Sage 300 Web Screens SDK

Solution Wizard

May 2024

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Contents

[1. Overview 4](#_Toc111118815)

[2. Accessing the Solution Wizard 5](#_Toc111118816)

[3. Solution Wizard Inputs 7](#_Toc111118817)

[3.1 Solution Information 7](#_Toc111118818)

[3.2 Kendo UI Information 8](#_Toc111118819)

[3.3 Resource Files 9](#_Toc111118820)

[3.4 Generate Solution 10](#_Toc111118821)

[3.5 Web Project Start Page 10](#_Toc111118822)

[4. Examining the Solution 11](#_Toc111118823)

[4.1 Solution Explorer 11](#_Toc111118824)

[4.2 Business Repository Project 11](#_Toc111118825)

[4.3 Interfaces Project 12](#_Toc111118826)

[4.4 Models Project 13](#_Toc111118827)

[4.5 Resources Project 13](#_Toc111118828)

[4.6 Services Project 14](#_Toc111118829)

[4.7 Web Project 15](#_Toc111118830)

1. Overview

This document is intended to serve as a guide for illustrating how to use the Solution Wizard to create a Visual Studio Solution for Sage 300 Web User Interfaces (“UIs”).

The Solution Wizard is a Visual Studio Plugin and is compatible with Visual Studio 2022.

The intent of the wizard is to create a solution for Sage 300 Web UIs. The wizard will provide the necessary scaffolding and structures to accommodate the new Sage 300 Web UIs whether they are created manually or generated via the Sage 300 Code Generation Wizard.

The wizard will create the required projects in preparation for creating screens, reports, inquiries, etc. The projects created are:

|  |  |
| --- | --- |
| Business Repository | Contains the code files for the Entity Repositories, Entity Mappers, Menu Navigation XML, Security Constants, and so on. |
| **Interfaces** | Contains the code files for the Entity Repository/Service Interfaces. |
| **Models** | Contains the code files for the Models, Model Enumerations, and Model Fields. |
| **Resources** | Contains the code files for the Resources (Resx Files) for supported languages. |
| **Services** | Contains the code files for the Services. |
| **Web** | Contains the standard code files based upon MVC patterns (Controllers, View Models, JavaScript, Razor Views, Configuration files, and so on.) |

The solution created is aligned with how the ASP.Net tools create solutions and allows the wizard to leverage everything built into Visual Studio. Therefore, instead of a separate utility, the wizard is embedded directly into the Visual Studio IDE.

1. Installing the Wizard

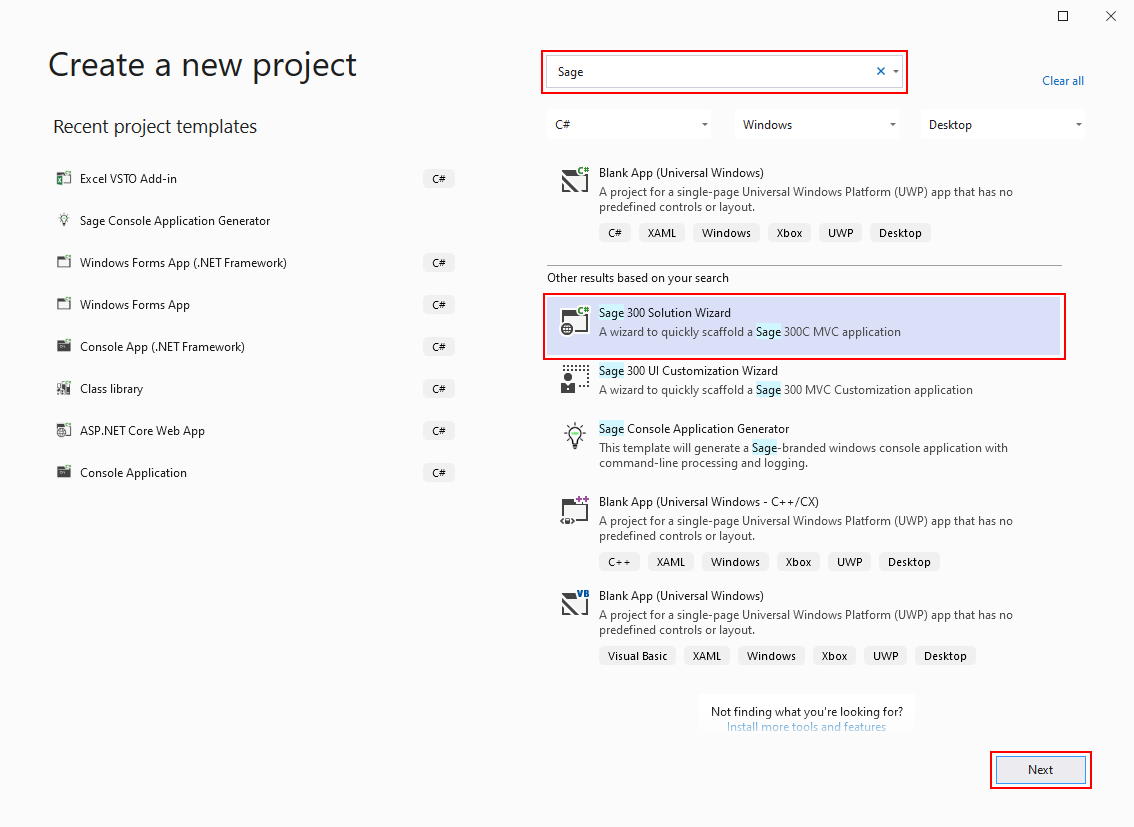
The Solution Wizard is a Visual Studio Plugin and is compatible with Visual Studio 2022.

**Note:** If the previous Sage 300 Solution Wizard Package is installed, it must be uninstalled first (Visual Studio - Tools, Extensions, Uninstall option, select the Sage 300 Solution Wizard Package to uninstall).

To install the utility:

1. Run Sage.CA.SBS.ERP.Sage300.SolutionWizardPackage.vsix.
2. Select the Install the Wizard Package option.
3. Accessing the Wizard

Because the wizard is embedded in Visual Studio as a plugin, when selecting the option to create a new project, you will see the Sage 300 Solution Wizard option. You can first type in ‘**Sage**’ in the textbox at the top to filter the results list. Once done, you shall see the entry for **Sage 300 Solution Wizard**:



Once you have selected **Sage 300 Solution Wizard**, click on the **Next** button to go to the next page.

The next step is to simply select the project name that is to be used for the solution, and specify any other options as needed in the **Configure your new project** dialog.

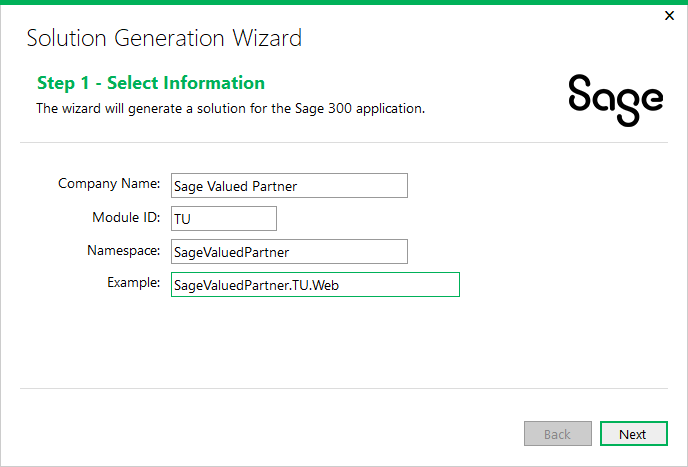
Graphical user interface, application

Description automatically generated

Once completed, press the **Create** button to start the **Solution Wizard**.

1. Wizard Inputs
   1. Solution Information

After supplying the information required to create a new project (solution), the following dialog box appears:



The following information is required by the wizard:

* Company Name

Used for copyright information and to provide a default value for the Namespace field.

* Module ID

Used as a Module designator that will be used to segregate the projects and will also become part of the namespace.

* Namespace

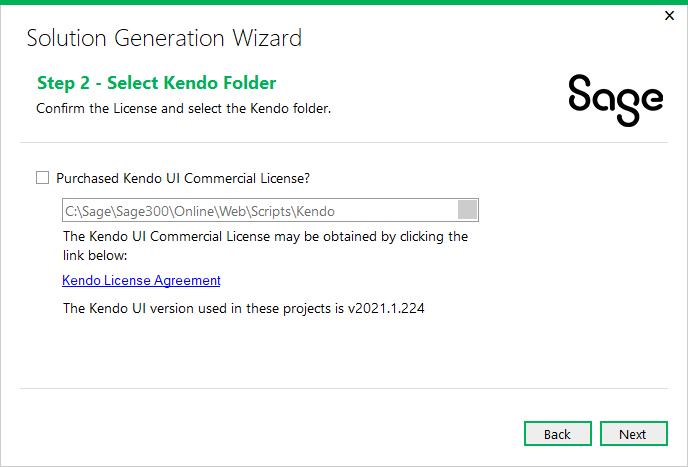
Used as the base Namespace value. The namespace will become a composite of this field and the Module ID. This field is defaulted from the Company Name field but may be overridden.

* Example

This is a read-only field to give the end user an example of what a full namespace will look like based on the entered information.

Click X to exit the wizard or click Next to proceed.

* 1. Kendo UI Information



The following information is required by the wizard:

* Purchased Kendo Commercial License

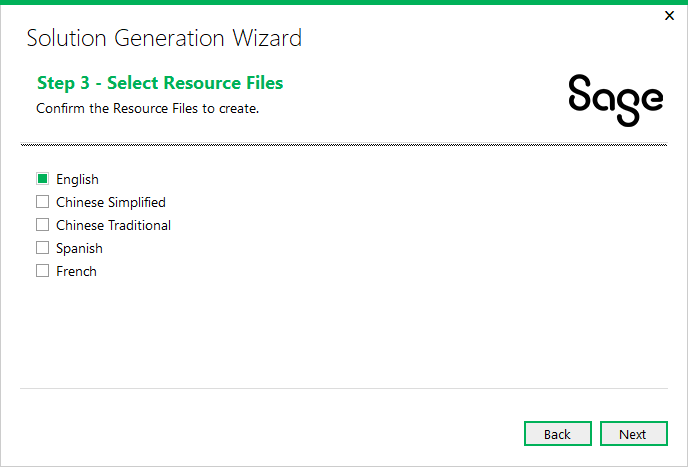
This checkbox must be selected, or the Solution Wizard will not proceed. This is the acknowledgment that the user/consumer has purchased a Kendo License since Sage does not distribute the Kendo files for development purposes.

* Kendo Folder

Defaults to the location of the Sage 300 Web installation in order to consume that version of the Kendo file. An alternate folder may be entered, but the Kendo folder must have the version specified as being compatible with Sage 300c Web Screens

Click Back to return to the previous step or click Next to proceed.

* 1. Resource Files



The following information is required by the wizard:

* English

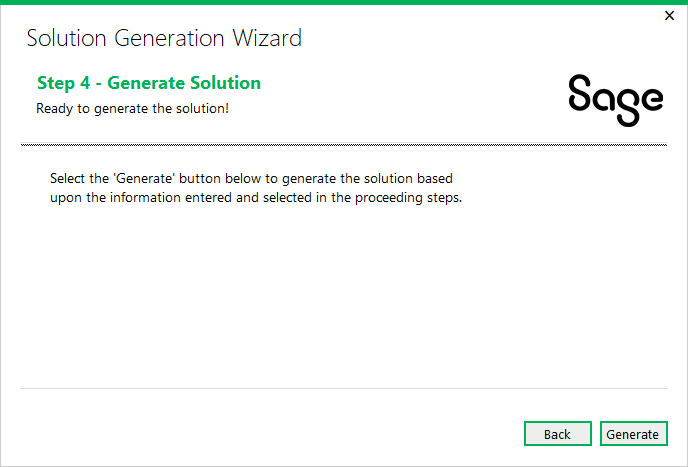
This checkbox is selected by default and cannot be unselected in order to ensure that at least the English Resource Files will be generated in the Resources Project.

* Chinese Simplified, Chinese Traditional, Spanish, and French

Select these checkboxes to generate the appropriate language files in the Resources Project. For these optional languages, the keys will be generated with blank values. These blank values must be translated prior to deployment.

Click Back to return to the previous step or click Next to proceed.

* 1. Generate Solution



Click Back to return to the previous step or click Generate to generate the solution.

* 1. Web Project Start Page

Start in Sage 300 version 2022, a login page named login.aspx has been added to the SDK Samples and generated partner solutions, which replaced hardcoded login credentials in the Global.asax.cs file. The Sage 300 Solution Wizard will automatically do the following:

* Set the **Web** project as the startup project
* Set **Login.aspx**, located in the root of the Web project folder, as the Start Page when debugging

1. Examining the Solution

It is time to examine the solution and get familiar with the class and folder scaffolding.

* 1. Solution Explorer



Note the solution name supplied in the New Project dialog box.

Note the namespace of the projects as specified in the Sage 300 Solution Wizard dialog box.

* 1. Business Repository Project



The wizard has already created the required folders and a few classes that will be used by the Code Generation Wizard.

Note the presence of the Process and Reports folders. In the Code Generation Wizard, if a Code Type of Process or Reports is selected, the appropriate Mapper and Repository class will be generated in these subfolders as opposed to the root folders.

The TUMenuModuleHelper.cs file already has generated code for Menu Navigation.

The Security.cs file already has constants generated for the Import and Export constants for the generated Module ID.

* 1. Interfaces Project



The wizard has already created the required folders that will be used by the Code Generation Wizard.

Note the presence of the Process and Reports folders. In the Code Generation Wizard, if a Code Type of Process or Reports is selected, the appropriate Interface classes will be generated in these subfolders as opposed to the root folders.

* 1. Models Project



The wizard has already created the required folders that will be used by the Code Generation Wizard.

Note the presence of the Process and Reports folders. In the Code Generation Wizard, if a Code Type of Process or Reports is selected, the appropriate Enumerations, Fields, and Model classes will be generated in these subfolders as opposed to the root folders.

* 1. Resources Project



The wizard has already created the required folders that will be used by the Code Generation Wizard.

Note the presence of the Forms, Process, and Reports folders. In the Code Generation Wizard, if a Code Type of Process or Reports is selected, the appropriate Resx files will be generated in these subfolders as opposed to the Forms folders.

Note the generated Resx files:

* Any Resx file that is common to all screens or reports in a module is to be placed in the root folder.
* Only the English Resx file is marked as Public. All other Resx files are marked as No Code Generation.
* MenuResx.resx is the English resource.
* MenuResx.es.resx is the Spanish resource, if selected in the Resource Files Step.
* MenuResx.fr.resx is the French resource, if selected in the Resource Files Step.
* MenuResx.zh-Hans.resx is the Chinese Simplified resource, if selected in the Resource Files Step.
* MenuResx.zh-Hant.resx is the Chinese Traditional resource, if selected in the Resource Files Step.
  1. Services Project



The wizard has already created the required folders and a class that will be used by the Code Generation Wizard.

Note the presence of the Process and Reports folders. In the Code Generation Wizard, if a Code Type of Process or Reports is selected, the Service class will be generated in these subfolders as opposed to the root folders.

The TUBootstrapper.cs file already has generated code for Unity Dependency Injection which will be added to by the Code Generation Wizard.

* 1. Web Project



The wizard has already created the required folders, files and classes that will be used by the Code Generation Wizard.

Note the presence of the Finder, Process, and Reports folders. In the Code Generation Wizard, if a Code Type of Process or Reports is selected, the appropriate classes will be generated in these subfolders as opposed to the root folders. If selected in the Code Generation Wizard Options, the Finder will be created in the Finder folder.

The TUBootstrapper.cs, TUAreaRegistration.cs, TUMenuDetails.xml, and TUWebBootstrapper.cs files already have generated code for Unity Dependency Injection which will be added to by the Code Generation Wizard.