Instructions to create

Visual Studio Templates

[July 25, 2019]

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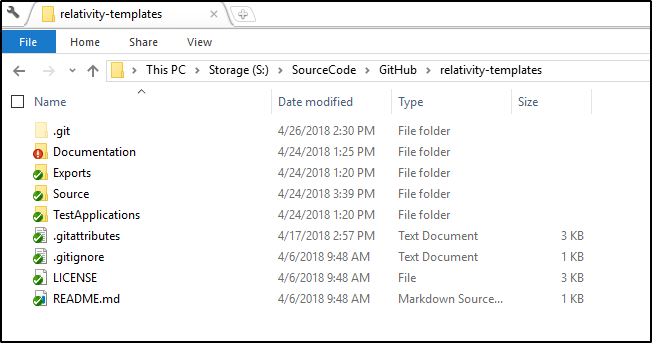
# **Instructions**

## Update Templates

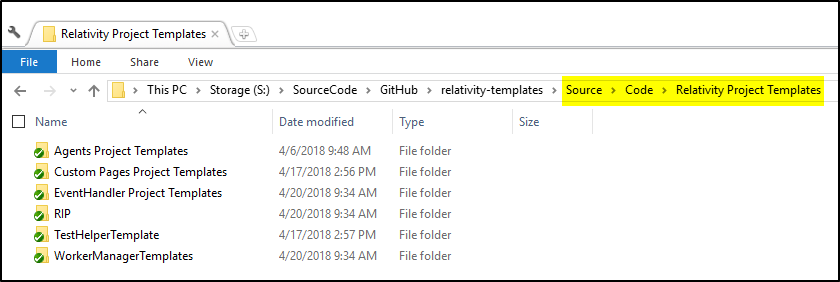
1. Clone repository from Bitbucket by running the following command in PowerShell window.

git clone <https://git.kcura.com/projects/CD/repos/applinyzer/browse>

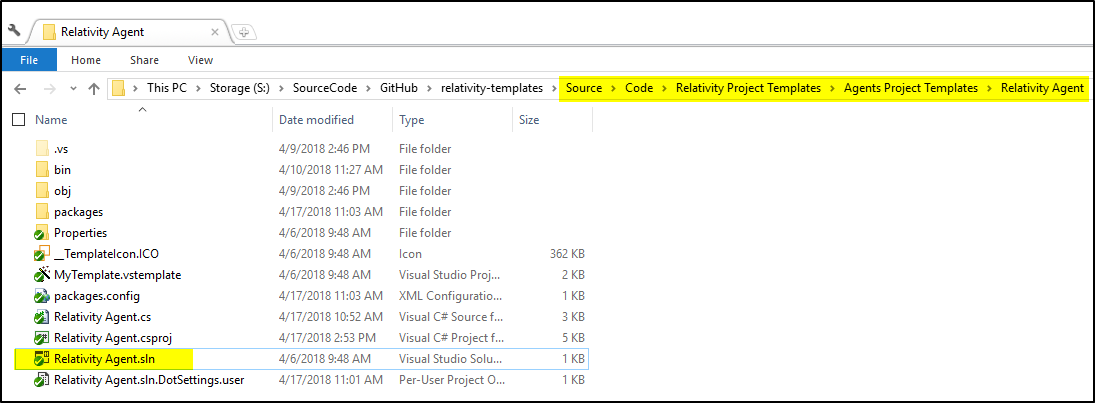
1. The repository contains the following folders.



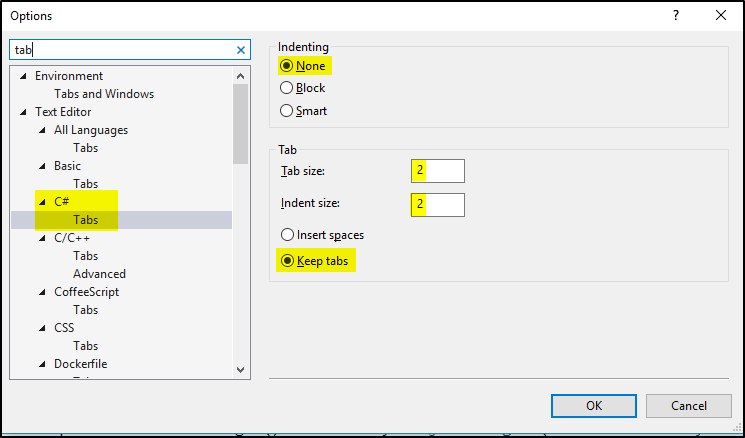
1. Open the Source\Code\Relativity Project Templates folder. It contains the following folders.



1. The instructions going forward will be for the Relativity Agent Template and the same instructions can be applied for other template types.
2. Open the **Relativity Agent.sln** file from the **Source\Code\Relativity Project Templates\Agents Project Templates\Relativity Agent** folder in **Visual Studi0 2017**.



1. In the Visual Studio solution, make the following changes:
   1. Add, Remove or Update best practices (RSAPI, ObjectManager API)
   2. Add, Remove or Update NuGet packages
   3. Add, Remove or Update API helpers
   4. Add, Remove or Update Logging helper
   5. Add proper comments
   6. Spell check all the files
   7. Format tabs and spaces
      1. Make sure your Visual Studio tab settings are as per the below screenshot

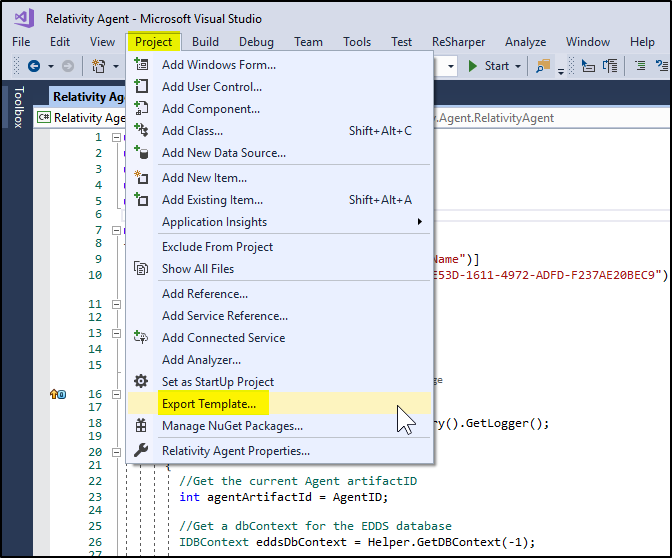


1. Make sure all the projects in the Visual Studio solution builds successfully.

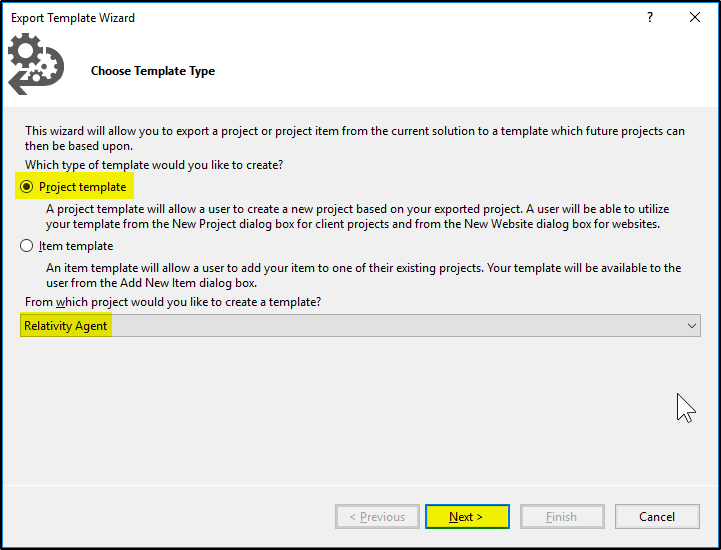
## Export Templates

### Project Level Template Export

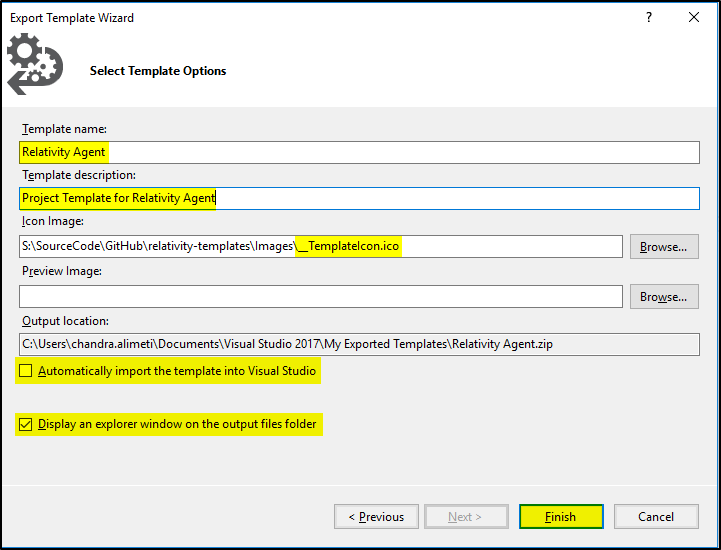
1. Select the **Export Template** option from the Visual Studio **Project** menu.



1. In the popup window select the **Project Template** option and click **Next**.



1. Provide a template name, short spell checked description, Icon image and set other settings as shown in below screenshot. Click **Finish**.



1. Extract the zip file created in the previous step.
2. Open the **Relativity Agent.cs** file.
3. Search for the **$** replacements listed below in all the **.cs**, **.csproj** files and update them.

Visual Studio Template Replacement Documentation:

<https://msdn.microsoft.com/en-us/library/eehb4faa.aspx>

Please find below some examples.

* 1. Guid

Original:

[System.Runtime.InteropServices.Guid("E19FE53D-1611-4972-ADFD-F237AE20BEC9")]

Replacement:

[System.Runtime.InteropServices.Guid("$guid1$")]

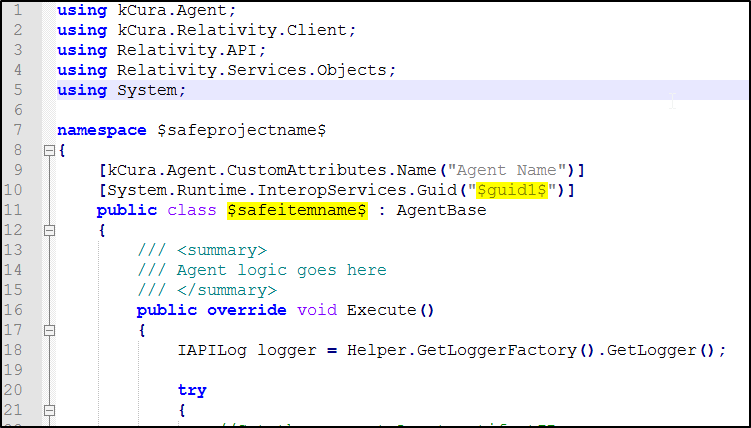
* 1. Class name

Original:

public class RelativityAgent : AgentBase

Replacement:

public class $safeitemname$ : AgentBase



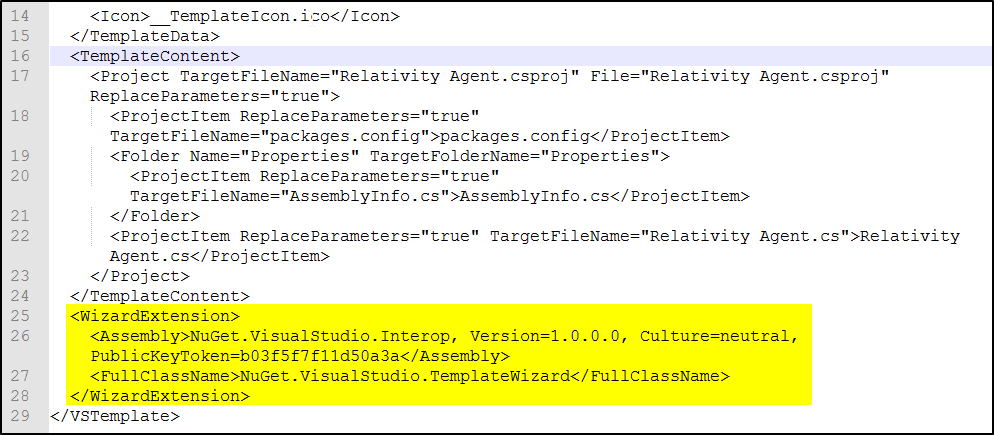
1. Open the **MyTemplate.vstemplate** file.
2. Add the following code to the vstemplate file after the <TemplateContent> tag.

<WizardExtension>

<Assembly>NuGet.VisualStudio.Interop, Version=1.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a</Assembly>

<FullClassName>NuGet.VisualStudio.TemplateWizard</FullClassName>

</WizardExtension>



1. Add the following code to the vstemplate file after the <WizardExtension> tag.

<WizardData>

<packages repository="extension" repositoryId="Relativity.Templates.10a39f04-8755-4444-9928-c25527b9209b">

</packages>

</WizardData>



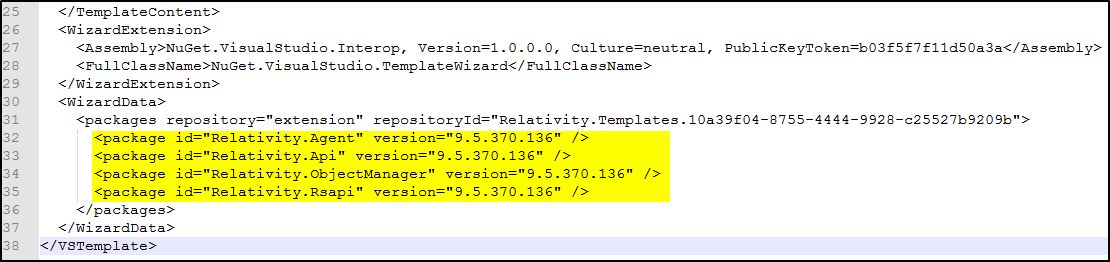
1. Add all the NuGet packages used in the project to the <packages> child tag under <WizardData> tag as shown in below screenshot.

<package id="Relativity.Agent" version="9.5.370.136" />

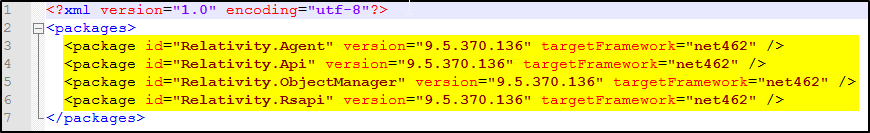
<package id="Relativity.Api" version="9.5.370.136" />

<package id="Relativity.ObjectManager" version="9.5.370.136" />

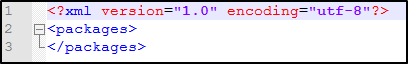
<package id="Relativity.Rsapi" version="9.5.370.136" />



packages.config file:

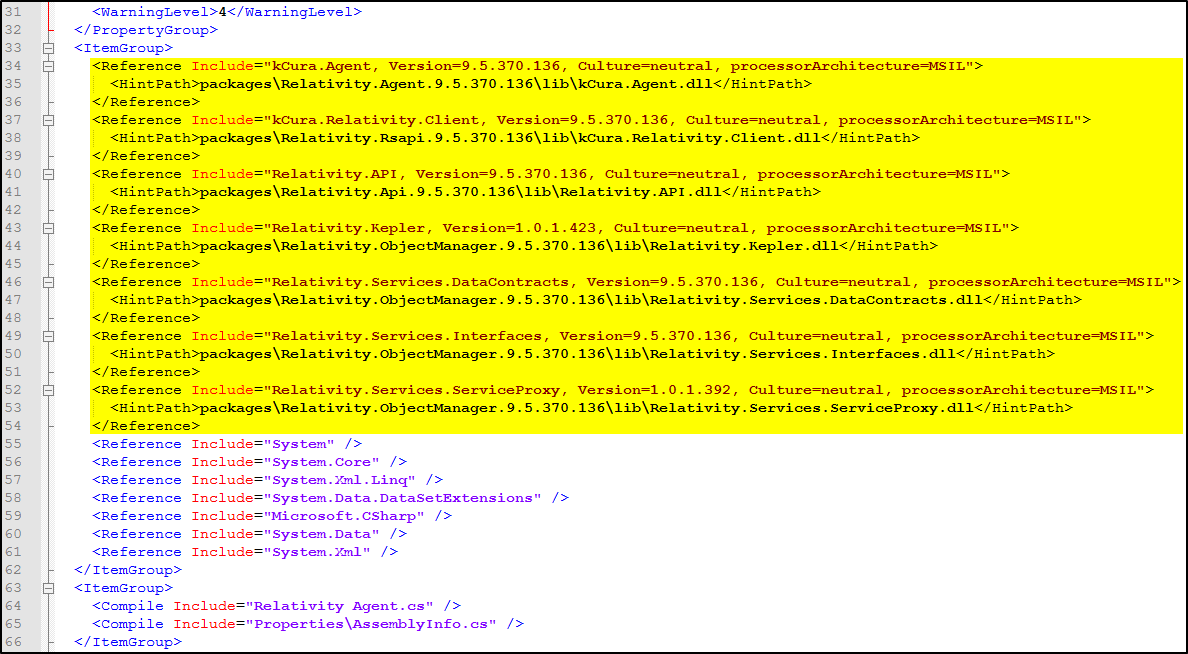


1. Remove all the NuGet package references from the **packages.config** file.

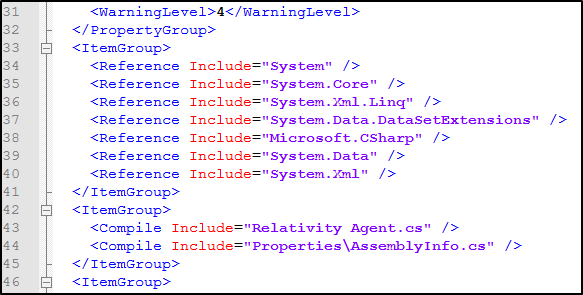


1. Remove all the NuGet package references from the **csproj** file.

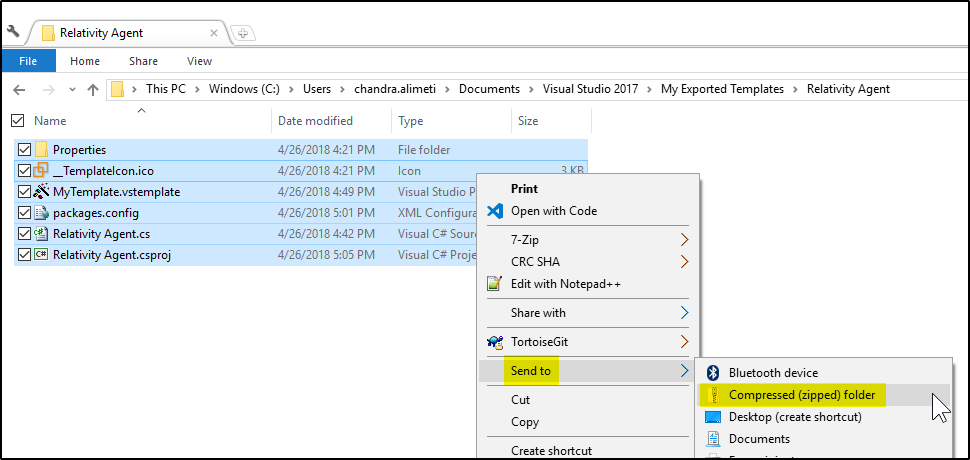
Before:

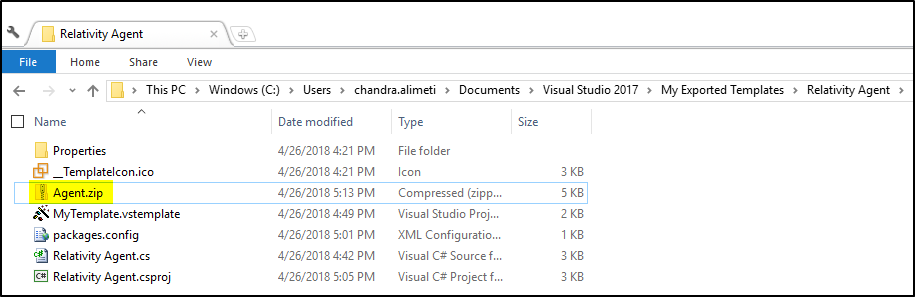


After:

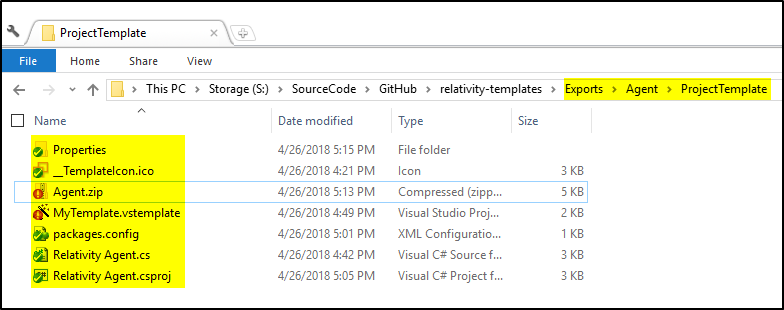


1. Once you are done making all the changes, select all the files and zip it up.
   1. If you are updating the templates
      1. Delete the previous zip file.
      2. Name the zip file with the same name as previous zip file name.





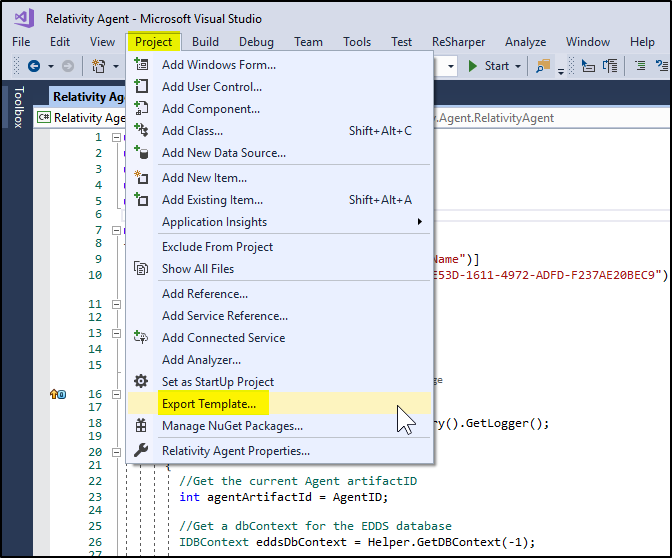
1. Copy all the files from the exported folder along with the created zip file to the **Exports/Agent/ProjectTemplate** folder.



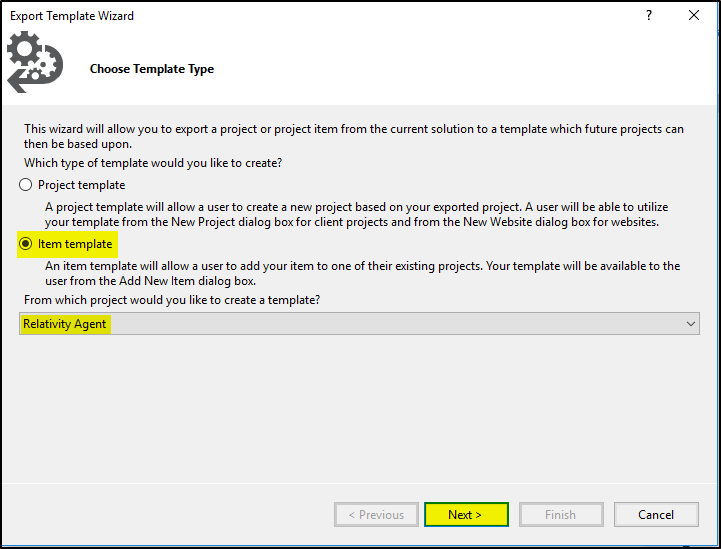
1. Follow the above steps to create Project Level templates for all the other template types.

### Item Level Template Export

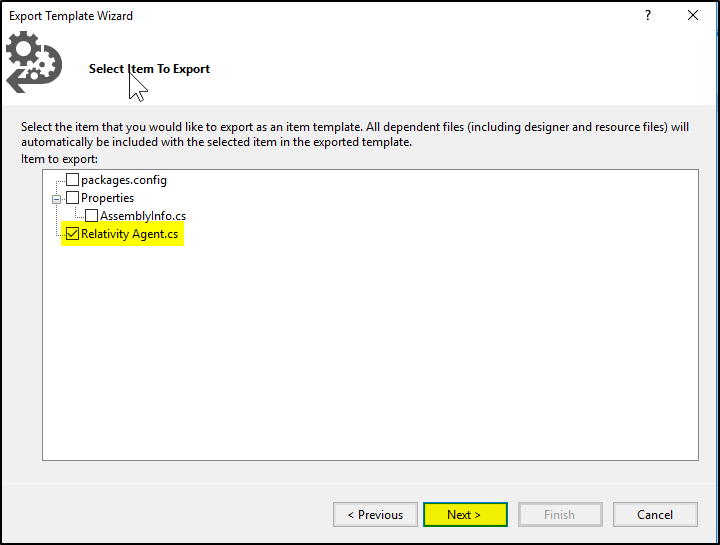
1. Select the **Export Template** option from the Visual Studio **Project** menu.



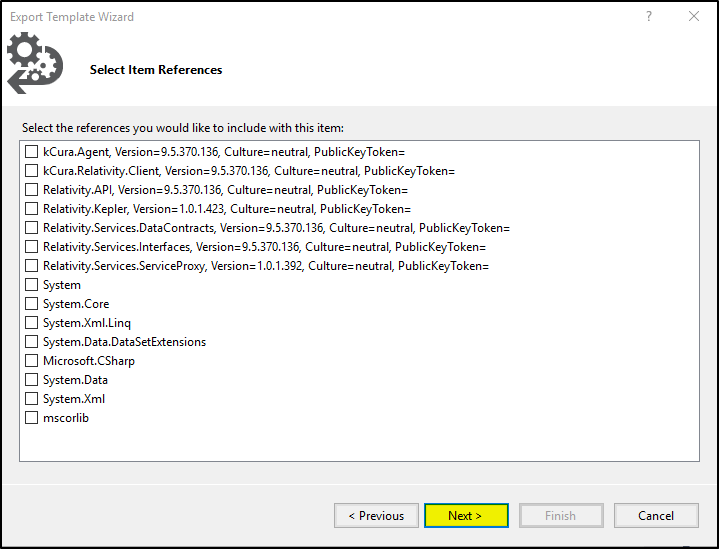
1. In the popup window select the **Item Template** option and click **Next**.



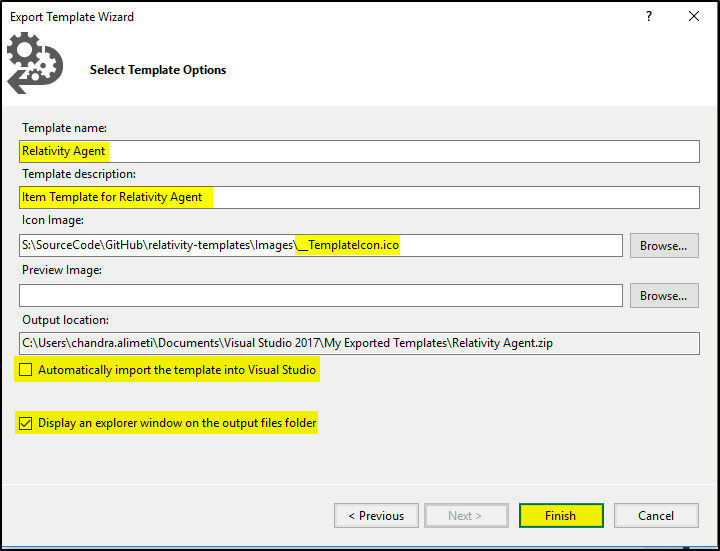
1. Select the **.cs** file to export and click **Next**.



1. Do **not** select any references and click **Next**.



1. Provide a template name, short spell checked description, Icon image and set other settings as shown in below screenshot. Click **Finish**.



1. Extract the zip file created in the previous step.
2. Open the **Relativity Agent.cs** file.
3. Search for all **$** variables and make sure they are correct. Please find below some examples.
   1. Guid

Original:

[System.Runtime.InteropServices.Guid("E19FE53D-1611-4972-ADFD-F237AE20BEC9")]

Replacement:

[System.Runtime.InteropServices.Guid("$guid1$")]

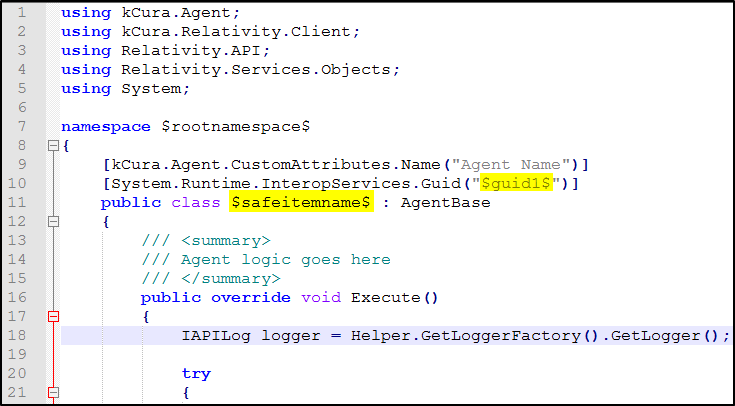
* 1. Class name

Original:

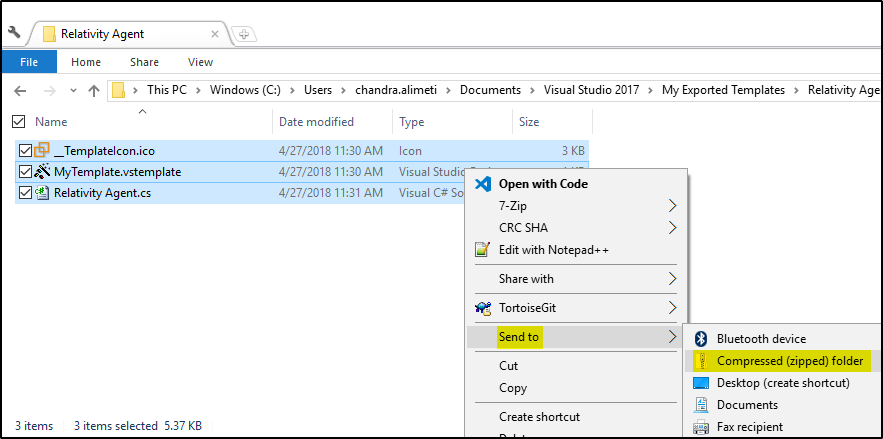
public class RelativityAgent : AgentBase

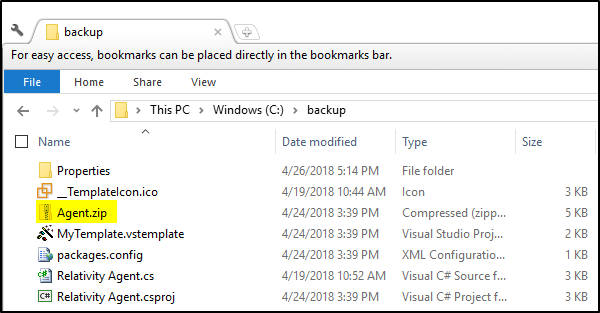
Replacement:

public class $safeitemname$ : AgentBase

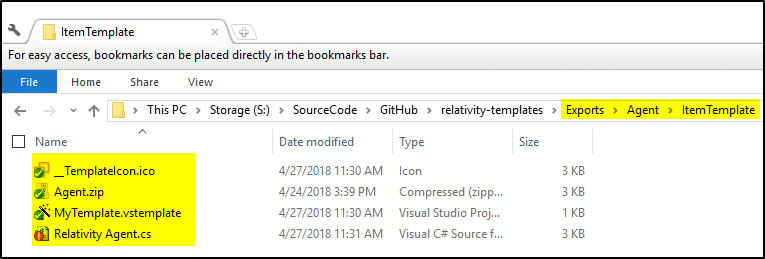


1. Once you are done making all the changes, select all the files and zip it up.
   1. If you are updating the templates
      1. Delete the previous zip file.
      2. Name the zip file with the same name as previous zip file name.





1. Copy all the files from the exported folder along with the created zip file to the **Exports/Agent/ItemTemplate** folder.



1. Follow the above steps to create Item Level templates for all the other template types.

### Multi-project Template Export

1. Create Project Templates normally for each project in the multi project solution. Do not Zip each project individually. (Also if your project references another project in the solution, update the reference as follows Ex: using RIP.Provider 🡪 using $saferootprojectname$.Provider. Update .csproj files this way also where other projects in the solution are referenced).
2. Add the following to the .vstemplatefiles below the other WizardExtension tag (this will replace the $saferootprojectname$ variables with the correct values when the user names their project when creating the template):

<WizardExtension>

<Assembly>RelativityWizard, Version=1.0.0.0, Culture=neutral, PublicKeyToken=null</Assembly>

<FullClassName>RelativityWizard.ChildWizard</FullClassName>

</WizardExtension>

1. Go to the corresponding **Exports** folder (Ex: Exports/ManagerWorker/Project/) and replace all of the individuation project folders with the updated Project Files and .vstemplate you just created.
2. Zip up all of the files in the “Project” folder and name the zip file the same as it’s corresponding file in the **Exports** folder

## Create VSIX

1. Open the **AllRelativityTemplates.sln** file from **Source\VSIX\AllRelativityTemplates** folder in Visual Studio 2017.
2. Copy all of the ZIP files for the Item templates in the **Exports** folder to the corresponding folder in **Source\VSIX\AllRelativityTemplates\ItemTemplates\Relativity\**
3. Copy all of the ZIP files for the Project templates in the **Exports** folder to the corresponding folder in **Source\VSIX\AllRelativityTemplates\ProjectTemplates\Relativity\**
4. Open the **Source\VSIX\AllRelativityTemplates.sln** and build the solution. The updated .vsix file will be located at **Source\VSIX\AllRelativityTemplates\bin\Debug\AllRelativityTemplates.vsix** after the build succeeds.
5. Upload this file to the Visual Studio Marketplace. After uploading, place this file in the **VSIX Uploaded** folder.