

Activating AspxFormsGen 4.5

Note: You need internet connection to activate AspxFormsGen 4.5. You can install one (1) license of AspxFormsGen 4.5 for up to 2 computers you own or use for work. You need one (1) license per developer and the license cannot be shared with other developers.

The first time you open AspxFormsGen 4.5 Professional Plus edition you will be presented with an activation form right after the Splash screen as shown in Figure 1. You will not be shown the activation form when using the Express edition.

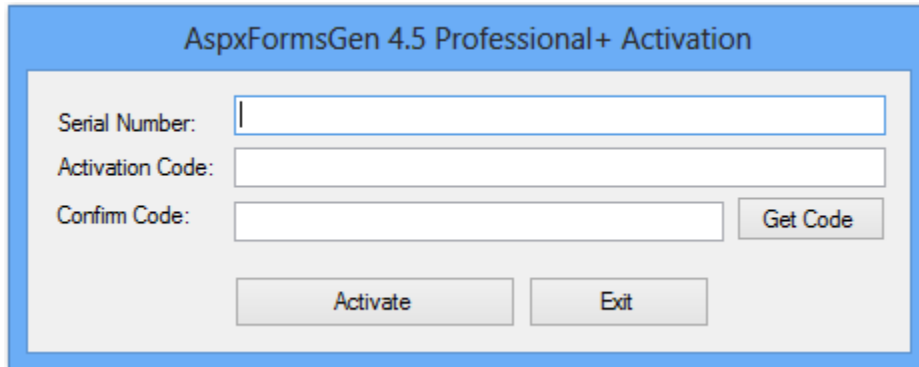
The image shows a software activation window titled "AspxFormsGen 4.5 Professional+ Activation". It contains three text input fields: "Serial Number:", "Activation Code:", and "Confirm Code:". To the right of the "Confirm Code:" field is a button labeled "Get Code". At the bottom of the window are two buttons: "Activate" and "Exit".

Figure 1 Activation Form

Enter the *Serial Number* and *Activation Code* we provided you in the respective text boxes. The *Serial Number* and *Activation Code* contains dashes "-", make sure to include these dashes when entering them. Then click the *Get Code* button to get the *Confirm Code*. See Figure 2.

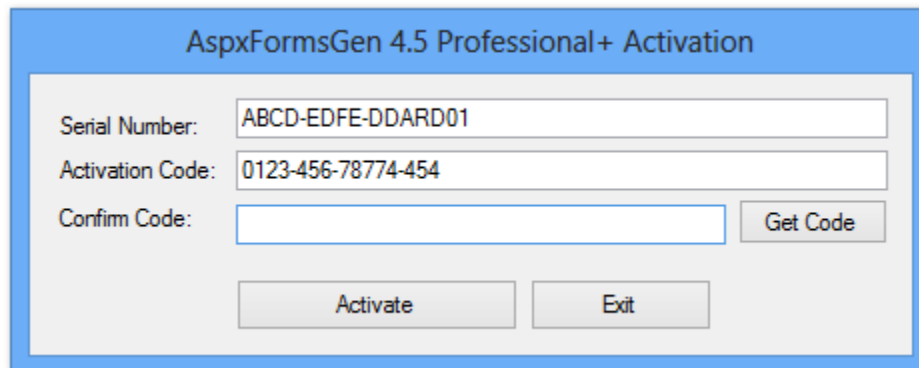
The image shows the same activation window as Figure 1, but with pre-filled data. The "Serial Number:" field contains "ABCD-EDFE-DDARD01", and the "Activation Code:" field contains "0123-456-78774-454". The "Confirm Code:" field is empty. The "Get Code", "Activate", and "Exit" buttons are still present.

Figure 2

The *Confirm Code* will be sent via email to the original purchaser's email address we have on file. When the *Confirm Code* is sent, a pop up message will show as seen in Figure 3. Click the OK button.

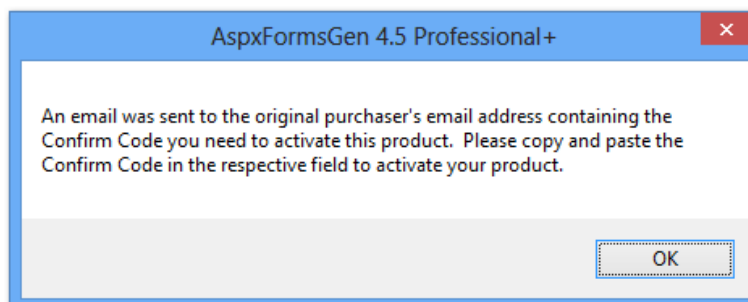
The image shows a small pop-up message box titled "AspxFormsGen 4.5 Professional+". The text inside reads: "An email was sent to the original purchaser's email address containing the Confirm Code you need to activate this product. Please copy and paste the Confirm Code in the respective field to activate your product." At the bottom right of the box is an "OK" button.

Figure 3 Confirm Code Sent

Enter the *Confirm Code* in the respective box and then click the *Activate* button.

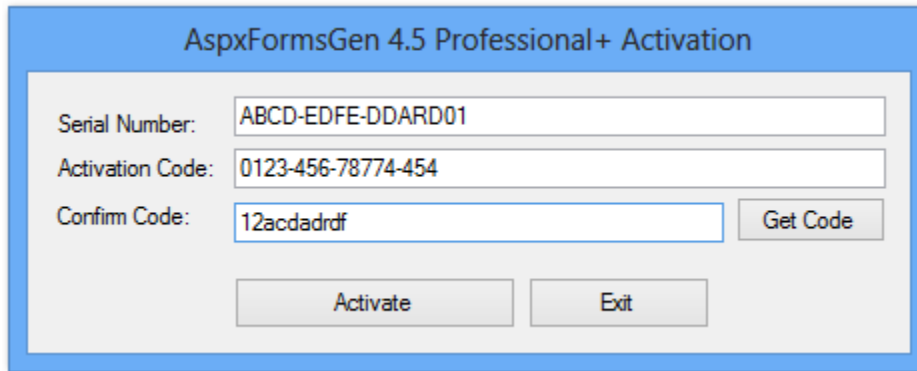
A screenshot of the 'AspxFormsGen 4.5 Professional+ Activation' dialog box. It has a blue title bar. Inside, there are three text input fields: 'Serial Number' containing 'ABCD-EDFE-DDARD01', 'Activation Code' containing '0123-456-78774-454', and 'Confirm Code' containing '12acdadrdf'. To the right of the 'Confirm Code' field is a 'Get Code' button. Below the input fields are two buttons: 'Activate' and 'Exit'.

Figure 4 Enter Confirm Code

If you enter an invalid *Serial Number*, *Activation Code*, or *Confirm Code* a warning pops up. When this happens, click the *Ok* button (See Figure 5), then re-enter the *Serial Number*, *Activation Code*, and *Confirm Code* Again.

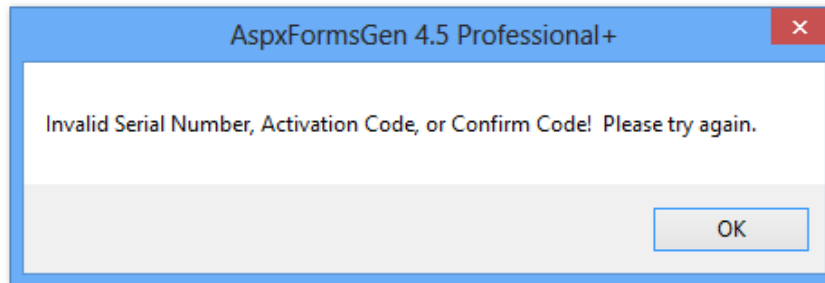
A screenshot of a warning dialog box titled 'AspxFormsGen 4.5 Professional+'. It has a blue title bar with a red close button. The main area is white and contains the text 'Invalid Serial Number, Activation Code, or Confirm Code! Please try again.' At the bottom right is an 'OK' button.

Figure 5 Invalid Serial Number, Activation Code, or Confirm Code

If you enter a valid *Serial Number*, *Activation Code* and *Confirm Code*, you will be presented with the main window of the application, see Figure 6. You will only see the activation form once. After that, you will always go straight to the main window.

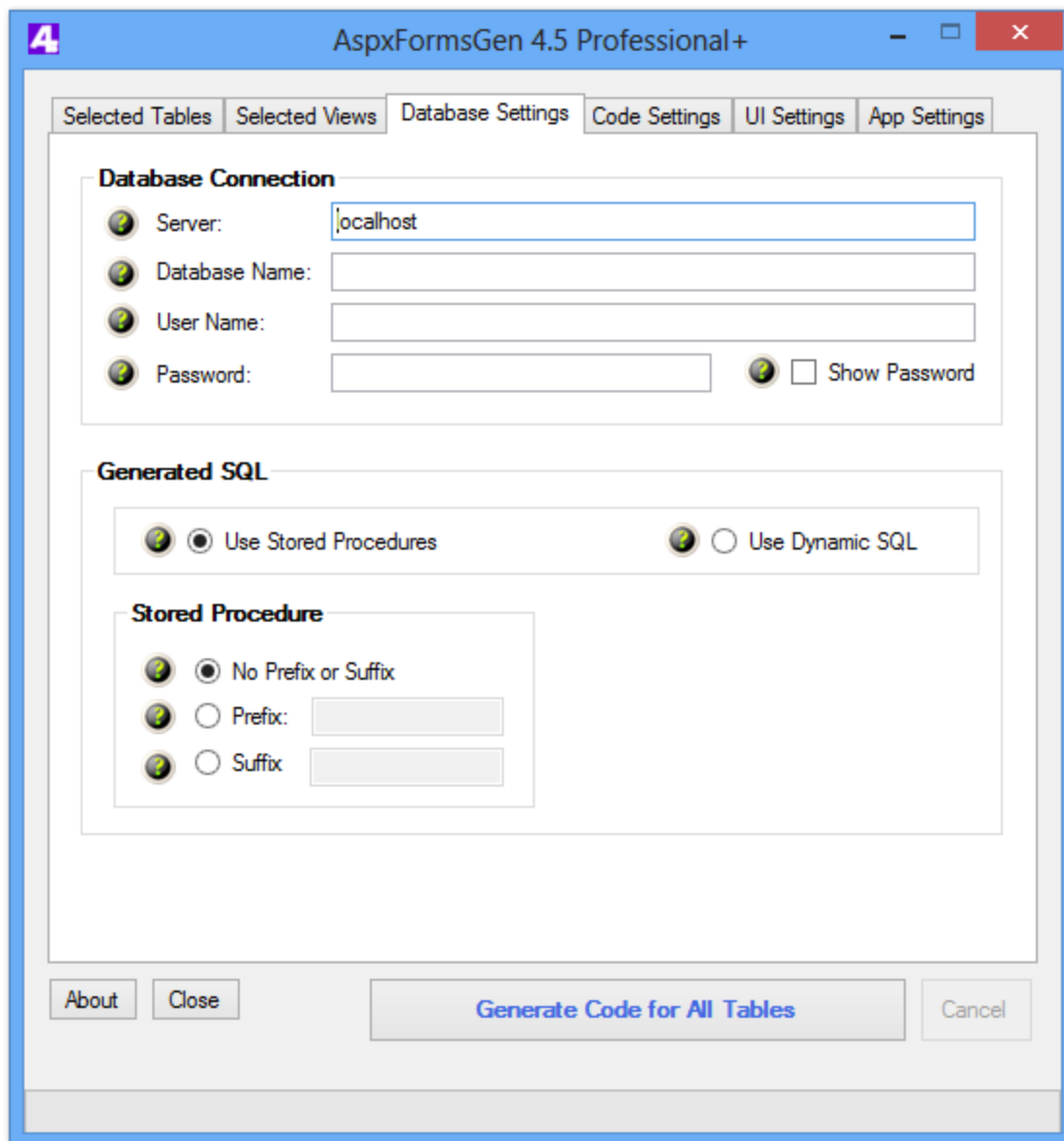


Figure 6 Main Window

A Simple Interface

To keep AspxFormsGen 4.5 simple, there's only one main interface as shown in Figure 5. The main window consists of six (6) tabs.

1. **Selected Tables:** AspxFormsGen generates code from all the tables in your database by default. You can choose to generate from selected tables only from the Code Settings tab, and then select just the tables to generate from on this tab.
2. **Selected Views:** You can choose to generate from selected views only from the Code Settings tab, and then select just the views to generate from on this tab.
3. **Database Settings:** This is where you enter the database you want to generate code from and whether you want to generate stored procedures or dynamic SQL. This is probably going to be your most used tab.

4. **Code Settings:** You'll find a selection here on where to generate your objects from: all tables, all views, selected tables, or selected views. This is also where you set the web site name, the root directory where you want the website to be generated, the namespace for your code, and most of all the language (either C# or VB.NET) you want the generated code to be in.
5. **UI Settings:** You can customize your own settings for the generated ASP.NET web forms here. You can choose themes for the GridView control and JQuery UI controls. You can also choose the kind of page validation. You can also select which web forms to generate and the folders or file prefix to use for each web page.
6. **App Settings:** These are application settings. Almost all generated code/web forms are overwritten every time you use AspxFormsGen 4.5. However, you can choose not to overwrite some key files from here. You can also reset all settings to its original default from here.

That seems like a lot of features, you're probably asking "*where's the One Click feature?*" Since AspxFormsGen 4.5 remembers the last settings you used such as, e.g. server, database name, directory, namespace, language etc., the next time you open AspxFormsGen 4.5, you can just click the Generate... button, that simple.

A Quick Tour

Let's learn how to generate ASP.NET 4.5 Web Forms, middle-tier, and data-tier codes using AspxFormsGen 4.5. **We're going to use *Microsoft's Northwind database* for this demo. Please Google and download it.** Or you can use your own database; just follow the steps shown below.

1. Click the "*Generate Code for All Tables*" button. Notice that an error pops up showing us the required fields to fill. See Figure 7.

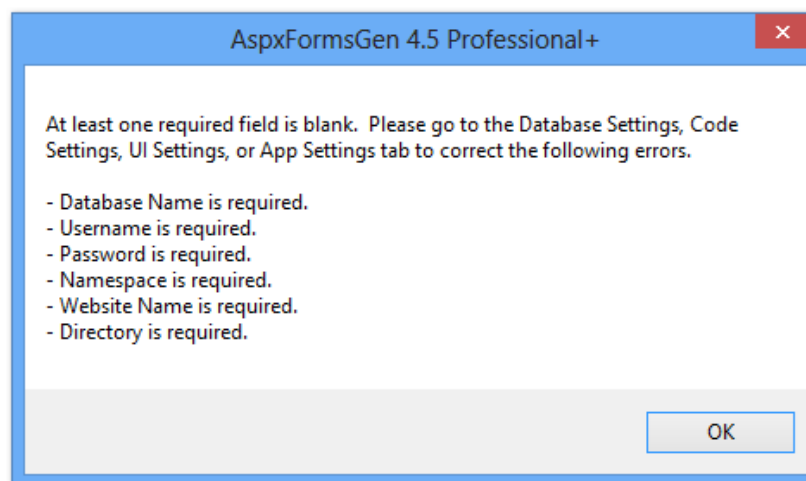


Figure 7 Error Message

2. Click the OK button to close the pop up. Go to the *Database Settings* tab and start filling the required fields. Do the same in the *Code Settings* tab. See Figures 8 and 9.

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Selected Tables | Selected Views | Database Settings | Code Settings | UI Settings | App Settings

Database Connection

Server: localhost

Database Name: Northwind

User Name: sa

Password: mypassword ☒ Show Password

Generated SQL

☒ Use Stored Procedures ☐ Use Dynamic SQL

Stored Procedure

☐ No Prefix or Suffix

☒ Prefix: aspx_

☐ Suffix

About Close Generate Code for All Tables Cancel

Figure 8 Database Settings Tab

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Selected Tables | Selected Views | Database Settings | Code Settings | UI Settings | App Settings

Database Objects to Generate From

☒ All Tables

☐ All Views

☐ Selected Tables Only

☐ Selected Views Only

Website

Name: NorthwindWeb45_CS

Directory: C:\inetpub\wwwroot\ browse...


Business Layer and Data Layer

Namespace: Northwind

Language: C#

About Close Generate Code for All Tables Cancel

Figure 9 Code Settings Tab

3. You can see the descriptions of each of these fields in the *Complete Guide* tutorial. For now, simply hover over the *Question Mark* image  if you need information from the respective fields.
4. Click the “Generate Code for All Tables” button. AspxFormsGen 4.5 will start generating objects. See Figure 10.

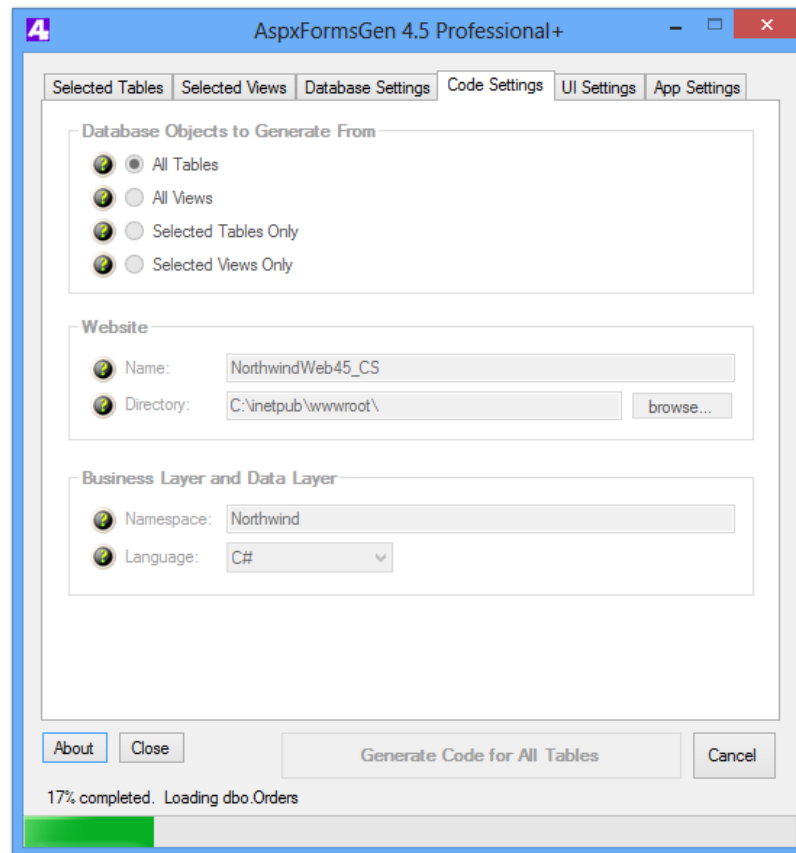


Figure 10 Generating Code

5. Wait for a few seconds. When AspxFormsGen 4.5 is done generating objects, a message pops up. See Figure 11.

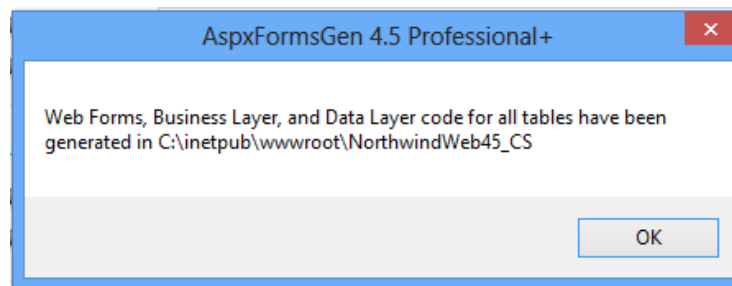


Figure 11 Done Generating Objects

6. Click the *OK* button to close the message. Then close AspxFormsGen 4.5 by clicking the *Close* button.
7. We’re not going to go into any details on how to operate MS SQL Server Management Studio, but if you want to see the generated Stored Procedures, fire up MS SQL Server Management Studio, versions 2000, 2005, 2008, or 2012 then click on the *Stored Procedures* node of your respective database, for this example the *Northwind* database, you will see a list of generated stored procedures. See Figure 12.

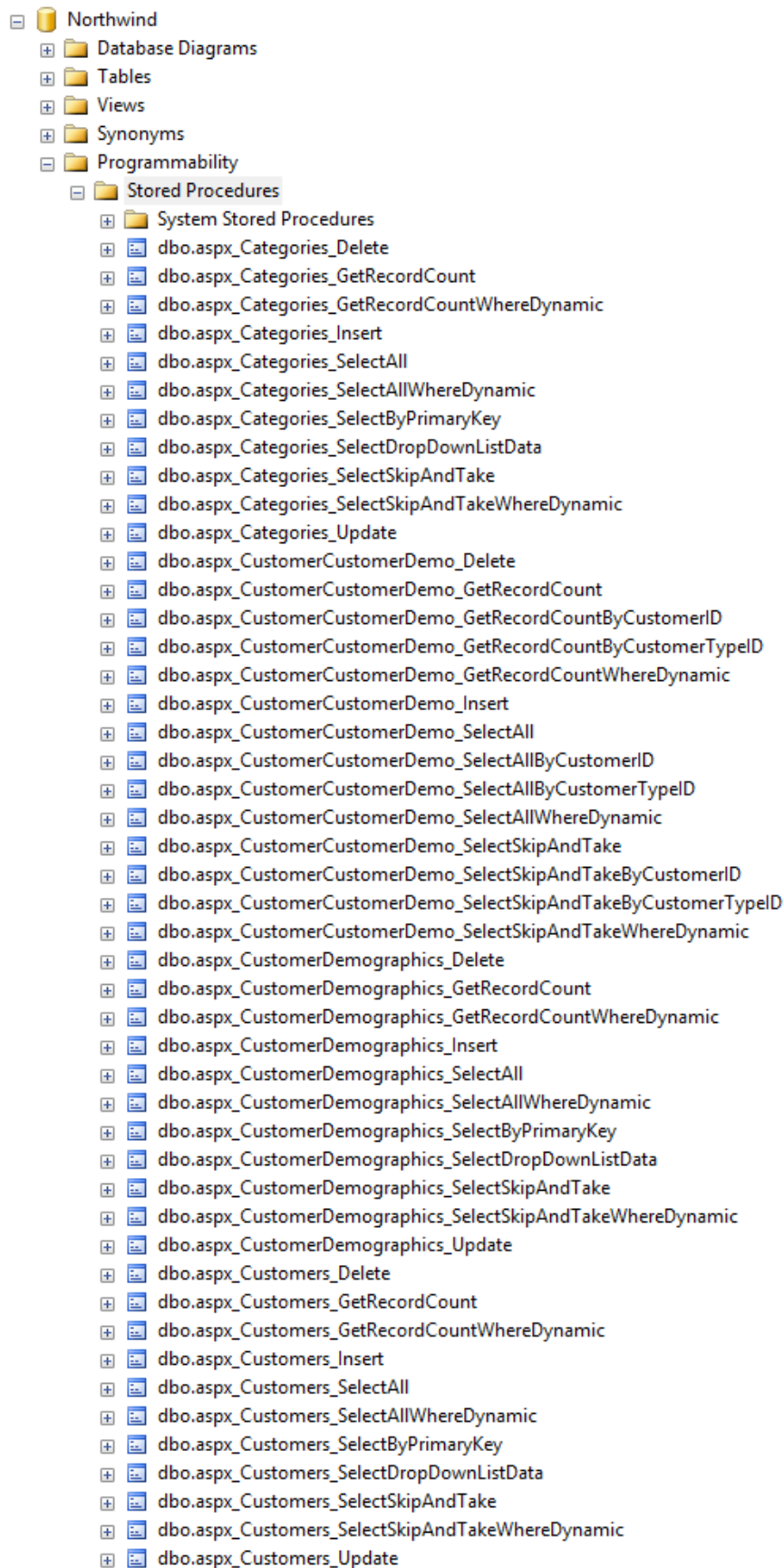


Figure 12 Generated Stored Procedures

8. To view the generated web site, simply go to the directory you specified from the *Code Settings* tab of AspFormsGen 4.5. You will see a list like the one shown in Figure 13.

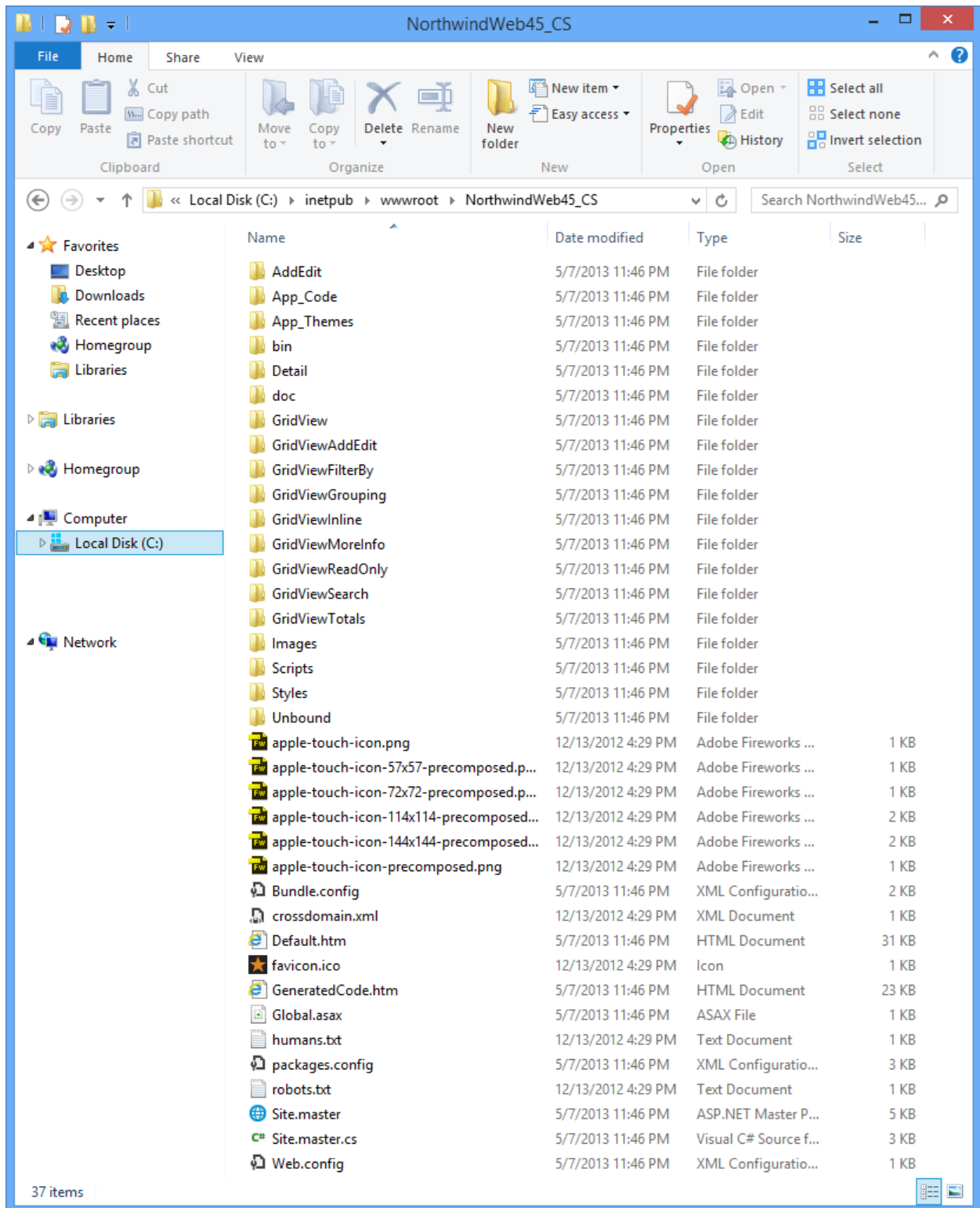


Figure 13 Generated Web Site

9. To see the generated web site in action, fire up Visual Studio 2012. From the *File* menu click *Open Web Site* as shown in Figure 14.

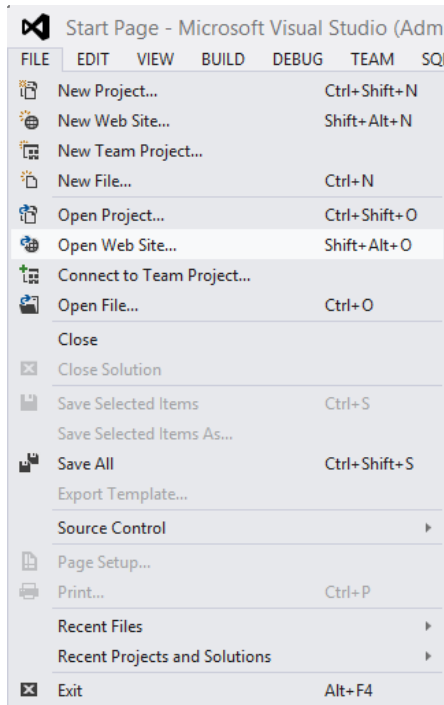


Figure 14 Visual Studio 2012, Open Web Site

10. Point to the web site directory, and then click *Open*. See Figure 15.

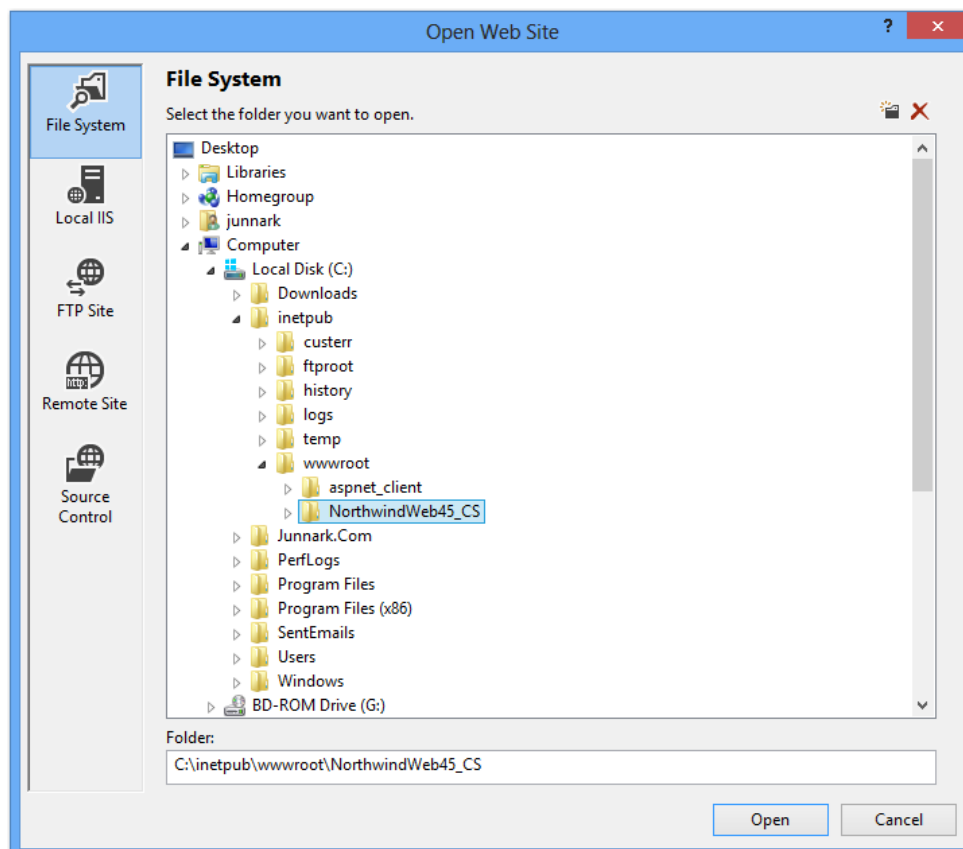


Figure 15 Generated Web Site

11. From the *Solution Explorer*, right-click on the *Default.htm* and then click *Set As Start Page*. See Figure 16.

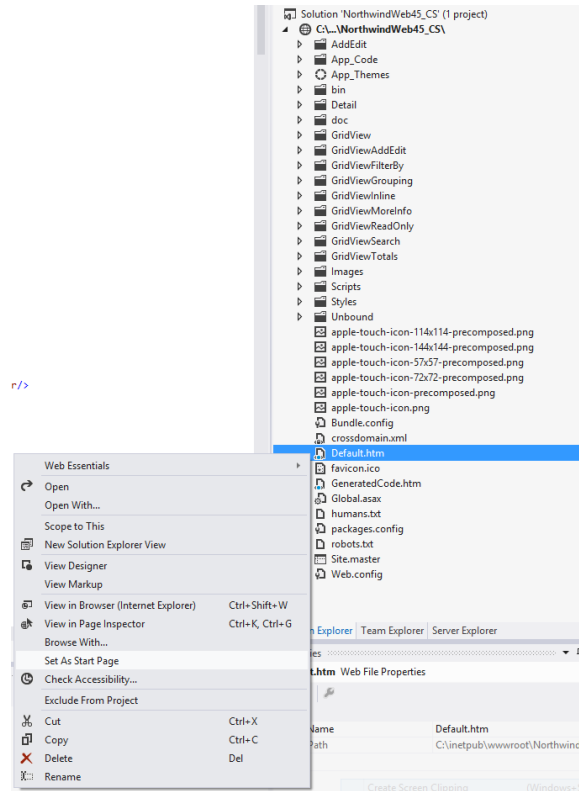


Figure 16 Set As Start Page

12. Run Visual Studio by pressing F5. You will see a list of all the generated ASP.NET 4.5 web forms. See Figure 17. You can click any link to preview the functionality of each of the generated web form. However, we're not going to discuss this in this tutorial. Please see the *Complete Guide* tutorial for more information.

Thank You for using AspxFormsGen 4.5 Professional+. Listed below are the ASP.NET 4.5 Web Forms generated by AspxFormsGen 4.5 Professional+.

Please [click here](#) to see the list of generated Middle-Tier (Business Objects) and Data-Tier code.

GridView with Add, Edit Redirect, & Delete	Features
<ul style="list-style-type: none"> GridView/Categories_Web.aspx GridView/CustomerDemographics_Web.aspx GridView/Customers_Web.aspx GridView/Employees_Web.aspx GridView/OrderDetails_Web.aspx GridView/Orders_Web.aspx GridView/Products_Web.aspx GridView/Region_Web.aspx GridView/Shippers_Web.aspx GridView/Suppliers_Web.aspx GridView/Territories_Web.aspx 	<ul style="list-style-type: none"> Can be used in the administration part of your website Contains a GridView Server Control that has CRUD (Create, Retrieve, Update, Delete) functionality. Add a new record on the same page with JQuery animation Updating and existing record redirects to another page Delete functionality uses a JQuery UI Pop-up for delete confirmation A link to a read-only Web Form is also provided for all Foreign Key columns (for details on the foreign key) Uses model binding to retrieve data GridView retrieves data on demand using Skip/Take logic GridView uses a Sort Direction Image in the header GridView uses Numeric Paging in the footer One ASP.NET 4.5 Web Form is generated per table
GridView with Add, Edit, & Delete (Functionality on the Same Page)	Features
<ul style="list-style-type: none"> GridViewAddEdit/Categories_Web.aspx GridViewAddEdit/CustomerDemographics_Web.aspx GridViewAddEdit/Customers_Web.aspx GridViewAddEdit/Employees_Web.aspx GridViewAddEdit/OrderDetails_Web.aspx GridViewAddEdit/Orders_Web.aspx GridViewAddEdit/Products_Web.aspx GridViewAddEdit/Region_Web.aspx GridViewAddEdit/Shippers_Web.aspx GridViewAddEdit/Suppliers_Web.aspx GridViewAddEdit/Territories_Web.aspx 	<ul style="list-style-type: none"> Can be used in the administration part of your website Contains a GridView Server Control that has CRUD (Create, Retrieve, Update, Delete) functionality. Add a new record on the same page with JQuery animation Update an existing record on the same page with JQuery animation Delete functionality uses a JQuery UI Pop-up for delete confirmation A JQuery Tooltip pop-up link is provided for all Foreign Key columns (for details on the foreign key) Uses model binding to retrieve data GridView retrieves data on demand using Skip/Take logic GridView uses a Sort Direction Image in the header GridView uses Numeric Paging in the footer One ASP.NET 4.5 Web Form is generated per table
GridView, Read-Only	Features
<ul style="list-style-type: none"> GridViewReadOnly/Categories_Web.aspx GridViewReadOnly/CustomerDemographics_Web.aspx GridViewReadOnly/Customers_Web.aspx GridViewReadOnly/Employees_Web.aspx GridViewReadOnly/OrderDetails_Web.aspx GridViewReadOnly/Orders_Web.aspx GridViewReadOnly/Products_Web.aspx GridViewReadOnly/Region_Web.aspx GridViewReadOnly/Shippers_Web.aspx GridViewReadOnly/Suppliers_Web.aspx GridViewReadOnly/Territories_Web.aspx 	<ul style="list-style-type: none"> Can be used in the public facing part of your website Contains a GridView Server Control. No CRUD functionality (read-only). A JQuery Tooltip pop-up link is provided for all Foreign Key columns (for details on the foreign key) Uses model binding to retrieve data GridView retrieves data on demand using Skip/Take logic GridView uses a Sort Direction Image in the header GridView uses Numeric Paging in the footer One ASP.NET 4.5 Web Form is generated per table
GridView, More Information	Features
<ul style="list-style-type: none"> GridViewMoreInfo/Categories_Web.aspx GridViewMoreInfo/CustomerDemographics_Web.aspx GridViewMoreInfo/Customers_Web.aspx GridViewMoreInfo/Employees_Web.aspx GridViewMoreInfo/OrderDetails_Web.aspx GridViewMoreInfo/Orders_Web.aspx GridViewMoreInfo/Products_Web.aspx GridViewMoreInfo/Region_Web.aspx GridViewMoreInfo/Shippers_Web.aspx GridViewMoreInfo/Suppliers_Web.aspx GridViewMoreInfo/Territories_Web.aspx 	<ul style="list-style-type: none"> Can be used in the public facing part of your website Contains a GridView Server Control. No CRUD functionality (read-only). Each row can be viewed for more information on click of the respective button (animated) Uses model binding to retrieve data GridView retrieves data on demand using Skip/Take logic GridView uses a Sort Direction Image in the header GridView uses Numeric Paging in the footer A JQuery Tooltip pop-up link is provided for all Foreign Key columns (for details on the foreign key) One ASP.NET 4.5 Web Form is generated per table

Figure 17 List of Generated Web Forms

13. When you click any of the links you are redirected to that specific web page as seen in Figure 18. Play around to see the functionality of each web page.

[Add New Products](#)

Product ID	Product Name	Supplier ID	Category ID	Quantity Per Unit	Unit Price	Units In Stock	Units On Order	Reorder Level	Discontinued		
17	Alice Mutton	7	8	20 - 1 kg tins	\$39.00	0	0	0	<input checked="" type="checkbox"/>	Edit	Delete
3	Aniseed Syrup	1	2	12 - 550 ml bottles	\$10.00	13	70	25	<input type="checkbox"/>	Edit	Delete
40	Boston Crab Meat	19	1		\$18.40	123	0	30	<input type="checkbox"/>	Edit	Delete
60	Camembert Pierrot	28	8		\$34.00	19	0	0	<input type="checkbox"/>	Edit	Delete
18	Camaron Tigers	7	1		\$62.50	42	0	0	<input type="checkbox"/>	Edit	Delete
1	Chai	1	1		\$18.00	39	0	10	<input type="checkbox"/>	Edit	Delete
2	Chang	1	1	24 - 12 oz bottles	\$19.00	17	40	25	<input type="checkbox"/>	Edit	Delete
39	Chartreuse verte	18	1	750 cc per bottle	\$18.00	69	0	5	<input type="checkbox"/>	Edit	Delete
4	Chef Anton's Cajun Seasoning	2	2	48 - 6 oz jars	\$22.00	53	0	0	<input type="checkbox"/>	Edit	Delete
5	Chef Anton's Gumbo Mix	2	2	36 boxes	\$21.35	0	0	0	<input checked="" type="checkbox"/>	Edit	Delete
48	Chocolade	22	3	10 pkgs.	\$12.75	15	70	25	<input type="checkbox"/>	Edit	Delete
38	Côte de Blaye	18	1	12 - 75 cl bottles	\$263.50	17	0	15	<input type="checkbox"/>	Edit	Delete
58	Escargots de Bourgogne	27	8	24 pieces	\$13.25	62	0	20	<input type="checkbox"/>	Edit	Delete
78	fad								<input type="checkbox"/>	Edit	Delete
52	Filo Mix	24	5	16 - 2 kg boxes	\$7.00	38	0	25	<input type="checkbox"/>	Edit	Delete
71	Flotemysost	15	4	10 - 500 g pkgs.	\$21.50	26	0	0	<input type="checkbox"/>	Edit	Delete

1 2 3 4 5

Figure 18 Sample Generated Web Page (GridView w/ Add, Edit, Delete for Products Table)

14. Go back to the List of Generated Web Forms page (Figure 17). Click the link on the top left corner to see the List of Generated middle-tier classes, data-tier classes, and stored procedures (or dynamic SQL classes). See Figure 19. We're not going to discuss this in this tutorial. Please see the *Complete Guide* tutorial for more information.

Thank You for using AspFormsGen 4.5 Professional+. Listed below are the Middle-Tier, Data-Tier, and SQL code generated by AspFormsGen 4.5 Professional+. All generated code listed here are located in the App_code folder, except for the Stored Procedures which are directly generated in MS SQL Server.

Business Object Classes	Features
<ul style="list-style-type: none"> Categories.cs CustomerDemographics.cs Customers.cs Employees.cs OrderDetails.cs Orders.cs Products.cs Region.cs Shippers.cs Suppliers.cs Territories.cs 	<ul style="list-style-type: none"> Note: The only code you call from your application Used as the gateway middle layer object the client calls Most CRUD calls can be made in one (1) line of code Inherits from the respective BusinessObjectBase class You can add additional code here (it will not be overwritten by the generator) One Class is generated per table Located in the \BusinessObject\ folder
Business Object Base Classes	Features
<ul style="list-style-type: none"> CategoriesBase.cs CustomerDemographicsBase.cs CustomersBase.cs EmployeesBase.cs OrderDetailsBase.cs OrdersBase.cs ProductsBase.cs RegionBase.cs ShippersBase.cs SuppliersBase.cs TerritoriesBase.cs 	<ul style="list-style-type: none"> Used as the base class to the Business Object class Do not add or edit code here Contains table fields as properties Encapsulates calls to the data layer One Class is generated per table Located in the \BusinessObjectBase\ folder
Business Object Collection Classes	Features
<ul style="list-style-type: none"> CategoriesCollection.cs CustomerDemographicsCollection.cs CustomersCollection.cs EmployeesCollection.cs OrderDetailsCollection.cs OrdersCollection.cs ProductsCollection.cs RegionCollection.cs ShippersCollection.cs SuppliersCollection.cs TerritoriesCollection.cs 	<ul style="list-style-type: none"> Used as the Collection of the Business Object Class Do not add or edit code here One Class is generated per table Located in the \BusinessObjectCollection\ folder
Data Layer Classes	Features
<ul style="list-style-type: none"> CategoriesDataLayer.cs CustomerDemographicsDataLayer.cs CustomersDataLayer.cs EmployeesDataLayer.cs OrderDetailsDataLayer.cs OrdersDataLayer.cs ProductsDataLayer.cs RegionDataLayer.cs ShippersDataLayer.cs SuppliersDataLayer.cs TerritoriesDataLayer.cs 	<ul style="list-style-type: none"> Used as the gateway data layer object the middle tier objects call Inherits from the respective DataLayerBase class You can add additional code here (it will not be overwritten by the generator) One Class is generated per table Located in the \DataLayer\ folder
Data Layer Base Classes	Features
<ul style="list-style-type: none"> CategoriesDataLayerBase.cs CustomerDemographicsDataLayerBase.cs CustomersDataLayerBase.cs EmployeesDataLayerBase.cs OrderDetailsDataLayerBase.cs OrdersDataLayerBase.cs ProductsDataLayerBase.cs RegionDataLayerBase.cs ShippersDataLayerBase.cs SuppliersDataLayerBase.cs TerritoriesDataLayerBase.cs 	<ul style="list-style-type: none"> Used as the base class to the Data Layer class Do not add or edit code here Encapsulates calls to Stored Procedures or Dynamic SQL One Class is generated per table Located in the \DataLayerBase\ folder

Figure 19 List of Middle-Tier, Data-Tier, and Stored Procedures (or Dynamic SQL)

15. Close the web page and go back to Visual Studio 2012. The generated middle-tier and data-tier classes can be found under the *App_Code* folder. Please see Figure 20.

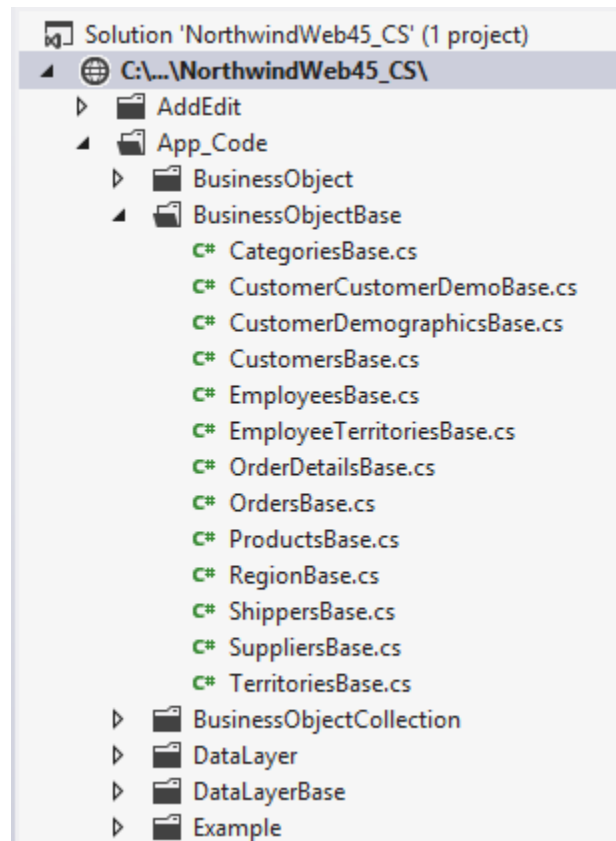


Figure 20 Middle-Tier and Data-Tier Classes Under App_Code Folder

Note: Some features shown here are not available in the Express Edition.

End of tutorial.