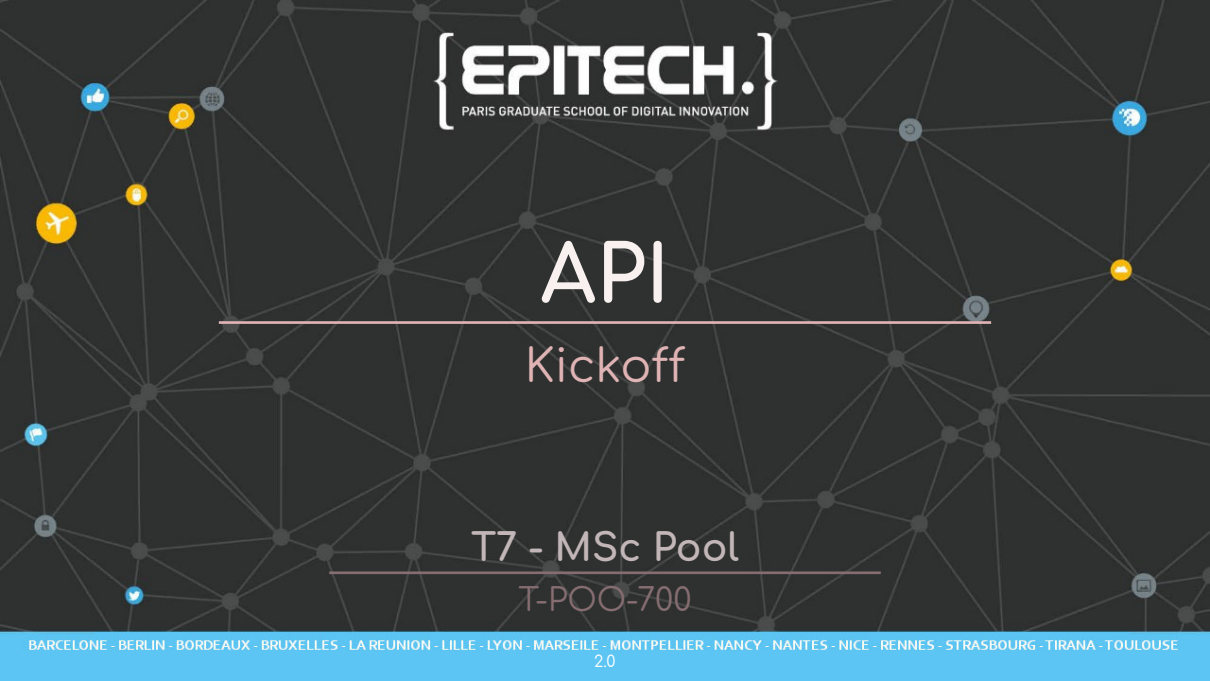

API

Kickoff

T7 - MSc Pool

T-POO-700

Application Programming Interface

- language to connect apps together ;
- set of classes, methods or functions that serves as a facade through which an app offers its services to others:
- mainly two types of API:
  - internal to a project ;
  - a 3rd party API that can be used by several projects.

SOAP & REST

- **S**imple **O**bject **A**ccess **P**rotocol
  if a modification is made somewhere, the whole protocol may no longer work
- **RE**presentational **S**tate **T**ransfer
  a client can use a REST-type service without any knowledge of the API

JSON

```
{
    "title": "TITRE 1",
    "description": "Description de l'objet",
    "status": true
}
```

- derived from the notation of objects in Javascript languages
- understandable by all
- does not depend on any language
- allows storing data of different types

CRUD

Basic operations for data persistence:

Create | POST | Insert
Read | GET | Select
Update |PUT | Update
Delete | DELETE | Delete

What is a good API?

a clear code
unit tests
integration
stateless
optimization
documentation (like Swagger for example)

POSTMAN

Indispensable to test your API
Collections to share
Automated tests
Documentation

Time Manager

If your API is exhaustive, you'll be able to manage any situation in which you need to update, create and delete data during the realisation of the pool project…

if not, you'll have to deal with it…

Any questions

?