## Activating AspCoreGen 2.0 Razor Pro Plus

Note: You need internet connection to activate AspCoreGen 2.0 Razor. You can install one (1) license of AspCoreGen 2.0 Razor 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 AspCoreGen 2.0 Razor 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.

AspCoreGen 2.0 Razor I	Professional+ Activation	
Serial Number:		
Confirm Code:		Get Code
	Activate 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.

AspCoreGen 2.0 Ra	zor Professional+ Activation	
Serial Number: Activation Code:	TG159-P9RJ-ARK-RKK193	
Confirm Code:	Get Code	
	Activate Exit	
		.:

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.

AspCoreGen 2.0 Razor Professional+	×
An email was sent to the original purchaser's email address cor Confirm Code you need to activate this product. Please copy a Confirm Code in the respective field to activate your product.	
	ОК

Figure 3 Confirm Code Sent

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

Serial Number:	TG159-P9RJ-ARK-RKK193	
Activation Code:	0F69G-PTYG53-ITGH-902LPL	
Confirm Code:	PG82KD81KDU13	Get Code
	Activate 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.

AspCoreGen 2.0 Razor Professional+	×
Invalid Serial Number, Activation Code, or Confirm Code! Please try again.	
ОК	

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.

AspCoreG	ien 2.0 F	Razor Prof	ession	nal+				_		)
				Dill	C					
Selected T	ables	Selected V	iews	Database	Settings	Code Settings	UI Setting	s App	Settings	
Databa	ase Co	nnection								
😮 s	erver:		ocalho	st						
8 D	)atabase	Name:								
<b>0</b> U	Jser Nam	ie:								
🕑 P	assword	l: [					😮 🖂 S	now Pas	sword	
Ø	I Us	se Linqto-E	Intities	(Entity Fran	nework C	ore)				
0	O Us	se Stored F	roced	ures	0	O Use Ad H	loc/Dynamic	SQL		
-5	Stored	Procedur	2		-0	ienerated SQ	L Script			
	6 💿	No Prefix	or Suf	fix		🕘 💿 Autom	atic			
	00	Prefix:				? 🔿 MS S	QL 2008 Be	ow		
	ଡ ଼	Suffix								
About	Close		Γ	G	ienerate	Code for All	Tables		Cance	el

### Figure 6 Main Window

## **A Simple Interface**

To keep AspCoreGen 2.0 Razor simple, there's only one main interface as shown in Figure 6. The main window consists of six (6) tabs.

- 1. **Selected Tables**: AspCoreGen 2.0 Razor 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 database 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 linq-to-entities (entity framework core), 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. C# is the only language that will be generated because VB.NET is not supported in ASP.NET Core 2.1 during the time of this writing.

Three projects can be generated and are shown in this tab in 3 separate boxes:

- a. Web Application (ASP.NET Core 2.1 Project).
- b. Business Layer and Data Layer API (Core 2.1 Class Library Project).
- c. Web API (ASP.NET Core 2.1 Web API Project). This is optional.

You can enter the Name of each project and the directory for the Web Application. Directories for the Business Layer and Data Layer API and Web API projects are filled automatically.

You can choose to Generate Code Examples, and also a Web API project.

- 5. **UI Settings**: You can customize your own settings for the generated ASP.NET Razor Pages here. You can choose themes for the JQuery UI controls. You can also select which Razor Pages to generate and the Razor Page's filename prefix to use for each Razor Pages.
- 6. **App Settings**: These are application settings. Almost all generated code/Razor Pages are overwritten every time you use AspCoreGen 2.0 Razor. 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 AspCoreGen 2.0 Razor remembers the last settings you used such as, e.g. server, database name, directory, namespace, language etc., the next time you open AspCoreGen 2.0 Razor, and you can just click the Generate... button, that simple.

# A Quick Tour

Let's learn how to generate an ASP.NET Core Razor Web Application, a Class Library (our middle tier and data tier), the optional ASP.NET Core Web API project using AspCoreGen 2.0 Razor. **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 an error pops up showing the required fields to fill. See Figure 7.

AspCoreGen 2.0 Razor Professional+	×
At least one required field is blank, or names are not unique, or names are not alphanumeric. Please go to the Database Settings, Code Settings, UI Settings, or App Settings tab to correct the following errors.	
<ul> <li>Database Name is required. (Database Settings)</li> <li>Username is required. (Database Settings)</li> <li>Password is required. (Database Settings)</li> <li>Web Application Name is required. (Code Settings)</li> <li>Web Application Directory is required. (Code Settings)</li> </ul>	
ОК	

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.

**Note:** Checking the *Show Password* in Figure 8 will remember this password so you don't have to enter it again the next time you open AspCoreGen 2.0 Razor.

<b>@</b>	AspCo	eGen 2.0	Razor Pro	fessior	nal+				_		$\times$
	Selecte	d Tables	Selected	Views	Database Setti	ngs	Code Settings	UI Settings	App Se	ettings	
			onnectio								
	-	Server:		localho							
	-		se Name:	Northw	vind						
	-	User Na		sa				_			
	0	Passwo	rd:	adminp	assword			🕜 🗹 Sho	w Passv	vord	
	Ger	erated \$	SQL								
		8 💿	Use Linq-to	-Entities	(Entity Framew	ork Co	ne)				
		00	Use Stored	Proced	ures	Ø	O Use Ad Ho	oc/Dynamic S	QL		
		Stored	l Procedu	re		Ge	enerated SQI	L Script			
		0	No Prefi	x or Suf	fix	e	<ul> <li>Automa</li> </ul>	atic			
		0	Prefix:			e	O MS SQ	L 2008 Belov	v		
		0	Suffix								
	About	Close	•	Г	Gene	rate	Code for All	Tables			
				L							

Figure 8 Database Settings Tab

elected	Tables	Select	ted Views	Databa	se Settings	Code Setting	s UI Setting	gs App	Settings
Data	abase (	)biects	to Gene	rate Fro	m				
-	All	•							
Ø		√iews							
0	O Sel	ected T	ables Only						
Ø	🔿 Sel	ected V	iews Only						
Web	Applic	ation							
Ø	Name:		Northwind	RazorEF					
0	Director	y:	C:\inetpub	\www.roo	ot\			brow	se
0	🗹 Ger	nerate C	ode Exam	ples	O Dev S	Server Port:	27229		
-	<b>ness L</b> a Langua	-	nd Data I	Layer Al	PI				
_		-		Layer Al	PI				
0	Langua	ge:		-	$\sim$				
0 0	Langua Name:	ge:	C# Northwind	RazorEF/	API	-PararEC Mart	huindDazor	EADI	
0 0	Langua	ge:	C# Northwind	RazorEF/	API	dRazorEF\Nort	hwindRazor	EFAPI	
0 0 0	Langua Name:	ge:	C# Northwind	RazorEF/	API	dRazorEF\Nort	hwindRazorE	EFAPI	
P P P	Langua Name: Director	ge: y:	C# Northwind C:\inetpub	RazorEF/	API	dRazorEF\Nort	hwindRazor	EFAPI	
C C C Web	Langua Name: Director API	ge: y:	C# Northwind C:\inetpub	RazorEF/	API at \Northwing	dRazorEF\Nort	hwindRazort	EFAPI	
C C C Web C C	Langua Name: Director API Vse Name:	ge: y: web/	C# Northwind C:\inetpub	RazorEF/	API at Worthwind				
C C C Web C C	Langua Name: Director API	ge: y: web/	C# Northwind C:\inetpub	RazorEF/	API at Worthwind	dRazorEF\Nort dRazorEF\Nort			API
P P P Web P	Langua Name: Director API Vame: Director	ge: y: ≱Web/	C# Northwind C:\inetpub	RazorEF/	API at Worthwind				API
C C C Web C C	Langua Name: Director API Vse Name:	ge: y: ≱Web/	C# Northwind C:\inetpub	RazorEF/	API ot:\Northwind WebAPI ot:\Northwin		thwindRazor		API

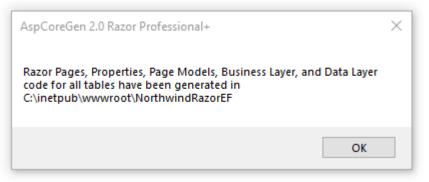
Figure 9 Code Settings Tab

4. Click the "Generate Code for All Tables" button. AspCoreGen 2.0 Razor will start generating objects. See Figure 10.

oreGen	2.0 Raz	or Professional+				
elected	Tables	Selected Views	Database Settings	Code Settings	UI Settings	App Settings
Data	base O	bjects to Gene	rate From			
Ø	IIA 🖲	ables				
Ø		liews				
0		ected Tables Only				
Ø	Sele	ected Views Only				
Web	Applic	ation				
_	Name:	Northwind	DatorEE			
-						
-	Director	erate Code Examp	\www.root\		229	browse
U		lerate Code Examp	Dev .	Server Port: 27	223	
-	Langua Name:		RazorEFAPI			
Ø	Directory	C:\inetpub	\www.root\Northwind	lRazorEF\Northv	vindRazorEF/	\PI
	API-					
-		Web API				
Ø	Name:	Northwind	RazorEFWebAPI			
0	Director	y: C:\inetpub	\www.root\Northwin	dRazorEF\North	windRazorEF	WebAPI
About	Close		Generate	e Code for All	Tables	Cano
6 comple	ted. Lo	ading dbo.Order D	Jetails			

Figure 10 Generating Code

5. Wait for a few seconds. When AspCoreGen 2.0 Razor 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 AspCoreGen 2.0 Razor by clicking the Close button.

7. To view the generated web application, simply go to the directory you specified from the *Code Settings* tab of AspCoreGen 2.0 Razor. You will see three folders and a solution file like the one shown in Figure 12.

-   🖓 📙 🖛   M	JorthwindRazorEF				- 🗆	$\times$
File Home	Share View					~ 🤇
Pin to Quick Copy access	Cut Paste Copy path Paste Paste shortcut	Move Copy to * Copy	New item ▼ 1 Easy access ▼ 1 folder	Properties	Select all Select none	
CI	ipboard	Organize	New	Open	Select	
← → * ↑	www.cod www.cod	> NorthwindRazorEF	✓ 🗗 Search N	orthwindRazorEF		Q
📌 Quick access		Name ^	Date modified	Type PM File folder	Size	
i OneDrive		NorthwindRazorEF	8/24/2018 4:01   8/24/2018 4:01			
💻 This PC		NorthwindRazorEFWebAPI	8/24/2018 4:01	PM File folder		
	up Plus Drive (N:)	J NorthwindRazorEF.sln	8/24/2018 4:01	PM Visual Studio Solut	ion :	3 KB
4 items					F	

Figure 12 Generated Web Application

8. To view the generated web application, simply go to the directory you specified from the *Code Settings* tab of AspCoreGen 2.0 Razor. You will see a list like the one shown in Figure 13. Each project is separated in the Folders specified in the *Code Settings* tab.

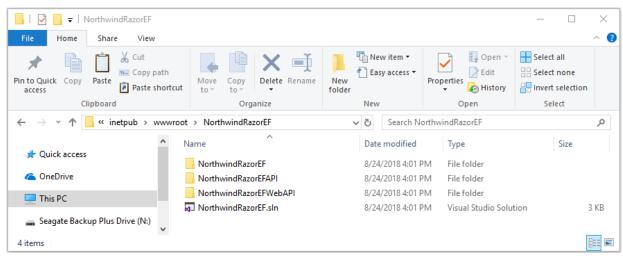


Figure 13 Generated Razor Web Application

9. *Double-Click* the solution file (for this example, it will be the *NorthwindRazorEF.sln*). The solution will open in Visual Studio 2017.

10. Run the solution by pressing *F5*. You will see a list of all the generated ASP.NET Core Razor Pages. See Figure 14. You can click any link to preview the functionality of each of the generated Razor Page. However, we're not going to discuss this in this tutorial.

🖻 🖅 🗇 Generated ASP	P.NET Cor $\times$ + $\vee$			_		×
$\leftarrow$ $\rightarrow$ $\circlearrowright$ $\textcircled{a}$	localhost:27229/		□ ☆	🖻 🏳	L	
NorthwindRazorEF	Ē					^
	CoreGen 2.0 Razor Professional+. Asp		-			
respective projects includ	use with Visual Studio 2017 or later. ding: Pages, Page Models, Partial Pag els, and Web API Controllers.		-			
1. Web Application Pro	ject - ASP.NET Core Razor Web Appli	cation (.NET Core)				
PAGES - Pages Folder (cl	lick to hide list)					
LIST WITH ADD, EDIT RED	IRECT. & DELETE PAGES					
Categories/Categories_Lis						
	ustomerDemographics_ListCrudRedired	t				
Customers/Customers_List	tCrudRedirect	-				
Employees/Employees_Lis	stCrudRedirect					
OrderDetails/OrderDetails	s_ListCrudRedirect					
Orders/Orders_ListCrudRe	edirect					
Products/Products_ListCru	udRedirect					
Region/Region_ListCrudRe	edirect					
Shippers/Shippers_ListCru	<u>idRedirect</u>					
Suppliers/Suppliers_ListCr	rudRedirect					
Territories/Territories_Lis	stCrudRedirect					
ADD NEW RECORD PAGES						
Categories/Categories_Ad	ld					
	≌ ustomerDemographics_Add					
Customers/Customers_Add						
Employees/Employees Ad						
OrderDetails/OrderDetails	s_Add					
Orders/Orders_Add						
Products/Products_Add						
Region/Region_Add						
Shippers/Shippers_Add						
Suppliers/Suppliers_Add						
Territories/Territories_Ad	ld					
UPDATE RECORD PAGES						
Pages\Categories\Categories	es_Update					
	hics\CustomerDemographics_Update					
Pages\Customers\Customer	rs_Update					$\sim$

Figure 14 List of Generated Razor Objects

11. When you click any of the links you are redirected to that specific page. Play around to see the functionality of each web page.

12. Each black bar is the specific Project generated by AspCoreGen 2.0 Razor. Each black bar contains blue bars. Each blue bar on this page is clickable. Each blue bar is a section of the generated project. When clicked, each blue bar toggles which would either show or hide the list beneath them. See Figure 15.

昏	÷3	Generat	ed ASP.N	NET Cor $ imes$	+ ~						-		×
$\leftarrow$	$\rightarrow$	Ü	ŵ	i localh	ost:27229/				☆	9	לע	l~	
	North	windRa	<u>zorEF</u>										^
	Thank You for using AspCoreGen 2.0 Razor Professional+. AspCoreGen 2.0 Razor Professional+ generated 3 applications/projects for use with Visual Studio 2017 or later. Some of the main objects generated are listed below in their respective projects including: Pages, Page Models, Partial Pages, Partial Page Models, Business Objects, Data Layer, Entity Framework classes, Models, and Web API Controllers.												
	1. Web	o Applicat	tion Proje	ect - ASP.NET	Core Razor Web A	Application (.NE	T Core)						
	PAGES	Pages Fo	older (clio	ck to show lis	t)								
	PAGE M	odels - F	Pages Fol	der (click to s	how list)								
	PARTIA	L PAGES -	Pages\Sł	nared Folder	(click to show list)								
	PARTIA	L PAGE M	odels - I	PartialModels	Folder (click to sh	now list)							
	2. Bus	iness Obj	ects/Data	Layer - Class	: Library Project (.	.NET Core)							
	BUSINE	SS OBJEC	TS/MIDDL	E TIER - Busir	nessObject Folder	(click to show li	ist)						
	DATA L	AYER/DAI	JDATA T	IER - DataLay	er Folder (click to	show list)							
	MODELS	5 - Models	Folder (	click to show	list)								
	ENTITY	FRAMEW	ORK - EF	Folder (click	to show list)								
	3. Web	o API Proj	ect - ASP	NET Core Wo	eb API Application	(.NET Core)							
http:		DLLERS - 0	Controlle	rs Folder (cli	ck to show list)								~

Figure 15 Three Generated Projects

13. Close the web page and go back to Visual Studio 2017. The generated code separated in 3 projects can be seen in Figure 16.

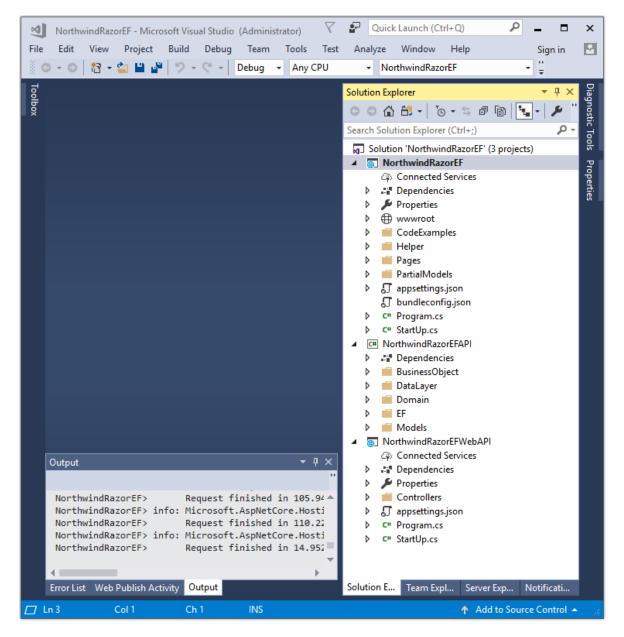


Figure 16 Three Projects Generated By AspCoreGen 2.0 Razor in Visual Studio 2017

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

End of tutorial.