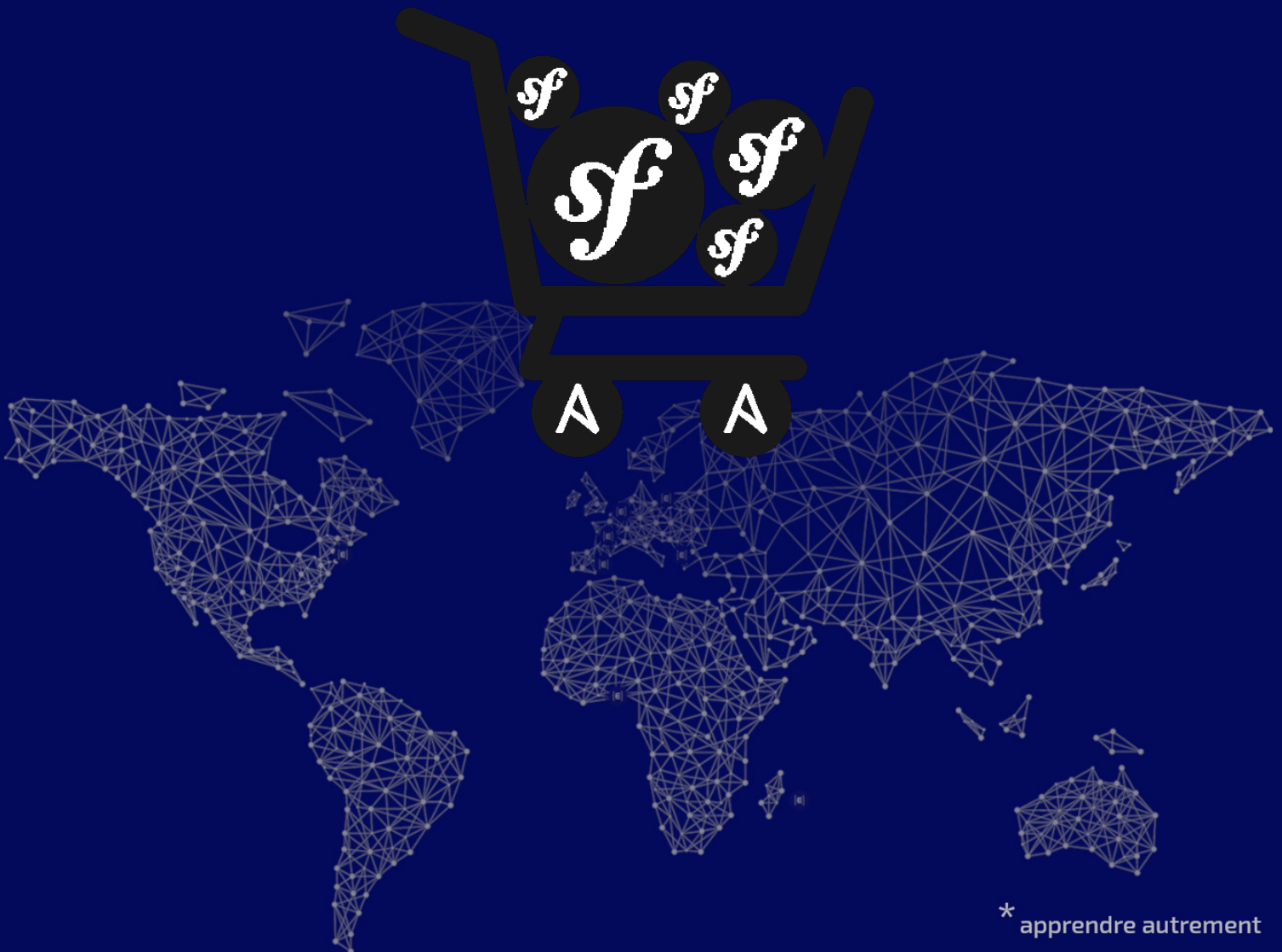




E-COMMERCE

BOOTSTRAP



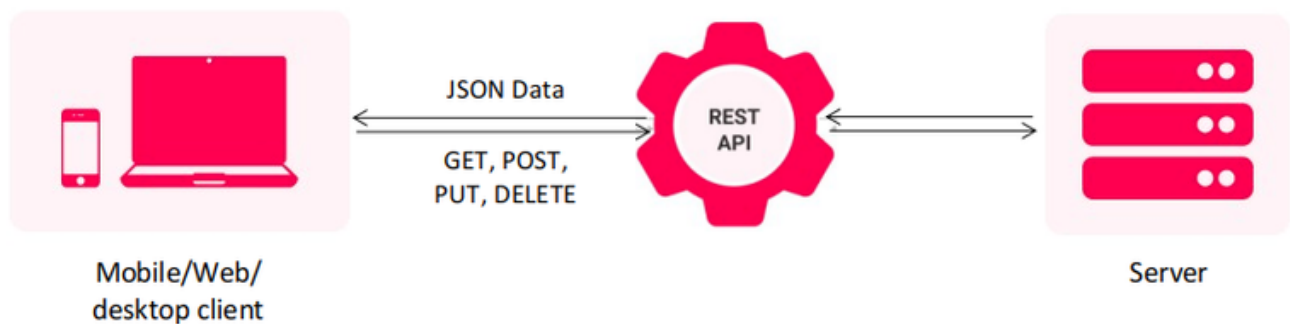
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E-COMMERCE

API

- ✓ Client-server architecture.
- ✓ Based on the http protocol.
- ✓ Stateless.
- ✓ Uniform interface.
- ✓ Return a lot of format of data (json, xml ...).

REST



Retrieve all users	⇒	GET	/users
Create a user	⇒	POST	/users
Retrieve one User	⇒	GET	/users/{id}
Update a user	⇒	PUT	/users{id}
Delete a User	⇒	DELETE	/users/{id}

Http codes

- ✓ 1xx informational response: the request was received, continuing process.
- ✓ 2xx successful: the request was successfully received, understood, and accepted.
 - 200: OK.
 - 201: Created.
- ✓ 3xx redirection: further action needs to be taken in order to complete the request.
- ✓ 4xx client error: the request contains bad syntax or cannot be fulfilled.
 - 400: Bad request.
 - 401: Unauthorized.
 - 403: Forbidden.
- ✓ 5xx server error: the server failed to fulfil an apparently valid request.
 - 500: Internal Server Error.

Json return example

```
{  
  "id": 10,  
  "email": "marvin42@epitech.eu",  
  "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9",  
  "status": true  
}
```

Automation - Docker

Install Docker.

You can verify if the installation is successful by running the `hello-world` image

Tool for debug

For debug your API, you must have a tool for craft your HTTP requests.

You have choices such as Postman or Insomnia

Development - Symfony

Environment and setup time

Install the following packages into your php container:

- ✓ Php 8.0 or higher
- ✓ Symfony
- ✓ Composer

In another container you need to install Postgress.

And finally, you must configure the web server of your choice.

Create app symfony

Symfony utilizes Composer to manage its dependencies. So, before using Symfony, make sure you have Composer installed on your container.

We can install Symfony Framework by issuing the composer command in our terminal or using the Symfony installer.

Create new page

Create a page `/character` that generates a char between 'a' and 'z' and prints it in html format. To do that, create route, a `Controller` class and a `controller` method inside this controller. You can launch the Symfony development server to check the result.



make controller

GET

In most projects we need to store data. For this step make sure you have mysql installed.



environment

Create a new page `/key` (only accessible in GET) that generates a string containing 12 characters, prints and saves it on the mysql database.

The mysql table should not be created manually and you have to use **migrations** and the table structure should be as follows:

- ✓ **id**
- ✓ **value** : your generated key



entity , doctrine, migration

POST

Create a new page `/key` (only accessible in POST) that receives the **key** field in json and saves it on the mysql database.

DELETE

Create a new page `/key/{id}` (only accessible in DELETE) that deletes the corresponding key.

PUT

Create a new page `/key/{id}` (only accessible in PUT) that receives the **key** field in json and updates the corresponding key.

Keep secrets ...secrets

A main configuration file called '.env' is required by symfony

this file should not be made public



.gitignore

Debugging tips

Symfony is a powerful tool that integrates a console for debugging as example:

- ✓ `php bin/console debug:router` => see all endpoints
- ✓ `php bin/console debug:config` => see all config
- ✓ [Symfony documentation](#)



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