R&D - .NET Coding Challenge

BairesDev specializes in delivering technology solutions. One of our engagement models is IT Staff Augmentation, where our engineers are an extension of the client's teams. Most of our developers (approx 95%) are located in LATAM.

We are looking to expand our client's portfolio. We request you to develop a .NET Core RESTful API that, given an input file "people.json" with LinkedIn public data, conforms to the following implementation:

1. An endpoint that finds the N people with the highest chance of becoming our clients, being N a parameter, as a JSON list of PersonId.

   Ex: *http://…../topclients/2* → Response: `[{"PersonId":150},{"PersonId":985}]`

2. An endpoint that finds, for a given PersonId, the position on the priority potential clients list.

   Ex: *http://…../clientposition/150* → Response: `{"Position":1}`

Bonus implementation: Another endpoint that allows the insertion of a new Person object and calculates its priority value.

The input file is a JSON array of objects structured like the following example:

```
[
	{
	    "PersonId": 4580, // long
	    "FirstName": "Jhon", // string
	    "LastName": "Smith", // string
	    "CurrentRole": "co-founder & cto", // string
	    "Country": "Germany", // string
	    "Industry": "United States", // string
	    "NumberOfRecommendations": 10,// int nullable
	    "NumberOfConnections": 500 // int nullable
	},
	{
	….
	}
]
```

Ideal resolution time: 3-4 hours. We know you could spend more time working on this problem, but, as this is just a test, we kindly ask you to prioritize and not work for more than 4 hours. We are expecting to see the use of design patterns, code quality, IOC, services/repositories, error handling, etc; as well as good decisions in the functional aspect. If you find that, because of lack of time, some of the code could be improved, please let us know.