

Coding exercise

API

Background

We are a Telecom operator. In our database, we are starting to store phone numbers associated to customers (1 customer: N phone numbers) and we will provide interfaces to manage them. We need to provide the below capabilities:

- get all phone numbers
- get all phone numbers of a single customer
- activate a phone number

Challenge

- Provide interface specifications for the above functions/capabilities.
- Provide an implementation of the formulated specifications.

You can assume the phone numbers as a static data structure that is initialised when your program runs.

Language

- Java

Deliverables

Interface specifications, the source files and any test code – preferably in a GitHub / bitbucket public repo.

The solution will be evaluated based on the following criteria:

- Correctness
- Code structure
- Data structures
- Extensibility
- Maintainability
- Test coverage