# Back End Tech Assessment - C# / .Net

Create a .NET Core solution to contain an HTTP endpoint that:

1. Accepts a GET request with three optional query parameters to filter products or highlight some words (separated by commas in the query parameter) in their description:
   Example:
   */filter?minprice=5&maxprice=20&size=medium&highlight=green,blue*

2. Reads the list of all products from the URL (think of this as the database):
*http://www.mocky.io/v2/5e307edf3200005d00858b49*

3. Design the endpoint response so that it contains (in JSON format):

   a. All products if the request has no parameters

   b. A filtered subset of products if the request has filter parameters(minprice and/or maxprice and/or size)

   c. And filter(summary) object to contain:

      i. The minimum and the maximum price of all products in the source URL

      ii. An array of strings to contain all sizes of all products in the source URL

      iii. An string array of size ten to contain the most common words in the product descriptions, excluding the most common five in the source URL

   d. Add HTML tags to returned product descriptions in order to highlight the words provided in the highlight parameter. Example:

   "These trousers make a perfect pair with *****green***** or *****blue***** shirts."

## What we will look for

- Clean, readable, easy-to-understand code

- Performance, scalability, and security

- Unit tests

- Dependency injection

- Appropriate logging including the full mocky.io response

- Documentation for the users of your API

## Hints

- You do not need to implement authorization but look for other potential security vulnerabilities

- Feel free to use any open-source libraries

- Feel free to leave notes as code comments

## How To Submit

- You should only spend a few hours completing the assignment

- Have the solution ready to compile and run
- Avoid including artifacts (NuGet packages, bin folders) from your local build
- Compress the solution and send us a zip file.