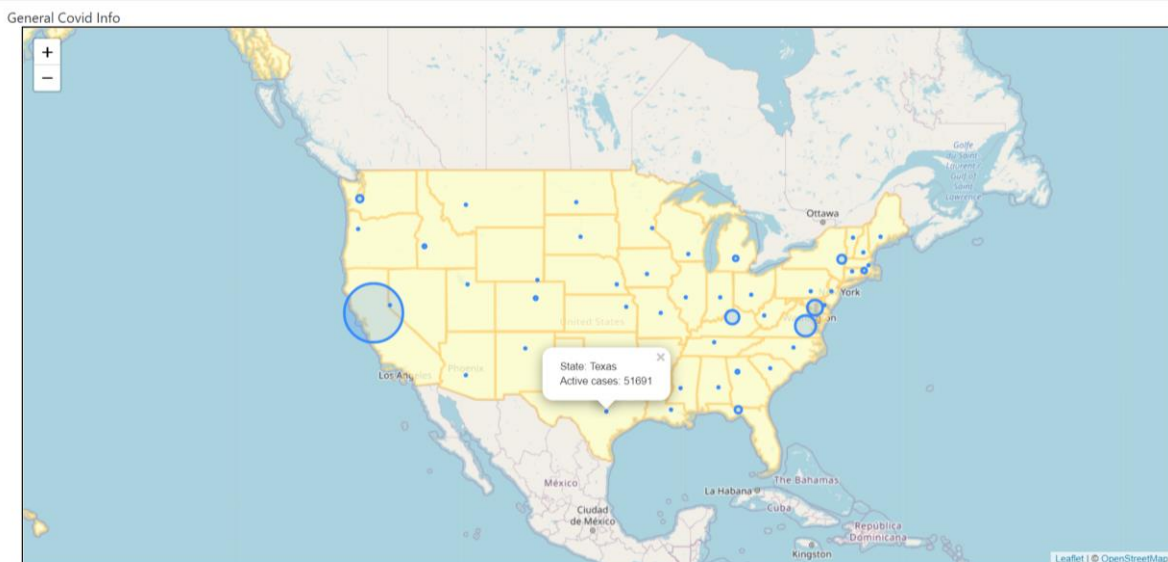


COVID-19 USA MAP REAL TIME API

Technologies used:

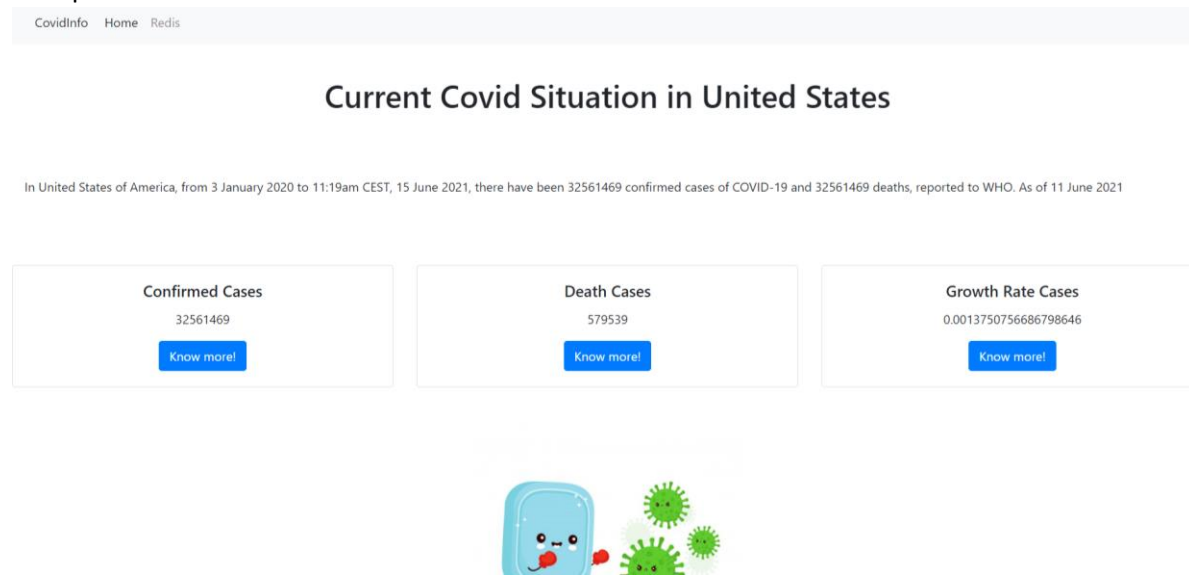
- Framework: Angular
- Web front: HTML5, CSS
- DB: PostgreSQL, Redis
- API manipulation: GraphQL
- Web server: Apache
- Map: Leaflet, GeoJs
- Container: Docker
- OS server: Linux CentOS
- API source: <https://corona.lmao.ninja/v2/>

This project is a real time API that shows the total number of COVID-19 cases across the USA, cases are represented as a circle above the capitals of the states and their size depends on the total number of cases. When you click on a capital a message pops-up with the number active cases and the name of the state. The data is retrieved from a public API and are updated every day.



The map is displayed on an HTML, it is imported using Leaflet and the shape of the states and location of the capitals is imported from a GeoJs.

The total number of confirmed cases, deaths and growth rates are displayed using GraphQL api manipulator.



The database uses Redis, which stores the consulted data in cache, this way if the page is reloaded it doesn't need to consult the API anymore, since it already has it saved, which makes it considerably faster.

```
{ "state": "Wuhan  
Repatriated", "updated": 1624303848757, "cases": 3, "todayCases": 0, "deaths": 0, "todayDeaths": 0, "recovered": 3, "active": 0, "casesPerOneMillion": 0, "deathsPerOneMillion": 0, "tests": 3, "testsPerOneMillion": 0, "population": 0 }, { "state": "Diamond Princess  
Ship", "updated": 1624303848757, "cases": 46, "todayCases": 0, "deaths": 0, "todayDeaths": 0, "recovered": 46, "active": 0, "casesPerOneMillion": 0, "deathsPerOneMillion": 0, "tests": 46, "testsPerOneMillion": 0, "population": 0 } ], "message": "data retrieved from the cache" }
```

The whole project is set on an Angular Framework and deployed on a Docker in a Linux CentOS server.