

Compte rendu DM Jhipster

On obtient le nombre de lignes de code du dossier src grâce à la commande cloc du terminal.

Avant la commande 'jhipster import-jdl coopcycle.jh', le dossier contenait 18670 lignes de code. Après cette commande, il y a 28702 lignes.
L'import a donc ajouté 10032 lignes de code.

Lien vers le git :

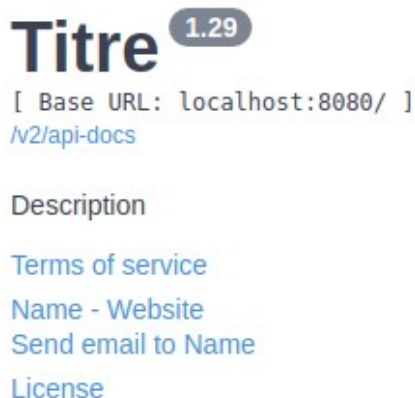
<https://github.com/Gabriel-15662/jhipster>

lien vers coopcycle.jh :

<https://github.com/Gabriel-15662/jhipster/blob/master/coopcycle.jh>

lien vers coopcycle.png :

<https://github.com/Gabriel-15662/jhipster/blob/master/coopcycle.png>



Les commandes à exécuter pour générer l'application coopcycle sont :

```
jhipster
```

```
jhipster import-jdl coopcycle.jh
```

```
jhipster ci-cd
```

```
./mvnw
```

localhost:8080/product

Products

+ Create a new Product

ID	Price	Disponibility	Description	Basket	Restaurant
1	23324	UNAVAILABLE	website calculating		<div><div><div></div><div>View</div></div><div><div></div><div>Edit</div></div><div><div></div><div>Delete</div></div></div>
2	57374	AVAILABLE	Chilean Peso Unidades de fomento Handmade Legacy		<div><div><div></div><div>View</div></div><div><div></div><div>Edit</div></div><div><div></div><div>Delete</div></div></div>
3	92572	UNAVAILABLE	Refined Metal Car		<div><div><div></div><div>View</div></div><div><div></div><div>Edit</div></div><div><div></div><div>Delete</div></div></div>
4	93728	AVAILABLE	infomediaries Michigan Incredible		<div><div><div></div><div>View</div></div><div><div></div><div>Edit</div></div><div><div></div><div>Delete</div></div></div>
5	94707	AVAILABLE	withdrawal Bedfordshire		<div><div><div></div><div>View</div></div><div><div></div><div>Edit</div></div><div><div></div><div>Delete</div></div></div>
6	4189	UNAVAILABLE	Ball Australian Dollar		<div><div><div></div><div>View</div></div><div><div></div><div>Edit</div></div><div><div></div><div>Delete</div></div></div>
7	4184	UNAVAILABLE	Rubber		<div><div><div></div><div>View</div></div><div><div></div><div>Edit</div></div><div><div></div><div>Delete</div></div></div>

localhost:8080/admin/docs

account-resource

GET `/api/account` `getAccount`

Parameters Try it out

No parameters

Responses Response content type: `*/*`

Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found

Example Value | Model

```
{  "activated": true,  "authorities": [    "string"  ],  "createdBy": "string",  "createdDate": "2020-04-23T14:31:32.158Z",  "email": "string",  "firstName": "string",  "id": 0,  "imageUrl": "string",  "langKey": "string",  "lastModifiedBy": "string",  "lastModifiedDate": "2020-04-23T14:31:32.158Z",  "lastName": "string",  "login": "string"}
```

POST `/api/account` `saveAccount`

Pour calculer le COCOMO, on va sur :

https://strs.grc.nasa.gov/repository/forms/cocomo-calculation/?fbclid=IwAR1Cz3kNm-Pzog0lgSjJwEd4LpzLJ6Hpr_qt6jATBS3eQdU40SNrHLnizoo

On choisit l'option Organic Mode car le projet est relativement simple, et on donne 28702 lignes estimées. On obtient :

COCOMO RESULTS for coopcycle								
MODE	"A" variable	"B" variable	"C" variable	"D" variable	KLOC	EFFORT, (in person-months)	DURATION, (in months)	STAFFING, (recommended)
organic	2.4	1.05	2.5	0.38	28.702	81.474	13.308	6.122
Explanation: The coefficients are set according to the project mode selected on the previous page, (as per Boehm). The final estimates are determined in the following manner: effort = $a * KLOC^b$, in person-months, with KLOC = lines of code, (in thousands), and: staffing = effort/duration								

Selon l'estimation COCOMO, on voit que le projet nécessiterait 81,474 personnes-mois, soit 6,7895 personnes-années.

Avec <https://stackoverflow.com/jobs/salary>, on voit que le salaire annuel moyen d'un développeur backend avec un master et 1 an d'expérience vaut :

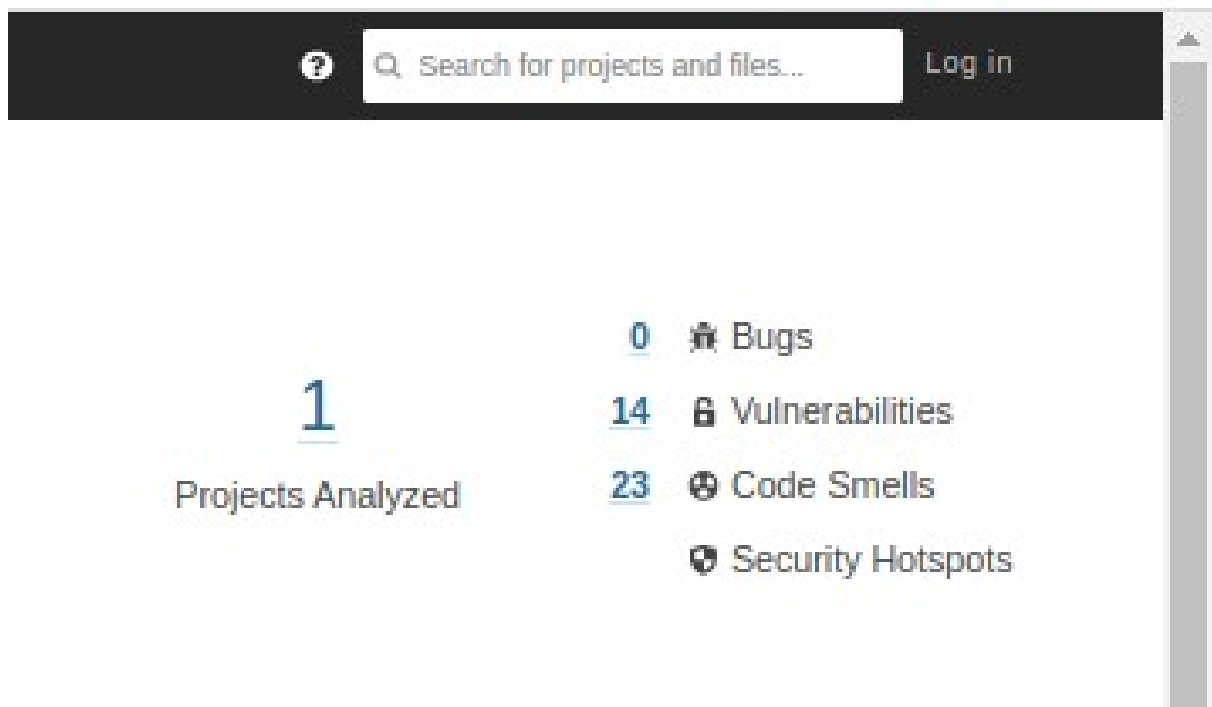
Grenoble : 38000€, soit un coût de 258 001€ (sans charges patronales) pour le projet.

San Francisco : 143000\$, soit un coût de 897 557€ (sans charges patronales) pour le projet.

Bengaluru : ₹650,000, soit un coût de 53 452€ (sans charges patronales) pour le projet.

On obtient un rapport SonarCube sur la qualité du code avec la commande :
docker-compose -f src/main/docker/sonar.yml up -d

Ensuite, avec : *./mvnw -Pprod clean verify sonar:sonar*, on peut accéder via localhost:9001 au résultat suivant :



Avec la commande : `curl --location --request POST 'localhost:8080/api/authenticate' --header 'Content-Type: application/json' --data-raw '{"password":"admin","username":"admin","rememberMe":"true"}'`

on obtient le token :

eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJhZG1pbilzImF1dGgiOiJST0xFX0FETU1OLFJPTEVfVFNFUilzImV4cCI6MTU5MDM0NTM0NX0.xKSpNBc6HDgqIgufTr2zExC_Akjmyx14iBEOieAqHJLHdv6w88DElZDcTWWoPrnWA5nlkl1BueqdWKWL3IHbVw

Avec jwt.io, on a :

The screenshot shows the jwt.io website interface. The browser address bar displays `https://jwt.io`. The website header includes the JWT logo, navigation links (Debugger, Libraries, Introduction, Ask, Get a T-shirt!), and a note 'Crafted by Auth0'. The main content area is divided into two panels. The left panel displays the decoded JWT token: `eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJhZG1pbilzImF1dGgiOiJST0xFX0FETU1OLFJPTEVfVFNFUilzImV4cCI6MTU5MDM0NTM0NX0.GIARC87d-YXQ27-vWFXfLrWX6DG3S6LSWYKAP2AQ10Ab3PfSPnIL_YmySXMqNGIdXbAv-PSK2QFAeeAnhkbv1A`. The right panel shows the token's structure:
- **HEADER: ALGORITHM & TOKEN TYPE**: `{ "alg": "HS512" }`
- **PAYLOAD: DATA**: `{ "sub": "admin", "auth": "ROLE_ADMIN, ROLE_USER", "exp": 1598345345 }`
- **VERIFY SIGNATURE**: Shows the HMACSHA512 algorithm and a checkbox for 'secret base64 encoded'. Below the panels, a blue checkmark icon and the text 'Signature Verified' are displayed. A blue button labeled 'SHARE JWT' is located at the bottom right.