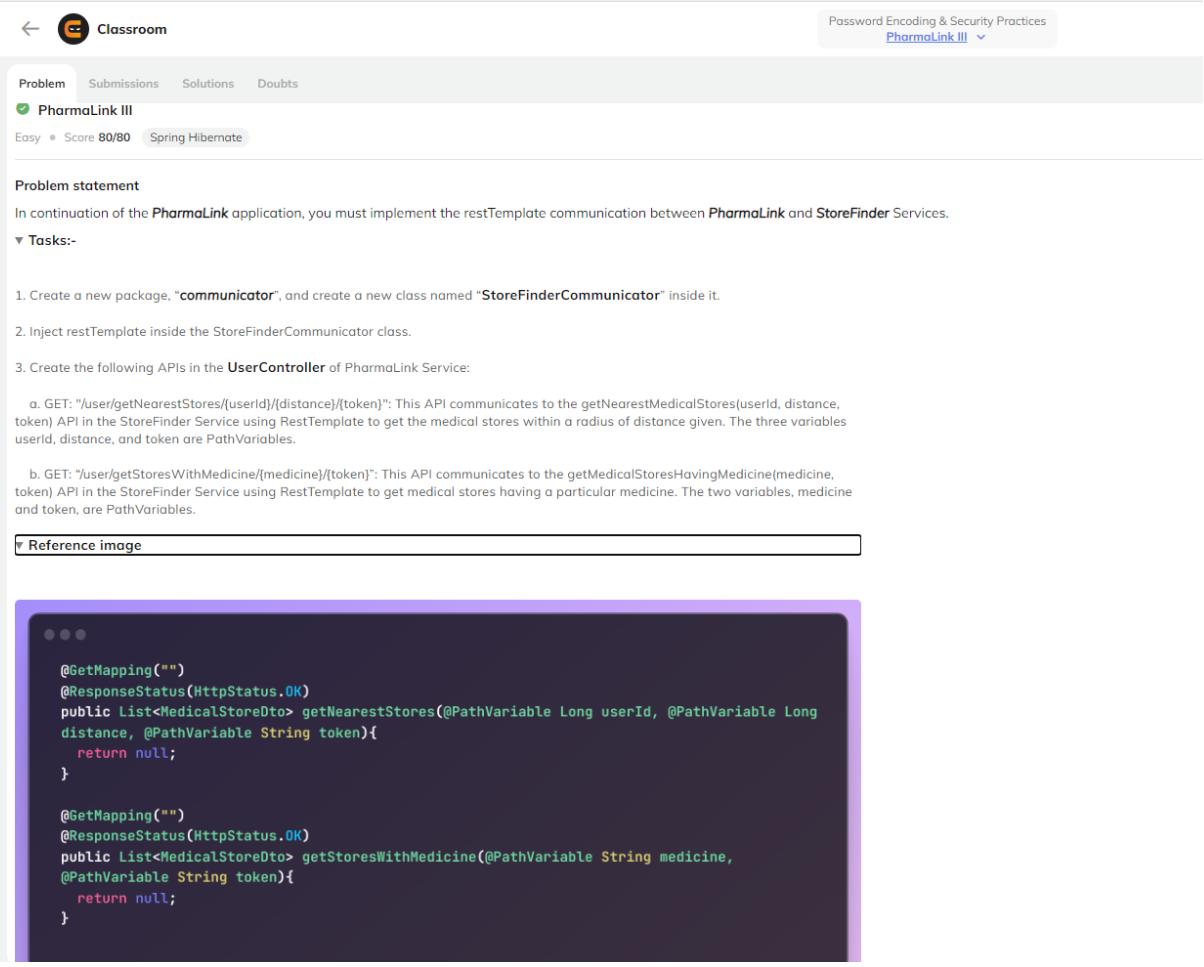
PharmaLink III

Problem Statement:



PharmaLink III

Easy • Score 80/80 Spring Hibernate

Problem statement

In continuation of the ***PharmaLink*** application, you must implement the restTemplate communication between ***PharmaLink*** and ***StoreFinder*** Services.

▼ Tasks:-

1. Create a new package, "***communicator***", and create a new class named "**StoreFinderCommunicator**" inside it.

2. Inject restTemplate inside the StoreFinderCommunicator class.

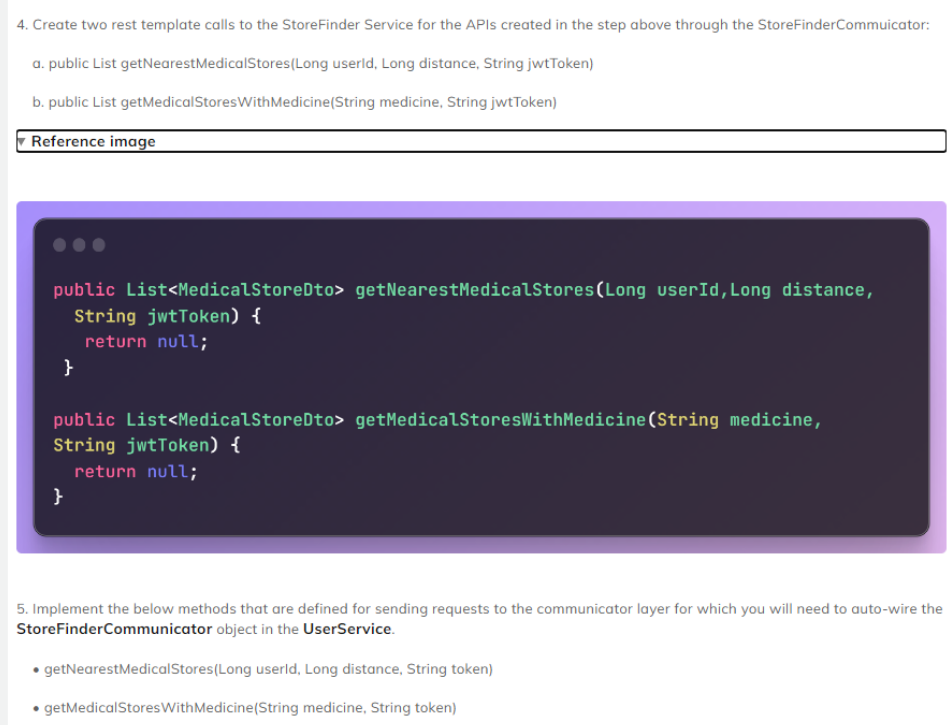
3. Create the following APIs in the **UserController** of PharmaLink Service:

a. GET: "/user/getNearestStores/{userId}/{distance}/{token}": This API communicates to the getNearestMedicalStores(userId, distance, token) API in the StoreFinder Service using RestTemplate to get the medical stores within a radius of distance given. The three variables userId, distance, and token are PathVariables.

b. GET: "/user/getStoresWithMedicine/{medicine}/{token}": This API communicates to the getMedicalStoresHavingMedicine(medicine, token) API in the StoreFinder Service using RestTemplate to get medical stores having a particular medicine. The two variables, medicine and token, are PathVariables.

▼ Reference image

```
@GetMapping("")
@ResponseStatus(HttpStatus.OK)
public List<MedicalStoreDto> getNearestStores(@PathVariable Long userId, @PathVariable Long
distance, @PathVariable String token){
  return null;
}

@GetMapping("")
@ResponseStatus(HttpStatus.OK)
public List<MedicalStoreDto> getStoresWithMedicine(@PathVariable String medicine,
@PathVariable String token){
  return null;
}
```



4. Create two rest template calls to the StoreFinder Service for the APIs created in the step above through the StoreFinderCommuicator:

a. public List getNearestMedicalStores(Long userId, Long distance, String jwtToken)

b. public List getMedicalStoresWithMedicine(String medicine, String jwtToken)

▼ Reference image

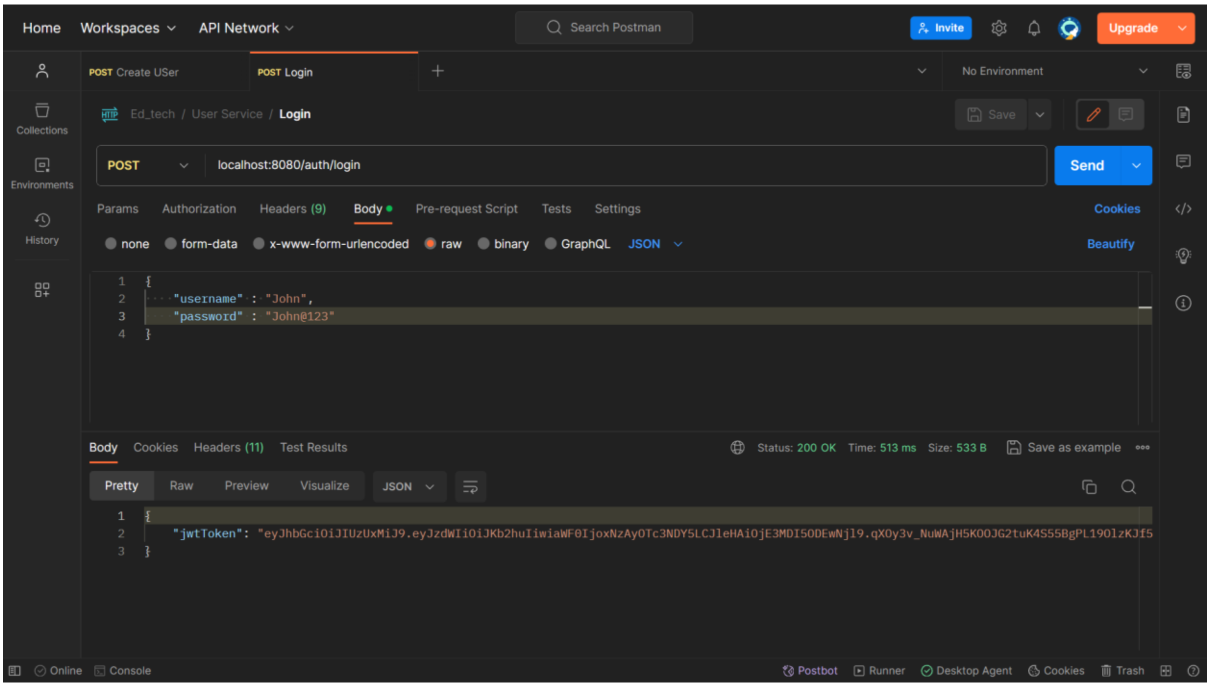
```
public List<MedicalStoreDto> getNearestMedicalStores(Long userId,Long distance,
  String jwtToken) {
   return null;
 }

public List<MedicalStoreDto> getMedicalStoresWithMedicine(String medicine,
String jwtToken) {
  return null;
}
```

5. Implement the below methods that are defined for sending requests to the communicator layer for which you will need to auto-wire the **StoreFinderCommunicator** object in the **UserService**.

- getNearestMedicalStores(Long userId, Long distance, String token)
- getMedicalStoresWithMedicine(String medicine, String token)

> 5. Implement the below methods that are defined for sending requests to the communicator layer for which you will need to auto-wire the **StoreFinderCommunicator** object in the **UserService**.
>
> - getNearestMedicalStores(Long userId, Long distance, String token)
> - getMedicalStoresWithMedicine(String medicine, String token)

Output:

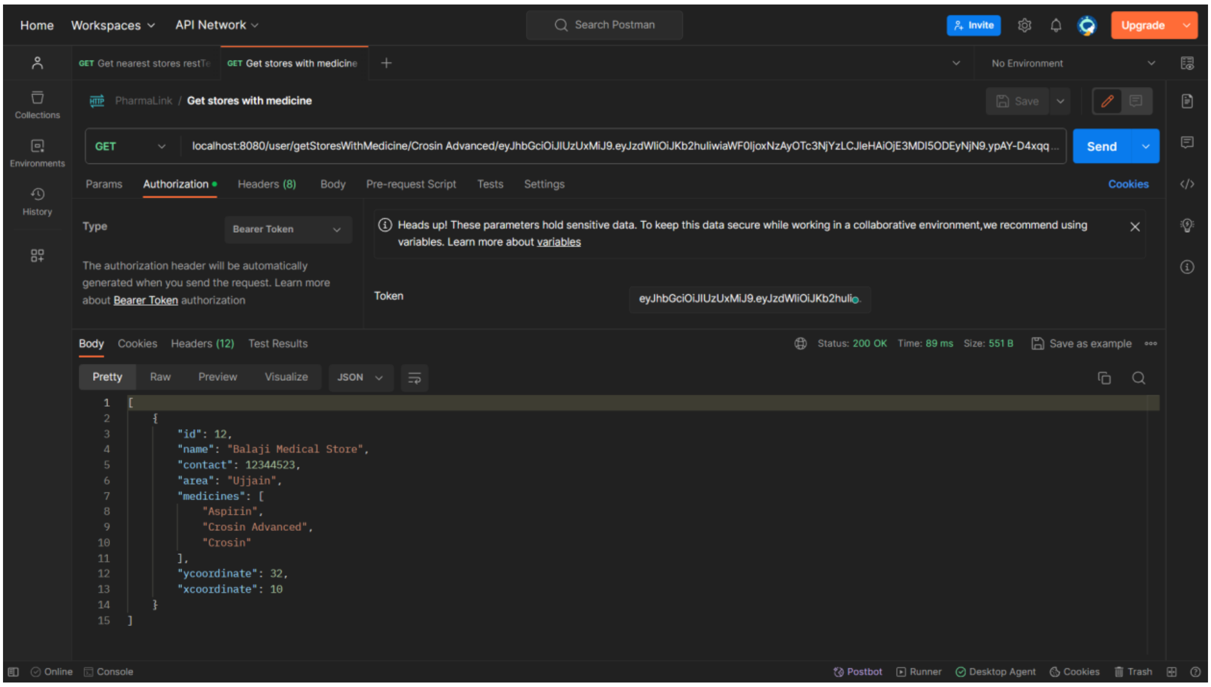


POST localhost:8080/auth/login

```
{
    "username" : "John",
    "password" : "John@123"
}
```

Status: 200 OK Time: 513 ms Size: 533 B

```
{
    "jwtToken": "eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJKb2huIiwiaWF0IjoxNzAyOTc3NDY5LCJleHAiOjE3MDI5ODEwNjl9.qXOy3v_NuWAjH5KOOJG2tuK4S55BgPL19OlzKJf5
}
```



GET localhost:8080/user/getStoresWithMedicine/Crosin Advanced/eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJKb2huIiwiaWF0IjoxNzAyOTc3NjYzLCJleHAiOjE3MDI5ODEyNjN9.ypAY-D4xqq...

Type: Bearer Token

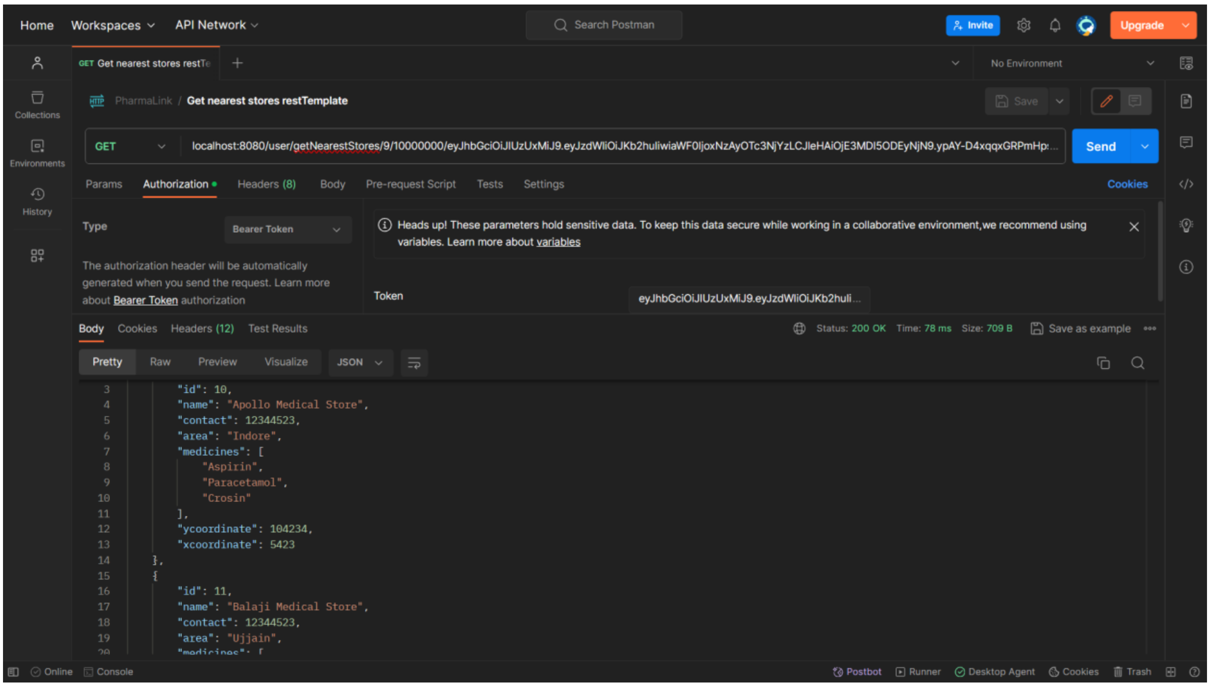
The authorization header will be automatically generated when you send the request. Learn more about Bearer Token authorization

Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment,we recommend using variables. Learn more about variables

Token: eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJKb2huIiwi...

Status: 200 OK Time: 89 ms Size: 551 B

```
[
    {
        "id": 12,
        "name": "Balaji Medical Store",
        "contact": 12344523,
        "area": "Ujjain",
        "medicines": [
            "Aspirin",
            "Crosin Advanced",
            "Crosin"
        ],
        "ycoordinate": 32,
        "xcoordinate": 10
    }
]
```



GET localhost:8080/user/getNearestStores/9/10000000/eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJKb2huliwiaWF0IjoxNzAyOTc3NjYzLCJleHAiOjE3MDI5ODEyNjN9.ypAY-D4xqqxGRPmHp:...

Type: Bearer Token

The authorization header will be automatically generated when you send the request. Learn more about Bearer Token authorization

Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment,we recommend using variables. Learn more about variables

Token: eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJKb2huli...

Status: 200 OK Time: 78 ms Size: 709 B

```
        "id": 10,
        "name": "Apollo Medical Store",
        "contact": 12344523,
        "area": "Indore",
        "medicines": [
            "Aspirin",
            "Paracetamol",
            "Crosin"
        ],
        "ycoordinate": 104234,
        "xcoordinate": 5423
    },
    {
        "id": 11,
        "name": "Balaji Medical Store",
        "contact": 12344523,
        "area": "Ujjain",
        "medicines": [
```