

Home Challenge FrontEnd

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1 – The delivery

1.2 – Source code

Repository of source code on github:

https://github.com/dnoliveira/HomeChallenge_FrontEnd

1.2 – Executável

Runnable file on github:

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 Detail
PWWe3w1SDU	Amazing Burger!	£ 9,99 Detail
C8GDyLrHJb	Amazing Salad!	£ 4,99 Detail
4MB7UfpTQs	Boring Fries!	£ 1,99 Detail

localhost:8082/products/Dwt5F7KAhi

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	

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localhost:8082/basket

Home Products Basket

Basket

Product Id: Add

Products

ID	Name	Price
Dwt5F7KAhi	Amazing Pizza!	£ 10,99
Dwt5F7KAhi	Amazing Pizza!	£ 10,99
Total		£ 21,98

Clear Basket Checkout

localhost:8082/checkout

Home Products Basket

Bascket Checkout

Basket Contents

2x	Amazing Pizza!
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Expected Totals

Total:	£ 21,98
Total Promos:	£ 3,99
Total Payable:	£ 17,99

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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.