Scala developer test

Source data

A GET HTTP call to the product API URL (see additional information below) produces a response with content type "application/json". The response contains a JSON object, whose property "data" contains a JSON array of product objects. As seen from the example, the product object contains the product name in four languages, the product price, where effective price = gross / divisor (i.e. in the first product in the example we have 51500/ 100 = 515 GBP), and some other product data in which we are not interested for this exercise.

Problem

Build a simple web application that responds to the url http://localhost:port/q=query-string returning a list of products whose descriptions in English match the query string. *port* is a value of your choice, and *query-string* is the query string that will be supplied by the user of your API. The content type of the response is "application/json" and the structure of the response JSON is given below.

Additional information

- The choice of web platform/server is entirely up to the candidate, but the main language must be Scala.
- A product matches the query when its name in English contains the exact query string as one word. I.e. "Stripe-trimmed open-knit cotton-blend sweater" matches Stripe, trimmed, sweater. It does not match "cotton-blend" or "blend sweat". For the purposes of this the delimiters are space bar and hyphen the characters contained in the string " -"

Resources

Product API URL

http://lad-api.net-a-porter.com/product/summaries?business=NAP&categorylds=2&country=GB

Sample response from your app

Sample response from "http://localhost:port/q=query-string" from your finished app

Note: The above contains only two products, based on the sample data given below - in reality the API will give you several thousand products (but no more that ten thousand)

Sample response from the product API URL

```
"name": {
 "en": "Stripe-trimmed open-knit cotton-blend sweater",
 "de": "Pullover aus einer Baumwollmischung in Lochstrick-Optik mit
 "fr": "Pull en coton mélangé à mailles ajourées bordé de rayures",
"price": {
 "tax": 8583,
 "gross": 51500,
 "currency": "GBP"
"onSale": false,
"brand": {
   "en": "Chloé"
"categories": [
    "id": 2,
    "children": [
        "children": [
            "id": 6130
            "id": 6383
            "id": 2821
"saleableStandardSizes": [
    "id": "00004 S Clothing",
```

```
"name": "S"
   "id": "00005_M_Clothing",
   "id": "00006 L Clothing",
   "id": "00007_XL_Clothing",
   "name": "XL"
"badges": [
 "exclusive"
"name": {
 "de": "The Perfect Hemd aus Baumwoll-Chambray",
 "zh": "The Perfect DDDDDD"
"price": {
 "divisor": 100,
 "duty": 0,
 "gross": 21000,
 "net": 17500,
 "currency": "GBP"
"brand": {
 "id": 504,
   "en": "Current/Elliott"
"id": 444634,
"categories": [
    "children": [
        "children": [
            "id": 6229
           "id": 6070
```

```
"colourIds": [
   "badges": [
"saleableStandardSizes": [
       "id": "00002_XXS_Clothing",
       "id": "00003 XS Clothing",
  ... <- More stuff here. We are only interested in the "data" property above.
```