”. *Items Style* will be “CheckBoxList”.

	A	B	N	O	P	Q	R	S
1	Controller	Field Name	HTML Encoding	Format On Client	Data Format String	Items Style	Items	Items Data Controller
42	Employees	EmployeeID						
43	Employees	LastName						
44	Employees	FirstName						
45	Employees	Title						
46	Employees	TitleOfCourtesy						
47	Employees	BirthDate						
48	Employees	HireDate						
49	Employees	Address						
50	Employees	City						
51	Employees	Region						
52	Employees	PostalCode						
53	Employees	Country						
54	Employees	HomePhone						
55	Employees	Extension						
56	Employees	Photo						
57	Employees	Territories				CheckBoxList		
58	Employees	Notes						

However, here we need to reference some information. Change the filter on the *Controller* column to include *EmployeeTerritories* and *Territories*. *EmployeeTerritories* is a junction table which links *Employees* and *Territories*. To make editing data easier, you can change the color of the rows of different tables. This will help us understand what’s going on.

53	Employees	Country		String				
54	Employees	HomePhone		String				
55	Employees	Extension		String				
56	Employees	Photo		Byte[]				
57	Employees	Territories		String	yes		yes	NULL
58	Employees	Notes		String				
59	Employees	ReportsTo		Int32				
60	Employees	ReportsToLastName		String		yes		
61	Employees	PhotoPath		String				
62	EmployeeTerritories	EmployeeID		Int32	no		yes	
63	EmployeeTerritories	EmployeeLastName		String		yes		
64	EmployeeTerritories	TerritoryID		String	no		yes	
65	EmployeeTerritories	TerritoryTerritoryDescription		String		yes		
66	EmployeeTerritories	TerritoryRegionRegionDescription		String		yes		
208	Territories	TerritoryID		String	no		yes	
209	Territories	TerritoryDescription		String	no			
210	Territories	RegionID		Int32	no			
211	Territories	RegionRegionDescription		String		yes		

For the field *Items Data Controller*, insert “Territories”. *Items Data Value Field* will be “TerritoryID”. *Items Data Text* field will be “TerritoryDescription”.

	A	B	R	S	T	U	V
1	Controller	Field Name	Items	Items Data Controller	Items Data Value Field	Items Data Text Field	Items New Data
48	Employees	HireDate					
49	Employees	Address					
50	Employees	City					
51	Employees	Region					
52	Employees	PostalCode					
53	Employees	Country					
54	Employees	HomePhone					
55	Employees	Extension					
56	Employees	Photo					
57	Employees	Territories		Territories	TerritoryID	TerritoryDescription	
58	Employees	Notes					(Ctrl) createForm1
59	Employees	ReportsTo		Employees			
60	Employees	ReportsToLastName					
61	Employees	PhotoPath					
62	EmployeeTerritories	EmployeeID		Employees			createForm1
63	EmployeeTerritories	EmployeeLastName					
64	EmployeeTerritories	TerritoryID		Territories			createForm1
65	EmployeeTerritories	TerritoryTerritoryDescription					
66	EmployeeTerritories	TerritoryRegionRegionDescription					
208	Territories	TerritoryID					
209	Territories	TerritoryDescription					

The last field is *Items Target Controller*. The value will be the name of the junction table, “EmployeeTerritories”.

	A	B	U	V	W	X	Y
1	Controller	Field Name	Items Data Text Field	Items New Data View	Items Target Controller	Items Copy	Calculated On Server
48	Employees	HireDate					
49	Employees	Address					
50	Employees	City					
51	Employees	Region					
52	Employees	PostalCode					
53	Employees	Country					
54	Employees	HomePhone					
55	Employees	Extension					
56	Employees	Photo					
57	Employees	Territories	TerritoryDescription		EmployeeTerritories		
58	Employees	Notes				(Ctrl) createForm1	
59	Employees	ReportsTo		createForm1			
60	Employees	ReportsToLastName					
61	Employees	PhotoPath					
62	EmployeeTerritories	EmployeeID		createForm1			

Next, go to the *Data Fields* sheet. Filter *Controller* column to only display those fields from *Employees*. Filter the *View* column to display only *createForm1* and *editForm1*. On the *Photo* row of *editForm1*, right click and press *Insert Row*. Press *Ctrl + D* to duplicate the above row onto the new row. For *Field Name*, write “Territories”. Change the number of *Columns* to “5”, so that there will be five columns of checkboxes.

	A	B	C	D	I	J	K	L
1	Controller	View	Category	Field Name	Footer Text	Data Format String	Format On Client	Columns
119	Employees	editForm1	Employees	LastName				20
120	Employees	editForm1	Employees	FirstName				10
121	Employees	editForm1	Employees	Title				30
122	Employees	editForm1	Employees	TitleOfCourtesy				25
123	Employees	editForm1	Employees	BirthDate				10
124	Employees	editForm1	Employees	HireDate				10
125	Employees	editForm1	Employees	Address				
126	Employees	editForm1	Employees	City				15
127	Employees	editForm1	Employees	Region				15
128	Employees	editForm1	Employees	PostalCode				10
129	Employees	editForm1	Employees	Country				15
130	Employees	editForm1	Employees	HomePhone				24
131	Employees	editForm1	Employees	Extension				4
132	Employees	editForm1	Employees	Territories				5
133	Employees	editForm1	Employees	Photo				15

We will also have to create a new row under *createForm1*. Insert a row above the *Notes* field of *createForm1* view, and duplicate the above row by pressing *Ctrl + D*. Change the *Field Name* to “Territories”, and change *Column* to “5”.

	A	B	C	D	L	M	N	O
1	Controller	View	Category	Field Name	Columns	Rows	Alias Field Name	Hyperlink Format String
134	Employees	editForm1	Employees	Notes		5		
135	Employees	editForm1	Employees	ReportsTo			ReportsToLastName	~/Pages/Employees.a
136	Employees	editForm1	Employees	PhotoPath				
137	Employees	createForm1	New Employees	LastName	20			
138	Employees	createForm1	New Employees	FirstName	10			
139	Employees	createForm1	New Employees	Title	30			
140	Employees	createForm1	New Employees	TitleOfCourtesy	25			
141	Employees	createForm1	New Employees	BirthDate	10			
142	Employees	createForm1	New Employees	HireDate	10			
143	Employees	createForm1	New Employees	Address				
144	Employees	createForm1	New Employees	City	15			
145	Employees	createForm1	New Employees	Region	15			
146	Employees	createForm1	New Employees	PostalCode	10			
147	Employees	createForm1	New Employees	Country	15			
148	Employees	createForm1	New Employees	HomePhone	24			
149	Employees	createForm1	New Employees	Extension	4			
150	Employees	createForm1	New Employees	Territories		5		
151	Employees	createForm1	New Employees	Notes		5		
152	Employees	createForm1	New Employees	ReportsTo			ReportsToLastName	
153	Employees	createForm1	New Employees	PhotoPath				

Let’s make a few more changes to the fields *Title* and *TitleofCourtesy*. These fields will benefit from auto completion in the application. Go to the *Auto Complete* column and type in “1” for each of the fields.

	A	B	C	D	O	P	Q
1	Controller	View	Category	Field Name	Hyperlink Format String	Auto Complete	Aggregate Function
134	Employees	editForm1	Employees	Notes			
135	Employees	editForm1	Employees	ReportsTo	~/Pages/Employees.aspx?EmployeeID={ReportsTo}&_controller=Employees&		
136	Employees	editForm1	Employees	PhotoPath			
137	Employees	createForm1	New Employees	LastName			
138	Employees	createForm1	New Employees	FirstName			
139	Employees	createForm1	New Employees	Title		1	
140	Employees	createForm1	New Employees	TitleOfCourtesy		1	
141	Employees	createForm1	New Employees	BirthDate			
142	Employees	createForm1	New Employees	HireDate			
143	Employees	createForm1	New Employees	Address			

Save the spreadsheet, go back to the *Generator* and press *Sync*, and regenerate the application. Navigate to the *Employees* page. By selecting an employee, you can see a list of associated territories. If you start editing, a five column list of checkboxes will appear.

Please review employees information below. Click Edit to change this record, click Delete to delete the record, or click Cancel/Close to return back.

Record: View: **Review Employees**

* - indicates a required field

Employees

These are the fields of the employees record that can be edited.

Last Name *	First Name *	Title	Title Of Courtesy	Birth Date	Hire Date																																																							
Fuller	Andrew	Vice President, Sales	Dr.	2/19/1952	8/14/1992																																																							
Address		City	Region	Postal Code	Country																																																							
908 W. Capital Way		Tacoma	WA	98401	USA																																																							
Home Phone	Extension	Territories																																																										
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Also, if you create a new employee, and start typing in a title or title of courtesy, you can see the auto completion at work.

The screenshot shows a web form titled "New Employees" with the instruction "Complete the form. Make sure to enter all required fields." The form contains several input fields: Last Name (Doe), First Name (John), Title (s), Title Of Courtesy, Birth Date, and Hire Date. Below these are Address, Region, Postal Code, and Country. A "Territories" section contains a grid of checkboxes for various locations such as Atlanta, Cary, Hoffman Estates, Philadelphia, and Santa Monica. At the bottom, there are fields for Home Phone, Extension, Notes, Reports To Last Name (with a dropdown menu showing "(select)"), and Photo Path.

These are just some of the great features you can implement using *Code On Time Generator*. Go to <http://www.codeontime.com/Tutorials.aspx> to learn more.