DevOps

TD-01 - Création d’un projet – Intégration et Déploiement manuelle

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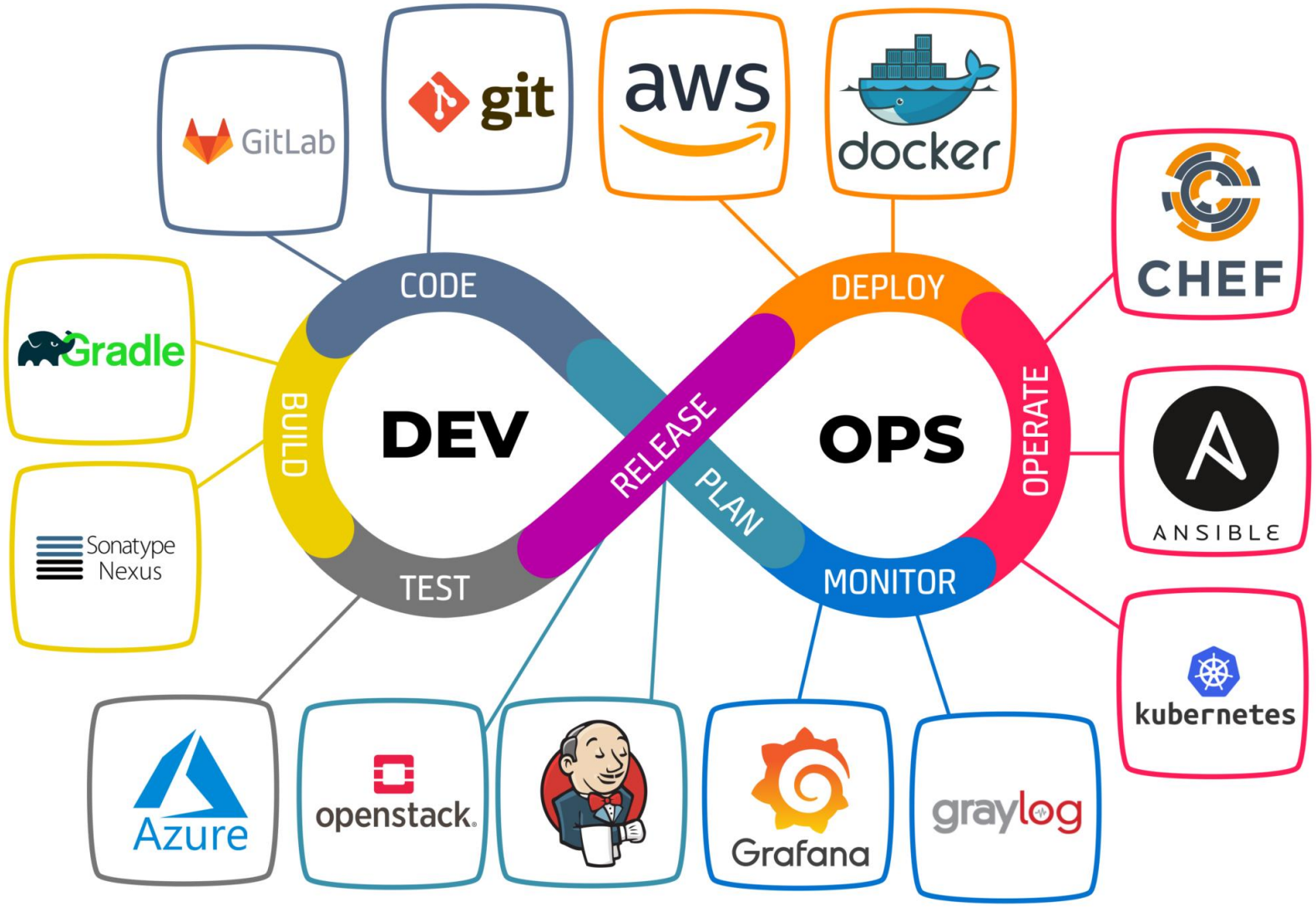
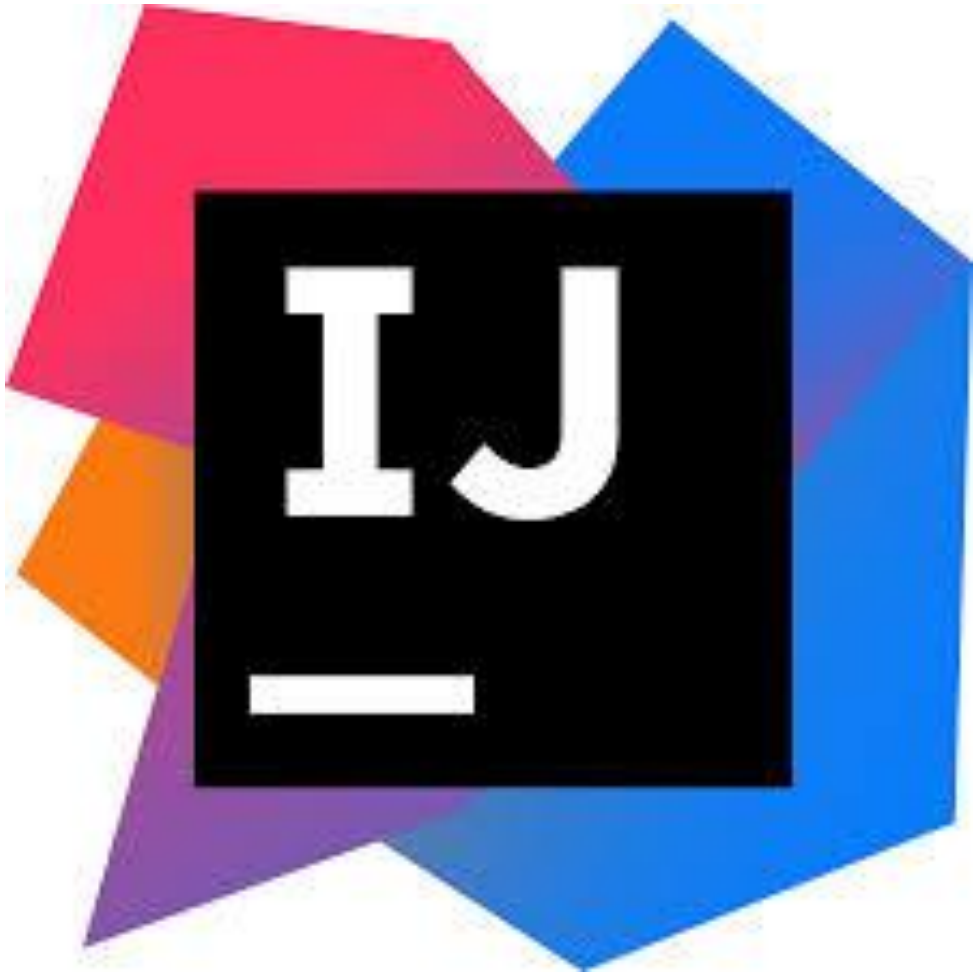
https://github.com/jessoussi

2025

Outils du DevOps





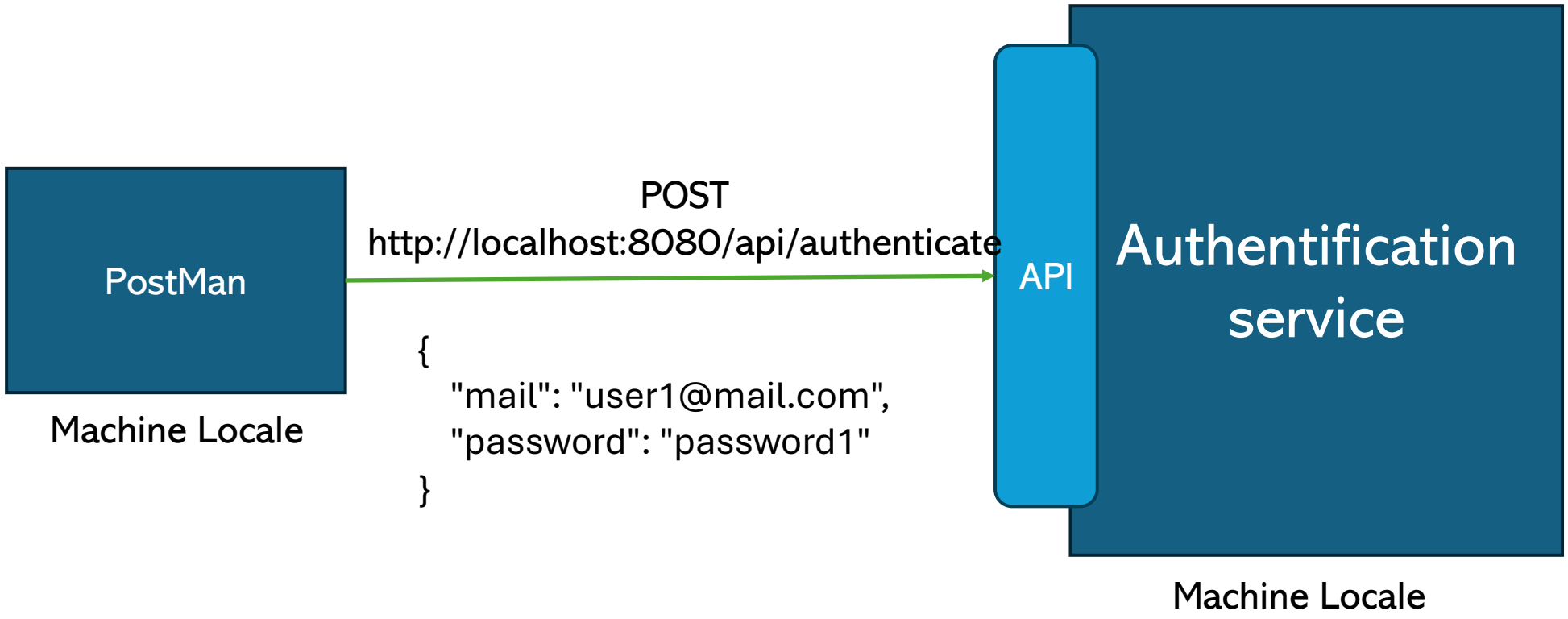
IntelliJ IDE

PostMan

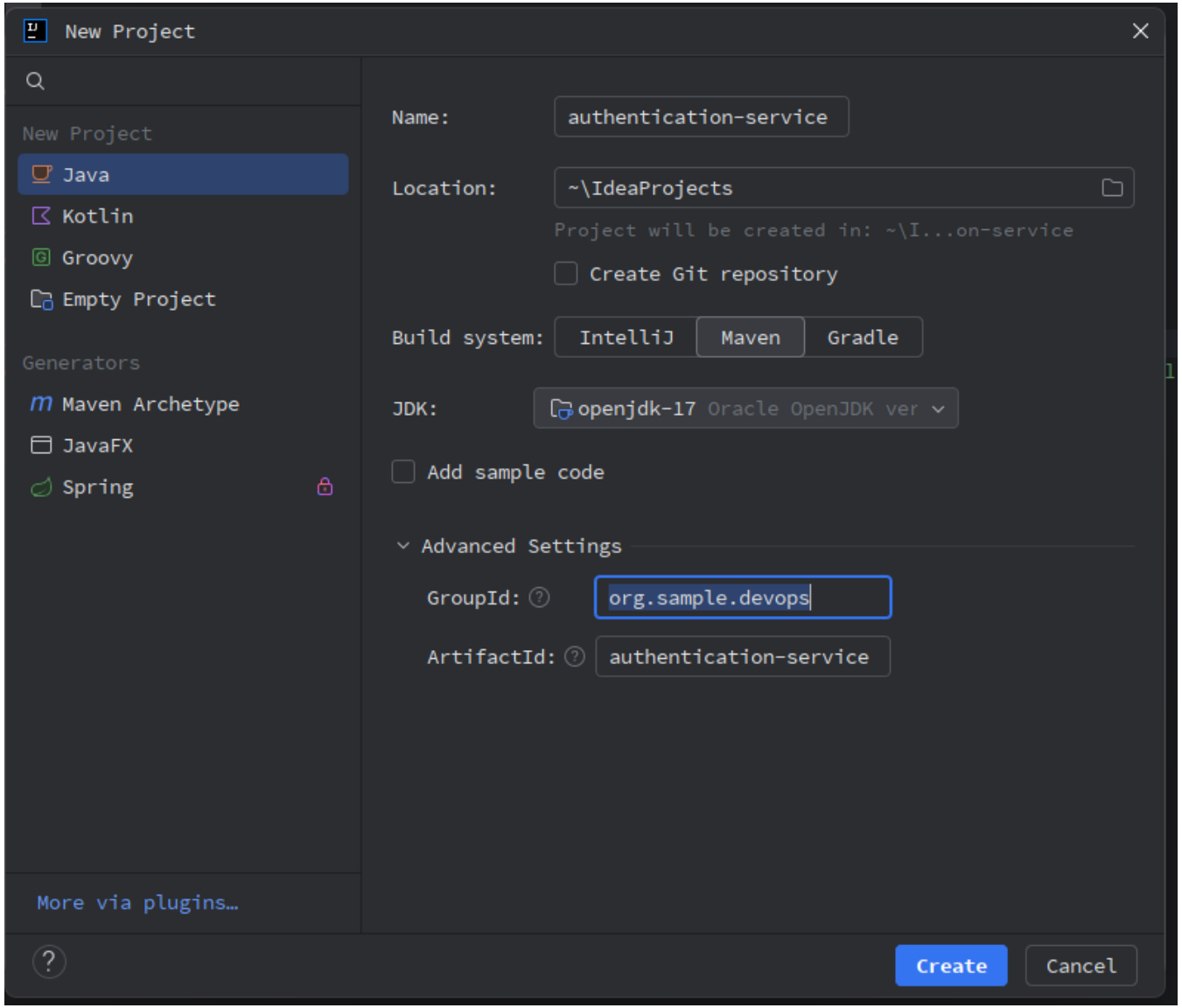
Objectif du TD

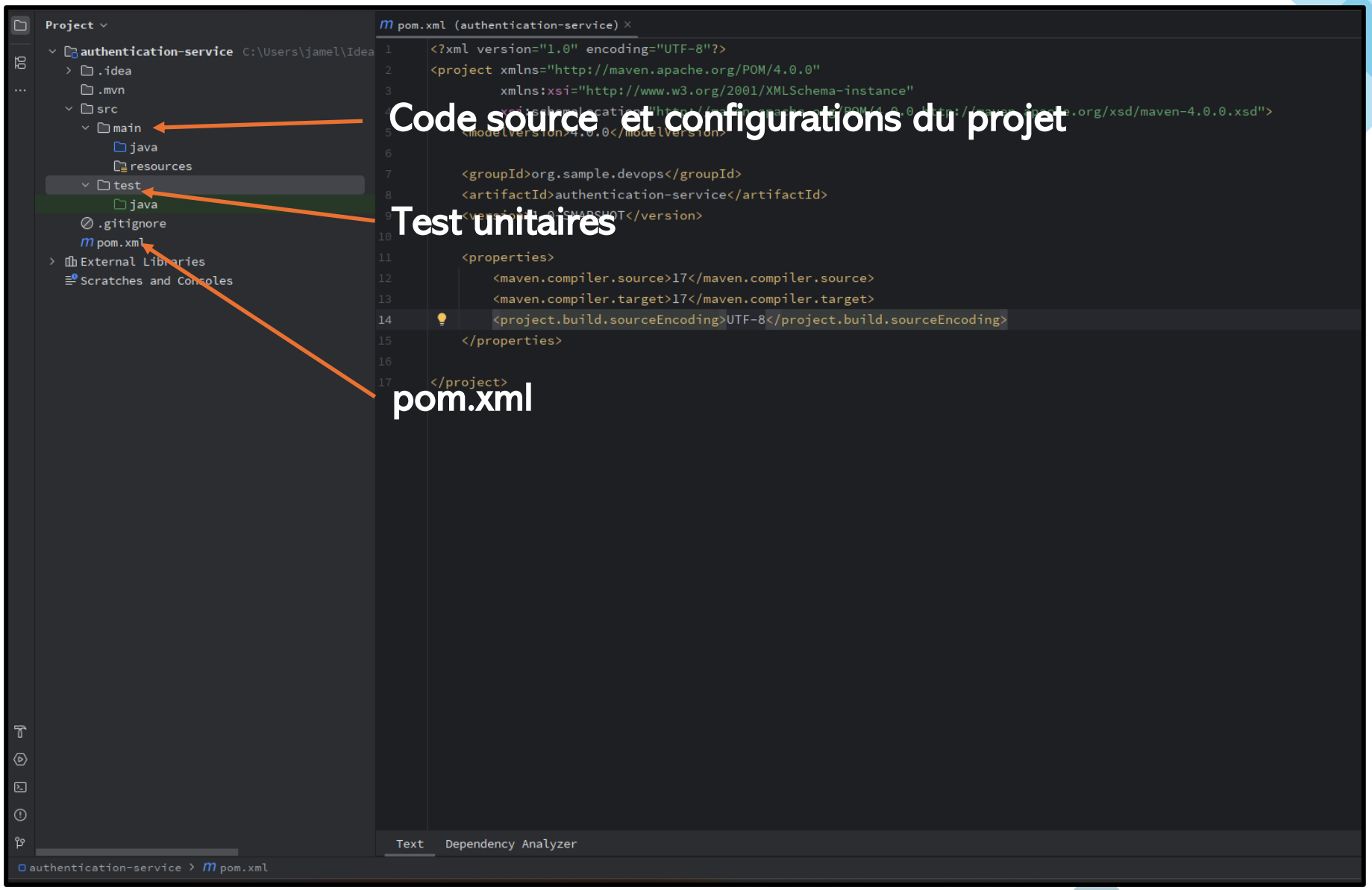
- Développer un service d'authentification basique en springboot
- Exposer un Service en API REST qui permet d'authentifier des utilisateurs,
- Un utilisateur est identifié par son mail et son mot de passe,
- La liste des utilisateurs est gérée dans une structure en mémoire,

Architecture du projet

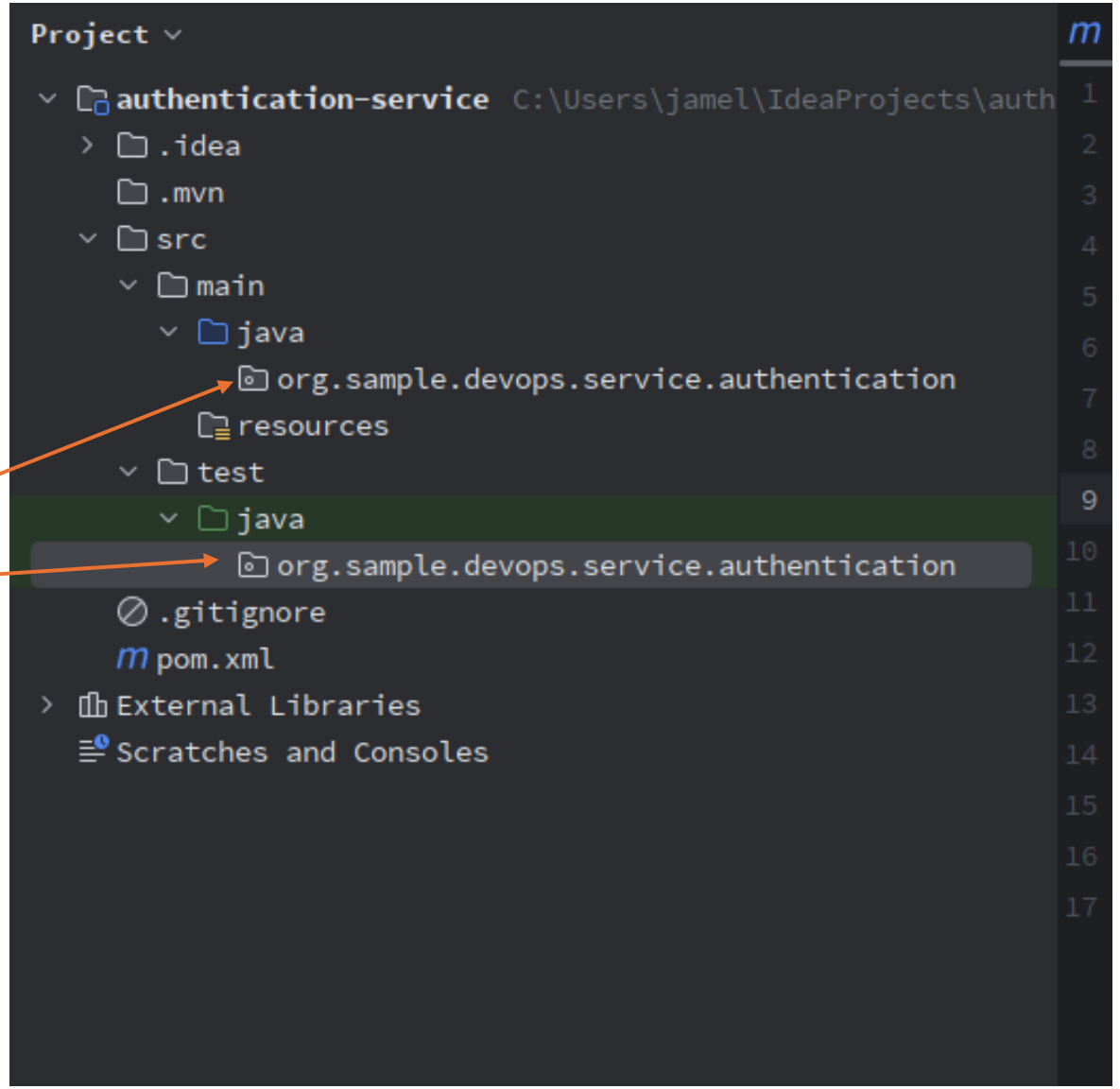


Création du projet




Project
authentication-service C:\Users\jamel\Idea
.idea
.mvn
src
main
java
resources
test
java
.gitignore
pom.xml
External Libraries
Scratches and Consoles
pom.xml (authentication-service)
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
<modelVersion>4.0.0</modelVersion>
<groupId>org.sample.devops</groupId>
<artifactId>authentication-service</artifactId>
<properties>
<maven.compiler.source>17</maven.compiler.source>
<maven.compiler.target>17</maven.compiler.target>
<project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
</properties>
</project>
Text
Dependency Analyzer
authentication-service
pom.xml
Code source et configurations du projet
Test unitaires
pom.xml

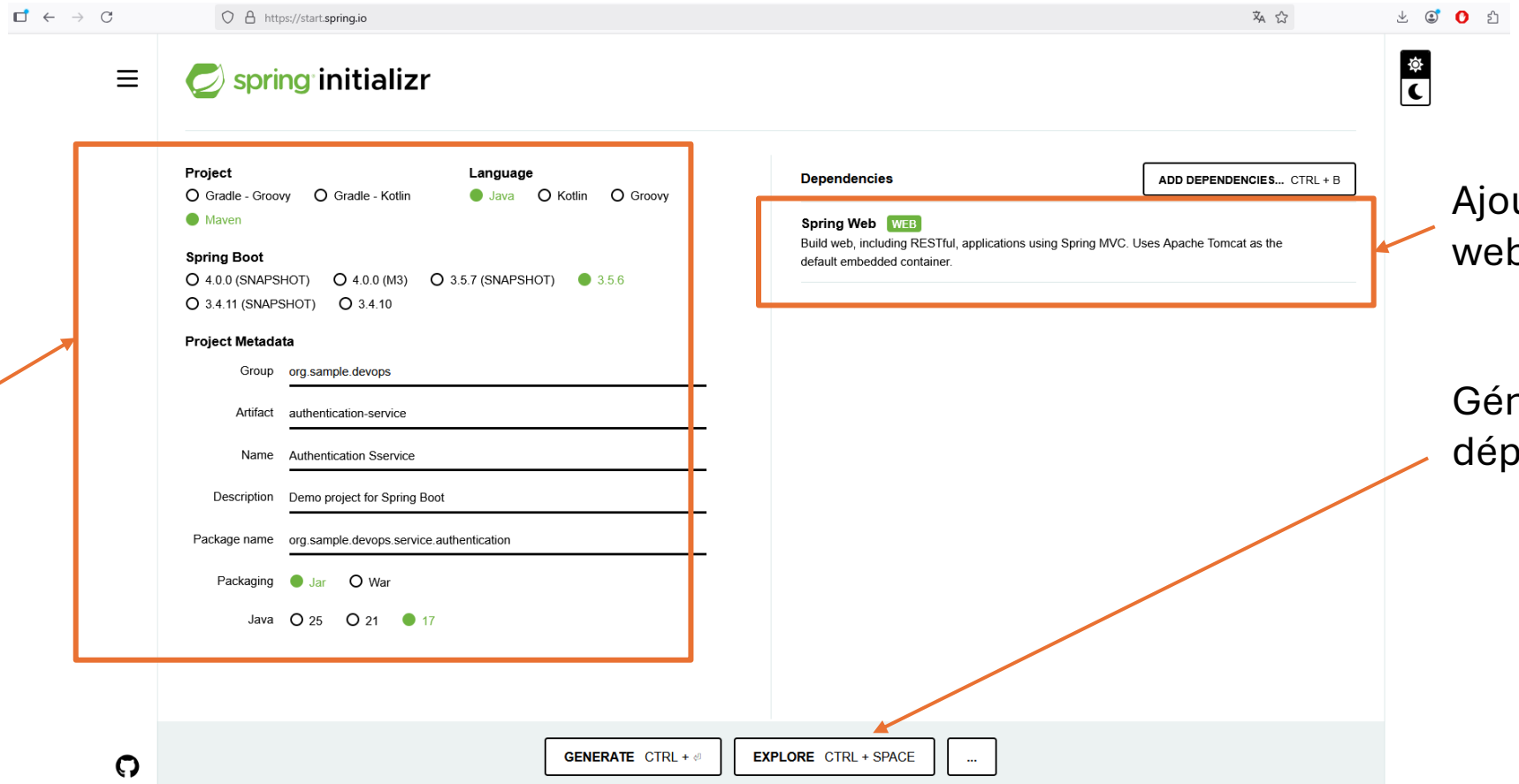
Création des packages



Ajoutez les dépendances SpringBoot

Spring initializr

https://start.spring.io/



Caractéristiques du projet

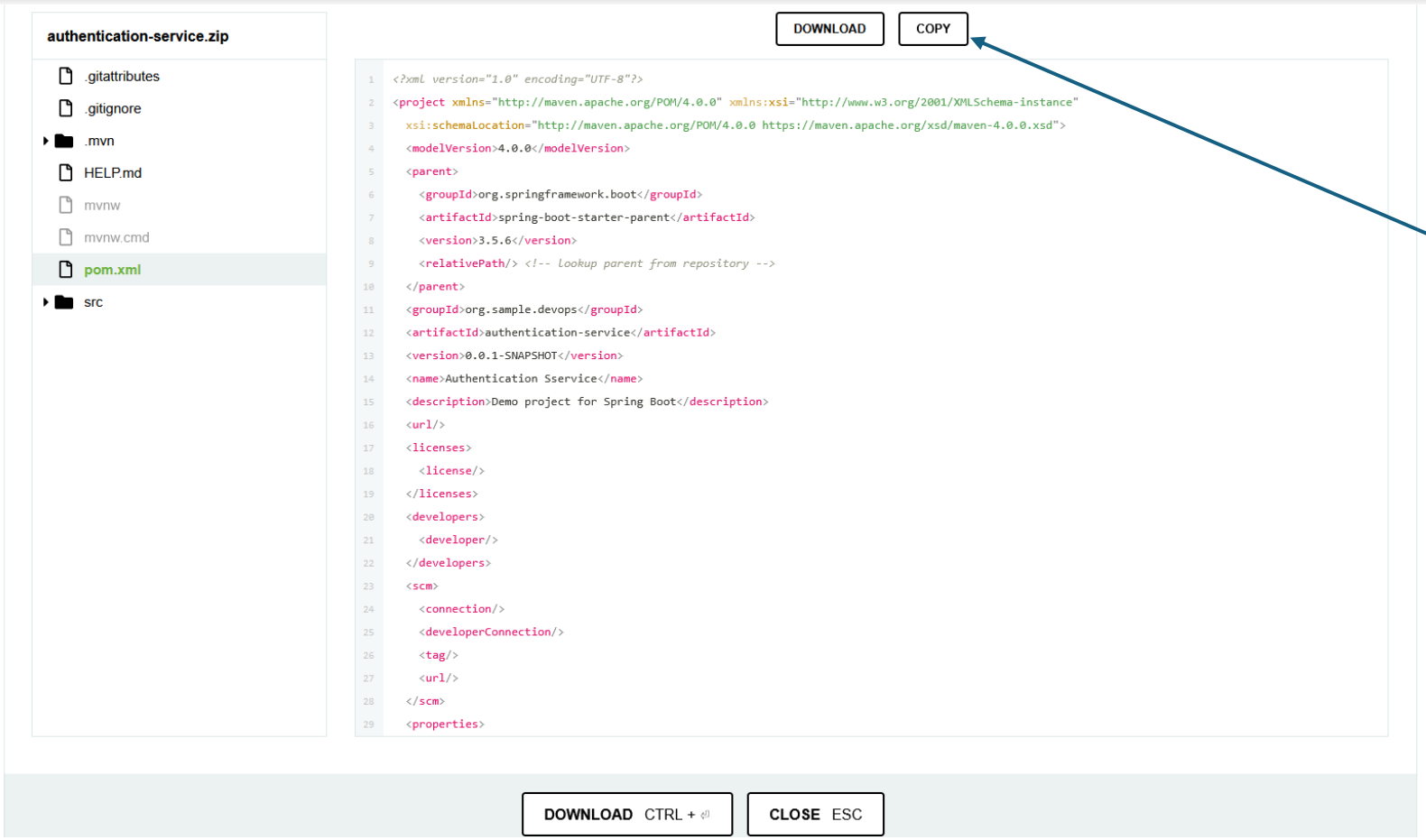
Ajoutez Spring web

Générez les dépendances

Générez les dépendances SpringBoot

Spring initializr

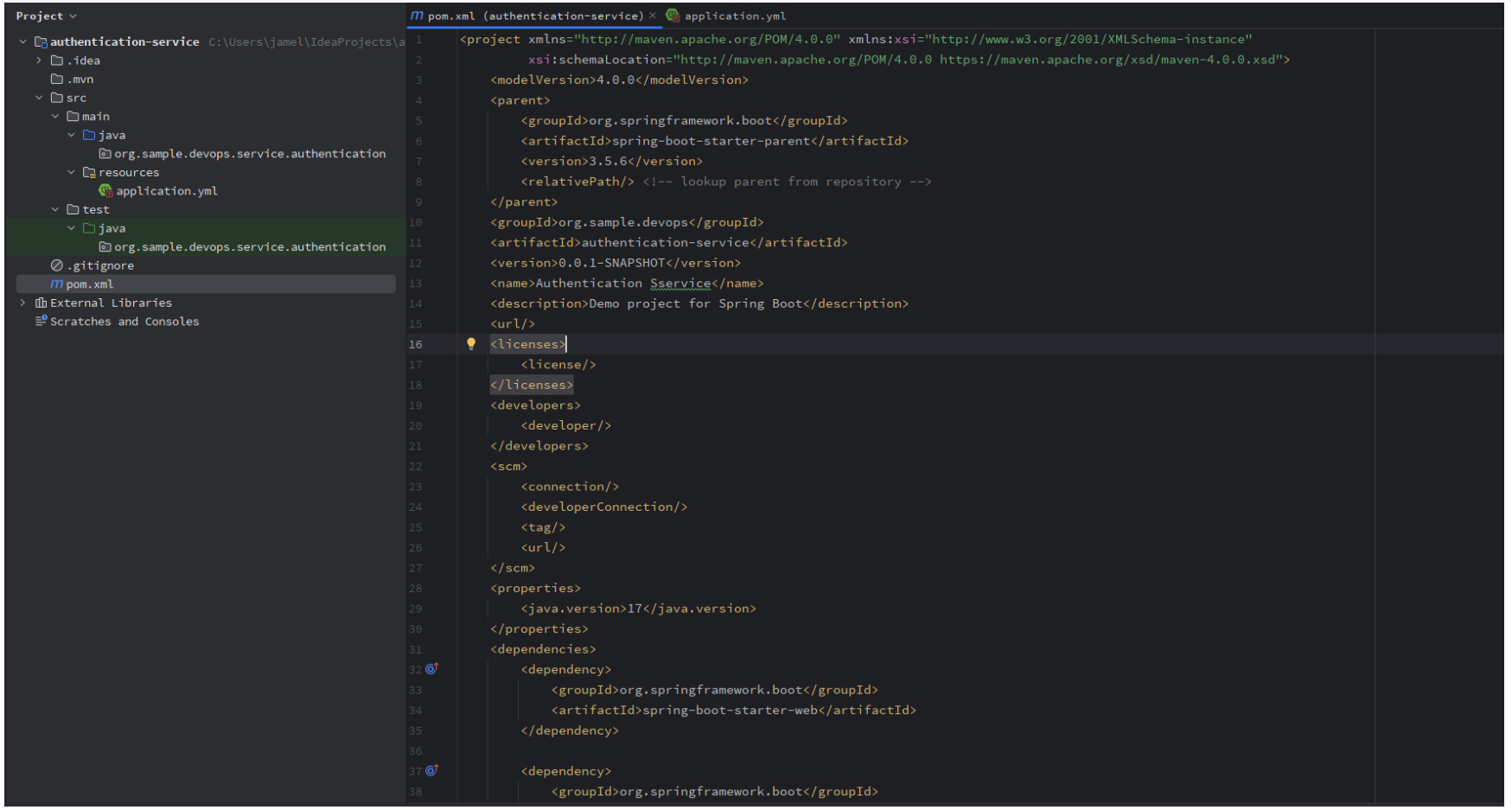
https://start.spring.io/



Copiez dans le pom.xml de votre projet

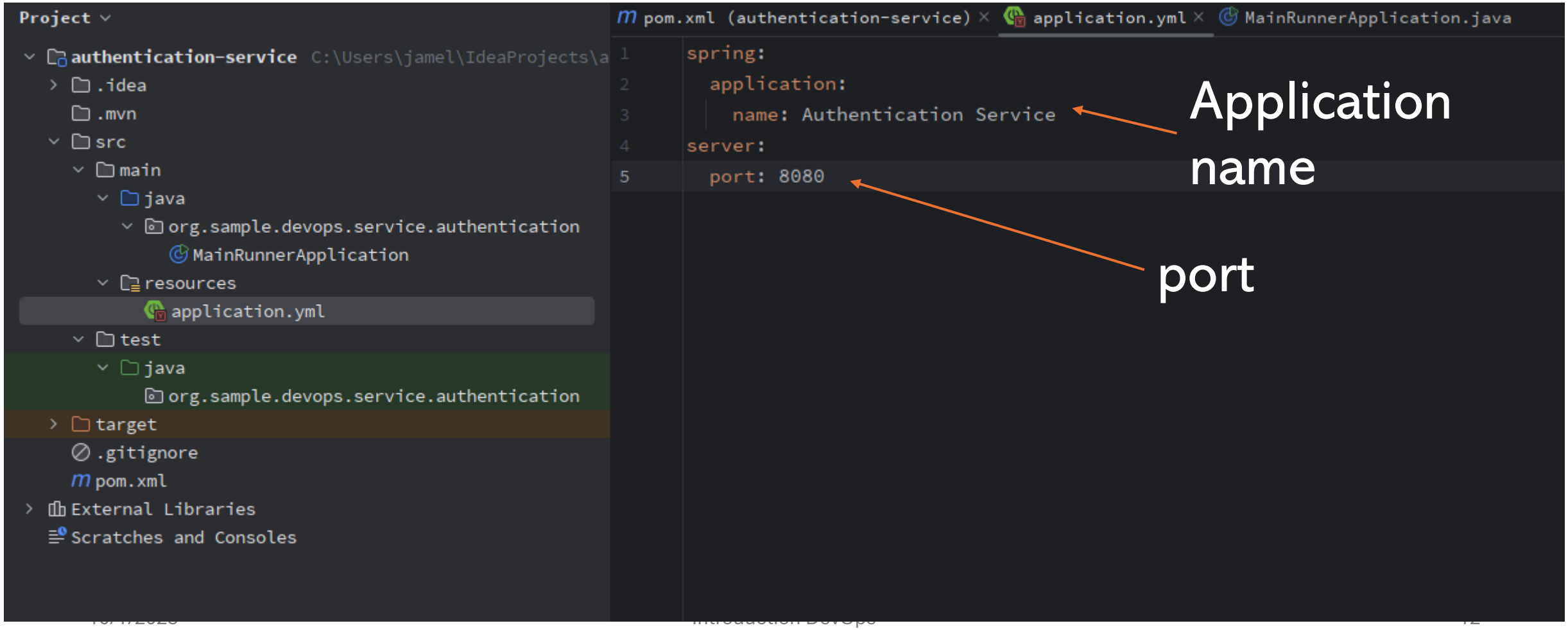
Copiez les dépendances dans le pom.xml

IntelliJ



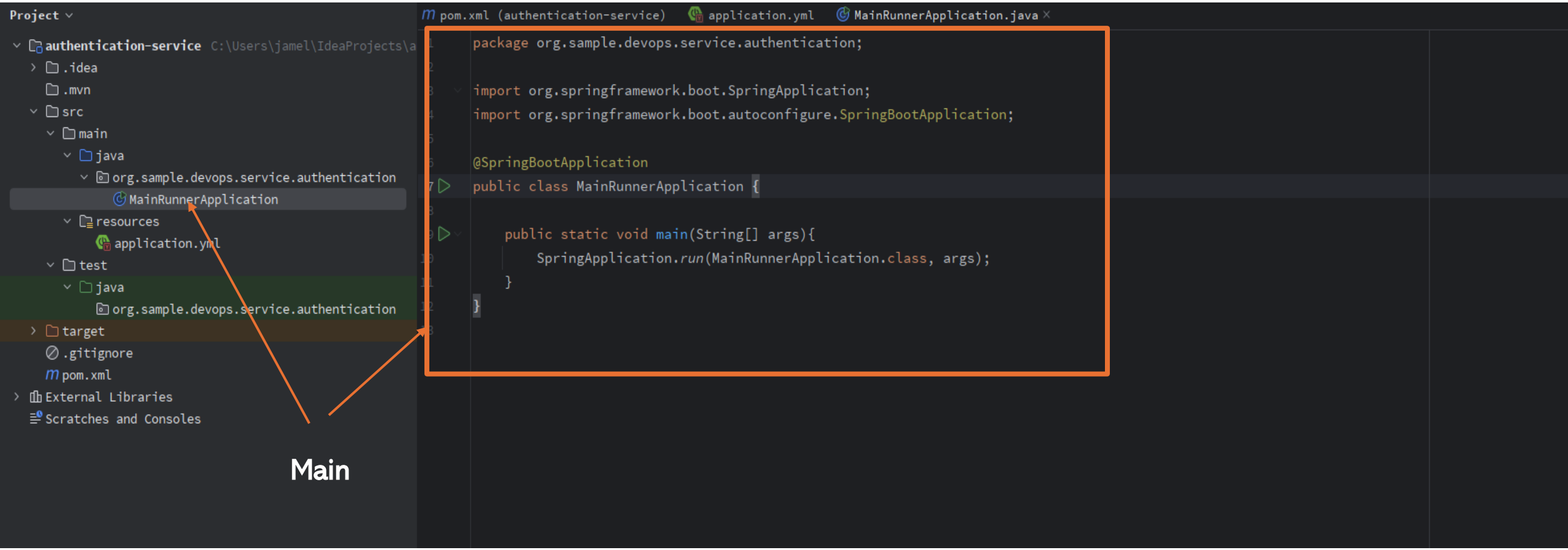
Ajouter un fichier de config application.yml

IntelliJ



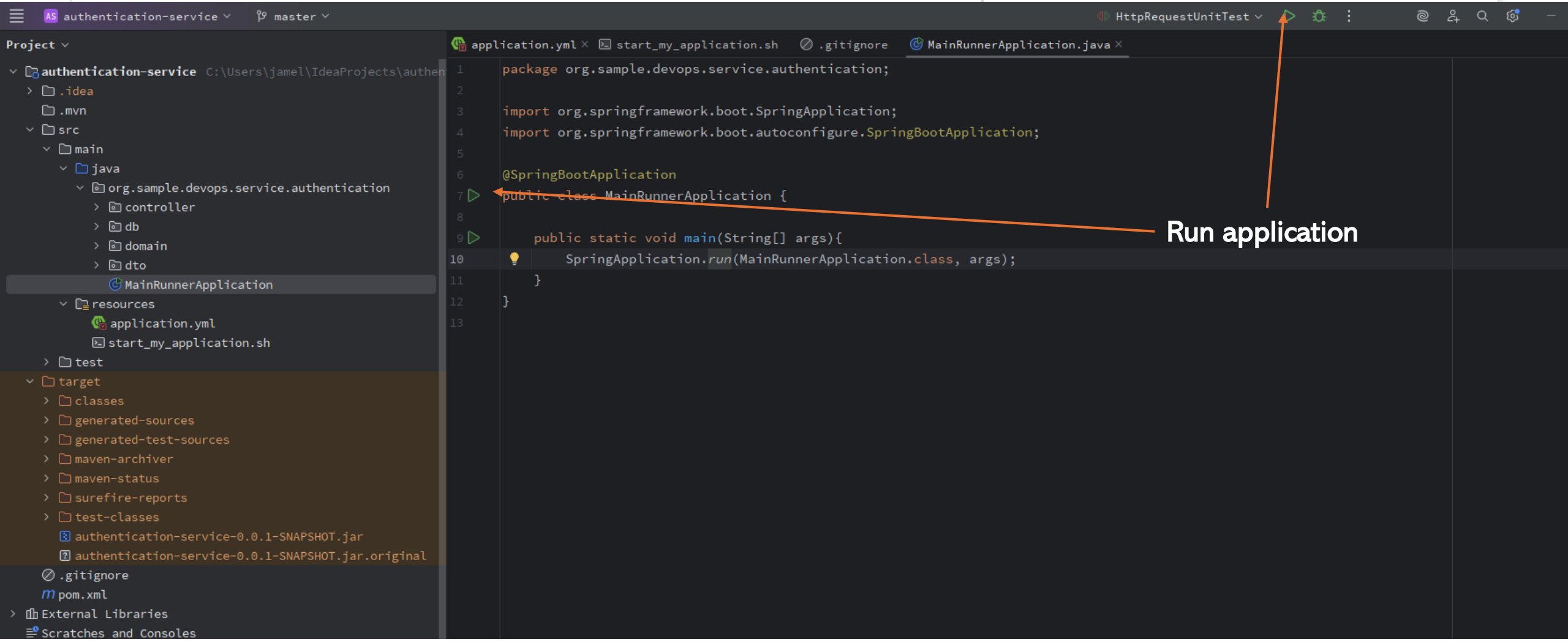
Ajouter la lanceur Main

IntelIJ



Lancez l'application

IntelIJ

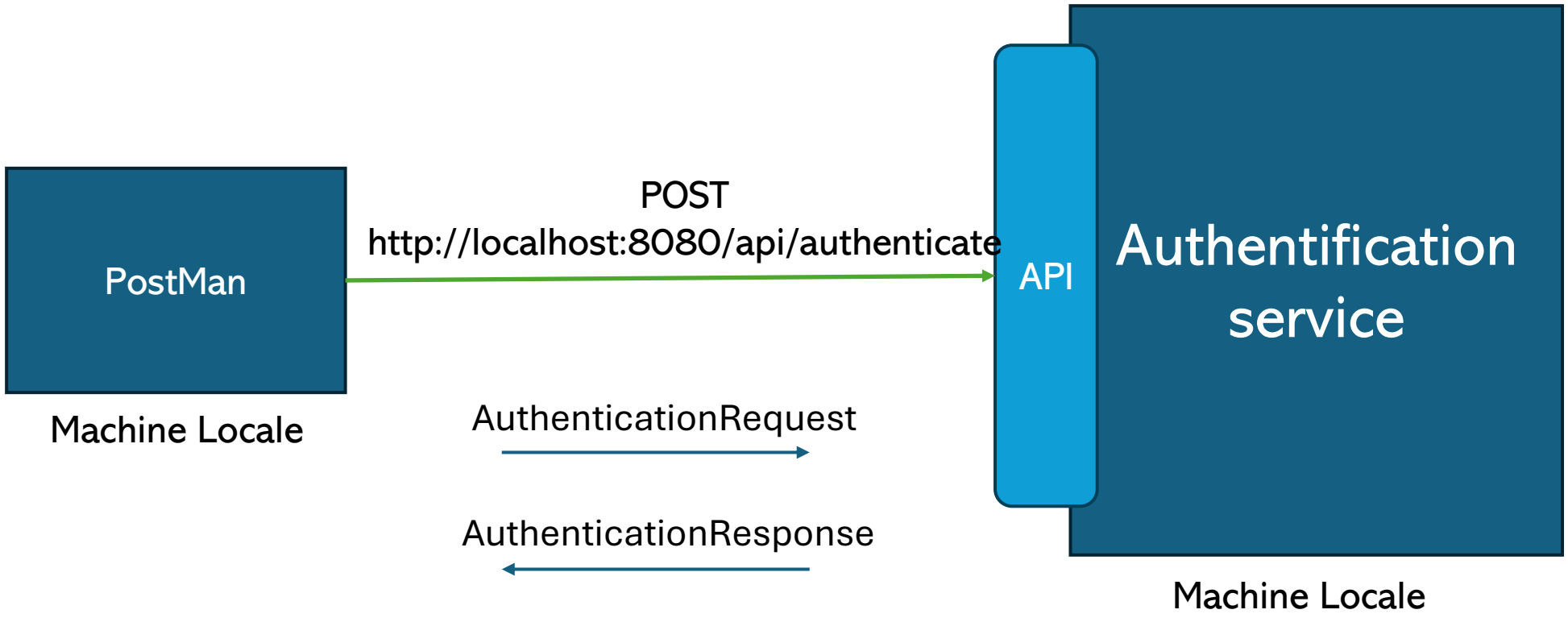


Tester l'application

Browser: Firefox
http://localhost:8080

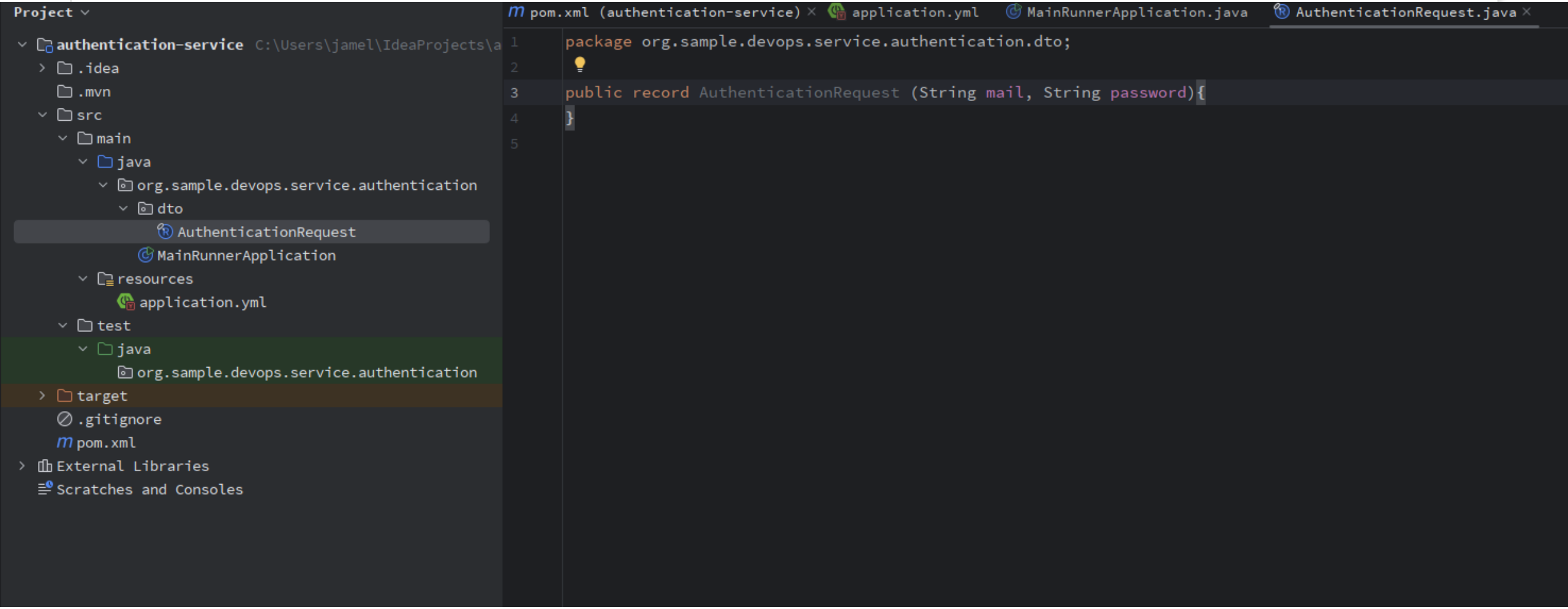
Erreur 404: Pas d'API exposée

Ajoutez un Controller (API Endpoint /authenticate)



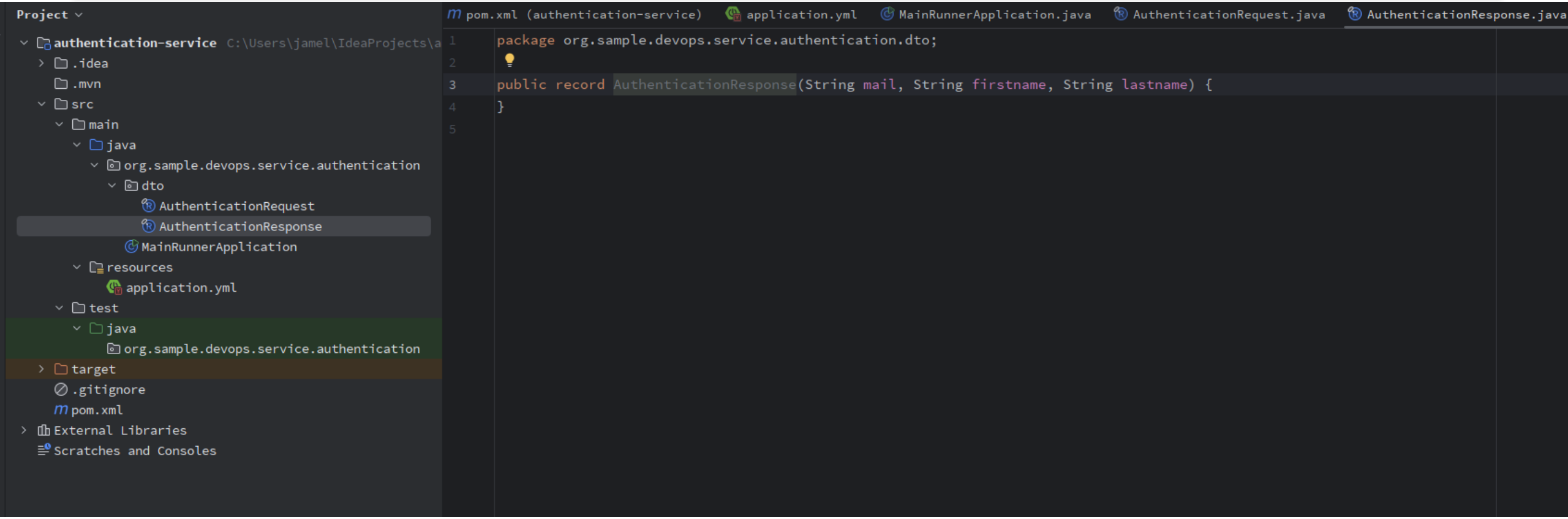
Création du DTO AuthenticationRequest

IntelliJ



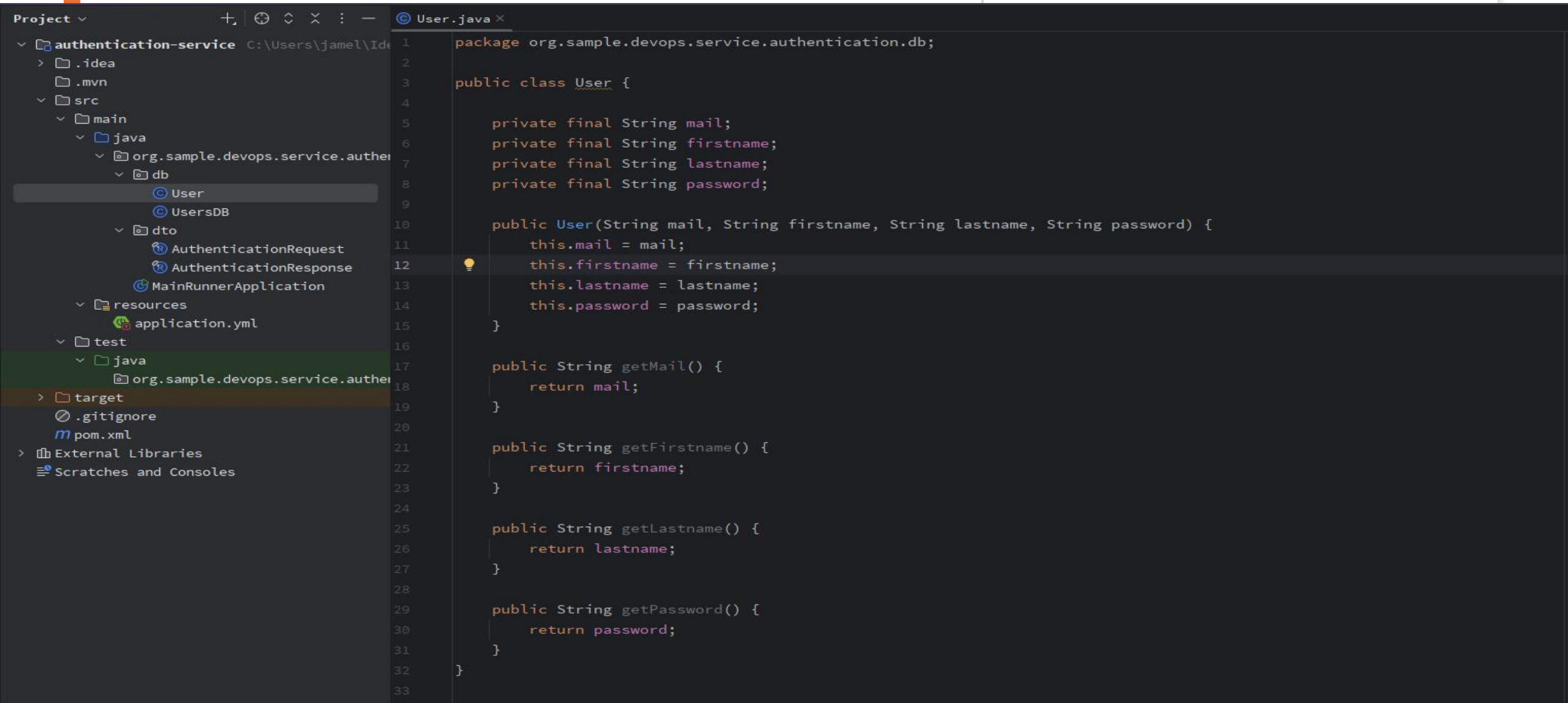
Création du DTO AuthenticationResponse

IntelliJ



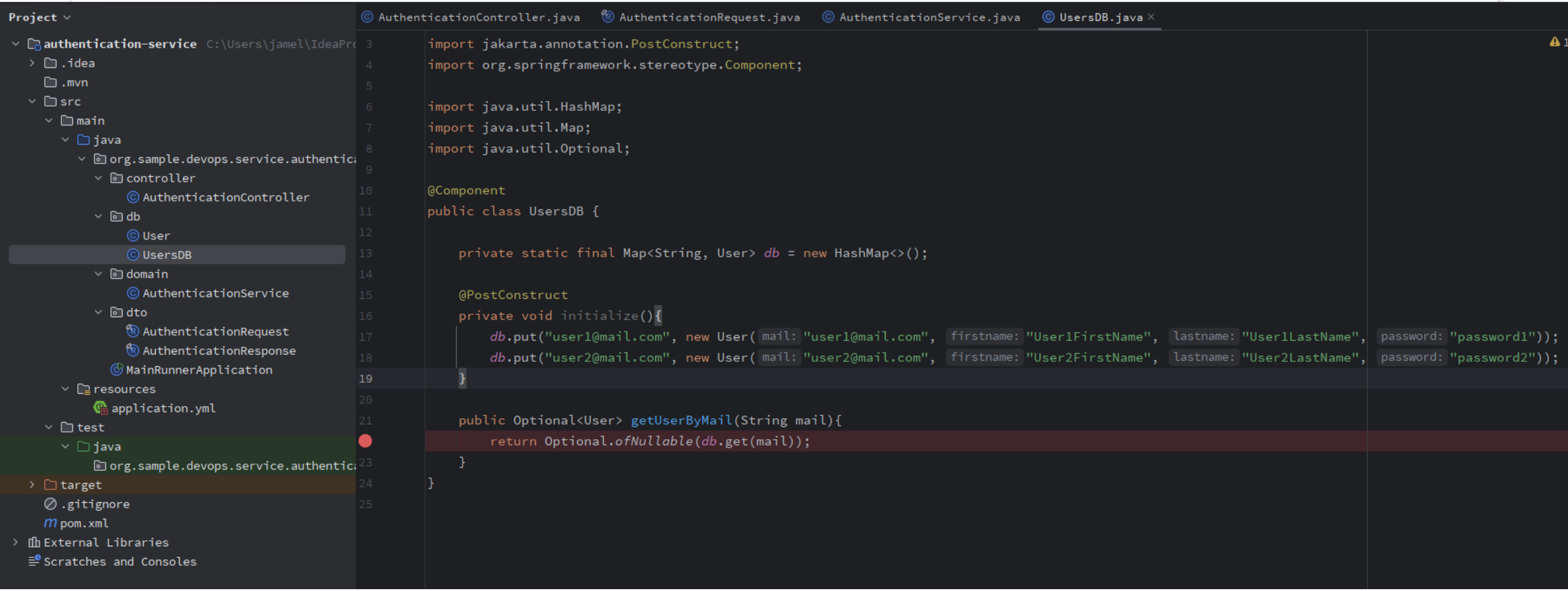
Création du Bean User

IntelIJ



Création de la DB User

IntelIJ



Création du service domaine

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Création du Controller Rest

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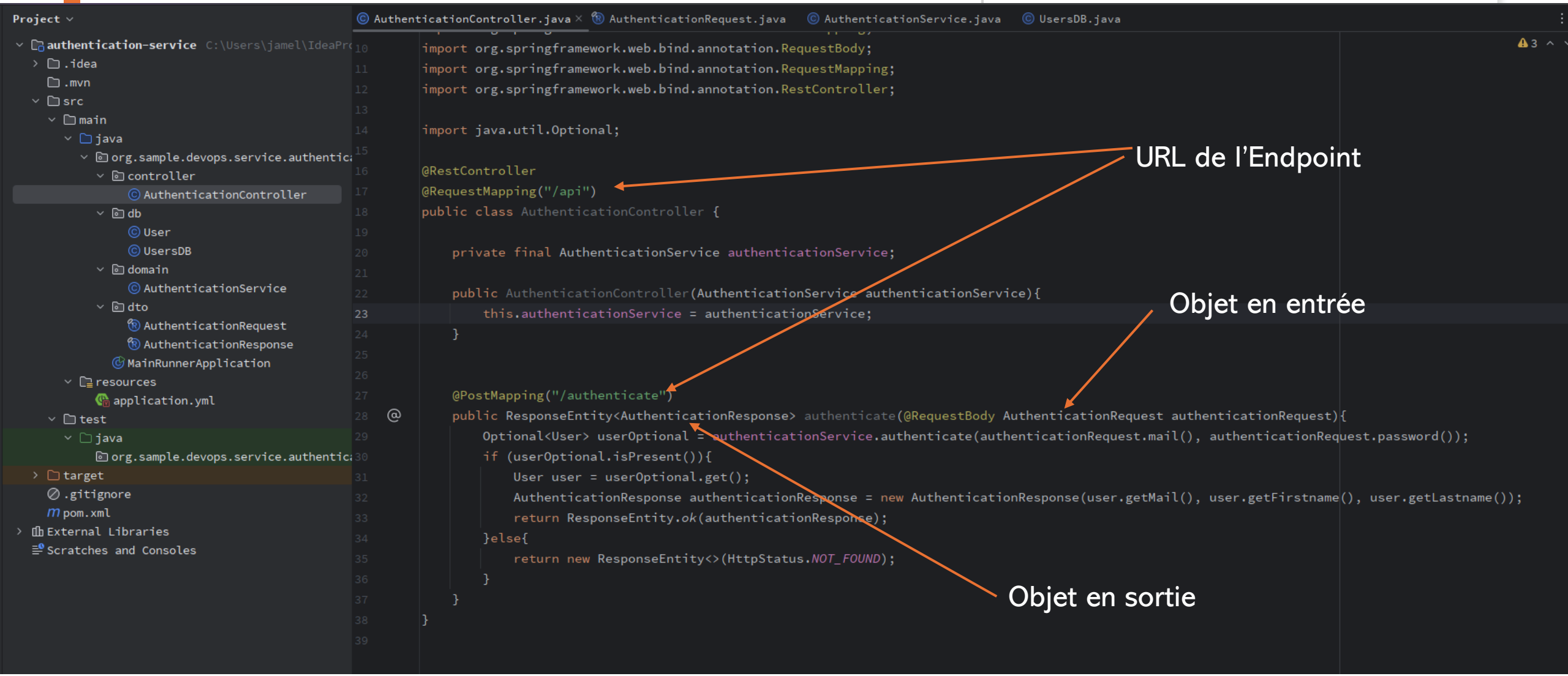
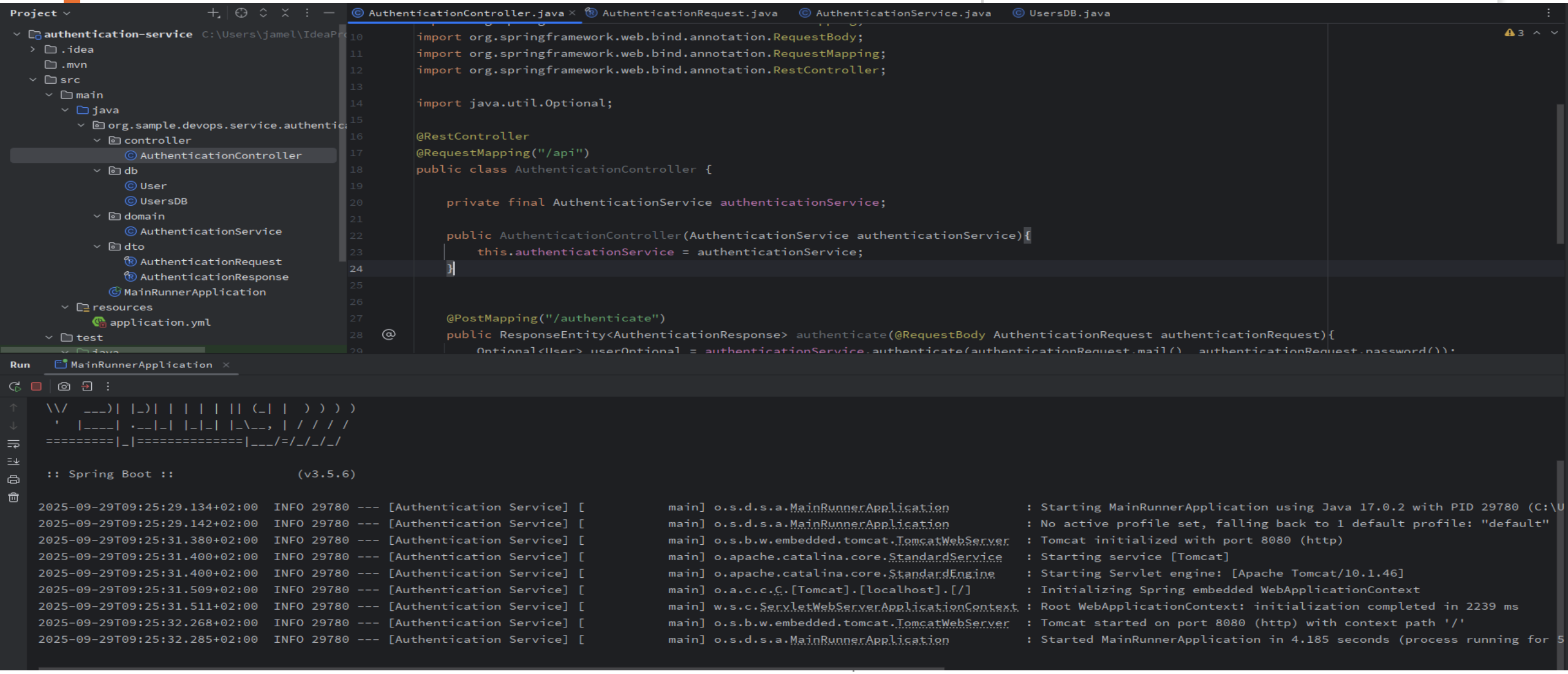


Lancement du Projet

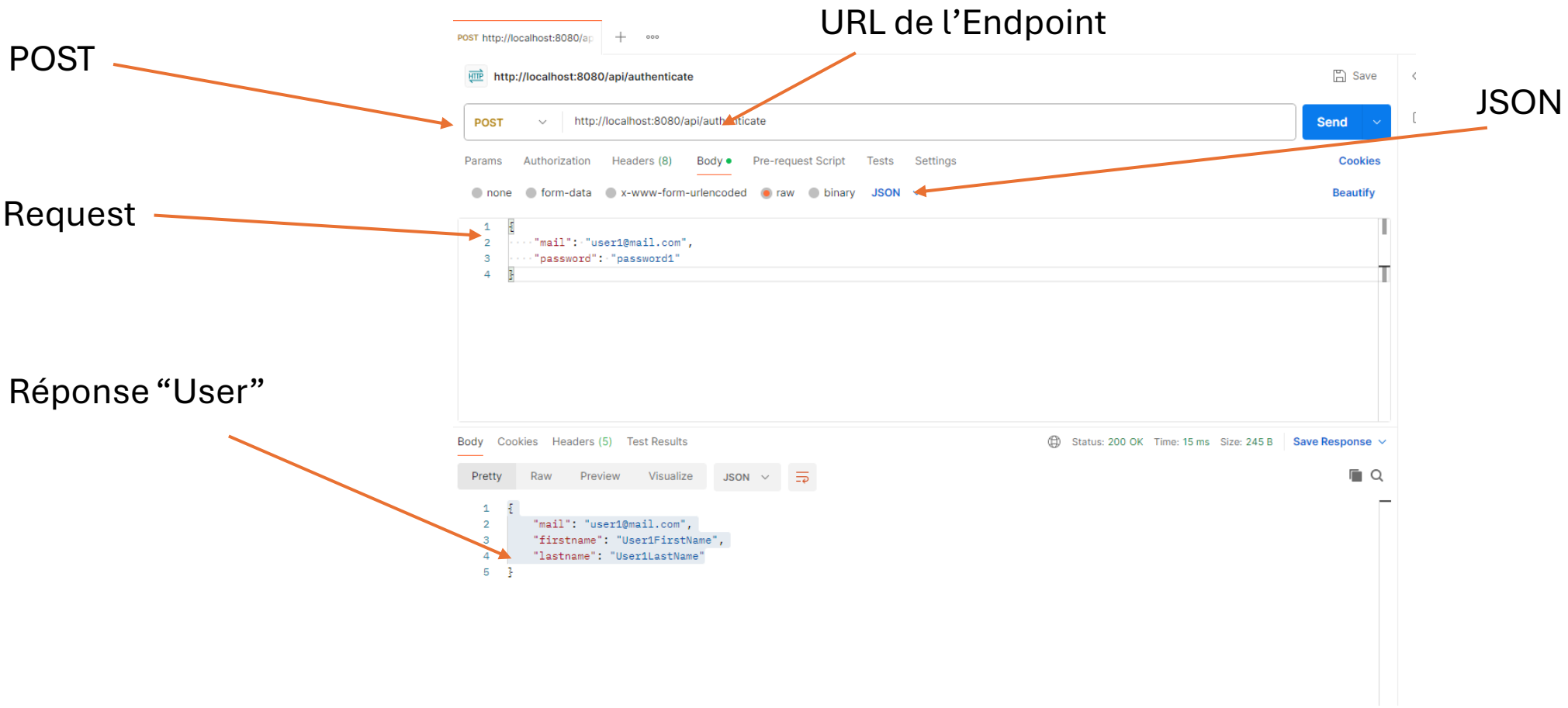
IntelliJ



Testez l'Endpoint

Postman

http://localhost:8080

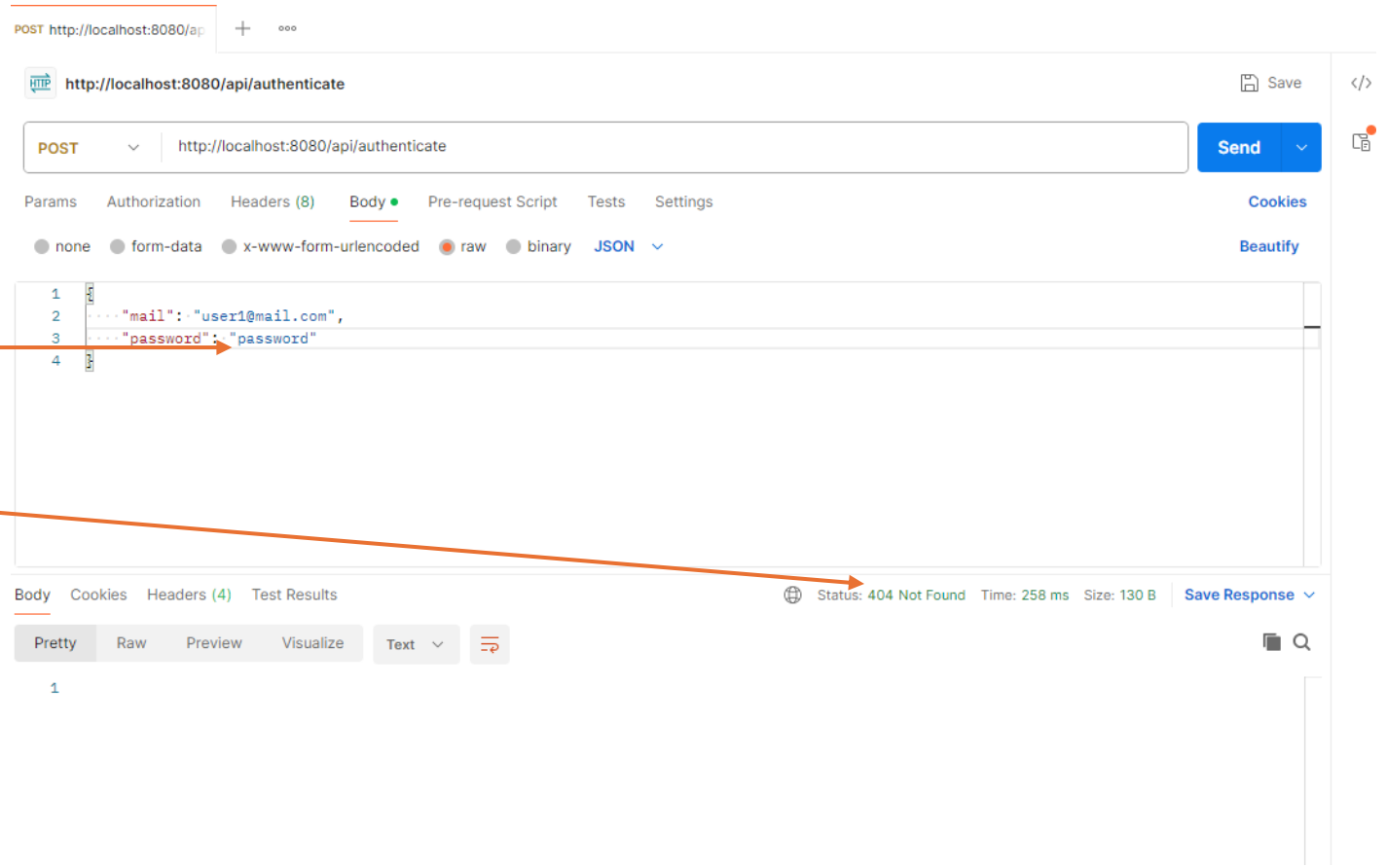


Testez l’Endpoint

Postman

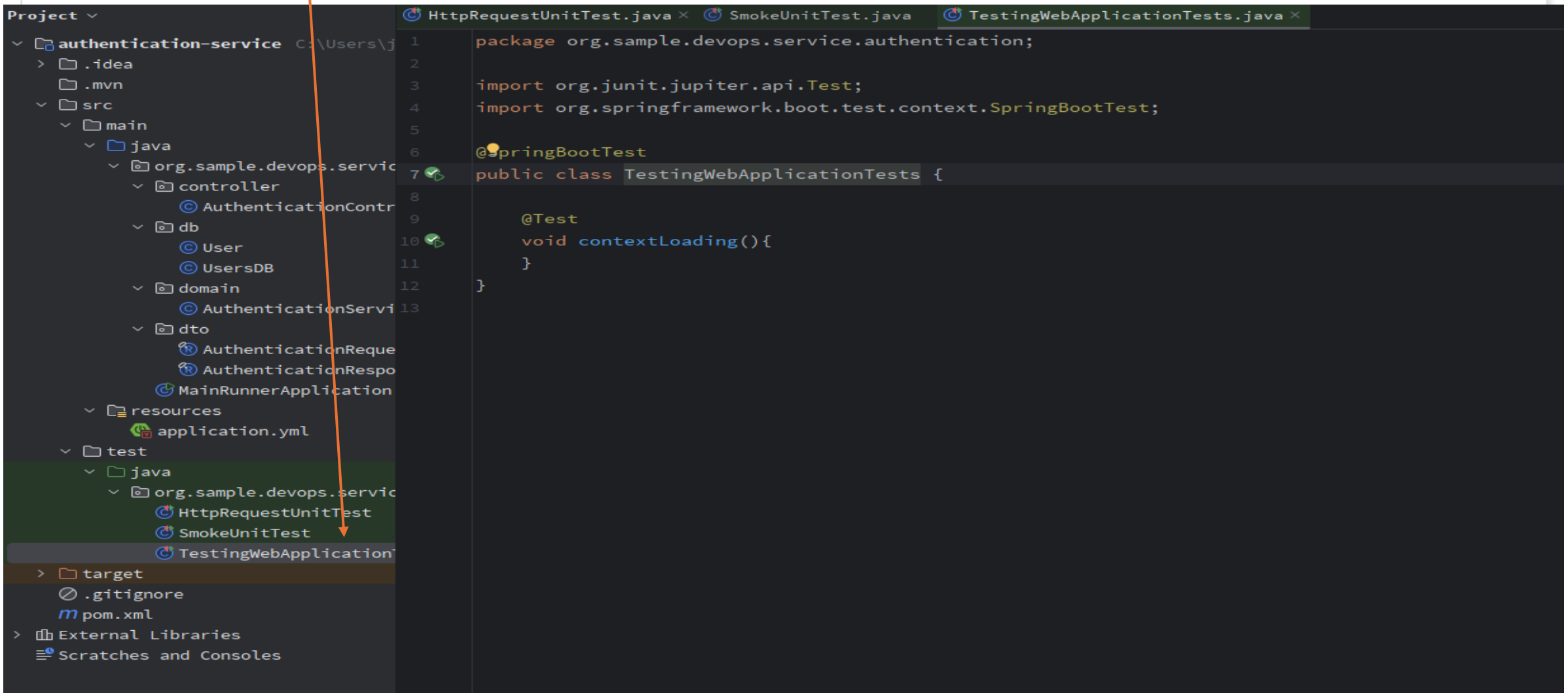
Mot de passe incorrect

Erreur 404



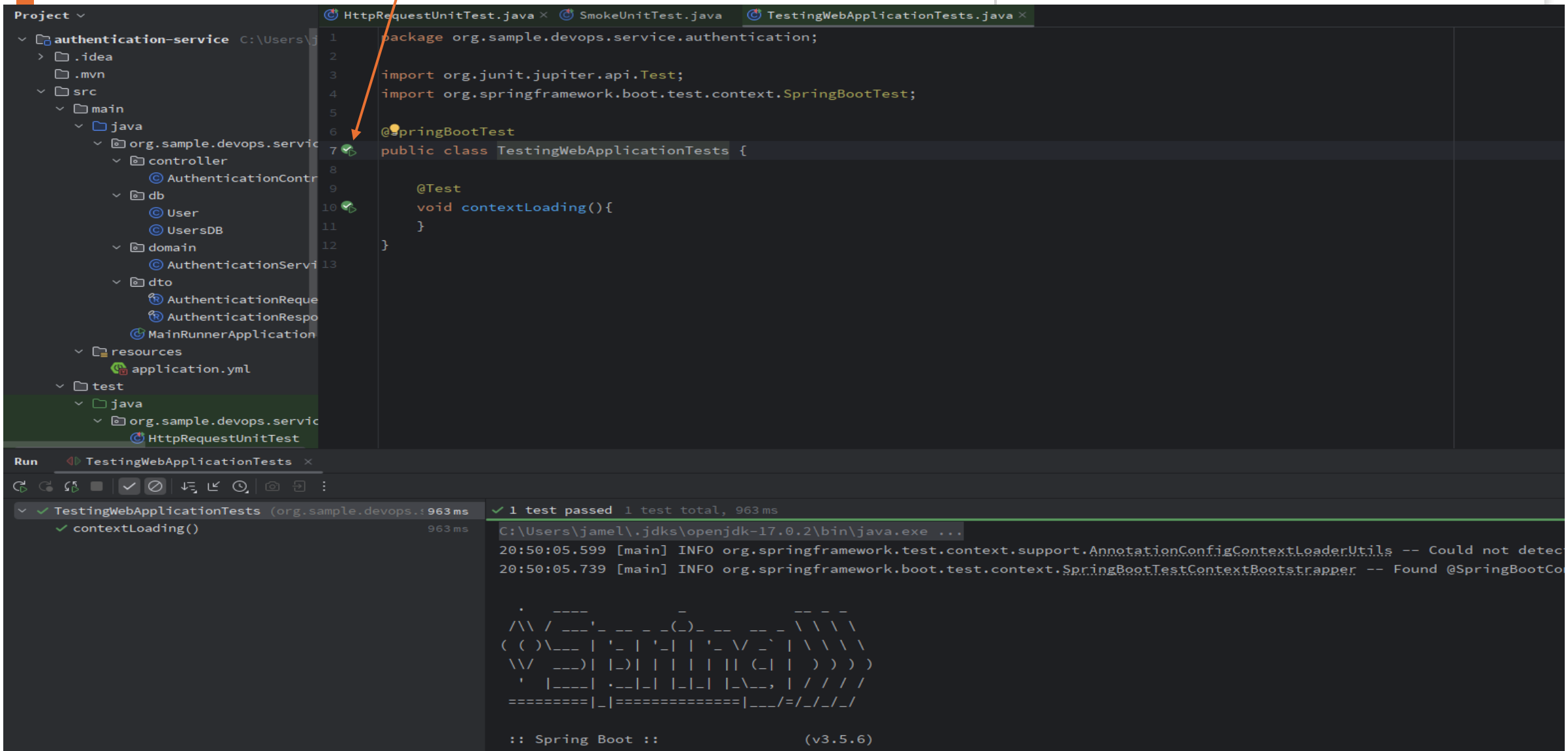
Ajoutez un test Unitaire

IntellIJ



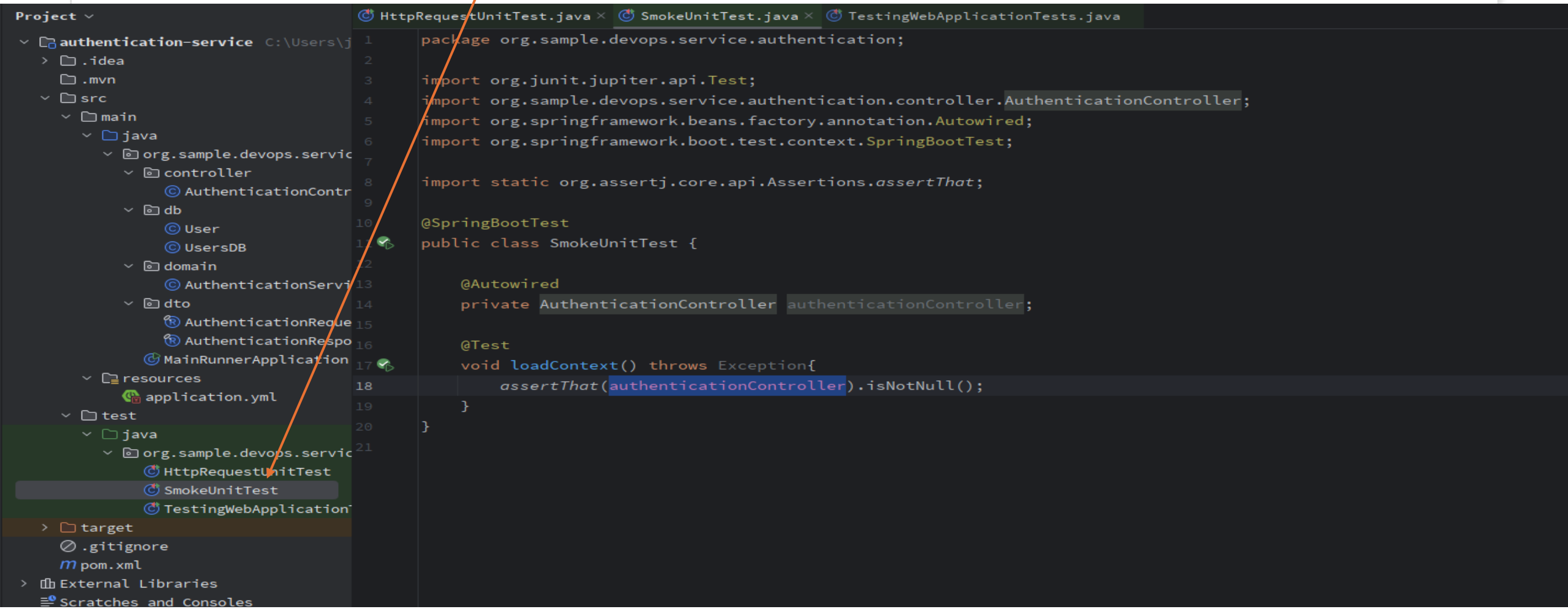
Lancez le test Unitaire

IntellIJ



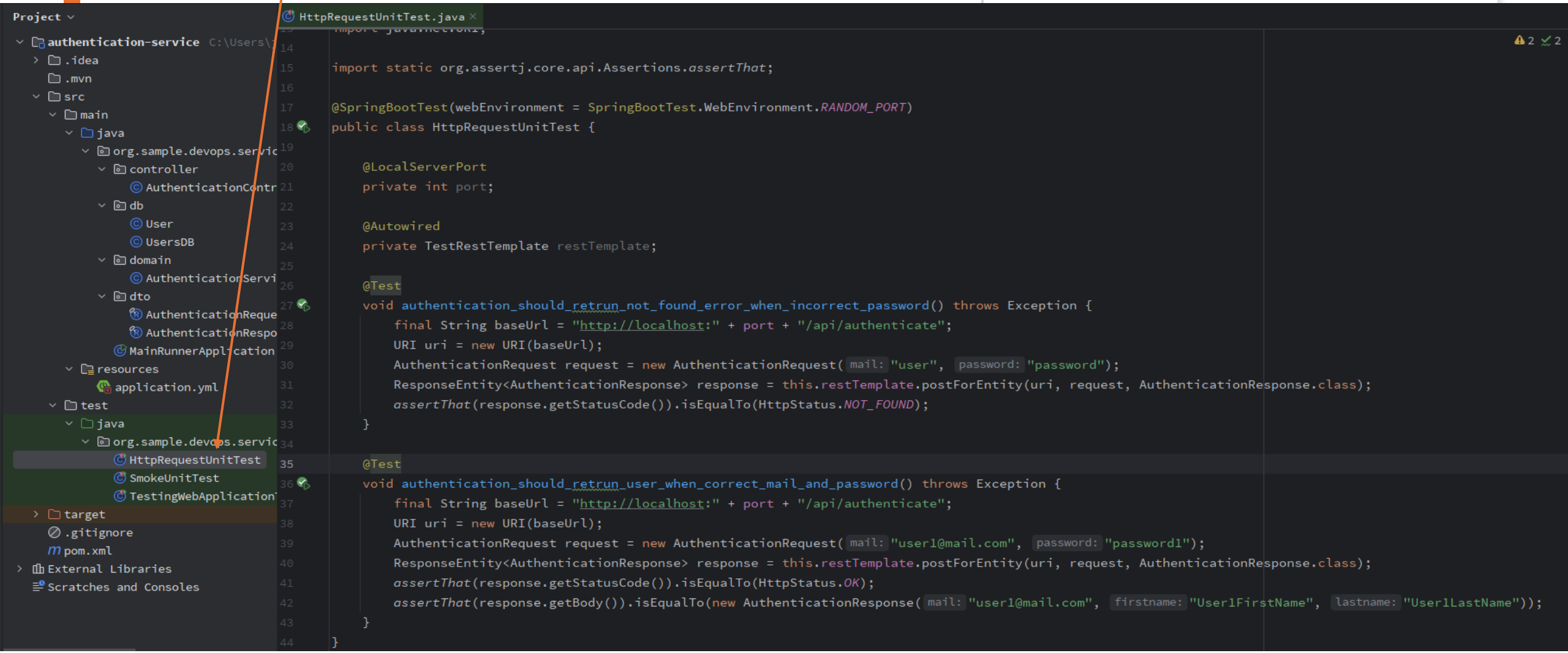
Ajoutez un test Unitaire

IntellIJ



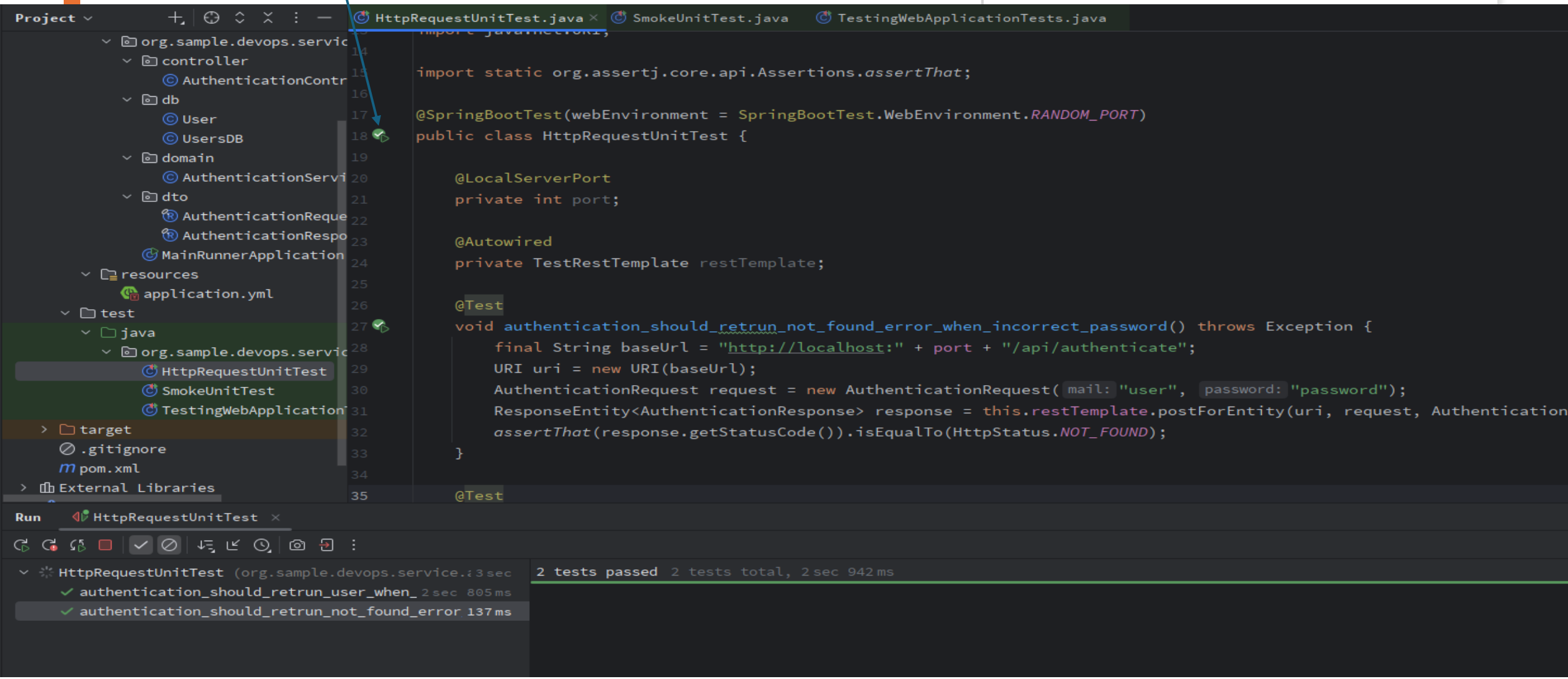
Ajoutez un test Unitaire

IntellIJ



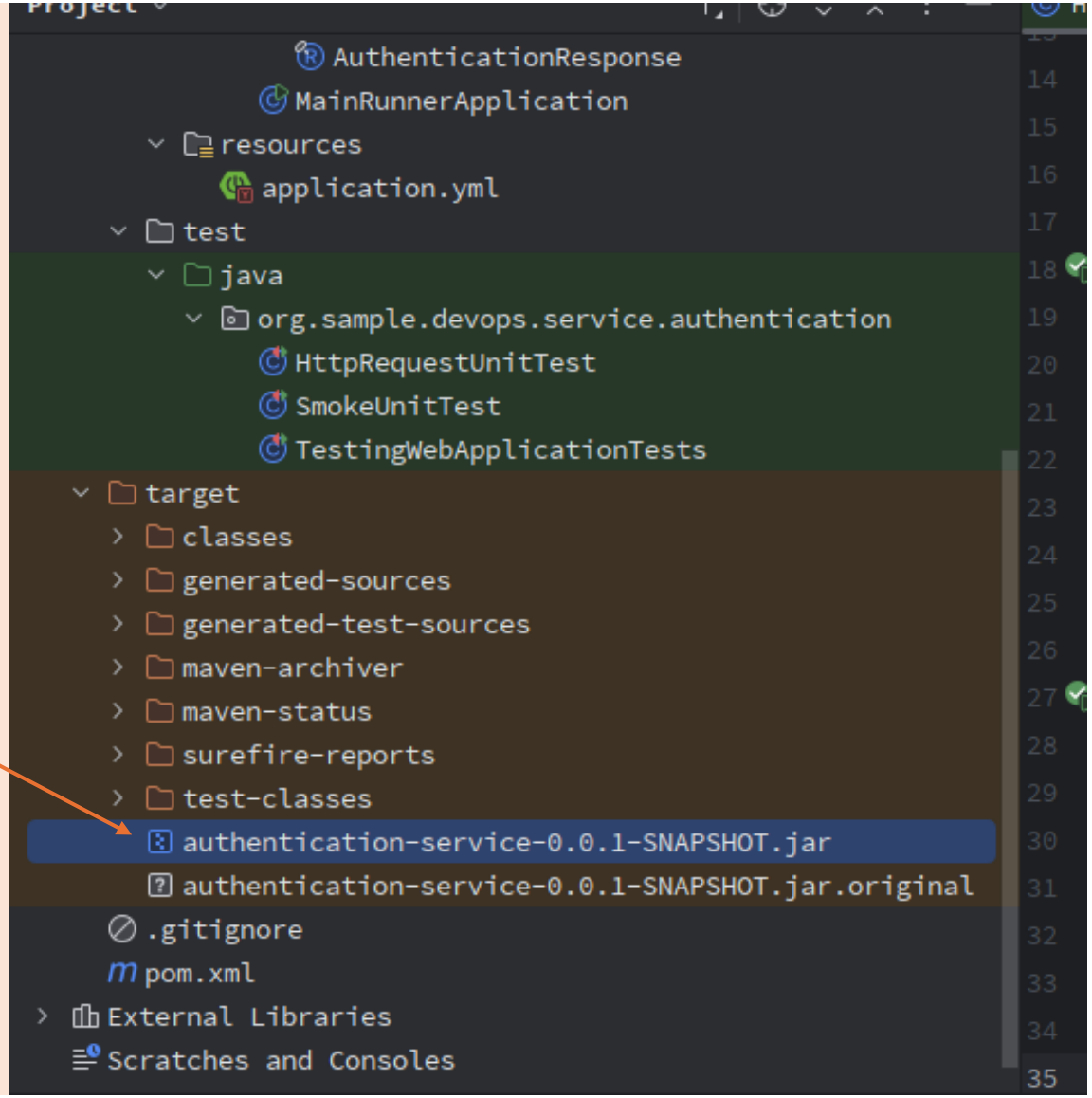
Lancez le test Unitaire

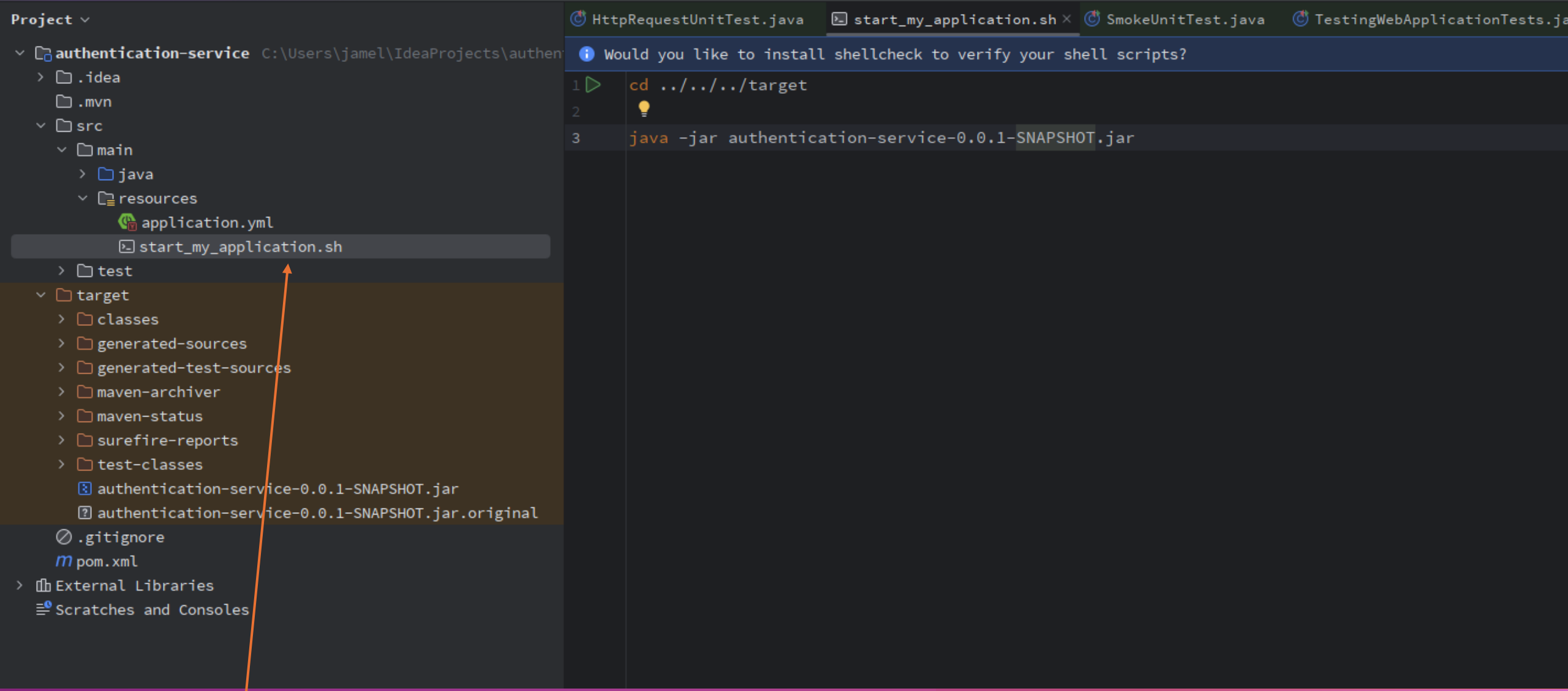
IntellIJ



Livrable

IntellIJ





Script de lancement du livrable

IntellIJ

```
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( ( )\___ | '_ | '_| | '_ \/ _` | \ \ \ \
 \\/  ___)| |_)| | | | | || (_| |  ) ) ) )
  '  |____| .__|_| |_|_| |_\__, | / / / /
 =========|_|==============|___/=/_/_/_/

 :: Spring Boot ::                (v3.5.6)

2025-09-30T08:47:46.964+02:00  INFO 25796 --- [Authentication Service] [           main] o.s.d.s.a.MainRunnerApplic
ation          : Starting MainRunnerApplication v0.0.1-SNAPSHOT using Java 17.0.2 with PID 25796 (C:\Users\jamel\Id
eaProjects\authentication-service\target\authentication-service-0.0.1-SNAPSHOT.jar started by jamel in C:\Users\jam
el\IdeaProjects\authentication-service\target)
2025-09-30T08:47:46.971+02:00  INFO 25796 --- [Authentication Service] [           main] o.s.d.s.a.MainRunnerApplic
ation          : No active profile set, falling back to 1 default profile: "default"
2025-09-30T08:47:48.089+02:00  INFO 25796 --- [Authentication Service] [           main] o.s.b.w.embedded.tomcat.To
mcatWebServer  : Tomcat initialized with port 8080 (http)
2025-09-30T08:47:48.104+02:00  INFO 25796 --- [Authentication Service] [           main] o.apache.catalina.core.Sta
ndardService   : Starting service [Tomcat]
2025-09-30T08:47:48.104+02:00  INFO 25796 --- [Authentication Service] [           main] o.apache.catalina.core.Sta
ndardEngine    : Starting Servlet engine: [Apache Tomcat/10.1.46]
2025-09-30T08:47:48.150+02:00  INFO 25796 --- [Authentication Service] [           main] o.a.c.c.C.[Tomcat].[localh
ost].[/]       : Initializing Spring embedded WebApplicationContext
2025-09-30T08:47:48.151+02:00  INFO 25796 --- [Authentication Service] [           main] w.s.c.ServletWebServerAppl
icationContext : Root WebApplicationContext: initialization completed in 1106 ms
```

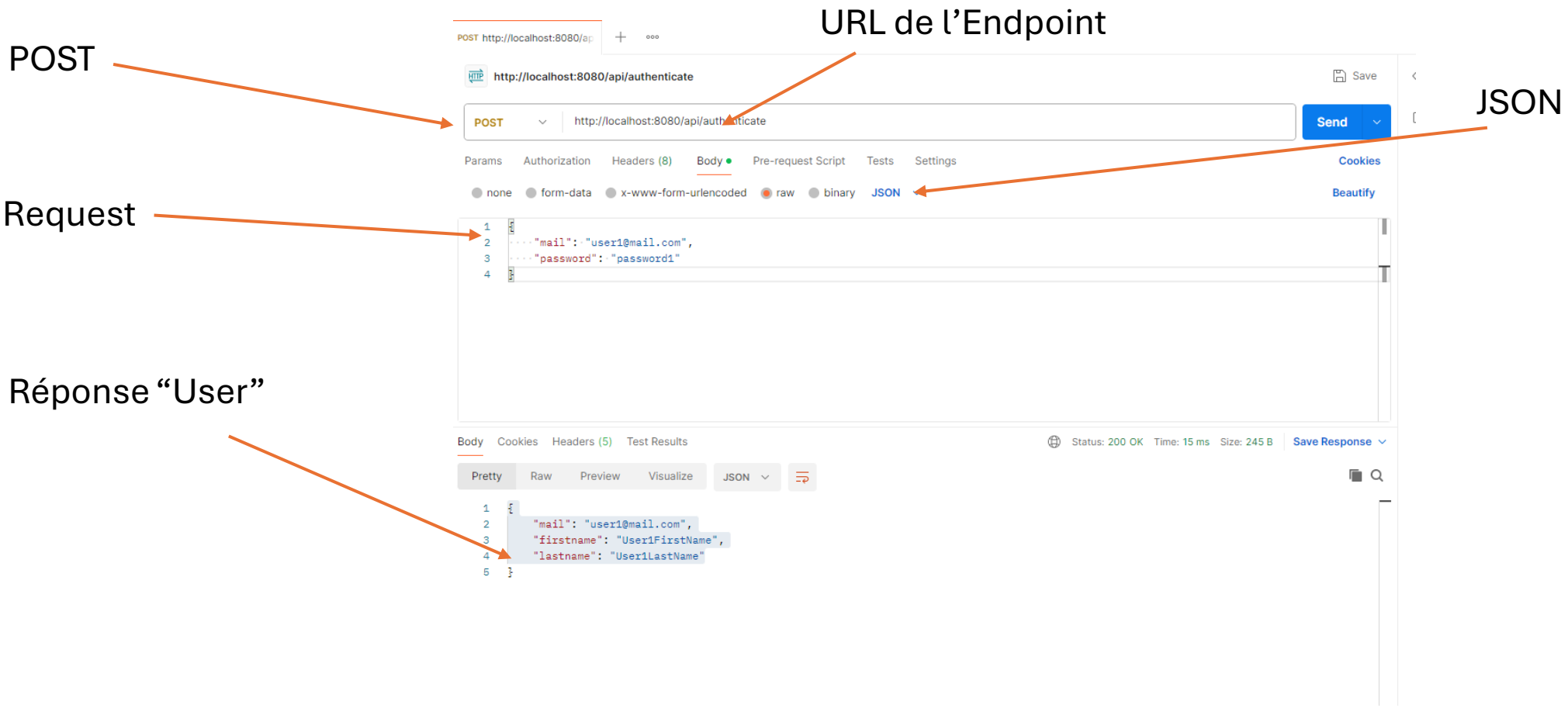
Lancement du script

IntellIJ

Testez l'Endpoint

Postman

http://localhost:8080



Deployment manuelle sur chaque serveur

Scripting