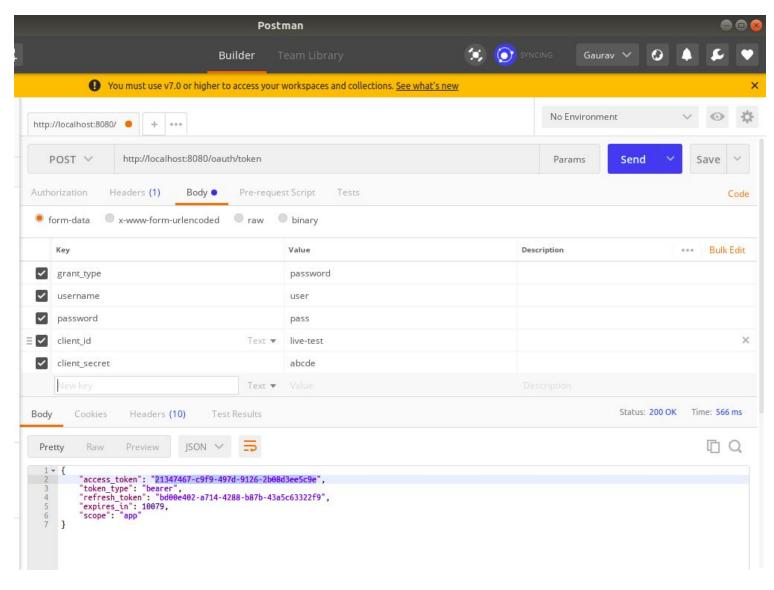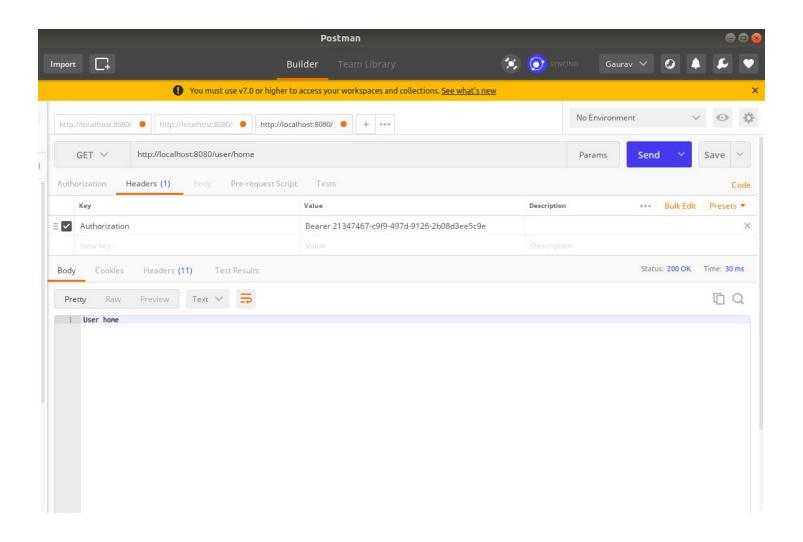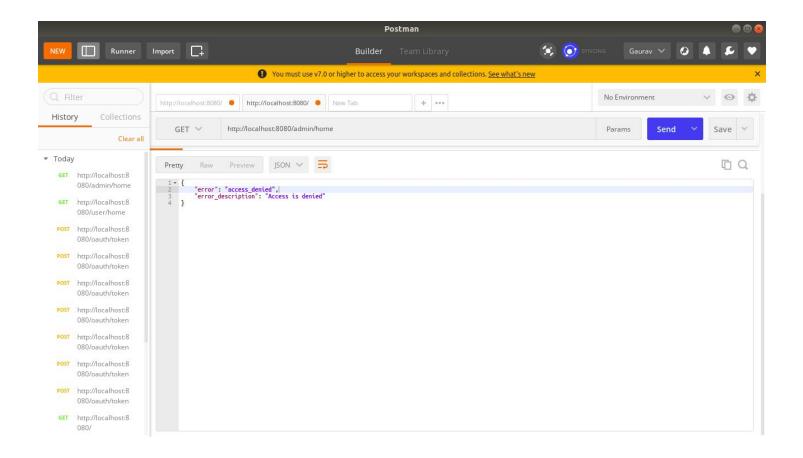Q1. Implement oauth 2 using spring security and authenticate a user which is saved in database using spring data jpa.

Postman

Import

Builder   Team Library

SYNCING   Gaurav ∨

http://localhost:8080/   http://localhost:8080/   http://localhost:8080/   +   •••

No Environment   ∨

| GET ∨ | http://localhost:8080/user/home | Params | Send ∨ | Save ∨ |

Authorization   Headers (1)   Body   Pre-request Script   Tests   Code

	Key	Value	Description	••• Bulk Edit Presets ▼
☰ ☑	Authorization	Bearer 21347467-c9f9-497d-9126-2b08d3ee5c9e		✕
	New key	Value	Description	

Body   Cookies   Headers (11)   Test Results   Status: 200 OK   Time: 30 ms

Pretty   Raw   Preview   Text ∨

```
1    User home
```

Q2. Grant different Roles to different users and make sure that only authorized users of a given type can access the resource.

Postman

Builder   Team Library

SYNCING   Gaurav ∨

You must use v7.0 or higher to access your workspaces and collections. See what's new

http://localhost:8080/ ●   http://localhost:8080/ ●   +   •••

No Environment   ∨

GET ∨   http://localhost:8080/user/home   Params   Send ∨   Save ∨

Authorization   Headers (1)   Body   Pre-request Script   Tests   Code

	Key	Value	Description		Bulk Edit	Presets ▼
☑	Authorization	Bearer 21347467-c9f9-497d-9126-2b08d3ee5c9e		•••		
	New key	Value	Description			

Body   Cookies   Headers (11)   Test Results   Status: 200 OK   Time: 77 ms

Pretty   Raw   Preview   Text ∨   ⇥

1   User home

File Edit View Navigate Code Analyze Refactor Build Run Tools Git Window Help

-security-oauth-...) src) main) java) com) springbootcamp) springsecurity) Bootstrap

application.properties   SpringSecurityApplication.java   Bootstrap.java

```java
16
17          @Override
18          public void run(ApplicationArguments args) throws Exception {
19              if(userRepository.count()<1){
20                  PasswordEncoder passwordEncoder = new BCryptPasswordEncoder();
21                  User user1 = new User();
22                  user1.setUsername("user");
23                  user1.setPassword(passwordEncoder.encode( rawPassword: "pass"));
24                  user1.setRole("ROLE_USER");
25
26                  User user2 = new User();
27                  user2.setUsername("admin");
28                  user2.setPassword(passwordEncoder.encode( rawPassword: "pass"));
29                  user2.setRole("ROLE_ADMIN");
30
31                  userRepository.save(user1);
32                  userRepository.save(user2);
33                  System.out.println("Total users saved::"+userRepository.count());
34
35              }
36          }
37      }
```

Project
- spring-security
  - main src/main
    - java
      - com
        - springbootcamp
          - springsecurity
            - AppUser
            - AppUserDeta
            - Authenticatic
            - Authorizatior
            - Bootstrap
            - GrantAuthori
            - ResourceServ
            - SpringSecurit
            - User
            - UserDao
            - UserReposito
    - resources
  - test src/test
  - ~/Downloads/spring-secur
  - Extensions

Terminal: Local +

```
Total 36 (delta 0), reused 0 (delta 0)
To https://github.com/Gauravttn/SpringSecurity.git
 * [new branch]      main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.
ttn@gauravttn:~/Downloads/spring-security-bootcamp-spring-security-oauth-with-jpa$
```

Git   Run   TODO   Problems   Terminal   Build   Event Log

Class 'Bootstrap' is never used   main