

Technical Test

What is required?

We need a RESTful web service available to retrieve SMART meter read details from a database. This will allow us to start to display SmartReads to our customers on the App or Website.

Bad news is the smart meter read table hasn't been built yet so we are waiting on the database team to create this, we want to start testing this functionality as soon as possible and it is a blocker for the front end team.

As a Java developer we need you to build this service and use an in memory database (we don't have a database you can connect to) to return the customers reads.

The Technical Test

It is up to you how the implement the test, we are interested in how you would approach this challenge.

The test should be time bound to 3 hours, the aim of the test is to ensure you can build a REST service with best practice and standards.

Few things to follow are part of the test:

- Use the language of Java you have the most experience in or are most comfortable with
- Modern Java frameworks
- Should use Spring framework
- Create tests you feel are relevant to test this service
- Where necessary comment the code

We know the database design, the agreed fields are:

- ACCOUNT_NUMBER
- GAS_ID
- ELEC_ID
- ELEC_SMART_READ
- GAS_SMART_READ

Implementation

We would expect to hit this service using a HTTP GET Request:

<http://localhost:8080/api/smart/reads/{ACCOUNTNUMBER}>

We would expect the response to be JSON and contain the fields

- Gas read
- Electricity read

Please contact us with any explanations required, we are looking to see how you will fix the bugs and complete the code with thoughts into testing and development practices.