**Week 5**

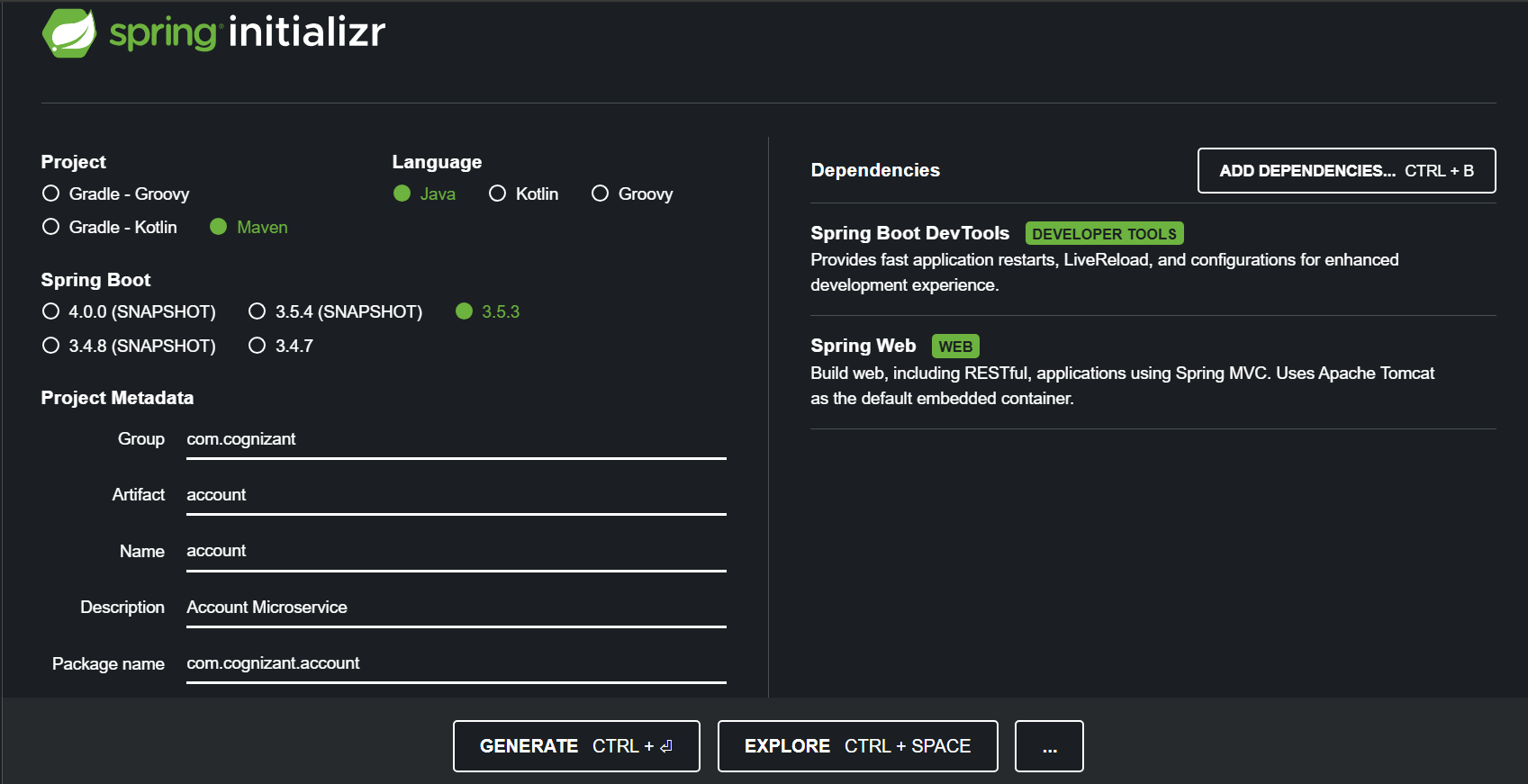
**Microservices with Spring Boot 3 and Spring Cloud**

**2. Microservices with API gateway**

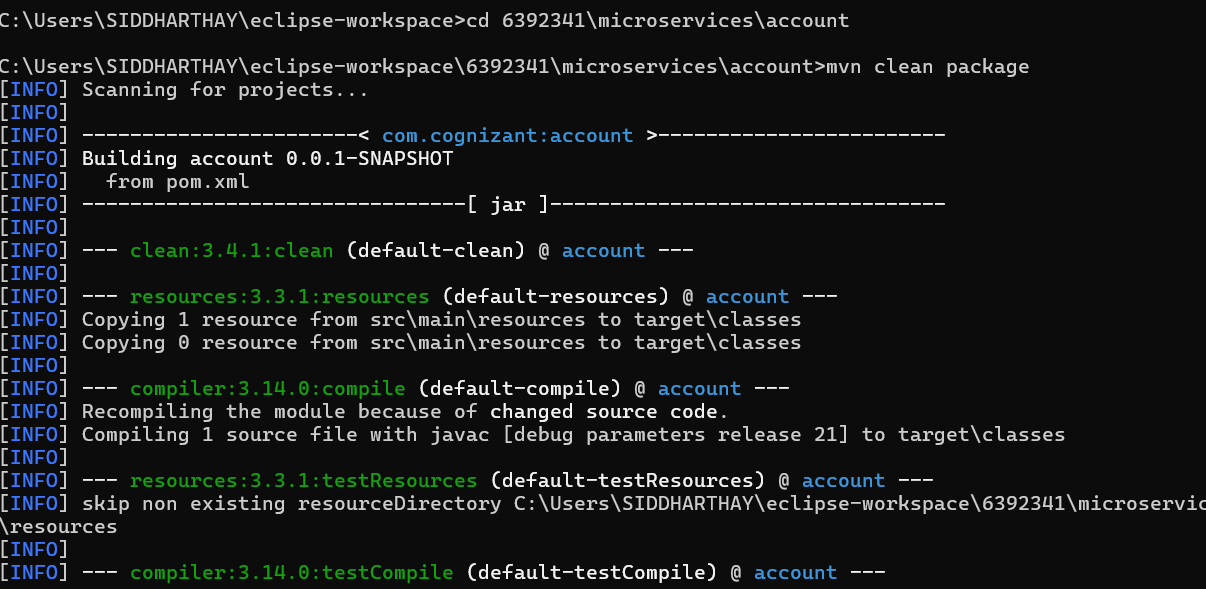
**1. Creating Microservices for account and loan HandsOn**

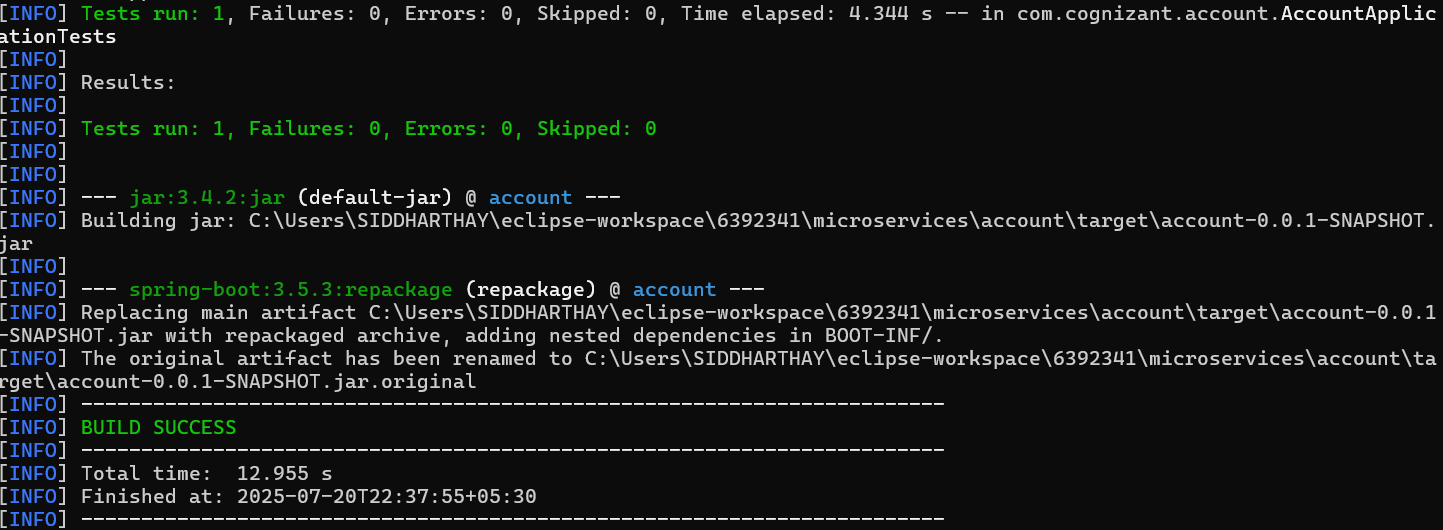
**(i)Account Microservice**

**Generating project using spring initializr:**

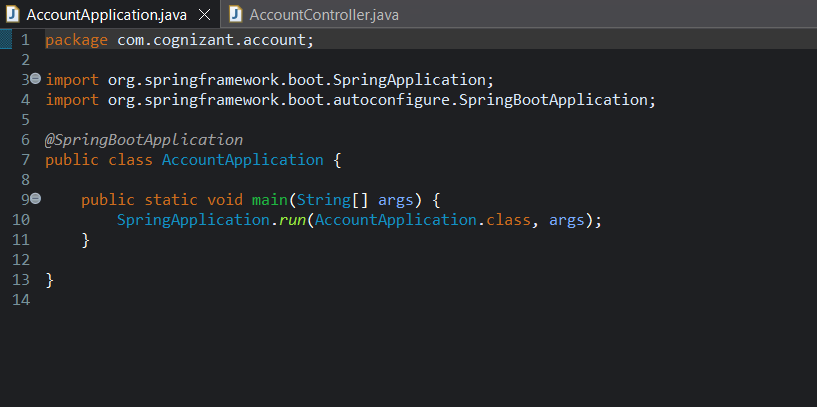
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**mvn clean package install:**

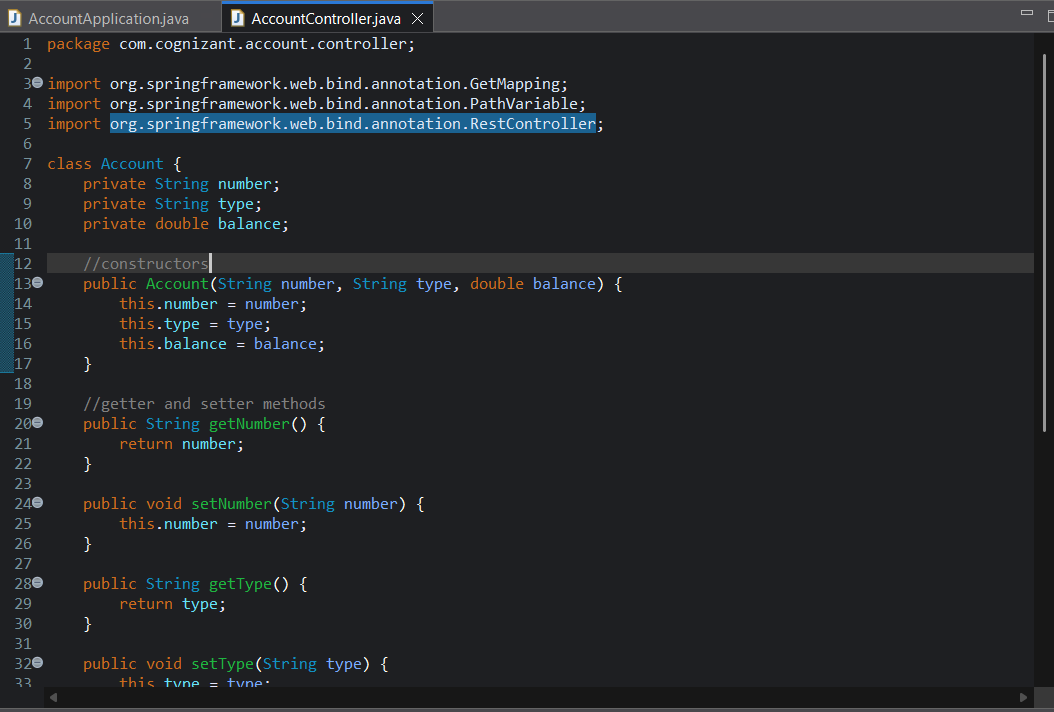
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**Main AccountApplication.java class:**

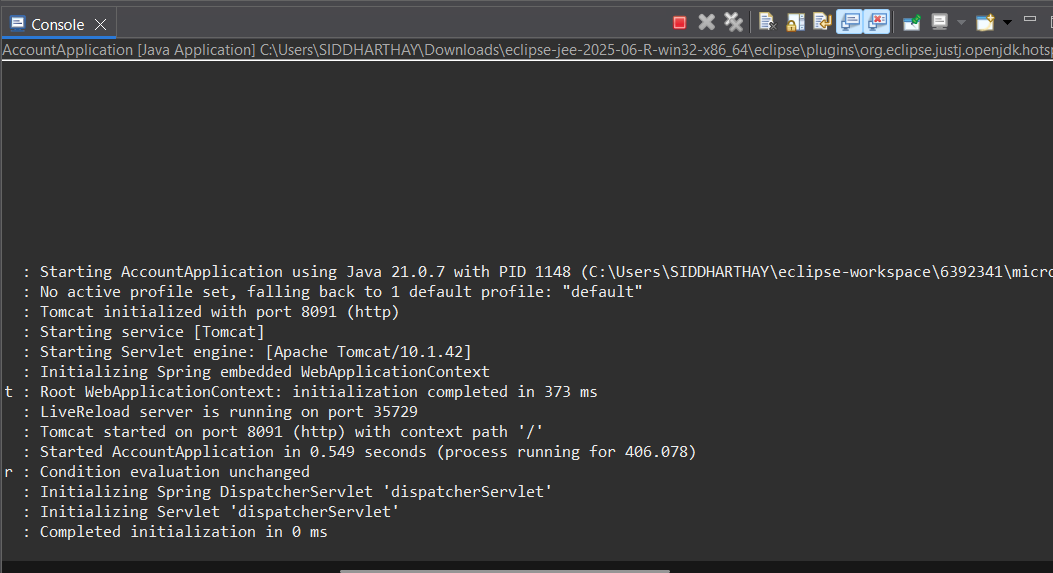
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**AccountController.java class:**

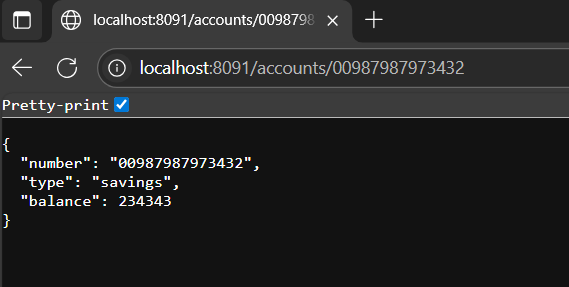
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**Console output:**

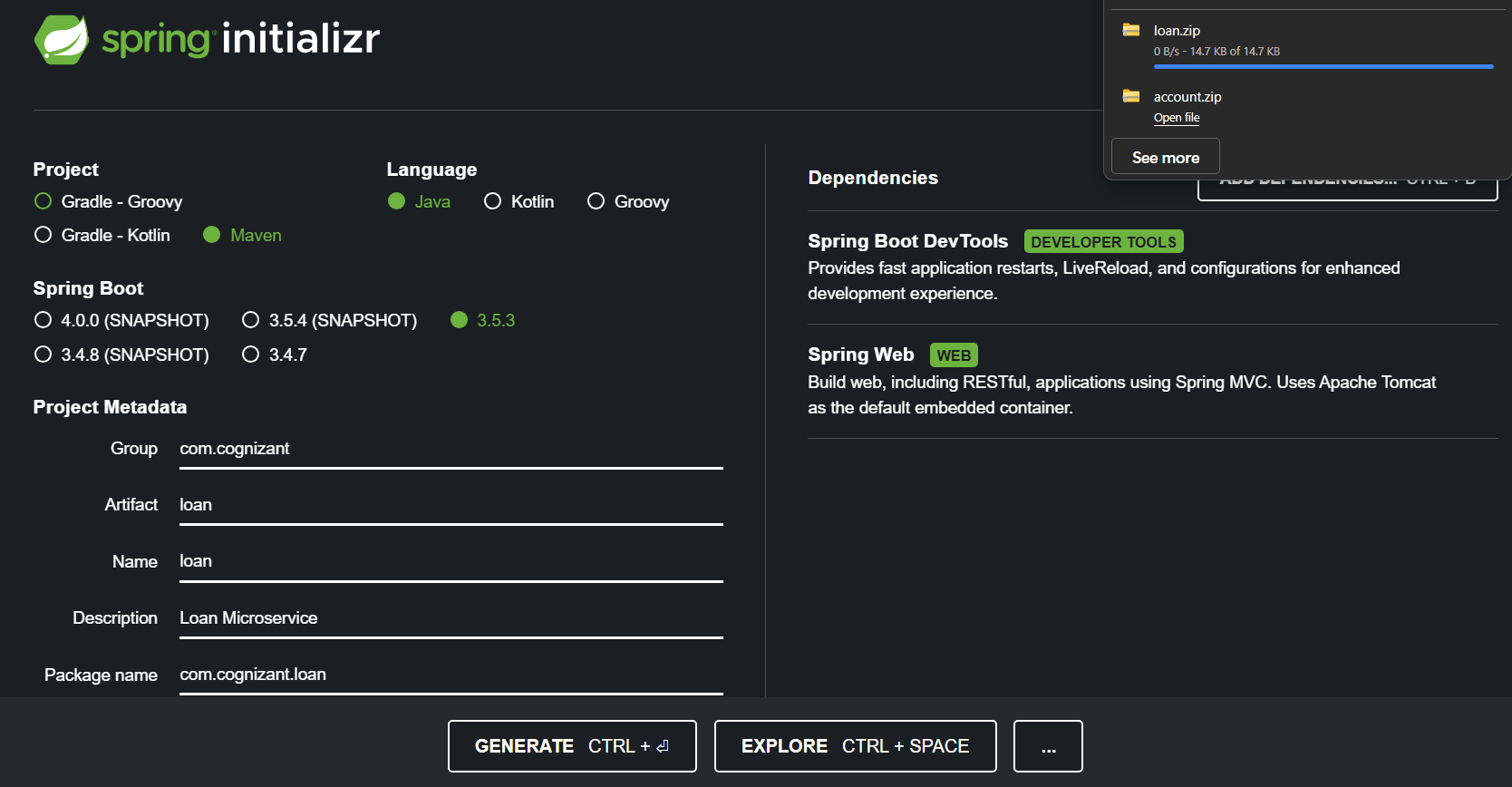
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**Testing in Web Browser:**

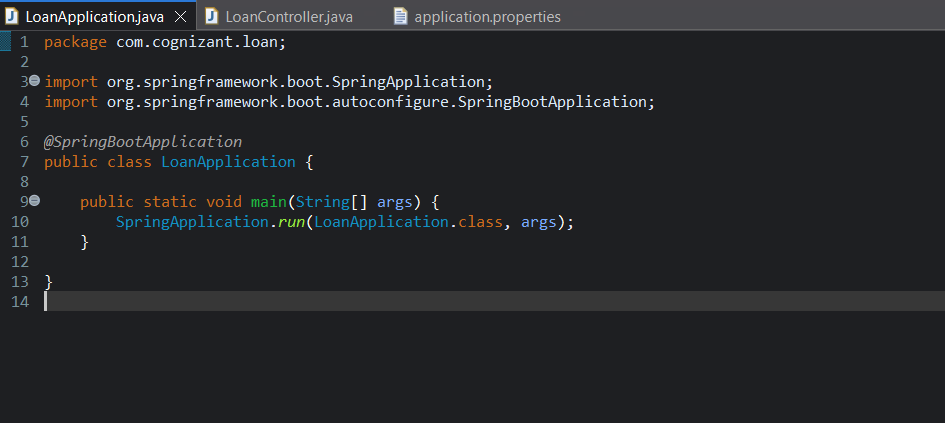
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**(ii) Loan Microservice**

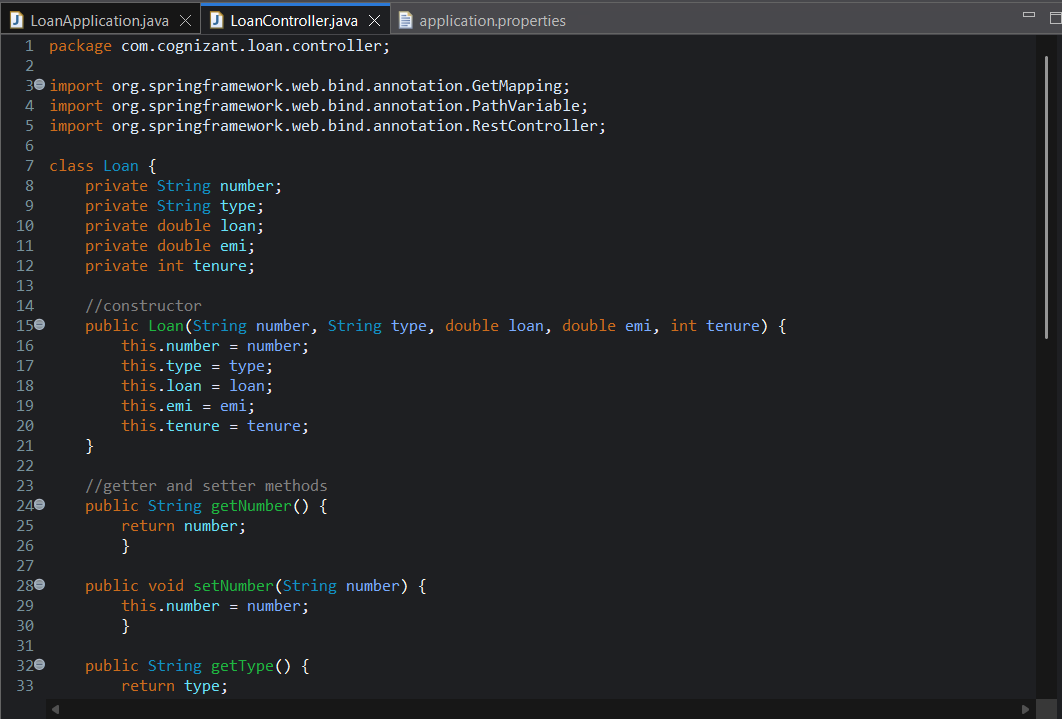
**Generating project using spring intializr:**

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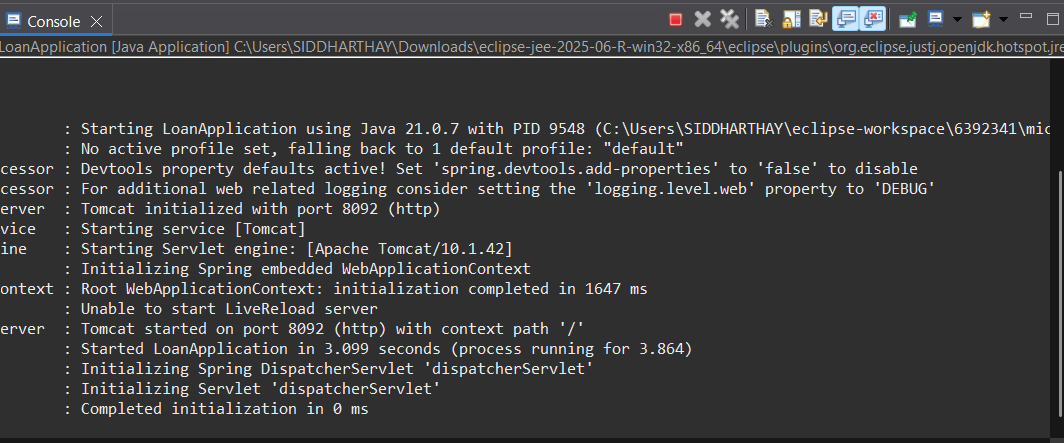
**Main LoanApplication.java class:**

****

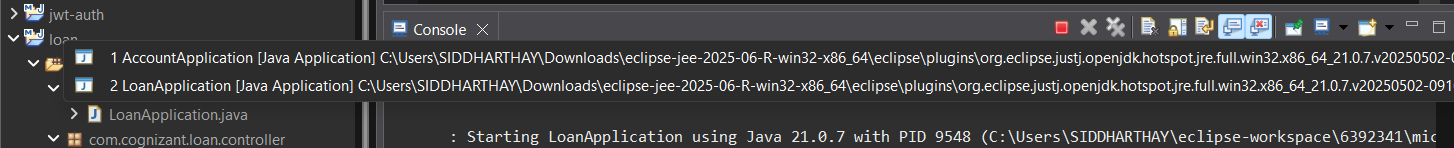
**LoanController.java class:**

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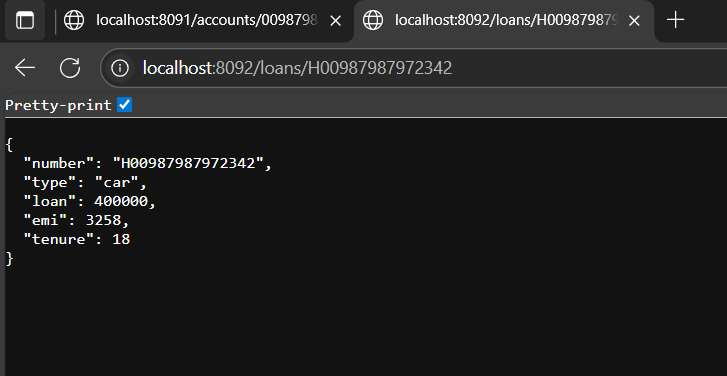
**Console output:**

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**Switching between console of Account and loan:**

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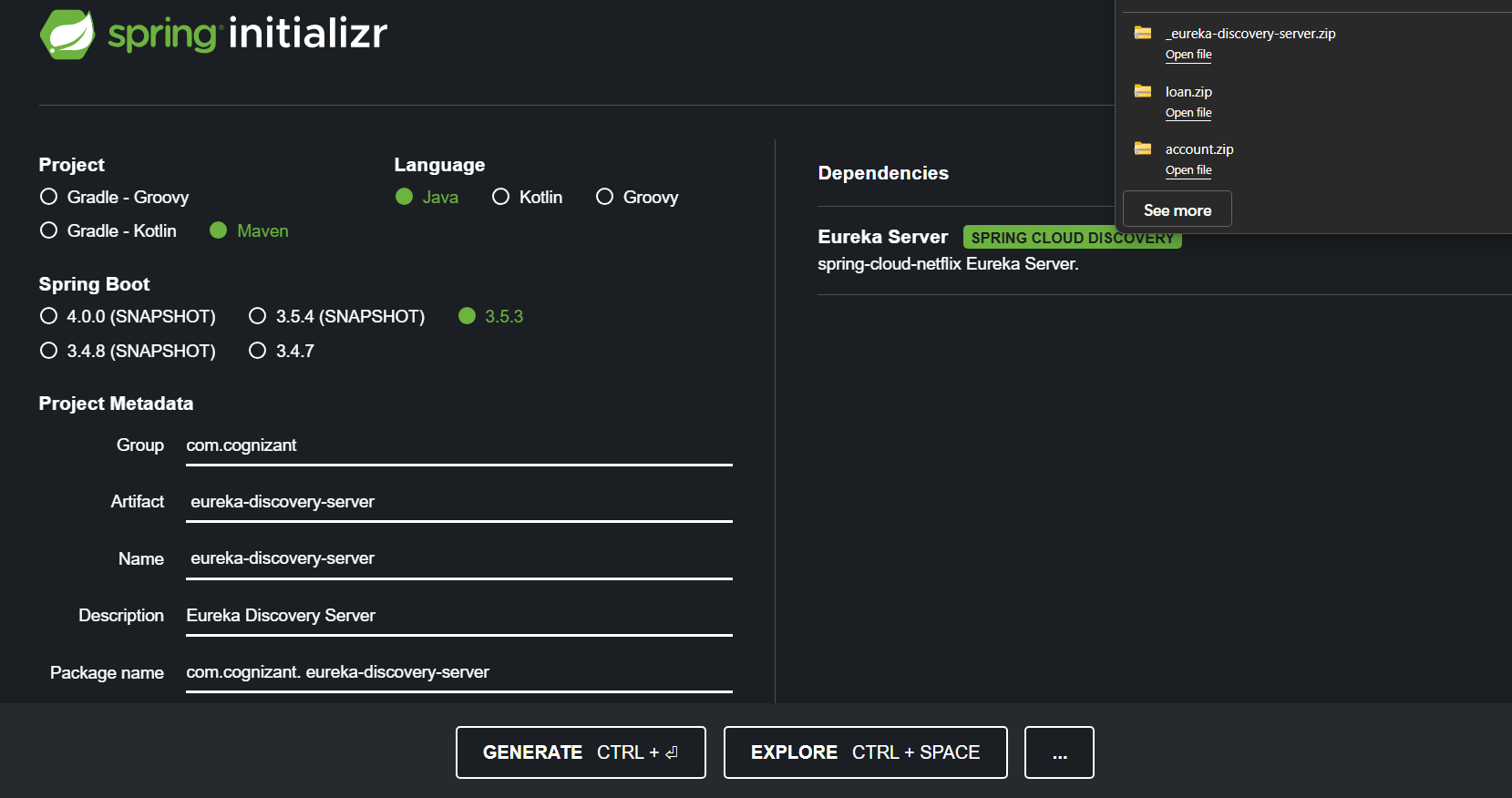
**Test Response in web browser:**

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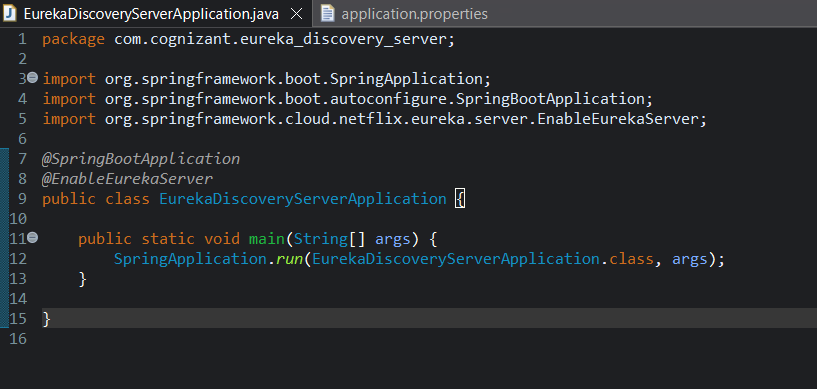
**2. Create Eureka Discovery Server and register microservices**

**(i) Create and Launch Eureka Discovery Server**

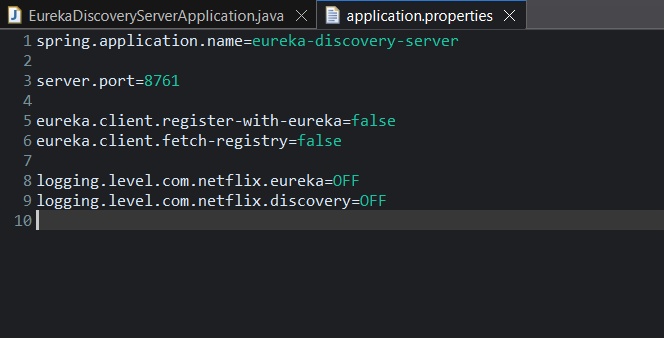
**Generating project for Eureka discovery server:**

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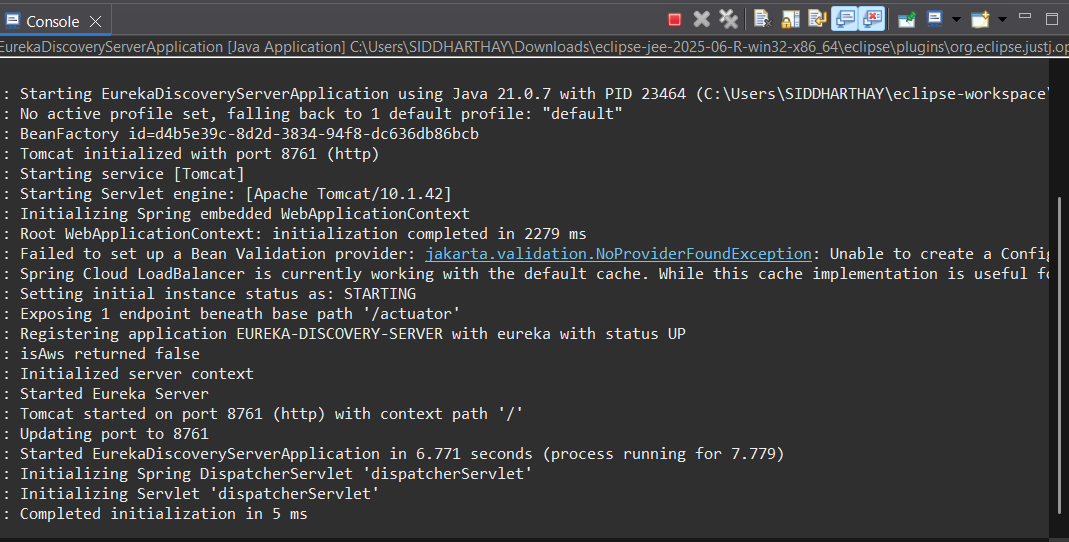
**Eureka Server Class:**

****

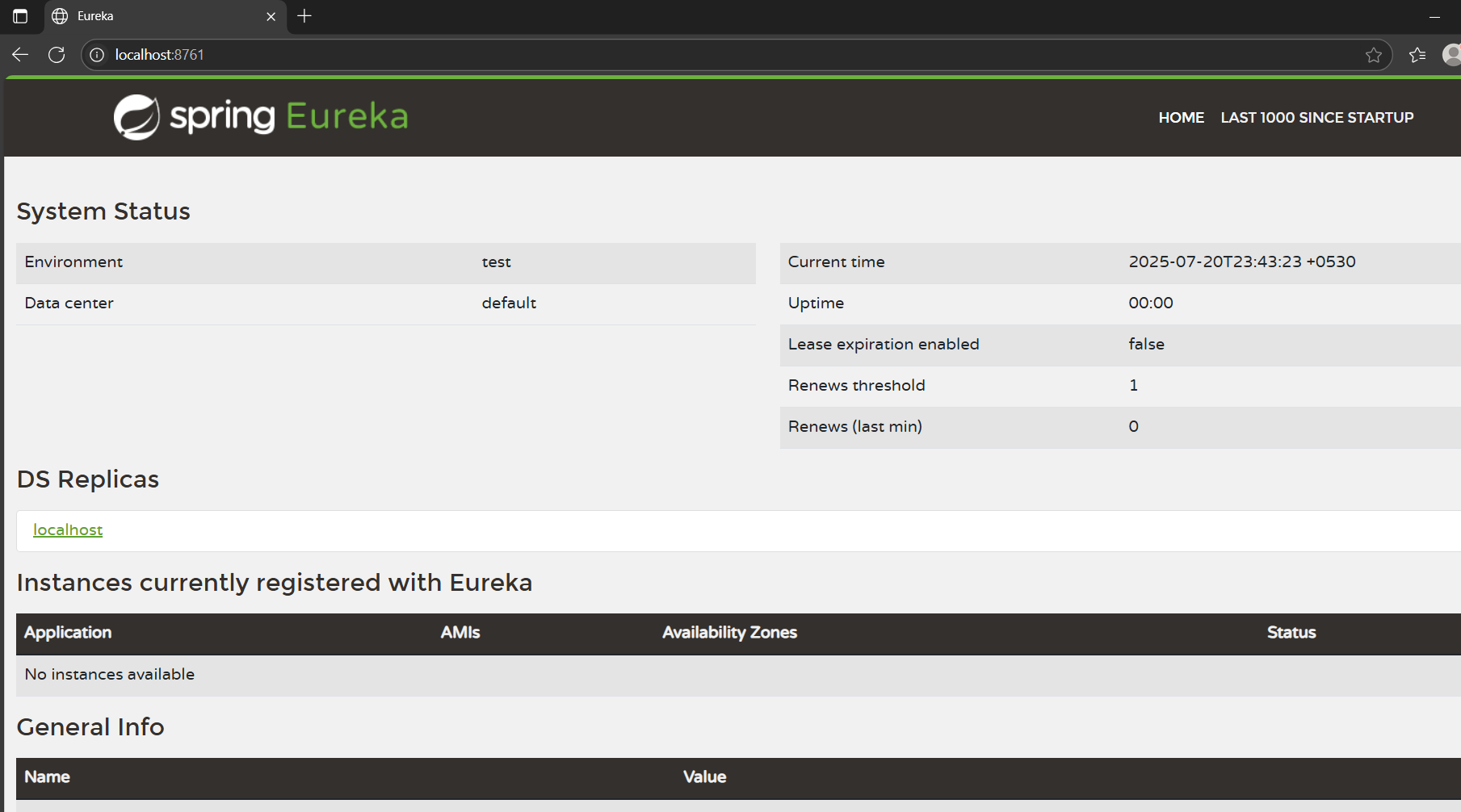
**Application.properties:**

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**Console output on running:**

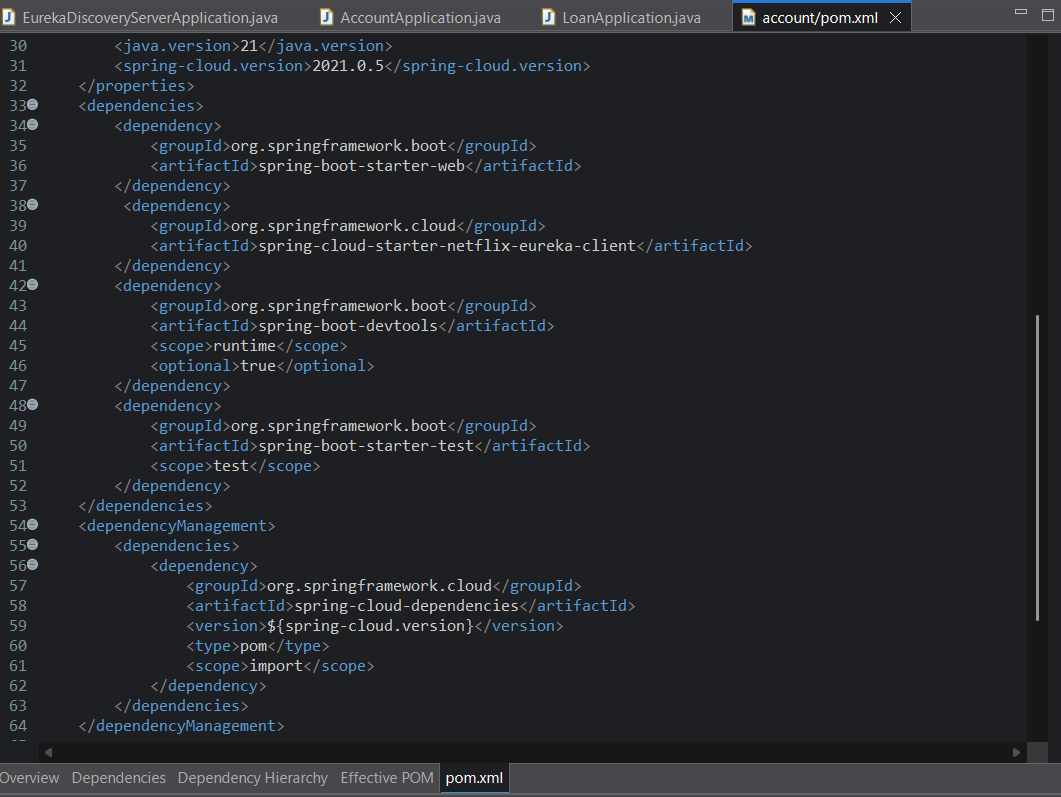
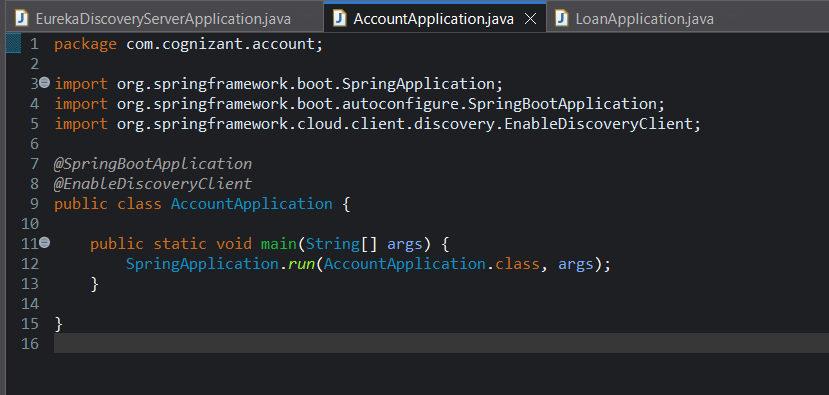
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**Eureka Dashboard with 0 instances:**

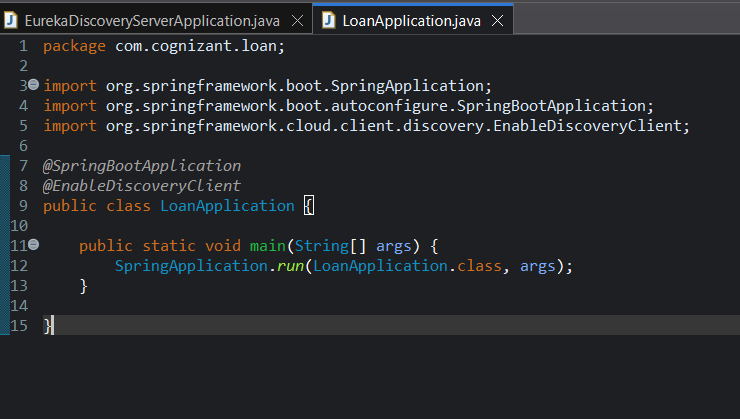
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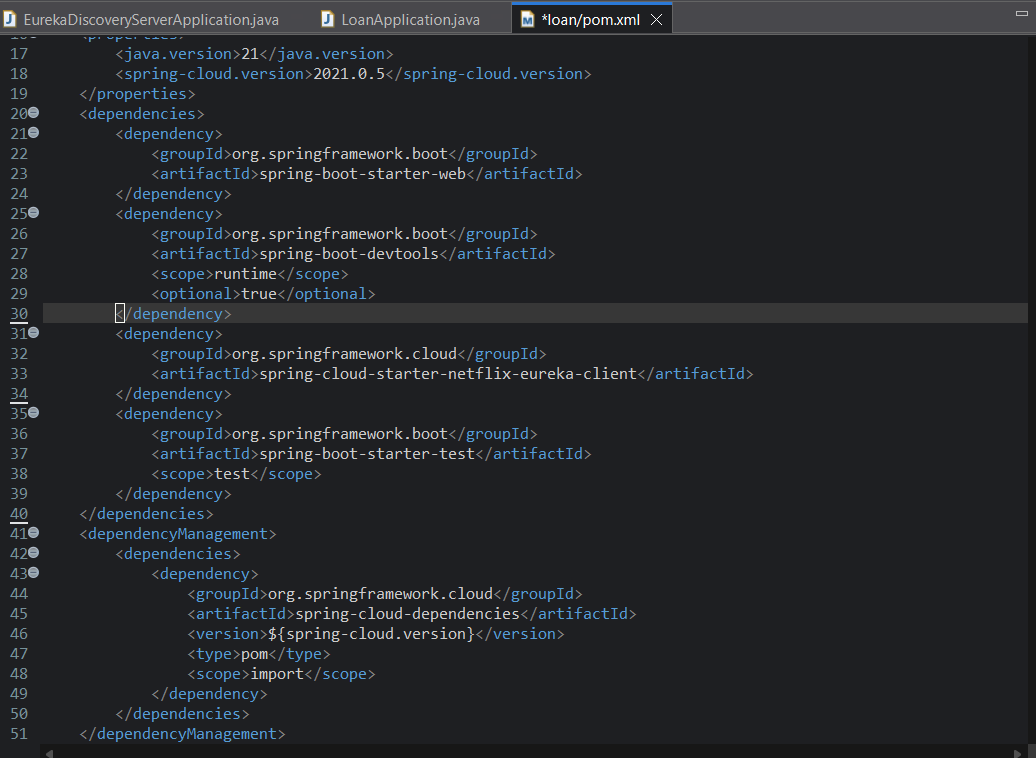
**(ii) Register Account,Loan REST API to eureka discovery**

**Adding enablediscoveryclient for account service:**

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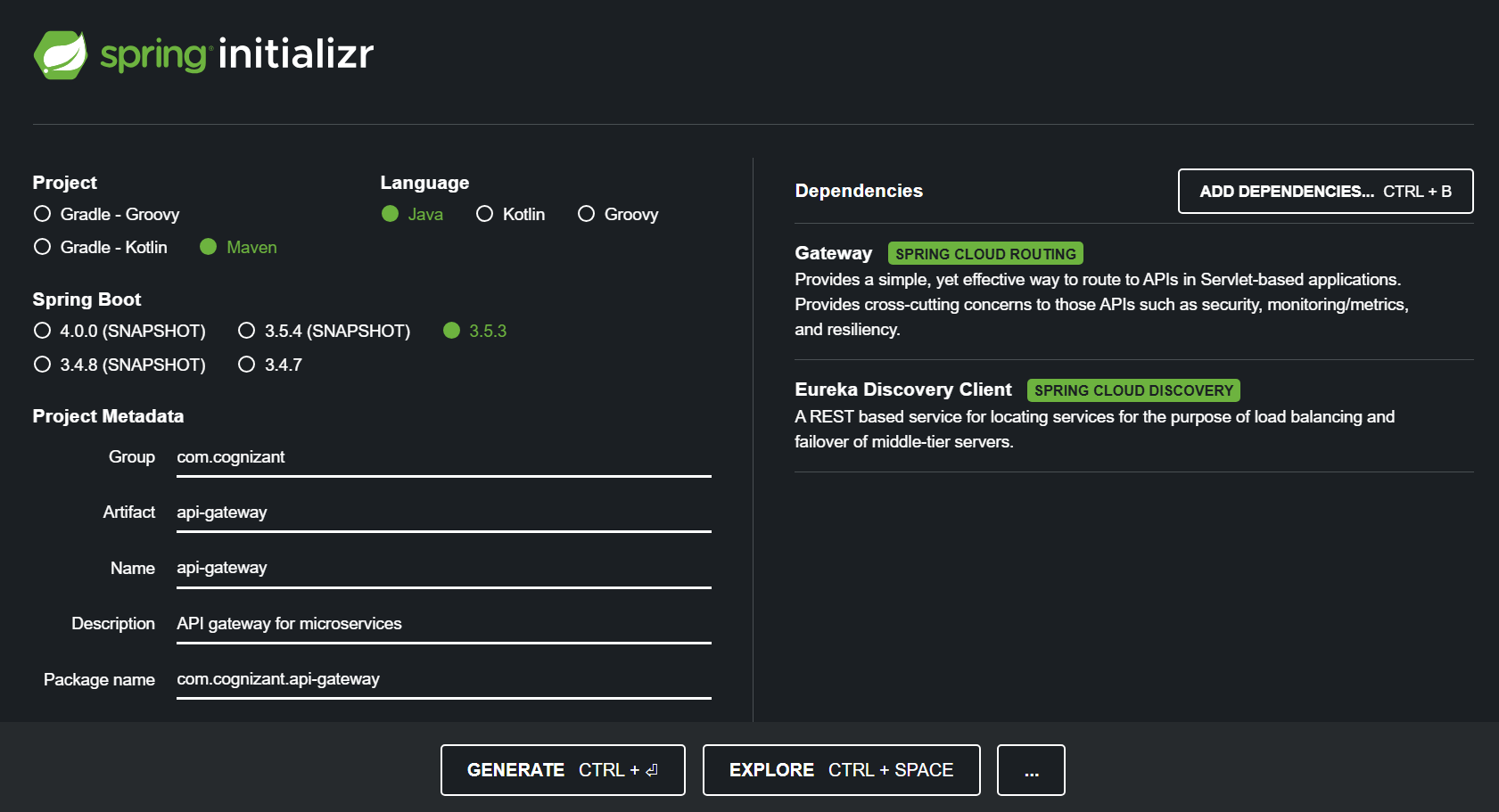
**Adding enablediscoveryclient for loan service:**

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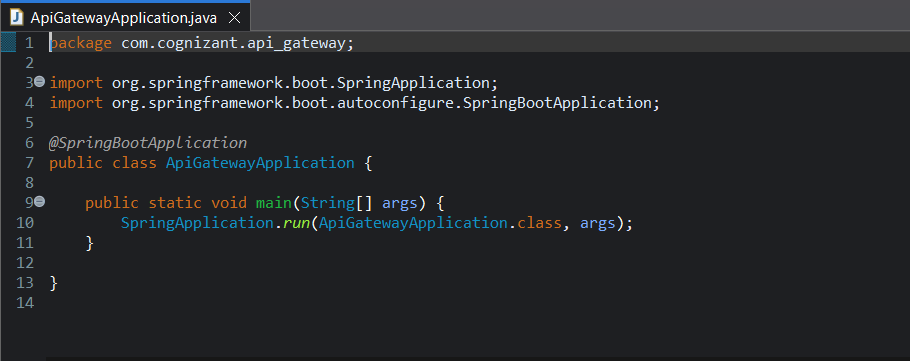
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**(iii) Create the API Gateway**

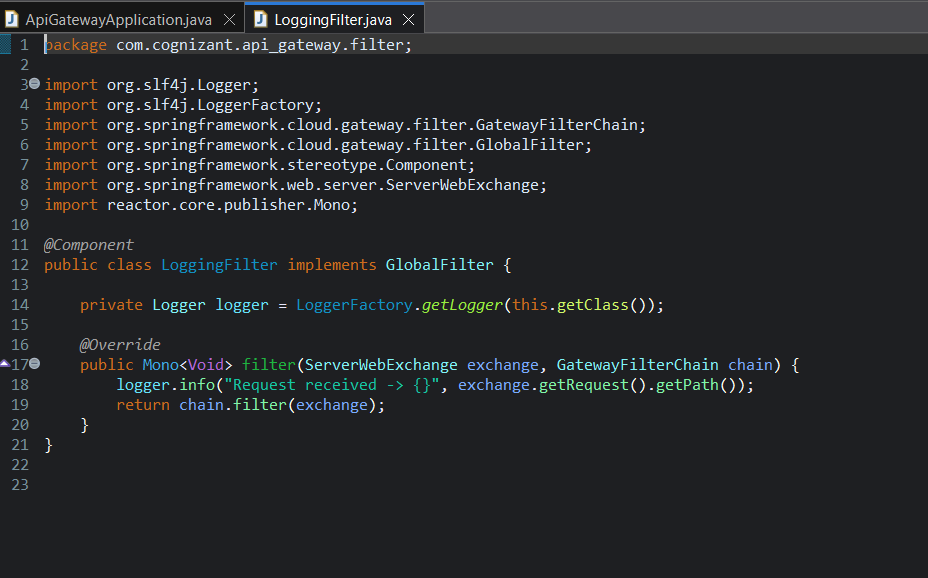
**Generating project for api-gateway:**

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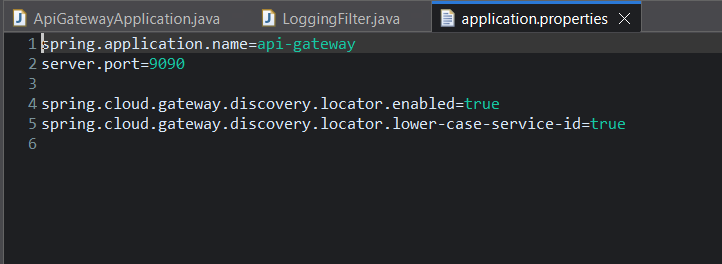
**ApiGatewayApplication.java:**

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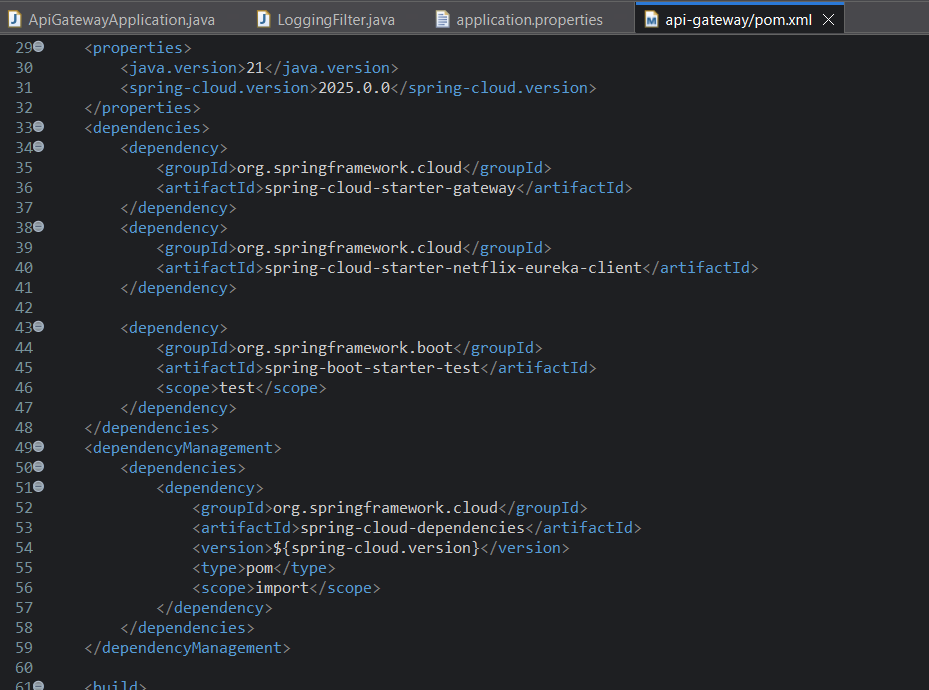
**GlobalFilter for logging requests LoggingFilter.java:**

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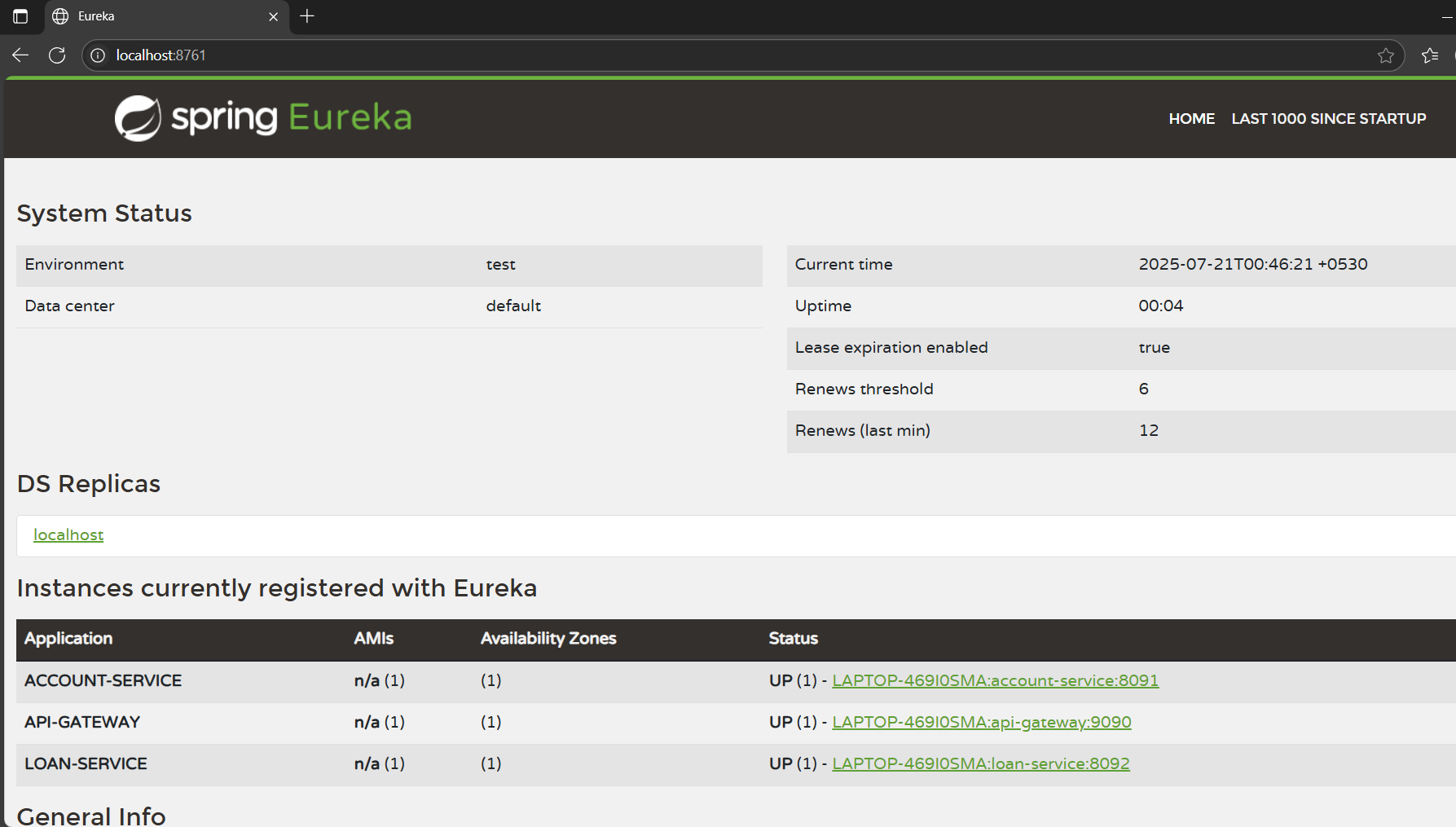
**Application.properties:**

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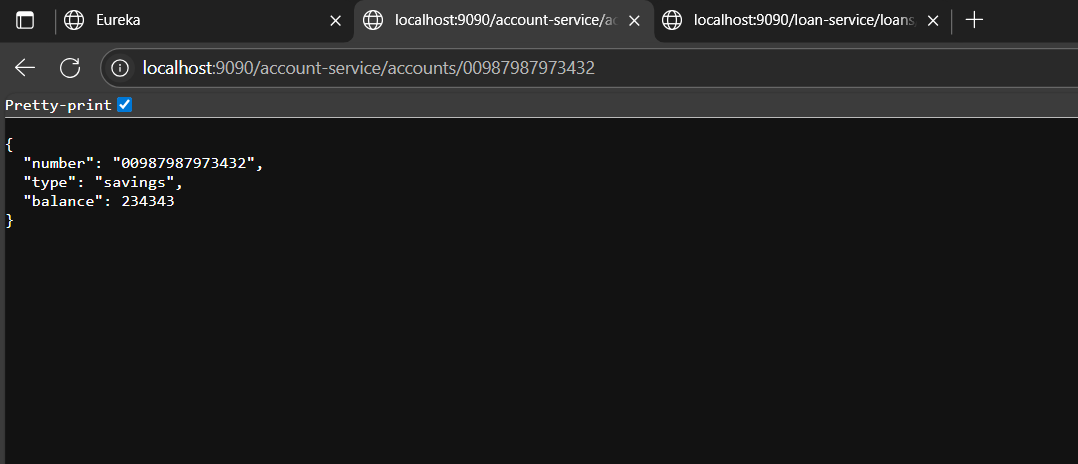
**Api-gateway pom.xml:**

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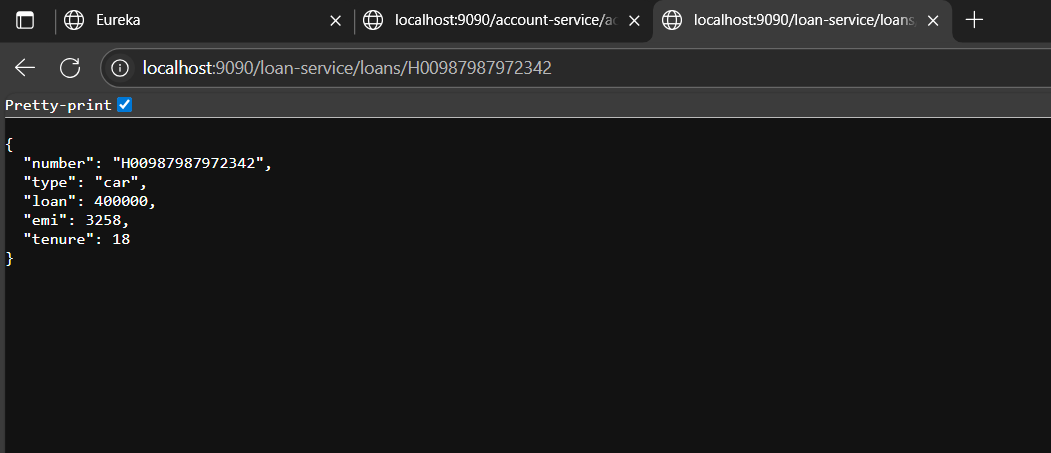
**Eureka dashboard with 3 instances after starting all services:**

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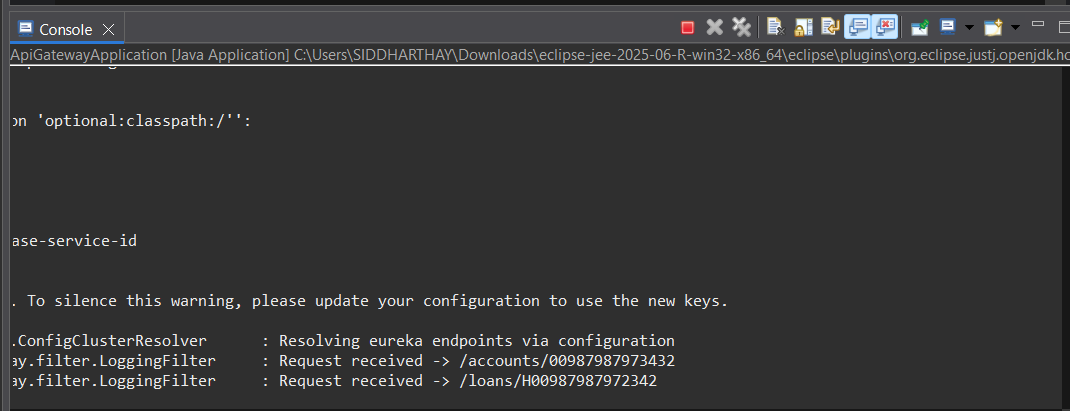
**Testing account service through api-gateway:**

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**Testing loan service through api-gateway:**

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**Console Log of api-gateway:**

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