CHALLENGE 3 – WEEK 12

INSTRUCTIONS

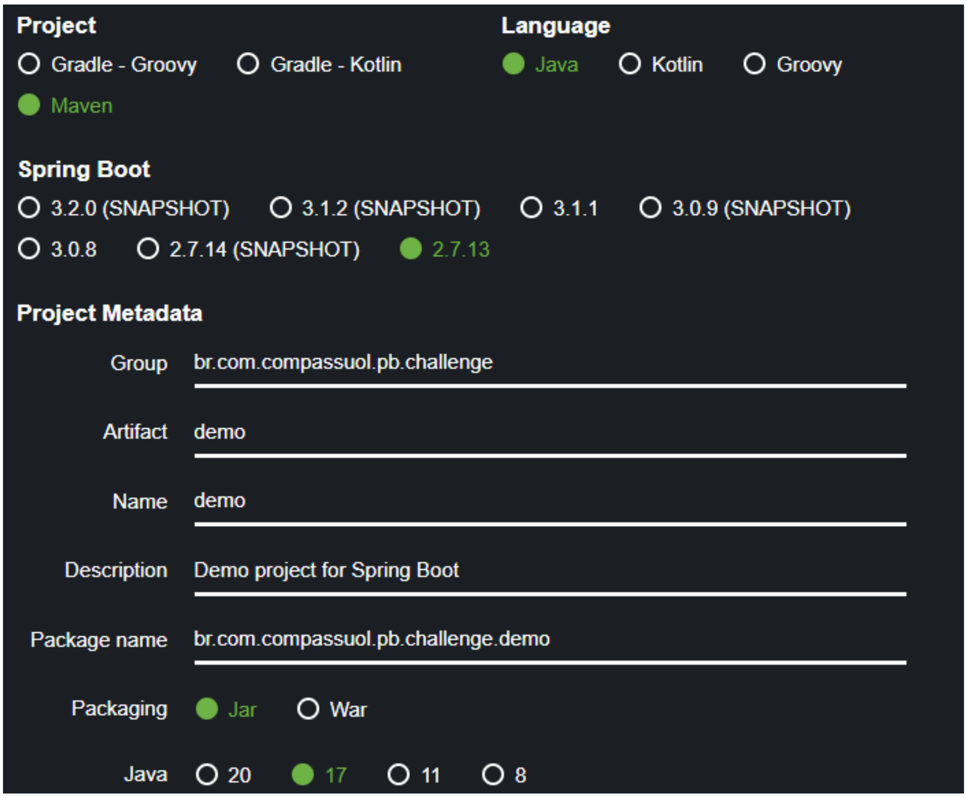
- **E-mail with challeng link must be sent by:** July 10, 2023, at 6 p.m.
- **Last commit:** July 10, 2023, at 6 p.m.

E-mail

- **To:** include instructors and team members
- **“C.C” (with copy)**: include SM and coordinators
- **Email subject**: SP – Challenge 03 – Squad 0 – Team Name

SETTINGS

- Java 17
- Spring Boot 2.7
- **Group (groupId)**: br.com.compassuol.pb.challenge
- **Artifact (artifactId)**: products
- **Repository name**: CompassUOL-SP-Challenge-03-Squad-0-Team-Name



Project

○ Gradle - Groovy ○ Gradle - Kotlin ● Maven

Language

● Java ○ Kotlin ○ Groovy

Spring Boot

○ 3.2.0 (SNAPSHOT) ○ 3.1.2 (SNAPSHOT) ○ 3.1.1 ○ 3.0.9 (SNAPSHOT) ○ 3.0.8 ○ 2.7.14 (SNAPSHOT) ● 2.7.13

Project Metadata

Group	br.com.compassuol.pb.challenge
Artifact	demo
Name	demo
Description	Demo project for Spring Boot
Package name	br.com.compassuol.pb.challenge.demo
Packaging	● Jar ○ War
Java	○ 20 ● 17 ○ 11 ○ 8

Note:

- Scholarship Program or SP
- Using minus sign (-) or underscore (_)
- Avoid using space

Contacts:

Instructors

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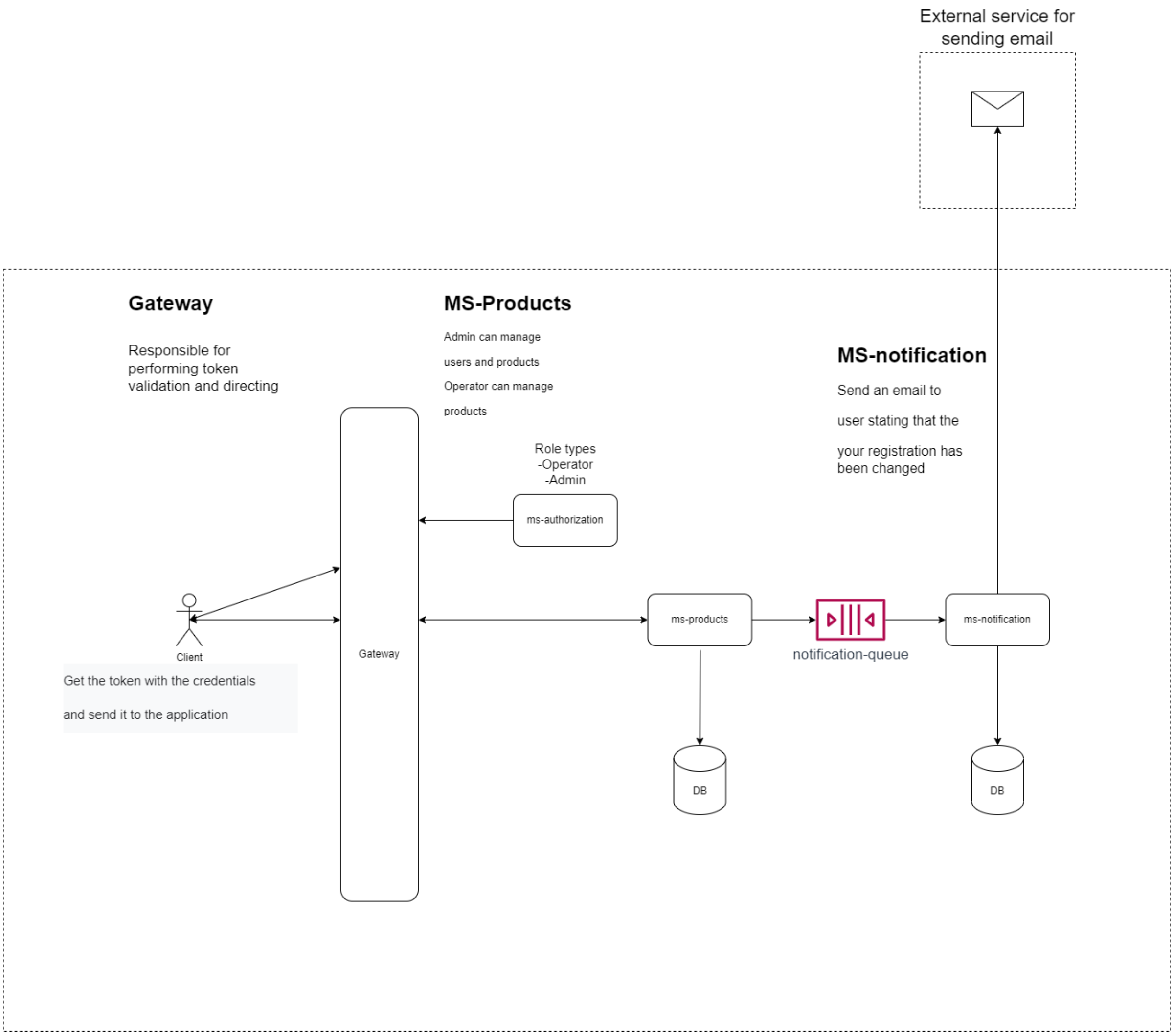
Project description



External service for sending email
Gateway
Responsible for performing token validation and directing
MS-Products
Admin can manage users and products
Operator can manage products
Role types
-Operator
-Admin
ms-authorization
MS-notification
Send an email to user stating that the your registration has been changed
Client
Get the token with the credentials
and send it to the application
Gateway
ms-products
notification-queue
ms-notification
DB
DB

- Relational Database Connection (PostgreSQL or MySQL)
- Error Handling
- Unit tests with a minimum coverage of 70%

Endpoints Users

Method	Base path
POST	/users
GET	/users/:id
PUT	/users/:id

Endpoints Products

Method	Path
POST	/products
GET	/products/:id
GET	/products/?page=1&linesPerPage=5&direction=DESC&orderBy=name
DELETE	/products /:id
PUT	/products /:id

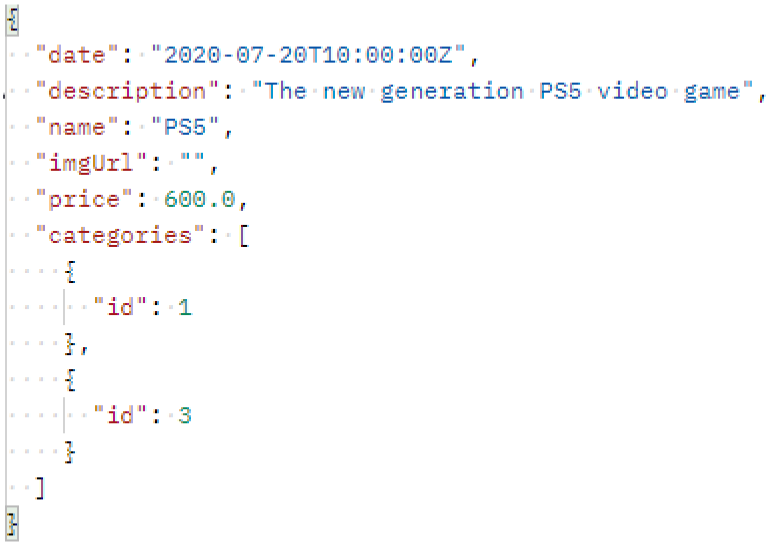
Endpoints authorization

Method	Base path
POST	/oauth/token

Database tables:

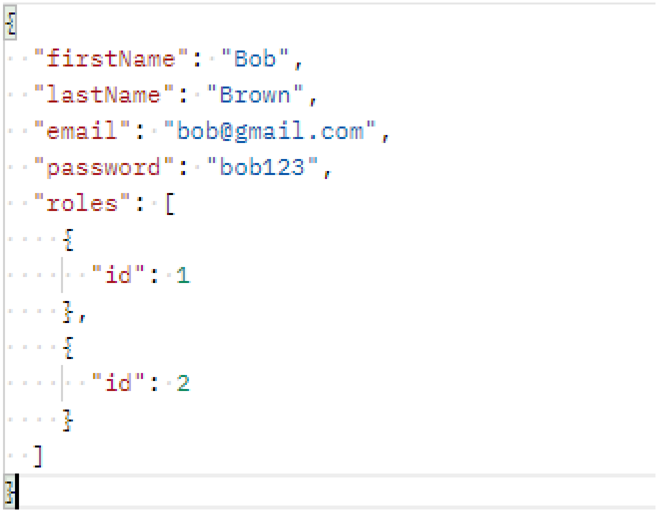
- tb_category: id, name
- tb_user, id, firstName, lastName, email, password, roles
- tb_product: id, date, description, name, imgUrl, price, category
- tb_role: id, name
- tb_product_category: many to many
- tb_user_role: many to many

Product payload User payload (Mus be a table on database)



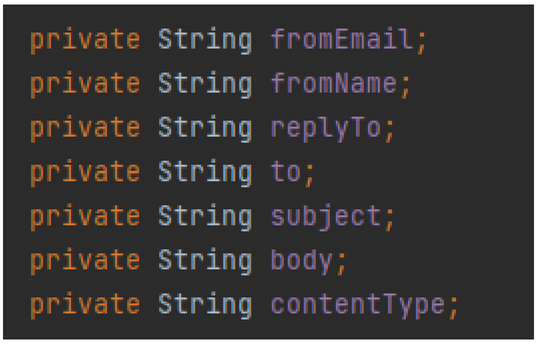
```
{
  "date": "2020-07-20T10:00:00Z",
  "description": "The new generation PS5 video game",
  "name": "PS5",
  "imgUrl": "",
  "price": 600.0,
  "categories": [
    {
      "id": 1
    },
    {
      "id": 3
    }
  ]
}
```

User payload (Mus be a table on database)



```json
{
  "firstName": "Bob",
  "lastName": "Brown",
  "email": "bob@gmail.com",
  "password": "bob123",
  "roles": [
    {
      "id": 1
    },
    {
      "id": 2
    }
  ]
}
```

Email



```java
private String fromEmail;
private String fromName;
private String replyTo;
private String to;
private String subject;
private String body;
private String contentType;
```

Note:

Shoul be created a data seeding to populate the database and add to the project.

Notification queue should use RabbitMQ and the payload are EmailDTO