# Technical interview template #B01.

## Introduction.

This document is intended only to test the technical skills of a candidate for Webfleet Solutions. When doing this access exercise, you understand and accept the following clauses:

* The information received during the exercise belongs exclusively to Webfleet Solutions. It can’t be shared, copied or redistributed at any moment.
* The information received can be kept only during the exercise execution. After this is finished, it should be deleted.
* The evaluation of the exercise it’s being performed by professionals that will evaluate the candidate based on indicators like the resolution adequacy to the exercise’s requirements, code quality, answers to the code review with the Webfleet Solutions evaluators, etc.
* During the exercise the people evaluating the candidate will be available for doubts and questions related to the exercises. They will not answer questions related to technology doubts, architectural decisions, etc. This is part of the expected candidate skills.
* Any feedback related to this process is always welcome. If you have any feedback, please share it with one of the evaluators of the exercise. Many thanks in advance.

## Backend tasks.

Complete the following backend tasks. Those are important for the next frontend exercise. Try to provide a complete solution as you would in a prod ready project. Create classes, interfaces as you see fit.

### Exercise 1.

The current format of a Pet entity consists in a series of nested objects based on the database relation. Ex:

{

"id": 1,

"name": "Lucky",

"breed": {

"id": 1,

"name": "Husky",

"specie": {

"id": 1,

"name": "Canis"

}

}

}

Implement a solution to make the outbound model *flat* and ready for frontend manipulation. Please, omit some identity fields. The result model should look like:

{

"id": 1,

"name": "Lucky",

"breed": "Husky",

"specie": "Canis"

}

### Exercise 2.

Implement a REST endpoint that allows the user to insert a new pet entity based on known characteristics. Use the already existent relations.