Novibet Interview Assignment EXPRESSYOURSELF-READ.ME

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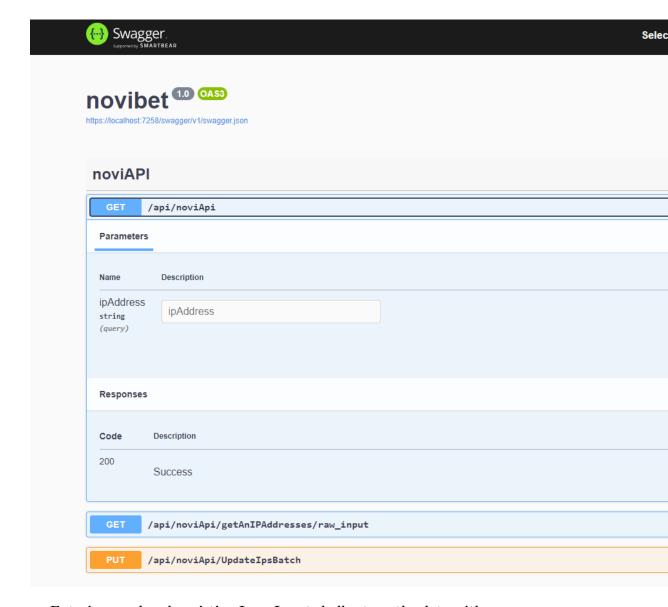
TASK 2: Retrieve Ips by Countries

1 REPORT
HERE ARE SHOWN CASES THAT COULD HAVE BEEN HAN-
DLED/DEVELOPED BETTER BUT DIDN'T, because I judged that
this project was in good shape to be delivered, always respecting both
yours and my time (i'm currently in middle of uni exams)-G.Bakas.
0-I implemented the database using SQLite 1- When changes are
made manually in the database and they are not written (saved) then
the response is an error indicating that the database is locked!
2- Second task asked that in a null input (just execute) the return
should be all the available countries with the number of IPs they have.
Currently (24.09.24-20:08) this featured is not available. I don't know
if it will be available when I deliver, but i really hope so.
3-Lack of proper documentation and error handling. The errors that
get returned could have been specific-er and analysed more.
4-I never filled the database with more than 20 IPs simultaneously
so I wouldn't know if the Update by batches works. I only updated
1 batch every time, since the number of total IPs was smaller than
101.

2 TASK 1: Retrieve country info

Here a detailed explanation of the SWagger input and output in the first is being shown.

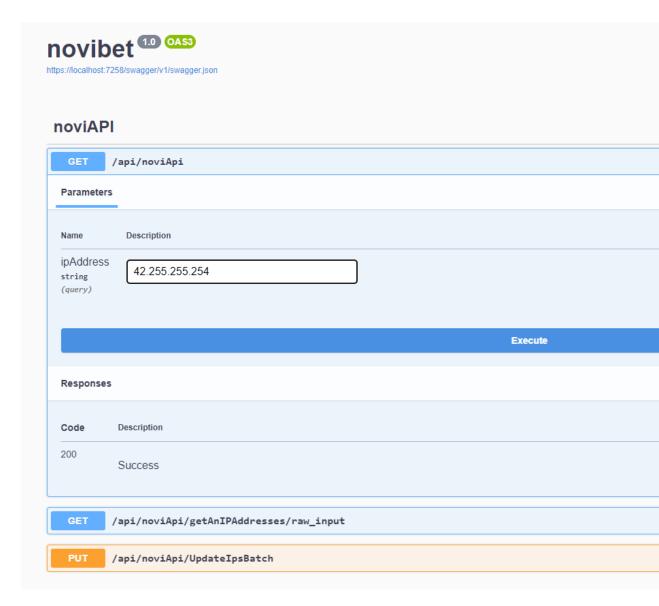
The input should be a string type Ip and the result the two, three lettercode and name of the country to which the ip belongs.



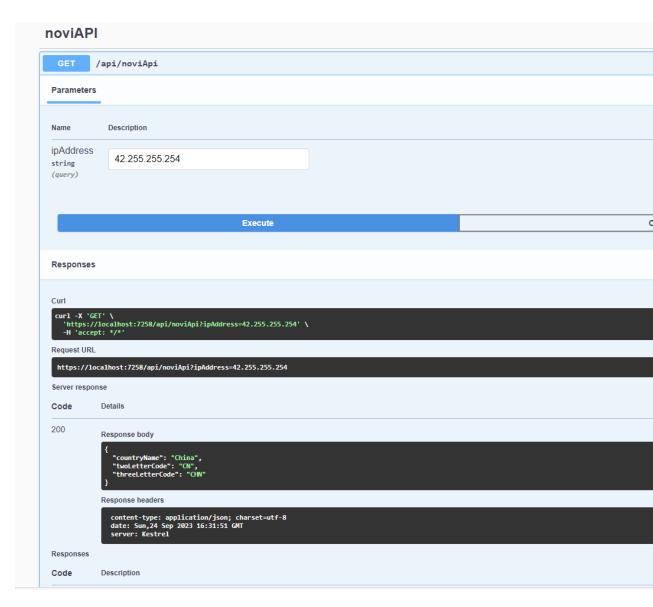
Entering an already existing Ip as Input shall return the data with-

out changing the database.

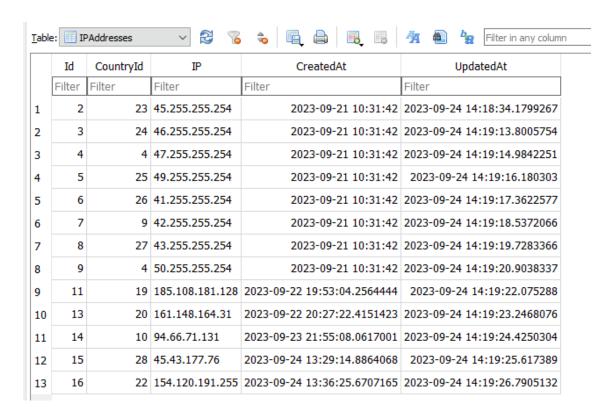
We enter the Ip:'42.255.255.254' shown in the IPAddresses table which belongs to Country:'CHINA'.

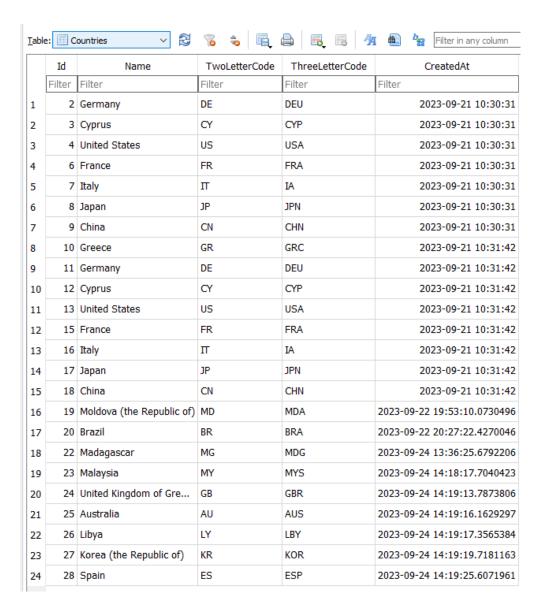


After EXECUTE:

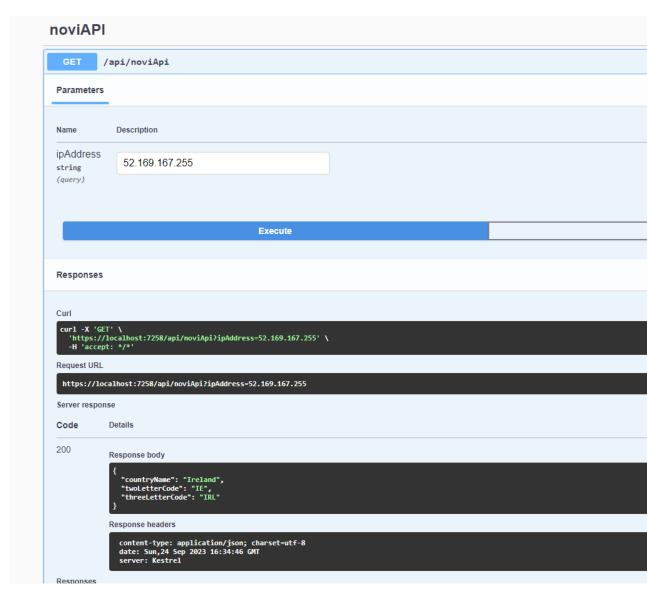


Now running the task with an Ip not stored in the database. Here a new Irish Ip:'52.169.167.255' is inserted. The two following pictures show the absence of the ip in the IPAddresses table and the absence of the country Ireland from the Countries table.



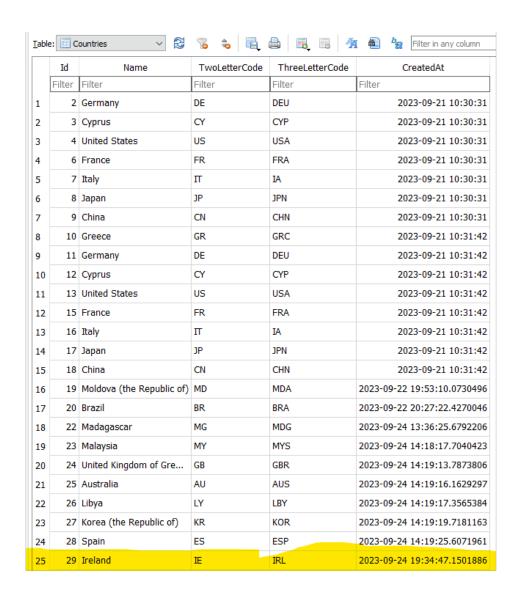


Hitting EXECUTE returns the following:



And the databases tables are updated accordingly:

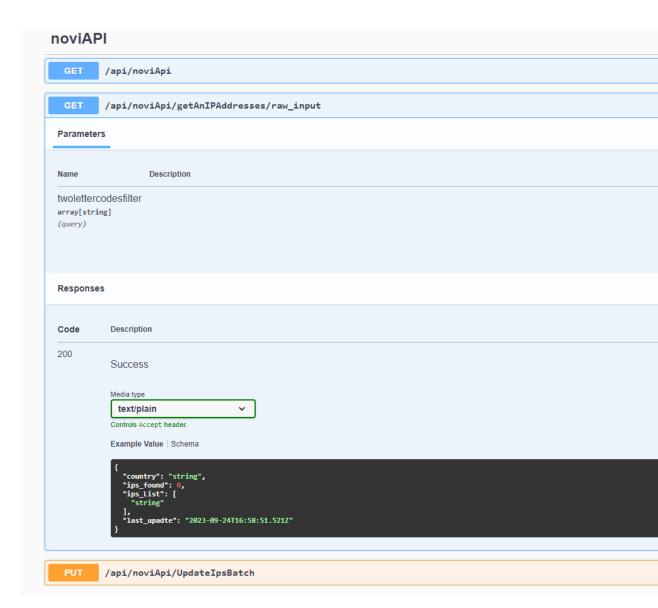
	Id	CountryId	IP	CreatedAt	UpdatedAt
	Filter	Filter	Filter	Filter	Filter
1	2	23	45.255.255.254	2023-09-21 10:31:42	2023-09-24 14:18:3
2	3	24	46.255.255.254	2023-09-21 10:31:42	2023-09-24 14:19:1
3	4	4	47.255.255.254	2023-09-21 10:31:42	2023-09-24 14:19:1
4	5	25	49.255.255.254	2023-09-21 10:31:42	2023-09-24 14:19:
5	6	26	41.255.255.254	2023-09-21 10:31:42	2023-09-24 14:19:1
6	7	9	42.255.255.254	2023-09-21 10:31:42	2023-09-24 14:19:1
7	8	27	43.255.255.254	2023-09-21 10:31:42	2023-09-24 14:19:1
8	9	4	50.255.255.254	2023-09-21 10:31:42	2023-09-24 14:19:2
9	11	19	185.108.181.128	2023-09-22 19:53:04.2564444	2023-09-24 14:19:
10	13	20	161.148.164.31	2023-09-22 20:27:22.4151423	2023-09-24 14:19:2
11	14	10	94.66.71.131	2023-09-23 21:55:08.0617001	2023-09-24 14:19:2
12	15	28	45.43.177.76	2023-09-24 13:29:14.8864068	2023-09-24 14:19:
13	16	22	154.120.191.255	2023-09-24 13:36:25.6707165	2023-09-24 14:19:2
14	17	29	52.169.167.255	2023-09-24 19:34:47.1434511	2023-09-24 19:34:4

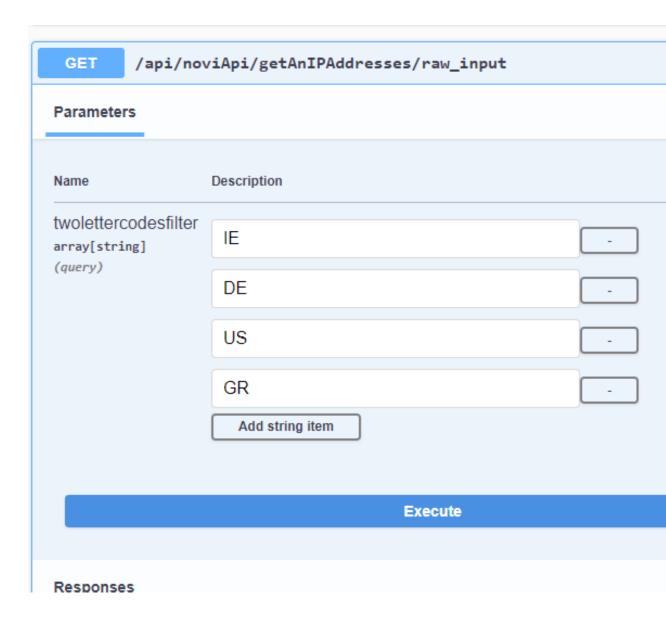


3 TASK 2: Retrieve Ips by Countries

Here a detailed explanation of the Swagger input and output in the second is being shown.

The input should be some string types two letter codes representing the countries and the result the num of Ips each country has, as well the last time any of the Ips that belong to the country got updated.





```
Responses
Curl
 curl -X 'GET' \
    'https://localhost:7258/api/noviApi/getAnIPAddresses/raw_input?twolettercodesfilter=IE&twolettercodesfilter=DE&twolet
   -H 'accept: text/plain'
Request URL
 https://localhost:7258/api/noviApi/getAnIPAddresses/raw_input?twolettercodesfilter=IE&twolettercodesfilter=DE&twolette
Server response
               Details
Code
200
               Response body
                     "country": "IE",
"ips_found": 1,
"last_upadte": "2023-09-24T19:34:47.1434609"
                     "country": "DE",
                     "ips_found": 0,
"last_upadte": "2000-01-01T12:00:00"
                     "country": "U5",
"ips_found": 2,
"last_upadte": "2023-09-24T14:19:20.9038337"
                     "country": "GR",
                     "ips_found": 1,
"last_upadte": "2023-09-24T14:19:24.4250304"
               Response headers
                  content-type: application/json; charset=utf-8
date: Sun,24 Sep 2023 16:59:43 GMT
                  server: Kestrel
```

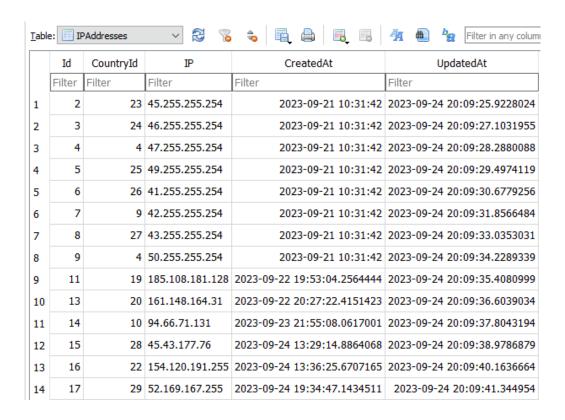
User can input as many Countries he wishes. As long they exist the response will be shown. In case of problematic Input (such as more than two letter code, or code that doen't exist the response is the string that got parsed with a 0 Ips found.

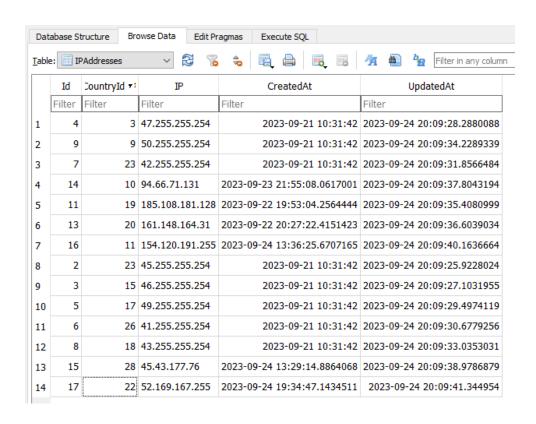
Name	Description	
twoletters array[str: (query)	rcodesfilter LA - Add string item	
	Execute	
Response	ses	
Curl		
curl -X	s://localhost:7258/api/noviApi/getAnIPAddresses/raw_input?twolettercodesfilter=LA' \	
curl -X 'https: -H 'acc	s://localhost:7258/api/noviApi/getAnIPAddresses/raw_input?twolettercodesfilter=LA' \ ccept: text/plain'	
curl -X 'https: -H 'acc	s://localhost:7258/api/noviApi/getAnIPAddresses/raw_input?twolettercodesfilter=LA' \ ccept: text/plain' URL	
curl -X 'https: -H 'acc Request Ul	s://localhost:7258/api/noviApi/getAnIPAddresses/raw_input?twolettercodesfilter=LA' \ ccept: text/plain' URL //localhost:7258/api/noviApi/getAnIPAddresses/raw_input?twolettercodesfilter=LA	
curl -X 'https: -H 'acc	s://localhost:7258/api/noviApi/getAnIPAddresses/raw_input?twolettercodesfilter=LA' \ ccept: text/plain' URL //localhost:7258/api/noviApi/getAnIPAddresses/raw_input?twolettercodesfilter=LA	
curl -X 'https: -H 'acc Request Ul	s://localhost:7258/api/noviApi/getAnIPAddresses/raw_input?twolettercodesfilter=LA' \ ccept: text/plain' URL //localhost:7258/api/noviApi/getAnIPAddresses/raw_input?twolettercodesfilter=LA	
cur1 -X https: -H 'acc Request Ui https://	s://localhost:7258/api/noviApi/getAnIPAddresses/raw_input?twolettercodesfilter=LA' \ ccept: text/plain' URL '/localhost:7258/api/noviApi/getAnIPAddresses/raw_input?twolettercodesfilter=LA sponse	
cur1 -X 'https: -H 'acc' Request UI https:// Server resi	s://localhost:7258/api/noviApi/getAnIPAddresses/raw_input?twolettercodesfilter=LA' \ Ccept: text/plain' URL //localhost:7258/api/noviApi/getAnIPAddresses/raw_input?twolettercodesfilter=LA sponse Details	
cur1 -X 'https: -H 'acc' Request UI https:// Server resi	<pre>s://localhost:7258/api/noviApi/getAnIPAddresses/raw_input?twolettercodesfilter=LA' \ ccept: text/plain' JRL //localhost:7258/api/noviApi/getAnIPAddresses/raw_input?twolettercodesfilter=LA sponse Details Response body [</pre>	

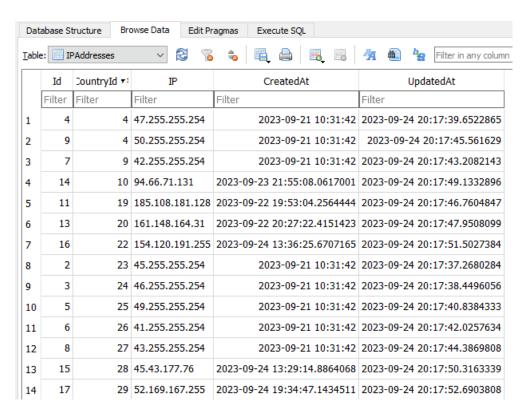
4 TASK 3: Update database

Task 3 need no input, just pressing execute leads to the database update, return either '200, Batch update completed' if succeeded or '500, "An error occurred during the batch update.' if failed for any reason.

Here I messed up the data on purpose so the Task will fix it:







Although it'd difficult to observe the changes, the UpdateAt attribute of each IP should do the job. For example: Originally there are only 2 IPs with CountryId=4 with UpdatedAt values:20:09. After I messed them up there was none. After the Update Task worked, there are again 2, with UpdatedAt fields: 20:17 which is now by the way.