

NoFakes Backend Challenge

↗ Area Empty

≡ Estimated time 2 weeks

Welcome to the NoFakes Backend Challenge!

The main objective of this challenge is to know your approach to a relatively simple technological problem, in which you should feel comfortable applying good practices and architecture patterns that would allow future code iterations to be comfortable and scalable.

We hope you enjoy resolving this challenge as much as we did designing it. Good luck! :)

Challenge description

Stage 1: Basic features

Get a business information

Create a review for a business

Get reviews of a business

Stage 2: Persistence

Stage 3: Last time features

How to deliver the challenge

Challenge description

NoFakes is the first app that allows businesses, both online and offline, to validate and certify their reviews to avoid fraud. At the same time, it offers millions of users around the world a place to provide quality reviews in exchange for rewards.

To this end, the technology department has proposed the development of a **REST API** as part of an MVP that will allow a quick market validation, which will give us information on how to approach future product improvements.

Stage 1: Basic features

For this early stage, the technical lead has proposed to dispense with data persistence and do a fast, memory-based iteration, even with the risk of losing data if the API is restarted.

We need to implement different endpoints that allow our applications to execute the basic features identified by the product team.

Get a business information

We want to show the business information in the business detail view.

- A business should be identified by an unique id among our platform.
- The information given for an online business is different than for a physical business.
 - Information for online businesses:
 - Name. Maximum 75 characters.
 - Website.
 - Email.
 - Number of reviews.
 - Information for physical businesses:
 - Name. Maximum 50 characters.
 - Address.
 - Phone.
 - Email.
 - Number of reviews.

Create a review for a business

Probably the most core feature of NoFakes. To allow our users to review a certain business.

- Information for a review:
 - Text. Minimum 20 characters. Maximum 500 characters.
 - Rating. Between 1 and 5. Without decimals.
 - User name.

Get reviews of a business

We want to show the reviews of a business in the business detail view. That's all the information we have about this feature.

Stage 2: Persistence

Now that the basic features are ready, our CTO demanded us to implement persistence using a MongoDB database. There is no requirement of using a certain ORM or library to approach this stage.

We are also encouraged to keep the modules that allow us to use a memory-based persistence, just in case we need to use them later.

Stage 3: Last time features

The product team tells us that it would be ideal to include in the MVP the ability to show the average rating of a business in the business detail view.

- We want to show the average rating with only one decimals.
- We should return the average rating as part of the business information.

How to deliver the challenge

Please upload all the generated code and documentation to a public GitHub repository and send us the link so we can download it and evaluate your proposal.

If you have any questions, please feel free to contact with us:

- Francisco Aranda (fran.aranda@nc43tech.com)
- Alejandro López (alejandro.lopez@nc43tech.com)