



Coding Challenge

We have really enjoyed speaking with you so far AND we are excited to invite you to take part in our inhouse coding exercise to showcase your programming and problem solving skills.

At AND, we like to follow good coding standards and best practices so we are keen to see how you write your code AND that it matches the AND standards.

We recommend you spend no longer than 1 hour to 1hr 30mins to complete this challenge, however it is not timed. We are happy for you to take your time and really showcase your coding skills and ability!

Exercise:

In the exercise we pretend that we are working for a telecom provider.

The provider needs a new API with initially just three endpoints.

We would like you to spec out those endpoints and provide sample implementations for those API endpoints.

In our (imaginary) database, we are starting to store phone numbers associated to customers (1 customer : N phone numbers) and we will provide an API to modify them.

We need 3 APIs:

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

e.g.

```
API description:
retrieve a list of dogs
--
API endpoint:
GET example.org/api/dogs
--
API implementation:
function getDogs(params) {
  //implementation
}
```

How to pass the challenge:

Submit working code (in whichever language you prefer)

Optional/bonus point:

- It's tested with a good code coverage If you know TDD, a red-green-refactoring process would be appreciated.

Optional/bonus points: Full API Contract

- Everything should be done without using a database. Consider this test code as a Kata.
- Keep things simple, don't over-engineer your solution.
- Once done, either push your code to Github/Gitlab/Bitbucket or create a git bundle leaving all the commit history (`git bundle create anddigital-test.bundle master`)
- Send us the repository url or the bundle via email

Happy coding :)