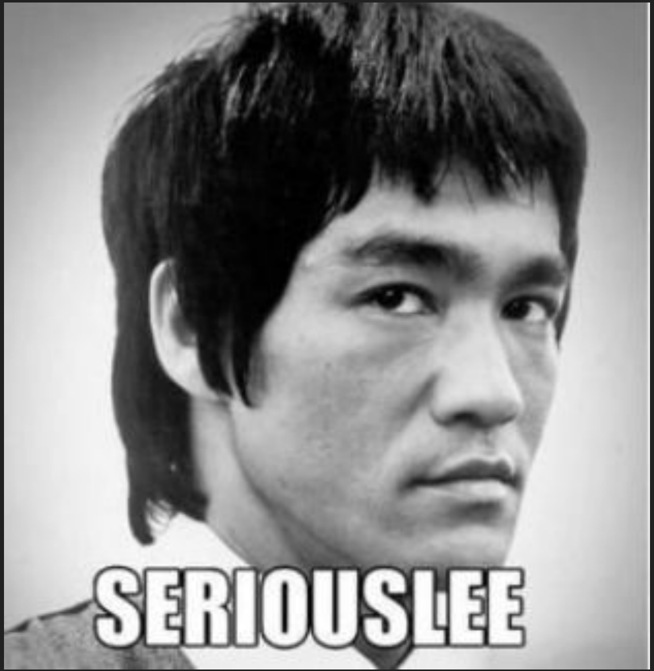
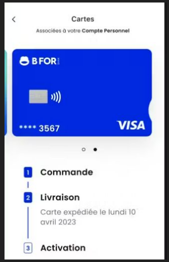
Rappel des fondamentaux



Application Programming Interface

nous



Cartes

Associées à votre **Compte Personnel**

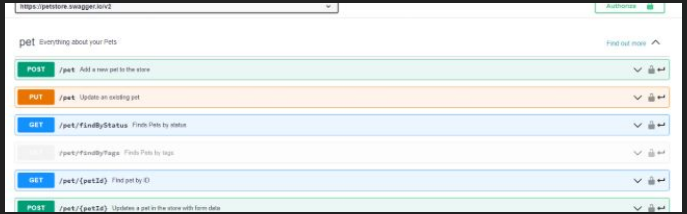
1 **Commande**

2 **Livraison**

Carte expédiée le lundi 10 avril 2023

3 **Activation**

swagger

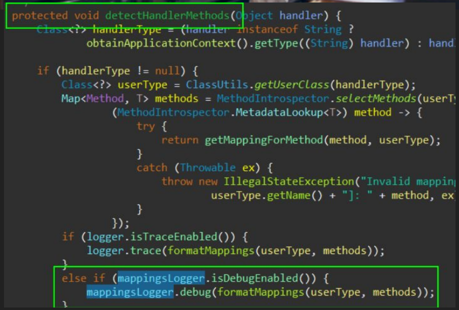


https://petstore.swagger.io/v2

pet Everything about your Pets

```
POST  /pet                Add a new pet to the store
PUT   /pet                Update an existing pet
GET   /pet/findByStatus   Finds Pets by status
      /pet/findByTags     Finds Pets by tags
GET   /pet/{petId}        Find pet by ID
POST  /pet/{petId}        Updates a pet in the store with form data
```

backend



```
protected void detectHandlerMethods(Object handler) {
    Class<?> handlerType = (handler instanceof String ?
            obtainApplicationContext().getType((String) handler) : hand

    if (handlerType != null) {
        Class<?> userType = ClassUtils.getUserClass(handlerType);
        Map<Method, T> methods = MethodIntrospector.selectMethods(userTy
                (MethodIntrospector.MetadataLookup<T>) method -> {
                    try {
                        return getMappingForMethod(method, userType);
                    }
                    catch (Throwable ex) {
                        throw new IllegalStateException("Invalid mappin
                                userType.getName() + "]: " + method, ex
                    }
                });
        if (logger.isTraceEnabled()) {
            logger.trace(formatMappings(userType, methods));
        }
        else if (mappingsLogger.isDebugEnabled()) {
            mappingsLogger.debug(formatMappings(userType, methods));
        }
```

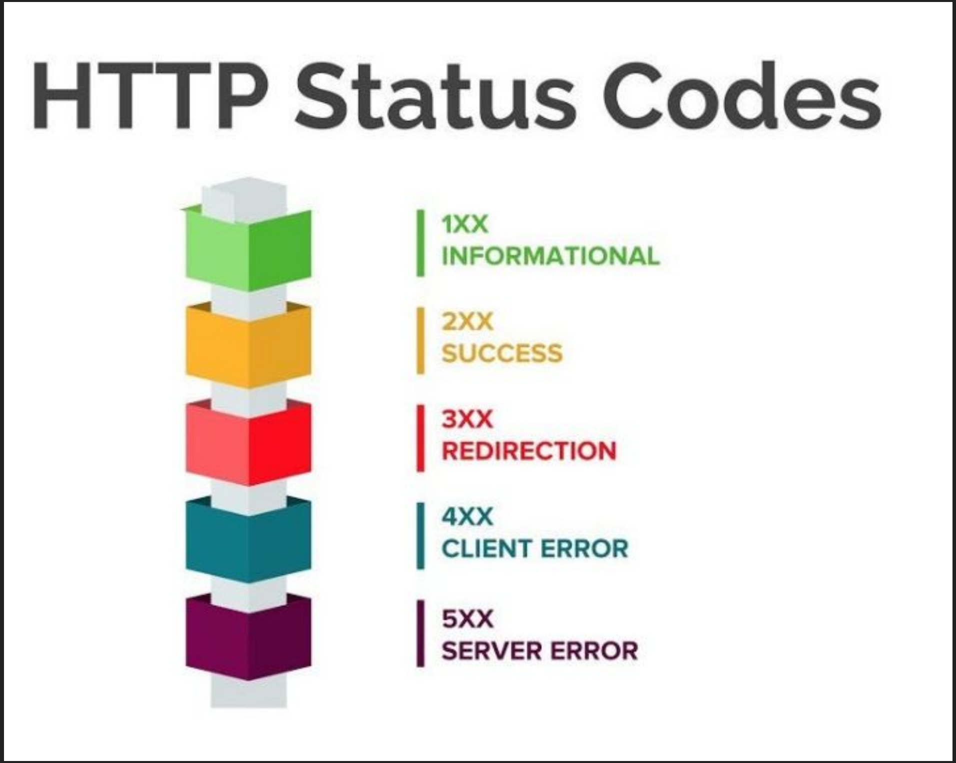
Avantage

Sécurité : On n'expose pas sa base de données

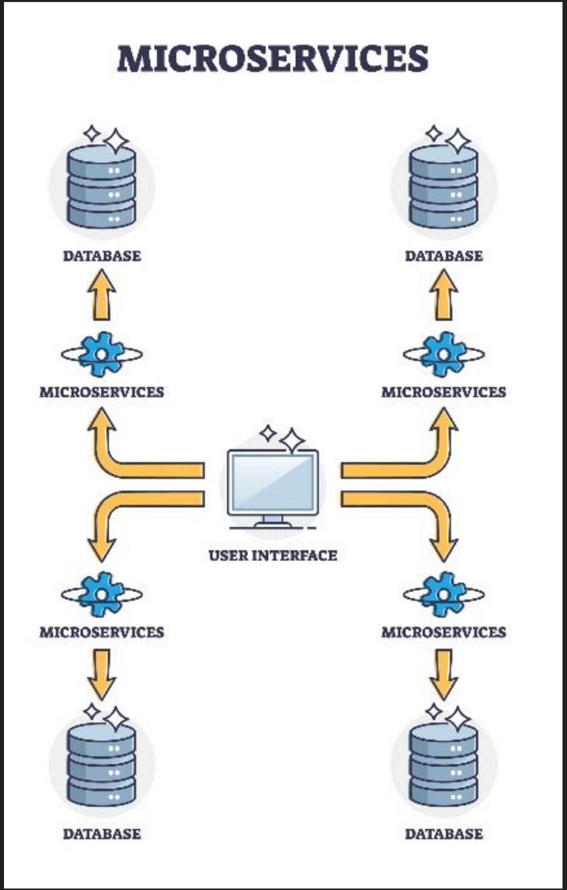
Modularité : On peut changer le code interne sans casser l'appli du client.

Évolutivité : On peut ajouter des fonctionnalités sans tout refaire.

Centralisation : Une seule règle métier pour le Web, le Mobile et les partenaires.

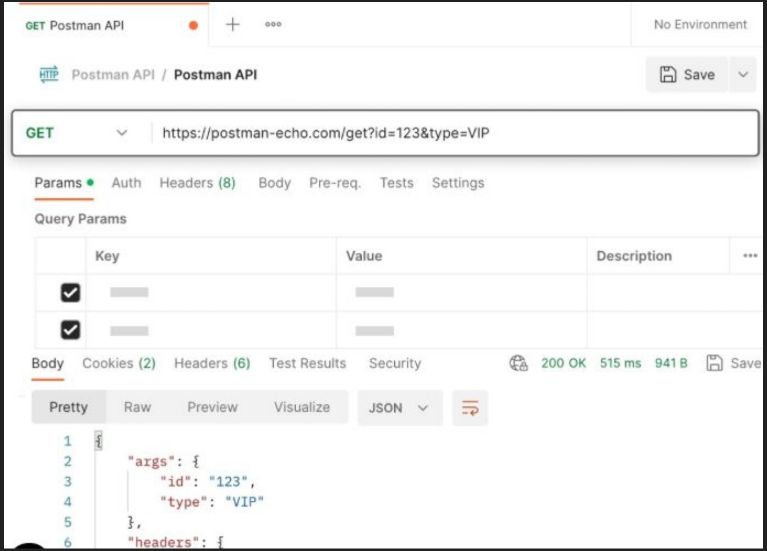


- 200 : succès de la requête ;
- 301 et 302 : redirection
- 401 : utilisateur non authentifié ;
- 403 : accès refusé ;
- 404 : ressource non trouvée ;
- 500, 502 et 503 : erreurs serveur ;
- 504 : le serveur n'a pas répondu.


MICROSERVICES
DATABASE
DATABASE
MICROSERVICES
MICROSERVICES
USER INTERFACE
MICROSERVICES
MICROSERVICES
DATABASE
DATABASE

KarateDSL

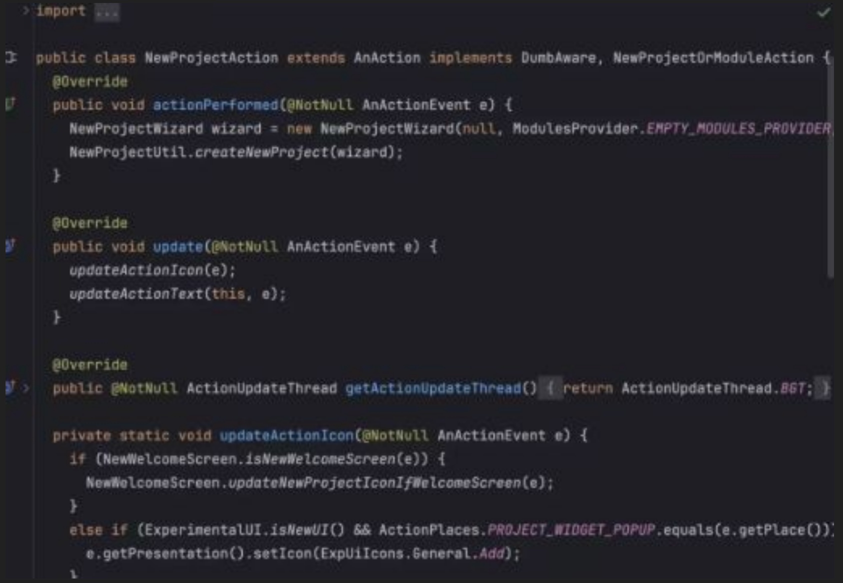
Postman



GET https://postman-echo.com/get?id=123&type=VIP

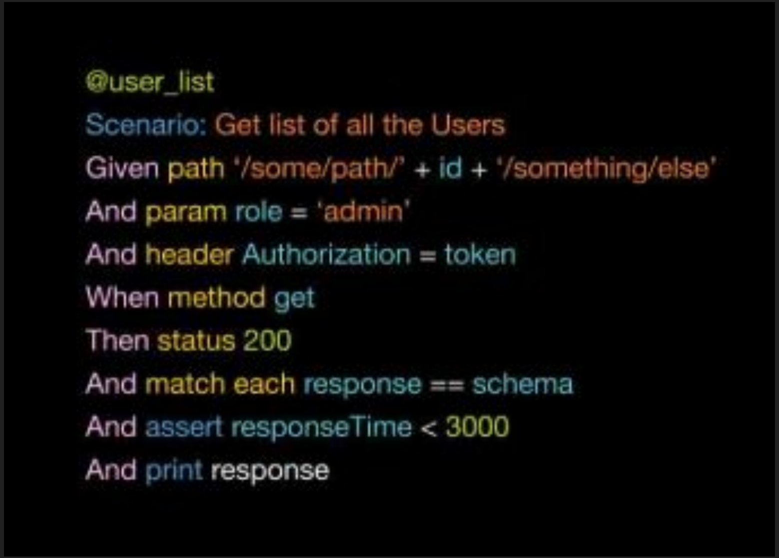
```
{
    "args": {
        "id": "123",
        "type": "VIP"
    },
    "headers": {
```

restAssured



```
import ...

public class NewProjectAction extends AnAction implements DumbAware, NewProjectOrModuleAction {
  @Override
  public void actionPerformed(@NotNull AnActionEvent e) {
    NewProjectWizard wizard = new NewProjectWizard(null, ModulesProvider.EMPTY_MODULES_PROVIDER
    NewProjectUtil.createNewProject(wizard);
  }

  @Override
  public void update(@NotNull AnActionEvent e) {
    updateActionIcon(e);
    updateActionText(this, e);
  }

  @Override
  public @NotNull ActionUpdateThread getActionUpdateThread() { return ActionUpdateThread.BGT; }

  private static void updateActionIcon(@NotNull AnActionEvent e) {
    if (NewWelcomeScreen.isNewWelcomeScreen(e)) {
      NewWelcomeScreen.updateNewProjectIconIfWelcomeScreen(e);
    }
    else if (ExperimentalUI.isNewUI() && ActionPlaces.PROJECT_WIDGET_POPUP.equals(e.getPlace())
      e.getPresentation().setIcon(ExpUiIcons.General.Add);
    }
```

KarateDSL



```
@user_list
Scenario: Get list of all the Users
Given path '/some/path/' + id + '/something/else'
And param role = 'admin'
And header Authorization = token
When method get
Then status 200
And match each response == schema
And assert responseTime < 3000
And print response
```

Native JSON

Assertions "Fuzzy"

"id": "#number",
"name": "#string",
"tags": "#array"

Zéro dépendance

Configuration

KarateDSL

Mocks
Performance (gatling)
UI Testing (navigateur)

Basique

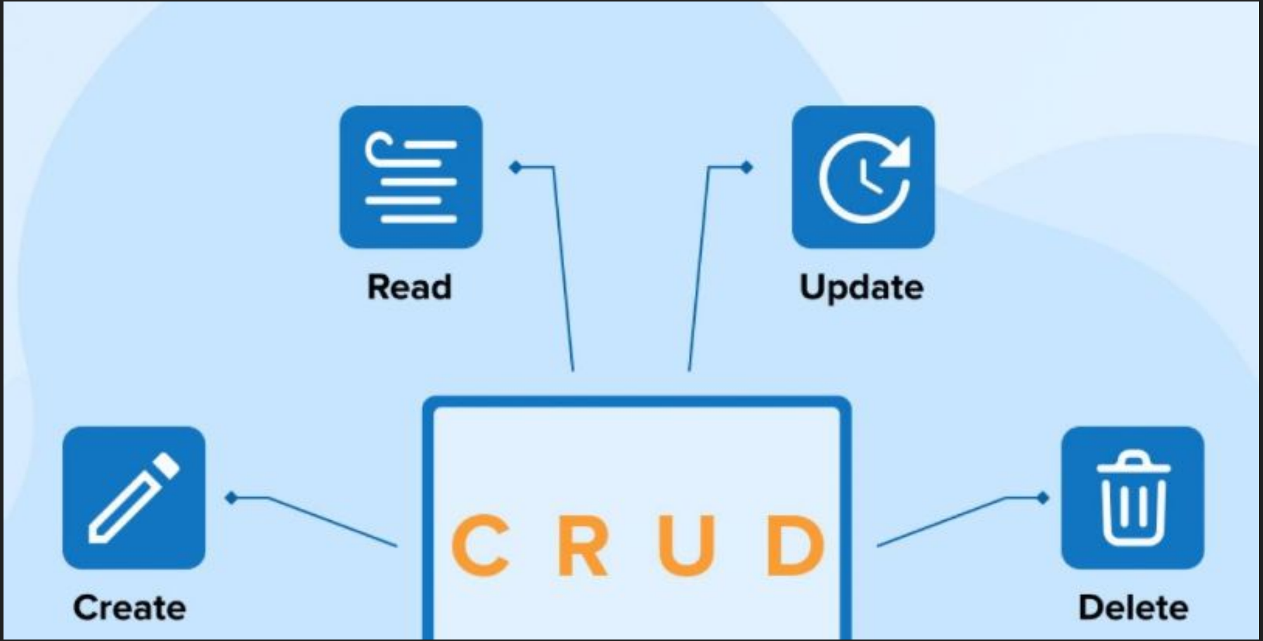
MonSuperTest.feature

```
Feature: Gestion des commandes
Background :
*URL ”MON_URL”
Scenario: Vérifier une commande existante
Given path ”MON_PATH”
And param MON_PARAM = PARAM_VALEUR
When method get
Then status 200
And match == “#present”
```

Match

```
# Match partiel (contient ces champs)
And match response contains { name: 'John', age: 30 }
# Match exact (tous les champs)
And match response == { id: 1, name: 'John', age: 30 }
# Match avec types flexibles
And match response == { id: '#number', name: '#string', age: '#number' }
```

CRUD



Prochain cours

- API / HttpCode
- Report / Debug
- Variable
- GET POST PUT DELETE

- Functions
- JWT
- Configuration from scratch
- Peut être mock