

C# .NET Assessment ChannelEngine

Create a .NET application with two entry points, a console app and an ASP.NET web app, which are connected to the ChannelEngine REST-API.

Include at least the functionality listed below:

Application Entry points

- A .NET console application which can execute the business logic listed below. Write the results of the logic below to the console output.
- An ASP.NET application, which can execute the business logic listed below. Implement this using a controller which displays an HTML table with the results.

Business logic

Create the following methods in a shared library:

- Fetch all orders with status IN_PROGRESS from the API
- From these orders, compile a list of the top 5 products sold (product name, GTIN and total quantity), order these by the total quantity sold in descending order
- Pick one of the products from these orders and use the API to set the stock of this product to 25.

Testing

- A unit test testing the expected outcome of the “top 5” functionality based on dummy input.
- You can create more unit tests if that is the way you usually work.

Tips

- Try to incorporate dependency injection.
- Using async is allowed.
- Commit individual changes to version control, like you would do for a professional project.

Notes

- You are **not** allowed to use the ready made ChannelEngine API NuGet package.
- Any other libraries or NuGet packages are allowed.
- The business logic, ASP.NET entry point, console application entry point and tests should all be added to the solution as separate projects.
- The finished project should be submitted by giving us access to a version control system of your choice (ideally Github). If you have to use a private repository, please ask your contact person who you should invite to view.

The API documentation can be found at:

<https://api-dev.channelengine.net/api/>

You can use the following API key: 541b989ef78ccb1bad630ea5b85c6ebff9ca3322

For example:

[https://api-dev.channelengine.net/api/v2/orders/new?
apikey=541b989ef78ccb1bad630ea5b85c6ebff9ca3322](https://api-dev.channelengine.net/api/v2/orders/new?apikey=541b989ef78ccb1bad630ea5b85c6ebff9ca3322)

The process of creating a basic ASP.NET webapp can be found at:

<https://docs.microsoft.com/en-us/aspnet/core/tutorials/first-mvc-app/>