





Very first theme

Let's start your working time management application with its first brick:







Very first theme

Let's start your working time management application with its first brick:

the API







API







API

Application Programming Interface

 set of classes, methods or functions that serves as a facade through which a client offers its services to others







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API

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- two types of API:







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- set of classes, methods or functions that serves as a facade through which a client offers its services to others: a common language that connects two projects together
- two types of API:
 - * internal to a project
 - * a third-party API that can be used by several projects (such as Google Maps for displaying maps)







SOAP & REST









SOAP & REST



• SOAP - Simple Object Access Protocol







SOAP & REST



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 if a modification is made somewhere, the whole protocol may no longer work







SOAP & REST



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- **REST** Representational State Transfer







SOAP & REST



- SOAP Simple Object Access Protocol
 if a modification is made somewhere, the whole protocol may no longer work
- REST Representational State Transfer
 a client can use a REST-type service without any knowledge of the API







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







JSON

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

derived from the notation of objects in Javascript languages







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- derived from the notation of objects in Javascript languages
- understandable by all





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- does not depend on any language





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}
```

- 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:







CRUD

Basic operations for data persistence:

Create | POST | Insert







CRUD

Basic operations for data persistence:

Create | POST | Insert Read | GET | Select







CRUD

Basic operations for data persistence:

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







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







What is a good API?

a clear code unit tests







What is a good API?

a clear code unit tests integration







What is a good API?

a clear code unit tests integration stateless







What is a good API?

a clear code unit tests integration stateless optimization







What is a good API?

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







POSTMAN

Indispensable to test your API







POSTMAN

Indispensable to test your API Collections to share









BOURG - TIRANA -





POSTMAN

Indispensable to test your API Collections to share Automated tests









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...







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













