

TP Microservices

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Ce TP est un projet Spring, dans lequel il faut créer une API Rest.

Ici la base de données correspond à une liste contenant 3 utilisateurs :

```
users.add(new User( id: 1, name: "Marc", firstName: "Marcus", city: "Nancy", phoneNumber: "0601020304"));
users.add(new User( id: 2, name: "Ginette", firstName: "Supp", city: "Metz", phoneNumber: "0612345678"));
users.add(new User( id: 3, name: "Manon", firstName: "Massi", city: "Paris", phoneNumber: "0606060606"));
```

La méthode GET nous retourne donc tous les utilisateurs contenus dans cette liste :

```
[{"id":1,"name":"Marc","firstName":"Marcus","city":"Nancy","phoneNumber":"0601020304"}, {"id":2,"name":"Ginette","firstName":"Supp","city":"Metz","phoneNumber":"0612345678"}, {"id":3,"name":"Manon","firstName":"Massi","city":"Paris","phoneNumber":"0606060606"}]
```

Les autres méthodes se font via Postman.

La méthode POST permet d'ajouter un nouvel utilisateur dans la liste :

The screenshot shows the Postman interface. At the top, the URL bar displays 'http://localhost:8080/Users'. Below the URL bar, the 'POST' method is selected, and the same URL is entered in the request bar. To the right of the request bar is a blue 'Send' button. Below the request bar, there are tabs for 'Params', 'Auth', 'Headers (8)', 'Body', 'Pre-req.', 'Tests', and 'Settings'. The 'Body' tab is currently selected and highlighted with an orange underline. Under the 'Body' tab, there are two options: 'raw' and 'JSON', with 'JSON' selected. To the right of these tabs are two more buttons: 'Cookies' and 'Beautify'. The main area of the interface shows a JSON body for the POST request, with line numbers 1 through 7 on the left. The JSON is:

```
{
  "id": 4,
  "name": "Marco",
  "firstName": "Polo",
  "city": "Bordeau",
  "phoneNumber": "0660606060"
}
```

```
[{"id":1,"name":"Marc","firstName":"Marcus","city":"Nancy","phoneNumber":"0601020304"}, {"id":2,"name":"Ginette","firstName":"Supp","city":"Metz","phoneNumber":"0612345678"}, {"id":3,"name":"Manon","firstName":"Massi","city":"Paris","phoneNumber":"0606060606"}, {"id":4,"name":"Marco","firstName":"Polo","city":"Bordeau","phoneNumber":"0660606060"}]
```

La méthode PUT permet de modifier un utilisateur dans la liste :

http://localhost:8080/Users Save

PUT http://localhost:8080/Users Send

Params Auth Headers (8) Body Pre-req. Tests Settings Cookies

raw JSON Beautify

```
1 {
2   ... "id": 2,
3   ... "name": "Ginette",
4   ... "firstName": "Suppe"
5   ... "city": "Metz",
6   ... "phoneNumber": "0612345678"
7 }
```

[{"id":1,"name":"Marc","firstName":"Marcus","city":"Nancy","phoneNumber":"0601020304"}, {"id":2,"name":"Ginette","firstName":"Suppe","city":"Metz","phoneNumber":"0612345678"}, {"id":3,"name":"Manon","firstName":"Massi","city":"Paris","phoneNumber":"0606060606"}, {"id":4,"name":"Marco","firstName":"Polo","city":"Bordeau","phoneNumber":"0660606060"}]

La méthode DELETE permet de supprimer un utilisateur dans la liste :

http://localhost:8080/Users/3 Save

DELETE http://localhost:8080/Users/3 Send

[{"id":1,"name":"Marc","firstName":"Marcus","city":"Nancy","phoneNumber":"0601020304"}, {"id":2,"name":"Ginette","firstName":"Suppe","city":"Metz","phoneNumber":"0612345678"}, {"id":4,"name":"Marco","firstName":"Polo","city":"Bordeau","phoneNumber":"0660606060"}]