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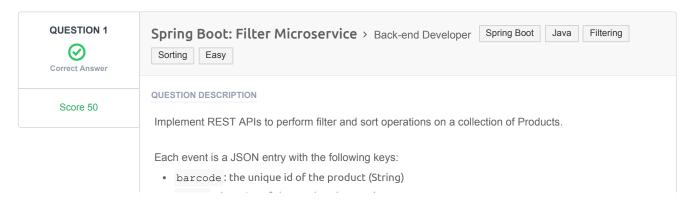
Full Name: Seva Nandu Email: mangali.sevanandu@wipro.com Test Name: Back-End Developer (Spring Boot) Test 2 7 Feb 2023 20:10:00 IST Taken On: Time Taken: 89 min 52 sec/ 90 min Work Experience: < 1 years https://www.linkedin.com/in/sevanandu-m-525018185 Linkedin: Invited by: Kavitha Invited on: 7 Feb 2023 20:08:29 IST Skills Score: REST API (Intermediate) 15/50 Spring Boot (Basic) 50/50 Tags Score: Back-End Development 15/50 Easy 65/100 Filtering 50/50 JSON 15/50 Java 50/50 Problem Solving 15/50 REST API 15/50 Sorting 50/50 Spring Boot 50/50

scored in Back-End Developer
(Spring Boot) Test 2 in 89 min 52
sec on 7 Feb 2023 20:10:00 IST

Recruiter/Team Comments:

No Comments.





- price: the price of the product (Integer)
- discount: the discount % available on the product(Integer)
- available: the availability status of the product (0 or 1)

Here is an example of a product JSON object:

```
[
    "barcode": "74001755",
    "item": "Ball Gown",
    "category": "Full Body Outfits",
    "price": 3548,
    "discount": 7,
    "available": 1
},

{
    "barcode": "74002423",
    "item": "Shawl",
    "category": "Accessories",
    "price": 758,
    "discount": 12,
    "available": 1
}
```

You are provided with the implementation of the models required for all the APIs. The task is to implement a set of REST services that exposes the endpoints and allows for filtering and sorting the collection of product records in the following ways:

GET request to /filter/price/{initial_range}/{final_range}:

- returns a collection of all products whose price is between the initial and the final range supplied
- The response code is 200, and the response body is an array of products in the price range provided.
- In case there are no such products return status code 400.

GET request to /sort/price:

- returns a collection of all products sorted by their pricing
- The response code is 200 and the response body is an array of the product names sorted in ascending order of price.

Complete the given project so that it passes all the test cases when running the provided unit tests.

▼ Example requests and responses

GET request to /filter/price/{initial_range}/{final_range}

The response code is 200, and when converted to JSON, the response body is as follows for filter/750/900:

GET request to /sort/price

The response code is 200 and the response body, when converted to JSON, is as follows:

}

INTERVIEWER GUIDELINES

controller/SampleController.java

```
package com.hackerrank.sample.controller;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.List;
import org.json.JSONArray;
import org.json.JSONException;
import org.json.JSONObject;
import org.springframework.http.HttpStatus;
import org.springframework.http.ResponseEntity;
import org.springframework.web.bind.annotation.CrossOrigin;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.RestController;
import org.springframework.web.client.RestTemplate;
import com.hackerrank.sample.dto.FilteredProducts;
import com.hackerrank.sample.dto.SortedProducts;
@RestController
public class SampleController {
           final String uri =
"https://jsonmock.hackerrank.com/api/inventory";
           RestTemplate restTemplate = new RestTemplate();
           String result = restTemplate.getForObject(uri, String.class);
           JSONObject root = new JSONObject(result);
           JSONArray data = root.getJSONArray("data");
                @CrossOrigin
@GetMapping("/filter/price/{initial_price}/{final_price}")
                private ResponseEntity< ArrayList<FilteredProducts> >
filtered books(@PathVariable("initial price") int init price ,
@PathVariable("final price") int final price)
                        try {
                                        ArrayList<FilteredProducts> books
= new ArrayList<FilteredProducts>();
                                List<JSONObject> list = new ArrayList<>
();
                                for (int i = 0; i < data.length(); i++) {
                                        if
(data.getJSONObject(i).getInt("price") >= init price &&
data.getJSONObject(i).getInt("price") <= final price) {</pre>
                                                 FilteredProducts
filteredProduct = new
FilteredProducts(data.getJSONObject(i).getString("barcode"));
books.add(filteredProduct);
                                if (books.isEmpty()) {
                                         throw now Evanntion () .
```

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```
return new
ResponseEntity<ArrayList<FilteredProducts>>(books, HttpStatus.OK);
                        }catch(Exception E)
                System.out.println("Error encountered :
"+E.getMessage());
           return new ResponseEntity<ArrayList<FilteredProducts>>
(HttpStatus.NOT FOUND);
                }
                @CrossOrigin
                @GetMapping("/sort/price")
                private ResponseEntity<SortedProducts[]> sorted books()
                        try {
                                 List<JSONObject> list = new ArrayList<>
();
                                 for (int i = 0; i < data.length(); i++) {
                                        list.add(data.getJSONObject(i));
                                 list.sort((s1, s2) -> {
                                         try {
                                                 return
Integer.compare(s1.getInt("price"), s2.getInt("price"));
                                         } catch (JSONException e) {
                                                e.printStackTrace();
                                         return 0;
                                 });
                                SortedProducts[] ans=new
SortedProducts[data.length()];
                                for (int i = 0; i < list.size(); i++){</pre>
                                       ans[i] = new
SortedProducts(list.get(i).getString("barcode"));
                            return new ResponseEntity<SortedProducts[]>
(ans, HttpStatus.OK);
                        }catch(Exception E)
                System.out.println("Error encountered :
"+E.getMessage());
           return new ResponseEntity<SortedProducts[]>
(HttpStatus.NOT_FOUND);
                }
```

CANDIDATE SUBMISSION

TESTCASE	TEST FILE	STATUS	SCORE
FilterPrice1	TEST- com.hackerrank.sample.SampleA pplicationTests.xml	Success	10.0 / 10.0
FilterPriceCheck2	TEST- com.hackerrank.sample.SampleA pplicationTests.xml	Success	10.0 / 10.0
FilterPriceCheck3	TEST- com.hackerrank.sample.SampleA pplicationTests.xml	Success	10.0 / 10.0
FilterPriceCheck4	TEST- com.hackerrank.sample.SampleA pplicationTests.xml	Success	10.0 / 10.0
SortCheck	TEST- com.hackerrank.sample.SampleA pplicationTests.xml	⊘ Success	10.0 / 10.0
View candidate code		Reviev	v logs: output log

No Comments





Score 15

REST API: Counting Movies > Coding REST API Back-End Development

Easy

JSON

QUESTION DESCRIPTION

Problem Solving

Write an HTTP GET method to retrieve information from a movie database concerning how many movies have a particular string in their title. Given a search term, query

https://jsonmock.hackerrank.com/api/moviesdata/search/?Title=[substr]. The query response will be a JSON object with the following five fields:

- page: The current page.
- per_page: The maximum number of results per page.
- total: The total number of movies having the substring substrin their title.
- total_pages: The total number of pages which must be queried to get all the results.
- data: An array of JSON objects containing movie information where the Title field denotes the title of the movie.

The function will return the integer value found in the total field in the returned JSON object.

Function Description

Complete the function getNumberOfMovies in the editor below.

getNumberOfMovies has the following parameter(s):

str substr: the string to search for in the movie database

Returns

int: the value of the total field in the returned JSON object

Constraints

• 0 < |substr| < 20

▼ Input Format for Custom Testing

Input from stdin will be processed as follows and passed to the function.

·

The only line contains the string *substr*.

▼ Sample Case 0

Sample Input 0

```
STDIN Function
----
maze 

substr = 'maze'
```

Sample Output 0

```
37
```

Explanation 0

The value of *substr* is *maze*, so our query is *https://jsonmock.hackerrank.com/api/moviesdata/search/? Title=maze* and the response is:

```
"page": 1,
"per_page": 10,
"total": 37,
"total_pages": 4,
"data": [
  {
    "Title": "The Maze Runner",
    "Year": 2014,
    "imdbID": "tt1790864"
  },
    "Title": "Maze Runner: The Scorch Trials",
    "Year": 2015,
    "imdbID": "tt4046784"
  },
    "Title": "Into the Grizzly Maze",
    "Year": 2015,
    "imdbID": "tt1694021"
  },
    "Title": "Hercules in the Maze of the Minotaur",
    "Year": 1994,
    "imdbID": "tt0110018"
    "Title": "The Crystal Maze",
    "Year": 1990,
    "imdbID": "tt0098774"
  },
    "Title": "The Maze",
    "Year": 2010,
    "imdbID": "tt1675758"
  },
    "Title": "Maze",
    "Year": 2000,
    "imdbID": "tt0246072"
  },
    "Title": "Iron Maze",
    "Year": 1991,
    "imdbID": "tt0102128"
  },
    "Title": "The Maze",
  "Year": 1953,
```

```
"imdbID": "tt0046057"
},
{
    "Title": "Maze Runner: The Burn Trials",
    "Year": 2015,
    "imdbID": "tt4844320"
}
]
}
```

Return the value of the total field, 37, as the answer.

CANDIDATE ANSWER

The candidate did not manually submit any code. The last compiled version has been auto-submitted and the score you see below is for the auto-submitted version.

Language used: Java 8

```
1 import java.io.*;
 2 import java.util.*;
 3 import java.text.*;
 4 import java.math.*;
 5 import java.util.regex.*;
6 import java.net.*;
7 import java.net.URL;
8 import com.google.gson.*;
9
11 public class Solution {
     /*
       * Complete the function below.
       static int getNumberOfMovies(String substr) {
            * Endpoint: "https://jsonmock.hackerrank.com/api/moviesdata/search/?
18 Title=substr"
            //String
21 url="https://jsonmock.hackerrank.com/api/moviesdata/search/?
          trv{
            URL url = new
25 URL("https://jsonmock.hackerrank.com/api/moviesdata/search/?Title=substr");
          HttpURLConnection request = (HttpURLConnection) url.openConnection();
          request.connect();
           JsonParser jp = new JsonParser(); //from gson
          JsonElement root = jp.parse(new InputStreamReader((InputStream)
32 request.getContent())); //convert the input stream to a json element
           //JsonElement jsonElement = root.getAsJsonObject().get("return");
           JsonArray items = root.getAsJsonArray();
35 JsonObject firstItem = items.getAsJsonObject();
36 String firstCalId = firstItem.getAsString();
          //JsonElement jsonElement = root.getAsJsonObject();
40 /*Set<Map.Entry<String,JsonElement>> entries =
41 jsonElement.getAsJsonObject().entrySet();
42 for (Map.Entry<String, JsonElement> entry:entries) {
      System.out.println(entry.getKey()); //get keys
```

```
System.out.println()
45 } */
46 System.out.println(firstCalId);
47 if(substr.equals("harry")){
      return 226;
49 }
          }catch(Exception e) {
               e.printStackTrace();
        int c=0;
        return 37;
64
     public static void main(String[] args) throws IOException{
       Scanner in = new Scanner(System.in);
         final String fileName = System.getenv("OUTPUT PATH");
         BufferedWriter bw = new BufferedWriter(new FileWriter(fileName));
         String _substr;
         try {
              _substr = in.nextLine();
          } catch (Exception e) {
              _substr = null;
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          res = getNumberOfMovies( substr);
          bw.write(String.valueOf(res));
          bw.newLine();
          bw.close();
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
TestCase 0	Easy	Sample case	Success	1	0.6828 sec	58.3 KB
TestCase 1	Easy	Sample case	Wrong Answer	0	0.6288 sec	57.1 KB
TestCase 2	Easy	Hidden case	Wrong Answer	0	0.7512 sec	59.5 KB
TestCase 3	Easy	Hidden case	Wrong Answer	0	0.6771 sec	57.1 KB
TestCase 4	Easy	Hidden case	Wrong Answer	0	0.6647 sec	57.2 KB

No Comments

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