

SOFTWARE ENGINEER REMOTE TECHNICAL EXERCISE

**Thanks for agreeing to do our remote technical exercise
The brief, plus two data files should be included in your pack**

We hope you enjoy it. Good Luck

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01 TASK

Ensuring the Acceptance Criteria are met, **build a C# Web API that connects to an instance of a database** and persists the contents of the Meter Reading CSV file.

We have provided you with a list of test customers along with their respective Account IDs (please refer to Test_Accounts.csv). Please seed the Test_Accounts.csv data into your chosen data storage technology and validate the Meter Read data against the accounts.

From the day you receive this test, you have **48 hours** to submit your work for assessment. **Please send it to careers@ensek.co.uk**. It is advised to use a **publicly accessible Git** repository to commit and share your work with us. Any work committed after the deadline won't be considered towards the technical assessment.

Please submit your work after a reasonable amount of time. We will use the work you have submitted as a topic of conversation, so please don't feel you need to complete the task or spend an excessive amount of time on it.

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02 USER STORY

As an **Energy Company Account Manager**, I want to be able to load a CSV file of Customer Meter Readings So that we can monitor their energy consumption and charge them accordingly

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03 ACCEPTANCE CRITERIA

MUST HAVE

- Create the following endpoint:

 POST => /meter-reading-uploads
- The endpoint should be able to process a CSV of meter readings. An example CSV file has been provided (Meter_reading.csv)
- Each entry in the CSV should be validated and if valid, stored in a DB.
- After processing, the number of successful/failed readings should be returned.

- Validation:
 - You should not be able to load the same entry twice
 - A meter reading must be associated with an Account ID to be deemed valid
 - Reading values should be in the format NNNNN

NICE TO HAVE

- Create a client in the technology of your choosing to consume the API. You can use angular/react/whatever you like
- Other functionality such as CRUD for accounts/individual meter readings

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04 ATTACHED MATERIALS

- **Meter_reading.csv** (test file for uploading meter readings)
- **Test_accounts.csv** (use this to seed your db)

