Documentation

Architecture
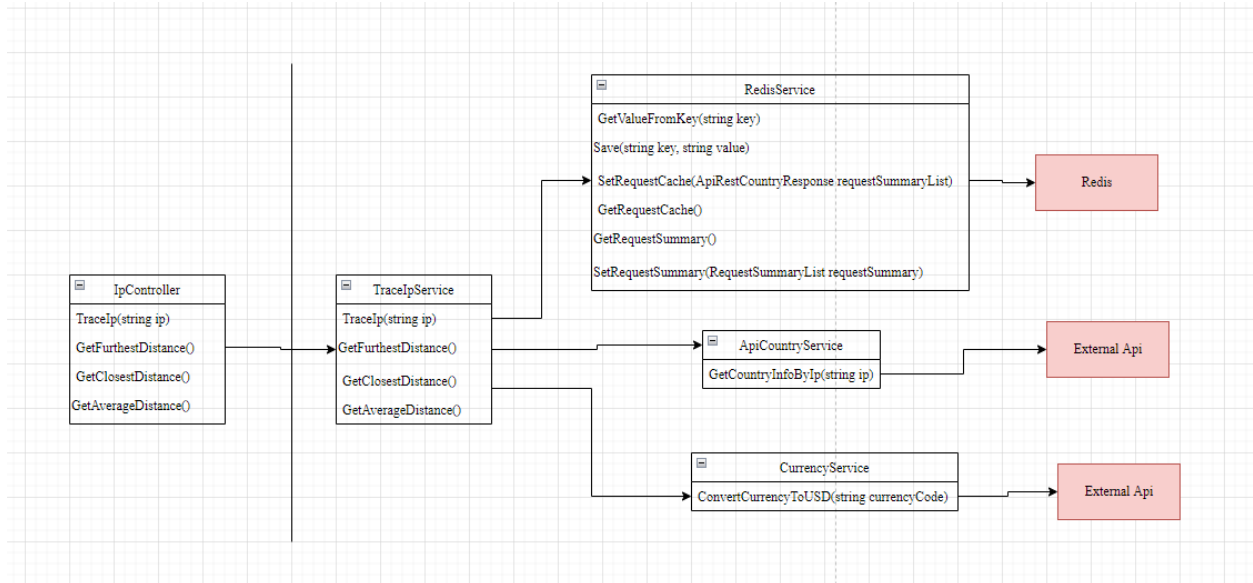
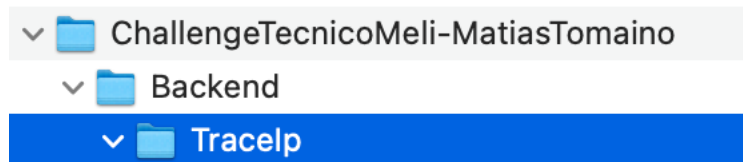

Turn-on the server

Requeriments:
Docker.

Steps:
1. Download the repository (https://github.com/MatiiTomaino/ChallengeTecnicoMeli-MatiasTomaino)
2. Move to ChallengeTecnicoMeli-MatiasTomaino/Backend/TraceIp

3. Open a terminal in this path
4. **Execute sudo ./trace_ip_linux.sh,** here, the docker container is created and the server and redis instance will be running when the process finished.
   a. **Note: if command doesn't work, run chmod +x trace_ip_linux.sh.**
5. Check that server and redis instance are running.

Test API

APIs Available

- TraceIp
  - Required param: Ip
- GetFurthestDistance
- GetClosestDistance
- GetAverageDistance

1. Postman:

TraceIp : http://localhost:5000/Ip/traceip?ip=83.44.196.93

GetFurthestDistance: http://localhost:5000/Ip/GetFurthestDistance

GET TraceIp   GET GetFurthestDistan... ●   + ⠇   No Environment ▾

TraceIp / GetFurthestDistance   💾 Save ▾ ⠇   ✎ 🗨

GET ▾ http://localhost:5000/Ip/GetFurthestDistance   Send ▾

Params   Authorization   Headers (7)   Body   Pre-request Script   Tests   Settings   Cookies

Query Params

KEY	VALUE	DESCRIPTION	⠇ Bulk Edit
Key	Value	Description	

Body   Cookies   Headers (4)   Test Results   🌐 Status: 200 OK Time: 63 ms Size: 188 B   Save Response ▾

Pretty   Raw   Preview   Visualize   JSON ▾ ⇥   📋 🔍

```
1  {
2      "countryName": "Spain",
3      "value": 10807.47
4  }
```

GetClosestDistance: http://localhost:5000/Ip/GetClosestDistance

GET TraceIp   GET GetFurthestDistan...   GET GetClosestDistance ✕   + ⠇   No Environment ▾

TraceIp / GetClosestDistance   💾 Save ▾ ⠇   ✎ 🗨

GET ▾ http://localhost:5000/Ip/GetClosestDistance   Send ▾

Params   Authorization   Headers (7)   Body   Pre-request Script   Tests   Settings   Cookies

Query Params

KEY	VALUE	DESCRIPTION	⠇ Bulk Edit
Key	Value	Description	

Body   Cookies   Headers (4)   Test Results   🌐 Status: 200 OK Time: 17 ms Size: 188 B   Save Response ▾

Pretty   Raw   Preview   Visualize   JSON ▾ ⇥   📋 🔍

```
1  {
2      "countryName": "Spain",
3      "value": 10807.47
4  }
```

GetAverageDistance: http://localhost:5000/Ip/GetAverageDistance

GET TraceIp   GET GetFurthestDistan...   GET GetClosestDistance   GET GetAverageDistan... ✕   + ⠇   No Environment ▾

TraceIp / GetAverageDistance   💾 Save ▾ ⠇   ✎ 🗨

GET ▾ http://localhost:5000/Ip/GetAverageDistance   Send ▾

Params   Authorization   Headers (7)   Body   Pre-request Script   Tests   Settings   Cookies
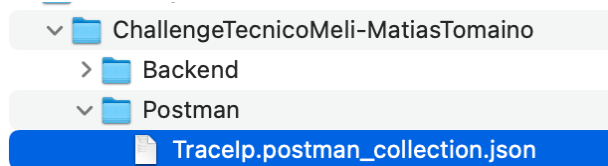
Query Params

KEY	VALUE	DESCRIPTION	⠇ Bulk Edit
Key	Value	Description	

Body   Cookies   Headers (4)   Test Results   🌐 Status: 200 OK Time: 26 ms Size: 150 B   Save Response ▾

Pretty   Raw   Preview   Visualize   Text ▾ ⇥   📋 🔍

```
1  10807.47
```

There is available a collection example in repository to import in another computer:

2. Curl

In a terminal execute:

curl --location --request GET 'http://localhost:5000/Ip/traceip?ip=128.201.132.0'

curl --location --request GET 'http://localhost:5000/Ip/GetFurthestDistance'

curl --location --request GET 'http://localhost:5000/Ip/GetClosestDistance'

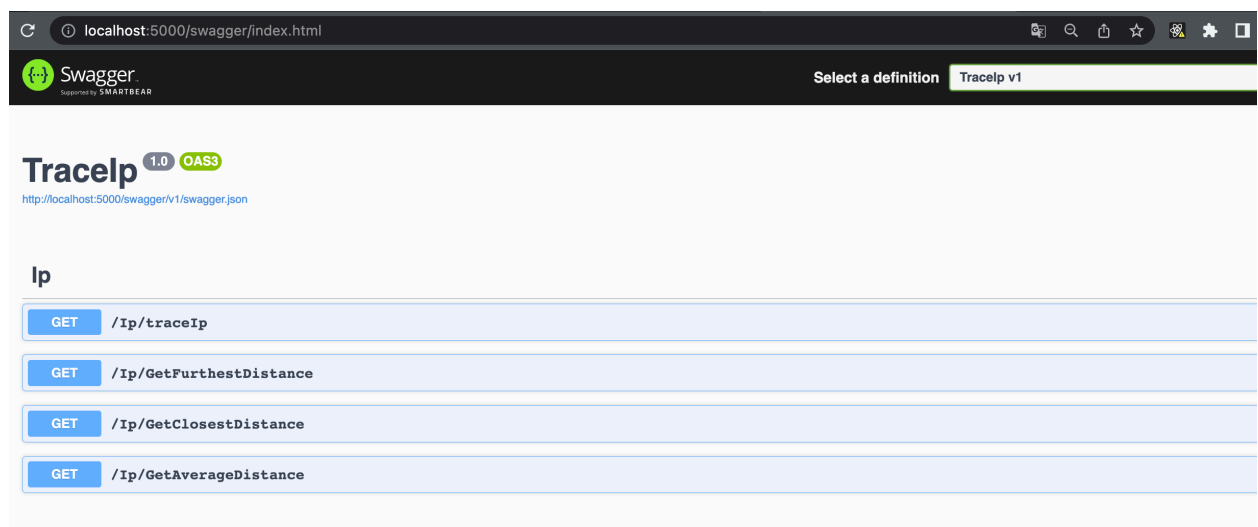curl --location --request GET 'http://localhost:5000/Ip/GetAverageDistance'

MacBook-Pro-de-Matias-3:ChallengeTecnicoMeli-MatiasTomaino matii$ curl --location --request GET 'http://localhost:5000/Ip/traceip?ip=83.44.196.93'
{"name":"Spain","isoCode":"ES","languages":[{"code":"es","name":"Spanish","native":"Español"},{"code":"eu","name":"Basque","native":"Euskara"},{"code":"ca","name":"Catalan","native":"Català"},{"code":"gl","name":"Galician","native":"Galego"},{"code":"oc","name":"Occitan","native":"Occitan"}],"actualTime":["05:13 (UTC)","06:13 (UTC+01:00)"],"estimatedDistance":10807.47,"currency":{"code":"EUR","name":"Euro","symbol":"€"},"quotation":null,"currencyAndQuotation":"EUR (1 EUR = 1.05 USD)","dateTimeRequest":"2022-06-13T05:13:47.9793577+00:00","ip":"83.44.196.93"}MacBook-Pro-de-Matias-3:ChallengeTecnicoMeli-MatiasTomaino matii$
MacBook-Pro-de-Matias-3:ChallengeTecnicoMeli-MatiasTomaino matii$
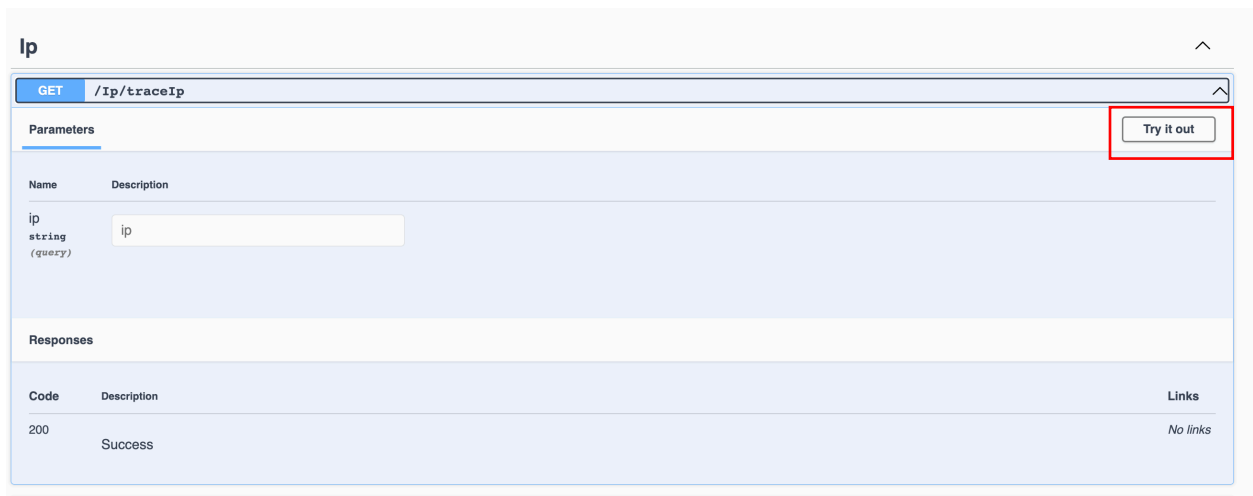
3. Swagger

Swagger was enabled only for the challenge. Generally Swagger is available only for development environment, but I made an exception so that it can be tested more easily

Access : http://localhost:5000/swagger/index.html

Test:

1. Enter to http://localhost:5000/swagger/index.html

2. Choice any Endpoint and click try it out
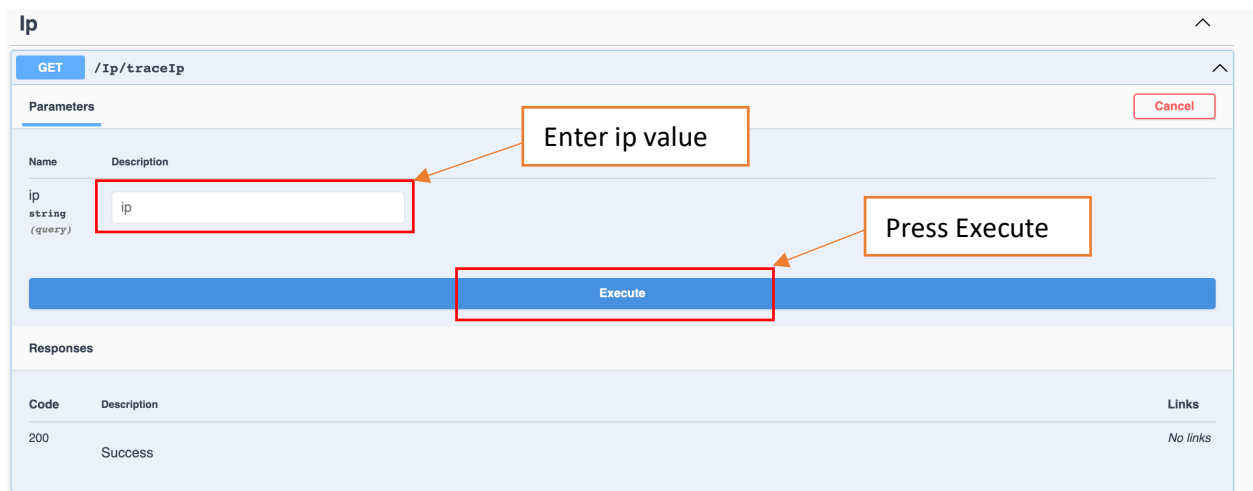
3. If is necessary, enter the params and press Execute
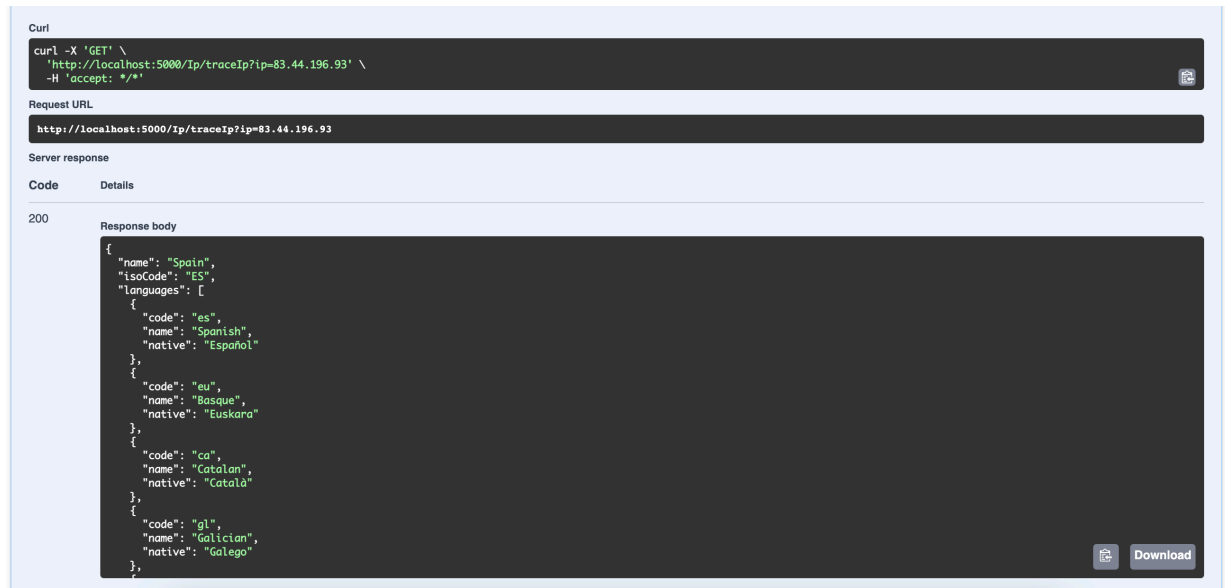
4. View Result

```
Curl
curl -X 'GET' \
  'http://localhost:5000/Ip/traceIp?ip=83.44.196.93' \
  -H 'accept: */*'
```

Request URL

```
http://localhost:5000/Ip/traceIp?ip=83.44.196.93
```

Server response

Code	Details
200	**Response body**

```
{
  "name": "Spain",
  "isoCode": "ES",
  "languages": [
    {
      "code": "es",
      "name": "Spanish",
      "native": "Español"
    },
    {
      "code": "eu",
      "name": "Basque",
      "native": "Euskara"
    },
    {
      "code": "ca",
      "name": "Catalan",
      "native": "Català"
    },
    {
      "code": "gl",
      "name": "Galician",
      "native": "Galego"
    },
```

4. HTML

The last mode to test the apis is with a HTML file, it's in [Repository]/Frontend/index.html

Open the file:

Challenge Técnico - Tomaino Matias

Trace Ip

Ip	

Get

Name
Iso Code
Languages
Currency
Hours
Distance to Buenos Aires

Application stats

Update stats

Average distance
Cosest distance
Furthest distance

Press buttons:

Challenge Técnico - Tomaino Matias

Trace Ip

Ip	128.201.132.0

Get

Name	Argentina
Iso Code	AR
Languages	Spanish, Guarani,
Currency	ARS (1 ARS = 0.01 USD)
Hours	13:58 (UTC-03:00)
Distance to Buenos Aires	362.11 KM

Application stats

Update stats

Average distance	2011.38 KM
Cosest distance	362.11 KM (Argentina)
Furthest distance	10807.47 KM (Spain)