

# Home Challenge FrontEnd

## Sumário

1 – The delivery.....	2
1.2 – Source code.....	2
1.2 – Executável.....	2
1.3 – A interface da solução.....	2
2 – Questões.....	4
2.1 – Quanto tempo foi gasto no teste?.....	4
2.2 – O que você adicionaria na solução se você tivesse mais tempo?.....	4
2.3 – Como você melhoraria a API que você teve que consumir?.....	4
2.4 – O que você achou mais difícil?.....	4
2.5 – O que você achou da experiência geral do nosso desafio, algum feedback para nós?.....	4

# 1 – The delivery

## 1.2 – Source code

Repository of source code on github:

[https://github.com/dnoliveira/HomeChallenge\\_FrontEnd](https://github.com/dnoliveira/HomeChallenge_FrontEnd)

## 1.2 – Executável

Runnable file on github:

[https://github.com/dnoliveira/HomeChallenge\\_FrontEnd/blob/main/runnable.zip](https://github.com/dnoliveira/HomeChallenge_FrontEnd/blob/main/runnable.zip)

Instructions:

- 1) Have Java 11 installed.
- 2) Unzip the “runnable.zip” file.
- 3) Run the “start.bat” or “start.sh” file.
  - 3.1) If necessary, the file must be edited, correcting the information of the “front end” server port and API url.

## 1.3 – The solution interface



### List of Products

ID	Name	Price
Dwt5F7KAhi	Amazing Pizza!	£ 10,99 <a href="#">Detail</a>
PWWe3w1SDU	Amazing Burger!	£ 9,99 <a href="#">Detail</a>
C8GDyLrHJb	Amazing Salad!	£ 4,99 <a href="#">Detail</a>
4MB7UfpTQs	Boring Fries!	£ 1,99 <a href="#">Detail</a>

[Home](#) [Products](#) [Basket](#)

## Product Detail

**Id:** Dwt5F7KAhi  
**Name:** Amazing Pizza!  
**Price:** £ 10,99

**Promotions:**

ID	Type	Qty Required	Qty Free	Price	amount
Dwt5F7KAhi	QTY_BASED_PRICE_OVERRIDE	2		£ 17,99	

[Voltar](#)

[Home](#) [Products](#) [Basket](#)

## Basket

Product Id:  [Add](#)

**Products**

ID	Name	Price
Dwt5F7KAhi	Amazing Pizza!	£ 10,99
Dwt5F7KAhi	Amazing Pizza!	£ 10,99
<b>Total</b>		£ 21,98

[Clear Basket](#) [Checkout](#)

[Home](#) [Products](#) [Basket](#)

## Bascket Checkout

**Basket Contents**

2x	Amazing Pizza!
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**Expected Totals**

<b>Total:</b>	£ 21,98
<b>Total Promos:</b>	£ 3,99
<b>Total Payable:</b>	£ 17,99

[Voltar](#)

## **2 – Questions**

### **2.1 – How long did you spend on the test?**

Approximately 20 hours.

### **2.2 – What would you add if you had more time?**

- 1) In the basket
  - 1.1) Implement the deletion of a product;
  - 1.2) Ask for confirmation of basket cleaning;
  - 1.3) Display a “non-existent product” information when adding a non-existent product in the database;
- 2) Better comment the source code, mainly in the business rules;
- 3) Handle exceptions better when the API returns an error or when the API is unavailable;
- 4) The return of the API allows multiple promotions for the same product, in a second moment this requirement should be discussed and implemented;
- 5) Create more test scenarios using Junit and Mockito.

### **2.3 – How would you improve the product APIs that you had to consume?**

1. Change the price returns, thus considering values with decimals values. This required extra and unnecessary processing;
2. Take the checkout part to the API, this way it will only be written once and several devices with different technologies could use it;
3. Implement CRUD for products and promotions;
4. Implement access control.

### **2.4 – What did you find most difficult?**

The “checkout” spent more time on analysis, implementation and testing. In this item I was concerned with the growth of the system and the increase in types of promotions.

### **2.5 – How did you find the overall experience, any feedback for us?**

I really enjoyed this challenge, I realized that it is very open to different profiles (junior, or senior). I was free to explore the range of technologies I master. Opportunity also to criticize the requirements.