

Overview

. In the following READ ME, you will find a guide on how to use the RESTFULL web application that I have developed in Golang that makes it possible for the client to retrieve information about universities using the following websites:

- 1.<http://universities.hipolabs.com/> - used to get the information about the given university
- 2.<https://restcountries.com/> - used to get the information about the country and the borders of the country, we use this to get the information regarding the neighbour universities

How to use it?

First you can run the program by typing `go run main.go` in the terminal

Now in order to use this program, you need to type the following in either a browser or postman.

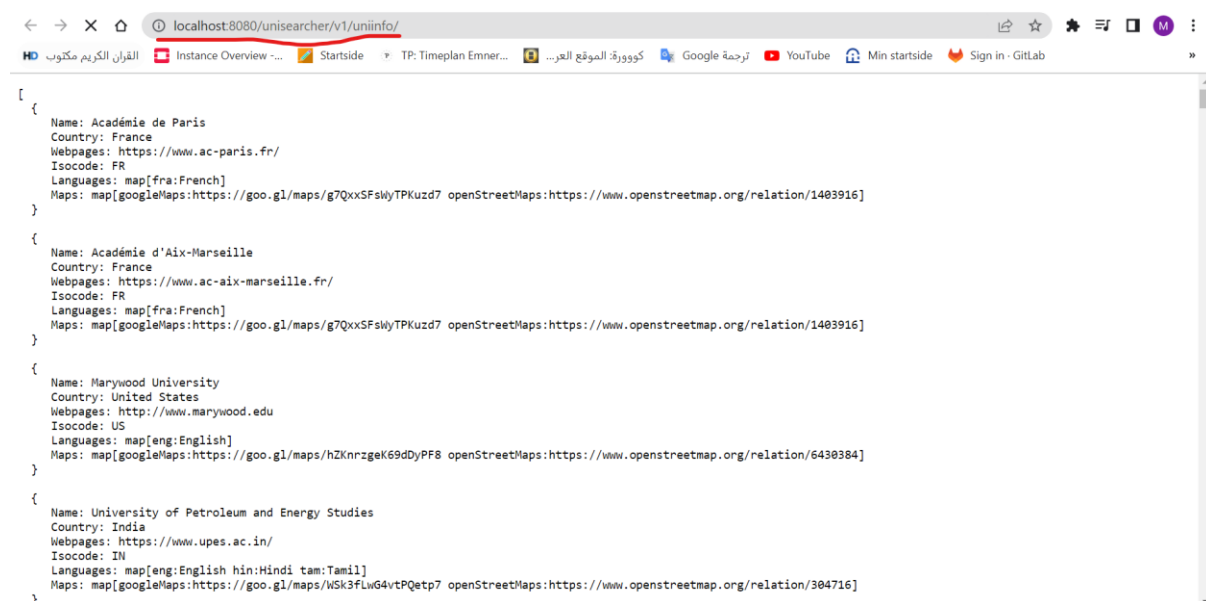
<http://localhost:8080/unisearcher/v1/uniinfo/>

<http://localhost:8080/unisearcher/v1/neighbourunis/>

<http://localhost:8080/unisearcher/v1/diag/>

Be aware that it might takes some time, because using the root link will give you all of the information, in order to fix that, we have to specify what we are looking for. We can start with a guide on how to use uniinfo path.

By typing <http://localhost:8080/unisearcher/v1/uniinfo/>, we will get the following result:



```
[
  {
    Name: Académie de Paris
    Country: France
    Webpages: https://www.ac-paris.fr/
    Isocode: FR
    Languages: map[fra:French]
    Maps: map[googleMaps:https://goo.gl/maps/g7QxxSFsWYTPKuzd7 openStreetMaps:https://www.openstreetmap.org/relation/1403916]
  }
  {
    Name: Académie d'Aix-Marseille
    Country: France
    Webpages: https://www.ac-aix-marseille.fr/
    Isocode: FR
    Languages: map[fra:French]
    Maps: map[googleMaps:https://goo.gl/maps/g7QxxSFsWYTPKuzd7 openStreetMaps:https://www.openstreetmap.org/relation/1403916]
  }
  {
    Name: Marywood University
    Country: United States
    Webpages: http://www.marywood.edu
    Isocode: US
    Languages: map[eng:English]
    Maps: map[googleMaps:https://goo.gl/maps/hZKnzgeK69dDyPF8 openStreetMaps:https://www.openstreetmap.org/relation/6430384]
  }
  {
    Name: University of Petroleum and Energy Studies
    Country: India
    Webpages: https://www.upes.ac.in/
    Isocode: IN
    Languages: map[eng:English hin:Hindi tam:Tamil]
    Maps: map[googleMaps:https://goo.gl/maps/W5k3fLwG4vtPQetp7 openStreetMaps:https://www.openstreetmap.org/relation/304716]
  }
]
```

Now we have to simply write the university name like for example:

```
localhost:8080/unisearcher/v1/uniinfo/middle&country=Turkey

[
  {
    Name: Middle East Technical University
    Country: Turkey
    Webpages: http://www.metu.edu.tr/
    Isocode: TR
    Languages: map[tur:Turkish]
    Maps: map[googleMaps:https://goo.gl/maps/dXFFraiUDfcB6Quk6 openStreetMaps:https://www.openstreetmap.org/relation/174737]
  }
]
```

Be Aware that you have to type + instead of %20 for space. We can also type the country.

```
localhost:8080/unisearcher/v1/uniinfo/middle&country=Turkey

[
  {
    Name: Middle East Technical University
    Country: Turkey
    Webpages: http://www.metu.edu.tr/
    Isocode: TR
    Languages: map[tur:Turkish]
    Maps: map[googleMaps:https://goo.gl/maps/dXFFraiUDfcB6Quk6 openStreetMaps:https://www.openstreetmap.org/relation/174737]
  }
]
```

Now for the second endpoint which is neighbour countries, by typing the following <http://localhost:8080/unisearcher/v1/neighbourunis/> we should get the following result

```
localhost:8080/unisearcher/v1/neighbourunis/

Country: Gambia
Borders:
{
  1. SEN
}
Country: Åland Islands
Borders:
{
}
Country: Cape Verde
Borders:
{
}
Country: Turkmenistan
Borders:
{
  1. AFG
  2. IRN
  3. KAZ
  4. UZB
}
Country: Qatar
Borders:
{
  1. SAU
}
Country: El Salvador
Borders:
{
  1. GTH
  2. HND
}
Country: Georgia
Borders:
{
  1. ARM
}
```

The result only contains the country name with its borders. And by writing the name of a country, we will get the following result.

```
← → ↻ 🏠 ⓘ localhost:8080/unisearcher/v1/neighbourunis/norway
HD القرآن الكريم مكتوب Instance Overview -... Startside TP: Timeplan Emner... كووورة: الموقع العرب...

Country: Norway
Boorders:
{
  1. FIN
  2. SWE
  3. RUS
}
OK
```

We can get more information by typing the name of the university.

```
← → ↻ 🏠 ⓘ localhost:8080/unisearcher/v1/neighbourunis/norway/science
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}
{
  Name: Laurea University of Applied Sciences
  Country: Finland
  Webpages: http://www.laurea.fi/
  Isocode: FI
  Languages: map[fin:Finnish swe:Swedish]
  Maps: map[googleMaps:https://goo.gl/maps/HjgWDCNKRAYHrkMn8 openStreetMaps:openstreetmap.org/relation/54224]
}
{
  Name: Vaasa University of Applied Sciences
  Country: Finland
  Webpages: http://www.puv.fi/
  Isocode: FI
  Languages: map[fin:Finnish swe:Swedish]
  Maps: map[googleMaps:https://goo.gl/maps/HjgWDCNKRAYHrkMn8 openStreetMaps:openstreetmap.org/relation/54224]
}
{
  Name: Rovaniemi University of Applied Sciences
  Country: Finland
  Webpages: http://www.ramk.fi/
  Isocode: FI
  Languages: map[fin:Finnish swe:Swedish]
  Maps: map[googleMaps:https://goo.gl/maps/HjgWDCNKRAYHrkMn8 openStreetMaps:openstreetmap.org/relation/54224]
}
{
  Name: Swedish University of Agricultural Sciences
  Country: Sweden
  Webpages: http://www.slu.se/
  Isocode: SE
  Languages: map[swe:Swedish]
  Maps: map[googleMaps:https://goo.gl/maps/iqygE491ADVgnBW39 openStreetMaps:https://www.openstreetmap.org/relation/52822]
```

Here we see that we have more information like, the name of the university, country name, the alpha two code of the country, the languages used in that country, and finally it is location

Now for our final endpoint, the diagnostic which we get access to by simply typing <http://localhost:8080/unisearcher/v1/diag/>, and we should get the following result:

```
← → ↻ 🏠 ⓘ localhost:8080/unisearcher/v1/Diag/
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universitiesapi: 200 OK
countriesapi: 200 OK
version: v1
Uptime: 12m9.0206717s
```

The first two lines are the status code for these websites:

<http://universities.hipolabs.com/>

<https://restcountries.com/>

While the third line is hardcoded, and it is the second part of the link

The last line is the uptime.