This page describes how to use ASP.NET Web API within Kentico projects.



Note: Kentico uses ASP.NET Web API requests for internal APIs. These internal routes are registered at the /cmsapi/ endpoint and are not meant for public use.

Start by adding a custom project that will contain your Web API logic:

- 1. Open your Kentico solution in Visual Studio.
- 2. Create a new *Class Library* project in the Kentico solution (or reuse an existing custom project). The project will contain your Api Controllers.
- 3. Add references to the required Kentico libraries (DLLs) for the new project:
 - a. Right-click the project and select **Add -> Reference**.
 - Select the Browse tab of the Reference manager dialog, click Browse and navigate to the Lib folder of your Kentico web project.
 - c. Add references to the following libraries (and any others that you may need in your custom code):
 - CMS.Base.dll
 - CMS.Core.dll
 - CMS.DataEngine.dll
- 4. Reference the custom project from the Kentico web project (CMSApp or CMS).
- 5. Edit the custom project's **AssemblyInfo.cs** file (in the *Properties* folder).
- 6. Add the **AssemblyDiscoverable** assembly attribute:

using CMS;

[assembly:AssemblyDiscoverable]

- 7. Right-click your custom project in the **Solution Explorer** and select **Manage NuGet Packages**.
- 8. Install the **Newtonsoft.Json** package into the project. The version must be **7.0.1** or newer.



If you install a newer version than **7.0.1** of the *Newtonsoft.Json* package, you also need to synchronize the version in the Kentico web project:

- a. Right-click the Kentico web project (CMSApp or CMS) in the **Solution Explorer** and select **Manage NuGet Packages**.
- b. Update the Newtonsoft. Json package to the same version that you installed into your Web API project.
- 9. Install the Microsoft.AspNet.WebApi package.
- 10. Make sure the project contains a framework reference to the **System.Web** assembly.

Now you can define Web API controllers and register routes:

1. Create Web API controllers in your custom class library project. Make the controller classes inherit from the **System.Web. Http.ApiController** class.

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- 2. Create a <u>custom module class</u> in your project.
- 3. Override the module's **OnInit** method and register custom Web API routes.



Note: When adding routes, make sure there are no conflicts with the default Kentico **cmsapi** routes or any other page paths.

```
using System. Web. Http;
using CMS;
using CMS.DataEngine;
// Registers the custom module into the system
[assembly: RegisterModule(typeof(MyCompany.MySpace.CustomWebAPIModule))]
namespace MyCompany.MySpace
   public class CustomWebAPIModule : Module
        // Module class constructor, the system registers the module under the name
"CustomWebAPI"
        public CustomWebAPIModule()
        : base("CustomWebAPI")
        }
        // Contains initialization code that is executed when the application starts
        protected override void OnInit()
            base.OnInit();
            // Registers a "customapi" route
            GlobalConfiguration.Configuration.Routes.MapHttpRoute("customapi",
"customapi/{controller}/{id}", new { id = RouteParameter.Optional });
}
```

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4. Rebuild the solution.

You can now make Web API calls on the custom route that you registered.

```
Example

$http.get("http://myserver/customapi/CustomWebAPI", { id: 1})
    .success(function (data) {
        alert(data);
    })
    .error(function(error) {
        // Handle the error
    });
```

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