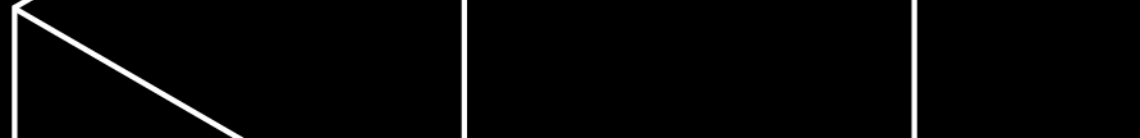




BACKEND

# Case for technical interview

AI & Cloud development SE



# THE TASK



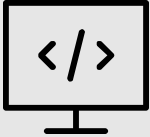
**Design a solution using the SMHI open API ([Meteorological Observations - API | SMHI Open Data Portal](#))**

- Get data for "Byvind" and "Lufttemperatur" from API and return as one dataset
- Restructure the data for easy consumption from a front-end application
- Publish restructured data in a REST API
- The rest API should be able to filter on:
  - date and/or station location
  - station Id and last hour
  - station Id and last day
  - defaulting to all stations latest hour when no parameters set

## Things we'd be happy to see

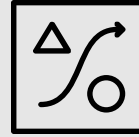
- A structured project with testable components
- At least 2 tests to showcase your testing style
- A Rest API that validates each request to an API key
- You can include discoverability if you want
- It is ok to run in develop on localhost. No deployment is necessary
- Code checked into a github repository or similar
- Source code in either
  - \* C# using visual studio with the ASP.NET Core Web API template
  - \* Java/kotlin using spring boot

# THE SCOPE



We understand that this might seem like a big scope and want to preface that this is a ***work in progress*** case, meaning that everything doesn't need to be production ready. But it can be a good idea to use a markdown file in the solution to document which parts of the solution you deem as short-cuts.

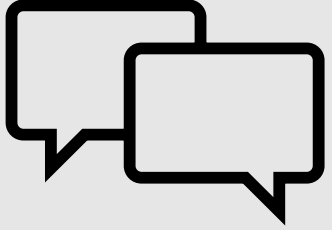
When solving this task there is no need to safely store any API key used.



We estimate that it takes around 6-12 hours to do, see this time allotment as what the customer is willing to pay for the project and make the necessary scope adjustments, however we are mostly curious about how you go about creating the solution along with your thoughts and reasonings during the process. Meaning we will not focus on assessing how much you've had time to do, but rather the ***quality of the code, solution*** and ***what parts you've would like to take into consideration for refactoring.***



You can create your solution in a GitHub repository or similar. We'd like to get access to your solution before the interview so we can prepare before we look at it together during the interview and expand the discussion. Therefore, we kindly ask you to ***share a link to your repository with us 2 working days beforehand.***



# THE INTERVIEW SETUP

During the interview, we will begin with you presenting your solution, so you get a chance to talk about design decisions and challenges that you've encountered. We will then use it as a basis for further discussion. The interviewing team will also ask questions that they got by examining your solution code repository.

After we have finished discussing the solution we will have some time allocated to answer questions you might have about working at Solita.

**Good luck & looking  
forward to seeeing  
you soon!**

