**Candidate**

**Challenge**

**Hello candidate, why are you here?**

First, we are glad you have found us and you want to demonstrate us your skills.

We have created this challenge in order to see how you solve issues, but its clearly not a must have to finish everything.

If you have finished only one part in the given timeframe then feel also free to send us your work with maybe some notes about the context.

In any case we are happy to receive your result and we can look at it with the understanding of your used time for the coding and education level.

This means sending something is better than sending nothing!

**1. Your first task: Server side**

We want you to create a plugin for the software called [powerGateServer](https://www.coolorange.com/de-eu/connect.html#powerGate) which is developed by us, coolorange.

Here are some resources for a quick start:

* [What is the powerGateServer?](https://www.coolorange.com/wiki/doku.php?id=powergateserver)
* [How can you install and start the product?](https://www.coolorange.com/wiki/doku.php?id=powergateserver:installation)
* [Getting started with powerGateServer](https://www.coolorange.com/wiki/doku.php?id=powergateserver:getting_started)
* [How can you write your own plugin?](https://www.coolorange.com/wiki/doku.php?id=powergateserver:plugins:creating_a_custom_plugin)
* Download: <http://download.coolorange.com/>

After you have understood the powerGateServer, you can start with your own plugin.

The requested plugin should implement the following two functions for your new service:

1. **QUERY**: This method shall return all employees of coolOrange
   1. You can use [this SDK](SDK) to read all current employees of coolOrange.
2. **CREATE**: This method shall add the passed employee to the list of employees of coolOrange.

[Unit Tests](https://docs.microsoft.com/en-us/visualstudio/test/unit-test-basics?view=vs-2019) are very welcome!!

**2. Your next step: Client side**

We want you to consume your OData service (*your custom Plugin from step 1*).

coolOrange has a product called only “[powerGate](https://www.coolorange.com/de-eu/connect.html#powerGate)”, which is a collection of custom [PowerShell](https://docs.microsoft.com/en-us/powershell/scripting/overview?view=powershell-6) commandlets to communicate with a OData service.

Here are some resources which could help you:

* [Open Data Protocol](https://de.wikipedia.org/wiki/Open_Data_Protocol)
* [OData, getting started](https://www.odata.org/getting-started/understand-odata-in-6-steps/)
* [Starting with powerGate PowerShell commandlets](https://www.coolorange.com/wiki/doku.php?id=powergate:getting_started:using_the_powergate.cmdlets)
* Download: <http://download.coolorange.com/>

Now, we want you to create a powershell script with the assistance of powerGate:

* Output all current employees of coolOrange which are based in the office of Lana
* Add a new employee to coolOrange, use your data like Name…

**The Rules**

We have defined some rules which make sense for us to manage your code better:

* Use [Github](http://github.com) for your code base
  + *When you are finished send us the link to your public repository and we can check it out.*
* Time limit is 14 days for the mentioned tasks, start counting when you have received this document.
  + If it takes longer or you want to send it earlier, no problem.

**Any questions?**

We are for you, if you need any assistance at this task, we can give you support.

First, search on our wiki and forums for your problem/question:

* <https://www.coolorange.com/wiki/doku.php>
* <https://support.coolorange.com/support/solutions/>

Otherwise write an email to [support@coolorange.com](mailto:support@coolorange.com) with the subject “Candidate challenge: <your question>”