

FERACODE **DEV.**

TEST BACK-END

Hey there!

We are glad that you applied for our available back-end position and we are expecting to have you in our team, but first we have a short assignment for you:

You are to code a simple CRUD for an imaginary company.

This company is called Look After™. They have been working in the diapers market for quite a while. Look After has many costumers and they want to go online, for that our Software Engineer came up with some requirements:

Front end

[since it's a back end test, the front end is just a basic screen. It won't be required to be good looking for this test, but if you want to show out your skills it will count some extra points]

The front end is a basic CRUD to keep the diapers inventory updated, the information stored about each diaper is:

- Its model
- Its description
- Its sizes
- How many of each size is available
- How many have been purchased

The **Front end** will have this basic CRUD to

- Create more diapers prompting the model, the size and how many of this size.
- A table to display how many of each diaper is available based on the sizes and how many have been bought.
- An option to update the current values for a diaper, those are the model name, the description, available sizes and the count on that.
- A delete function to remove the diaper from the store, this won't delete the data, instead it will "hide" it from the user telling him that it was deleted.
- Also, a button to "purchase" a diaper should be available. This button will just decrease the diaper count, no need for any information to the user other than "you bought X items".

Back end

Some math will be done in the back end and displayed in the website, this calculation will be the following:

When a diaper model is bought the back end will record the time it happened for that specific model and size, later on whenever the same model and size is bought again the back end will record the time again and calculate how long it will take to zero out that model. Ex: if there's 100 diapers model Y size Large and the user bought one of this at 00:01 and another one at 00:02 that model will be zeroed out in 98 minutes.

The technical specifications are:

- Back-end must be done using Node.JS
- Database must be a NoSQL [CouchBD preferred]
- Using NGINX will be a big extra
- Communication throughout parts must be done using JSON.

****You can style up the front as you wish, not a requirement, but worth extra points**

****You can use any libs that you want for styling.**

Every assumption that you make is right, just need to be writing them down in the readme file when you send your final version.

Your test must be submitted to matheus@feracode.com with a link to a git repository with your final answer.

Every code, even not complete, will be analyzed.

Feel free to contact me at

<https://join.skype.com/invite/FKnTtqpAOIMp>
or at matheus@feracode.com

FERACODE DEV.

TEST BACK-END