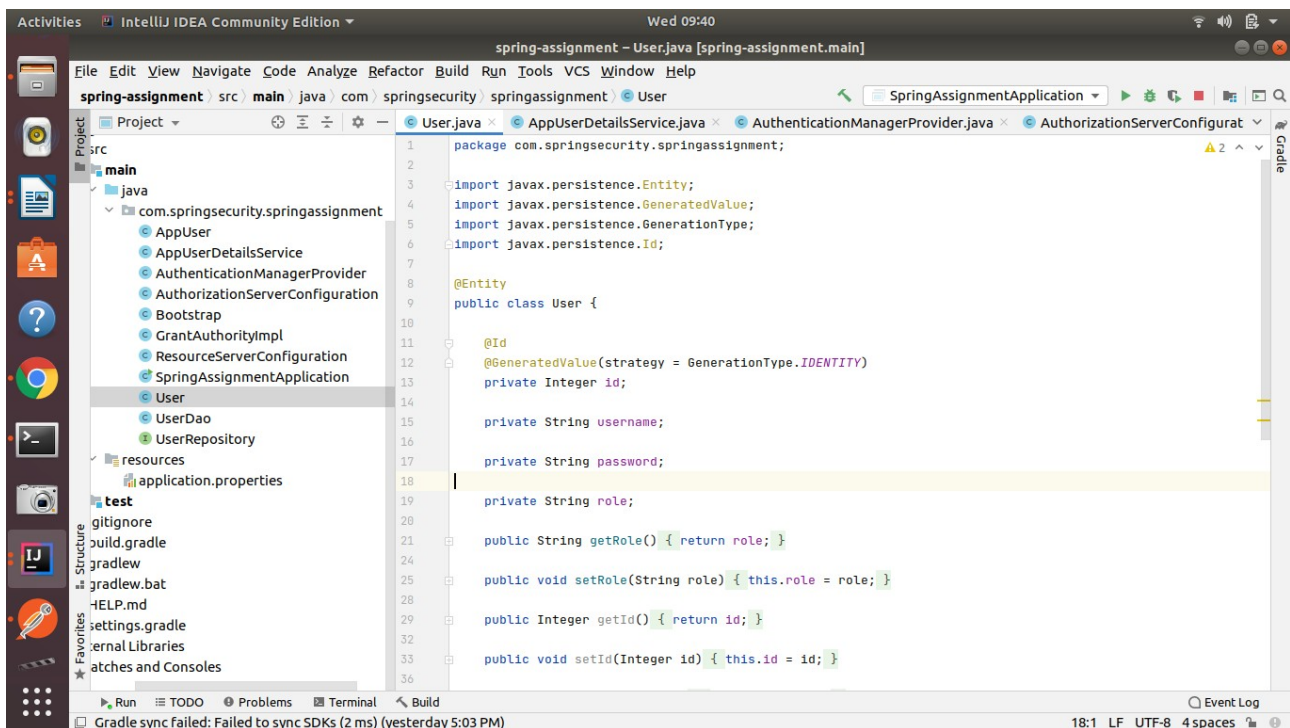
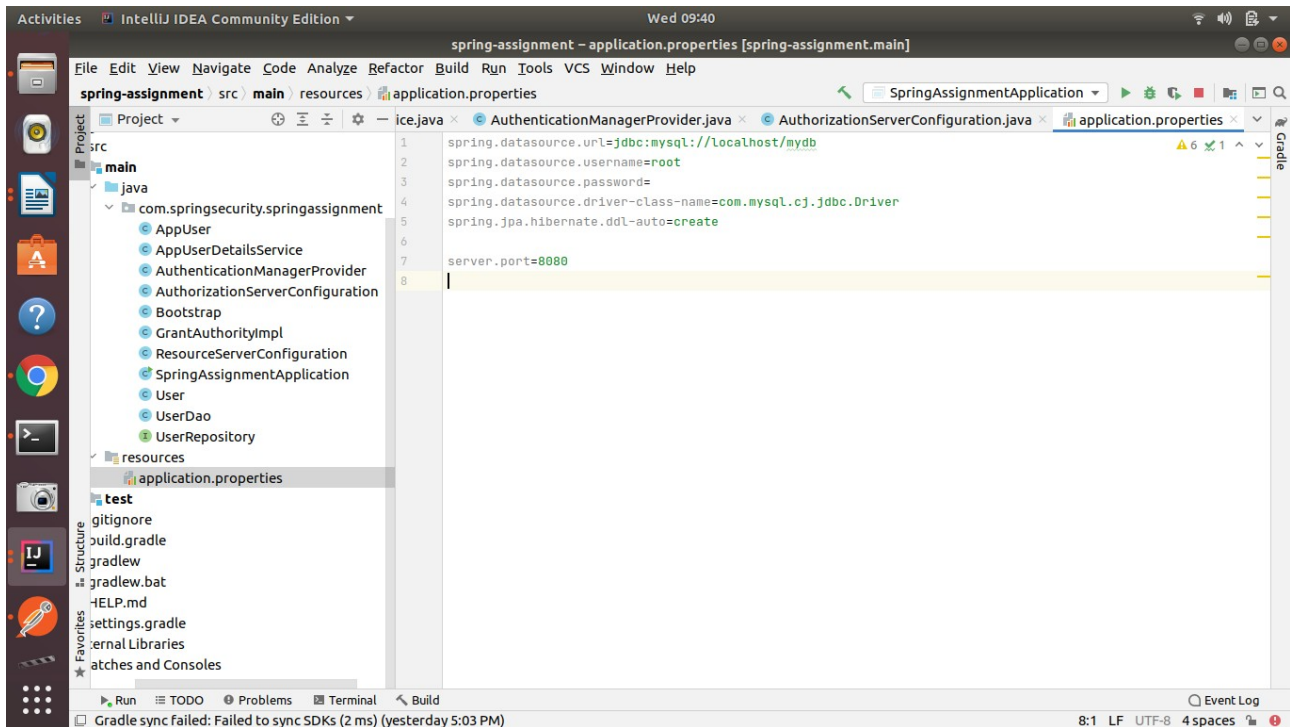
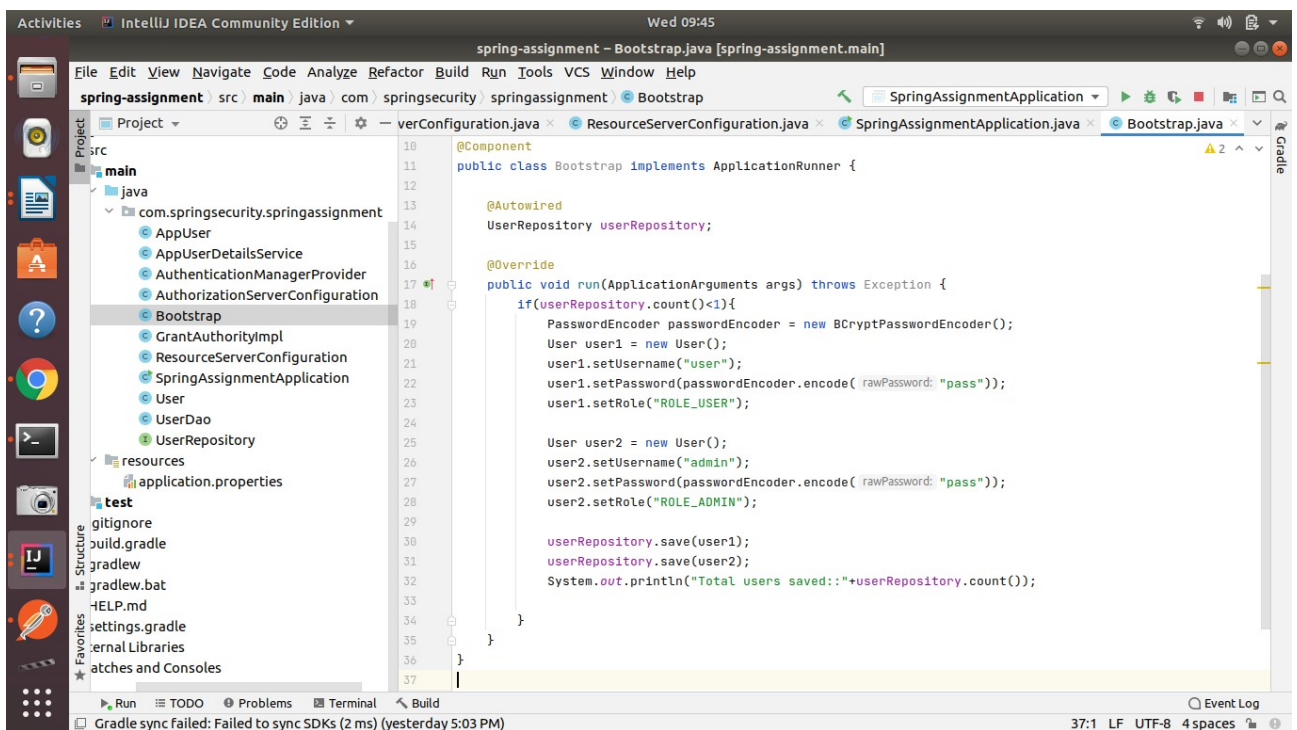
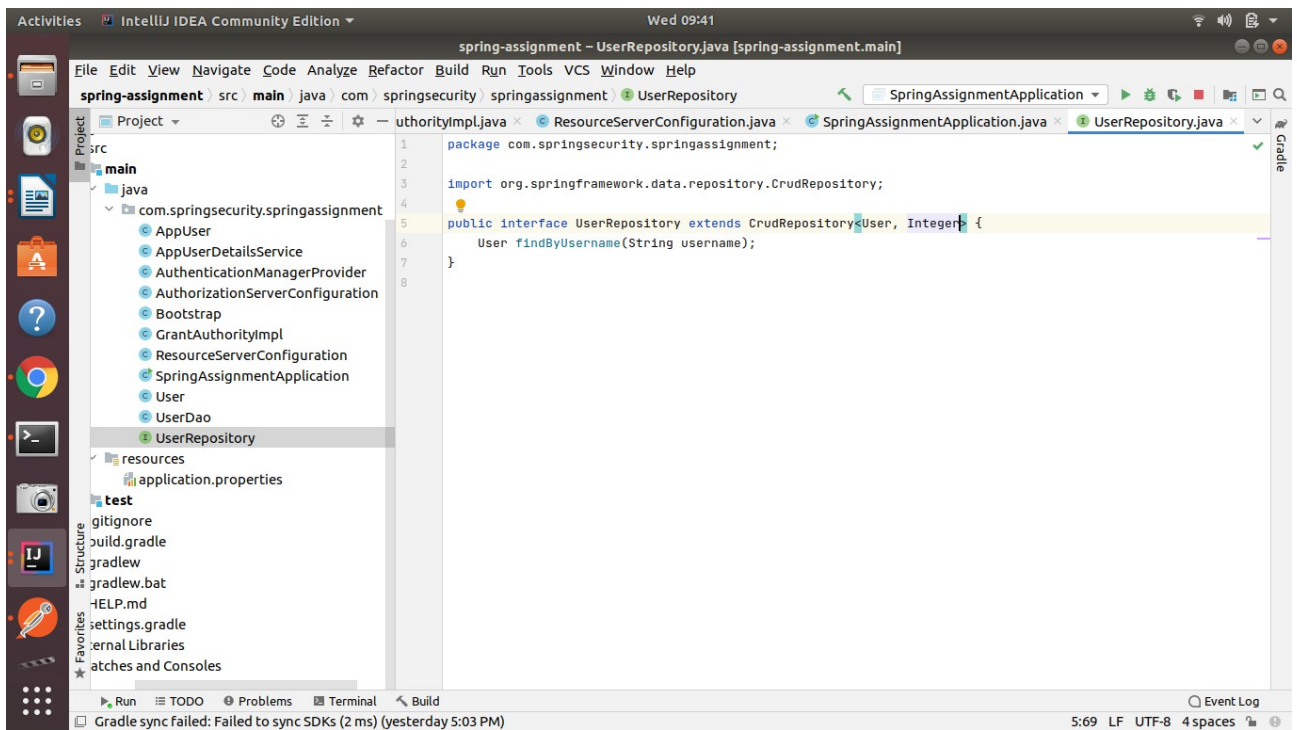
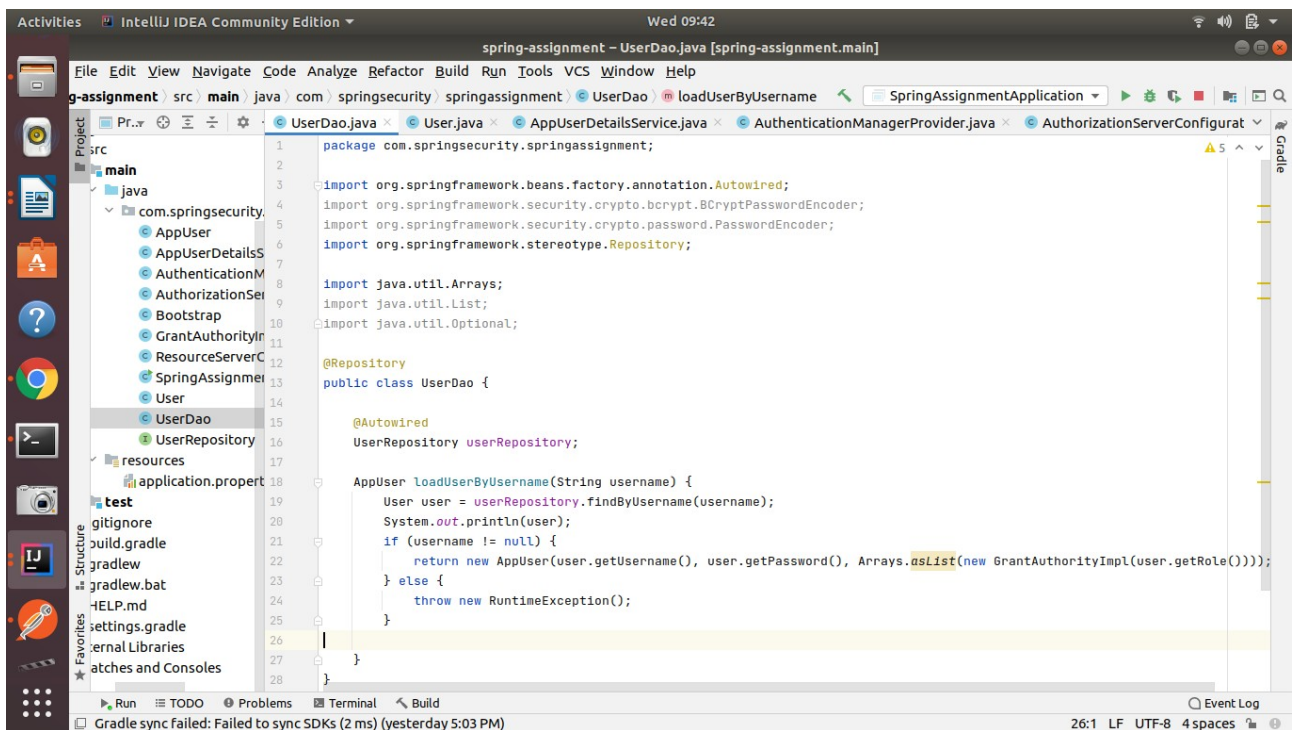
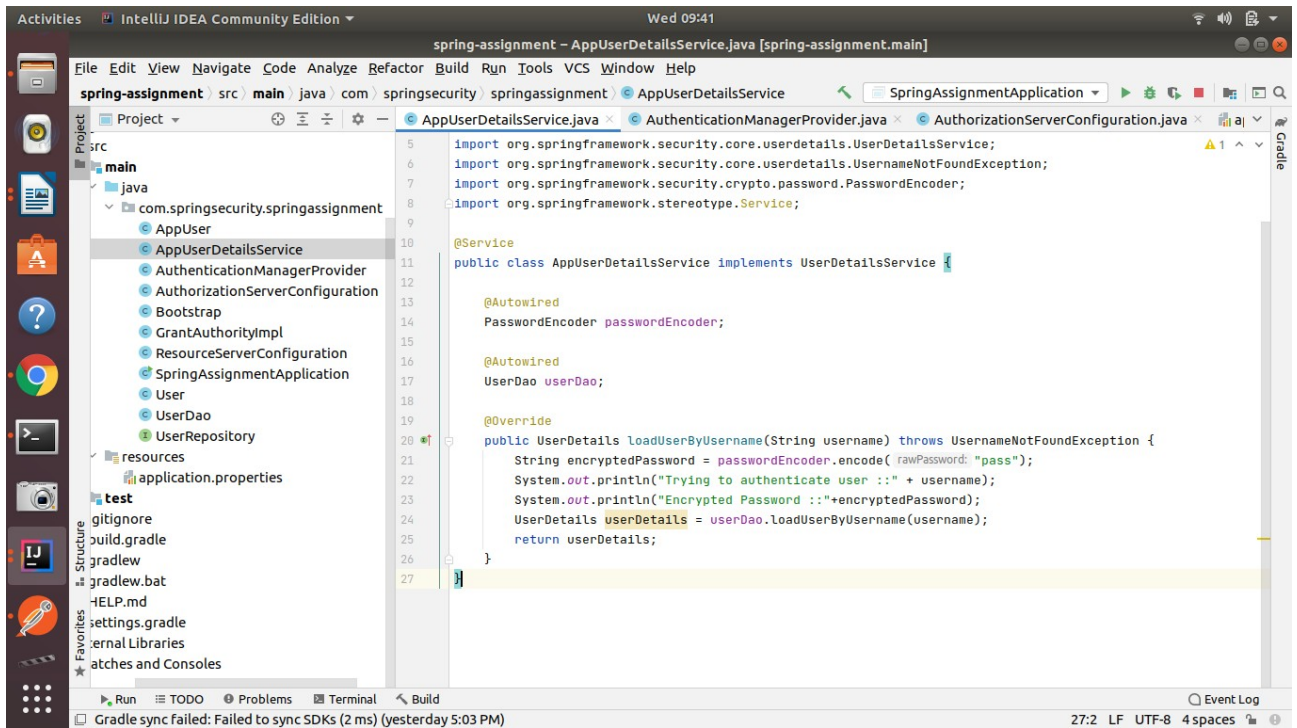


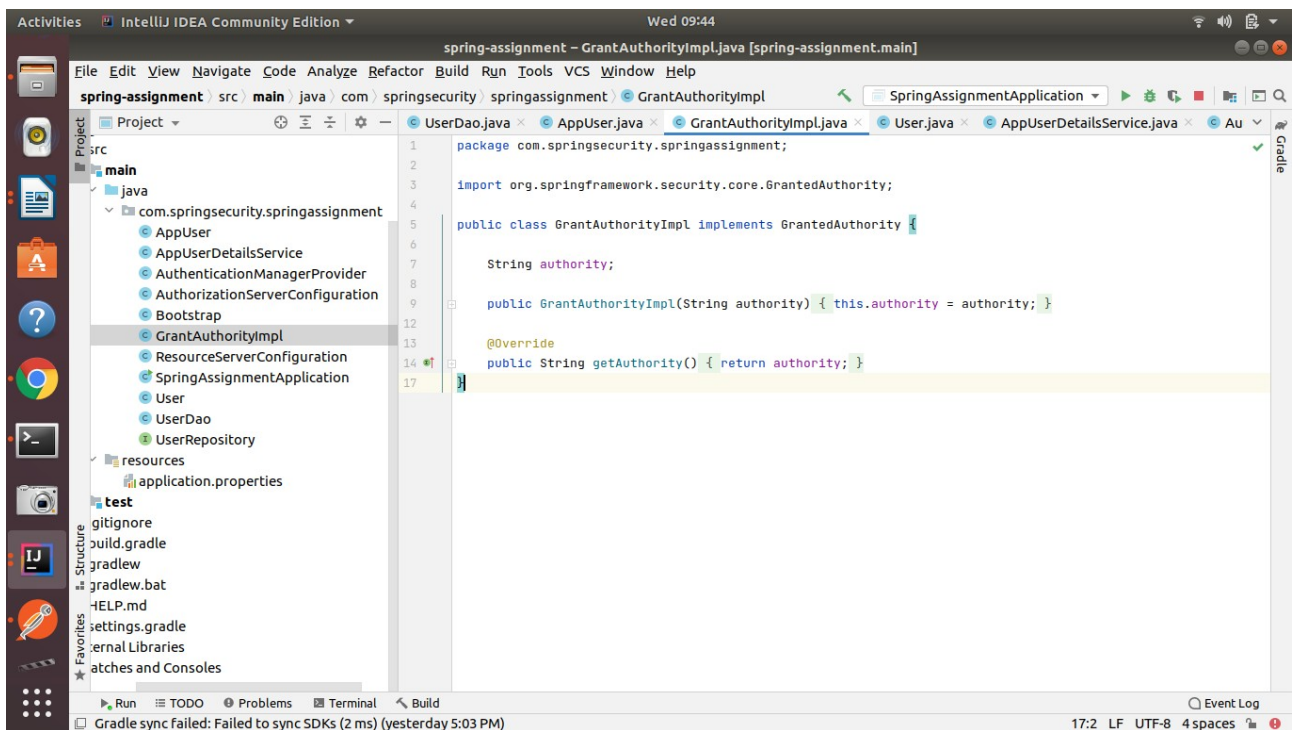
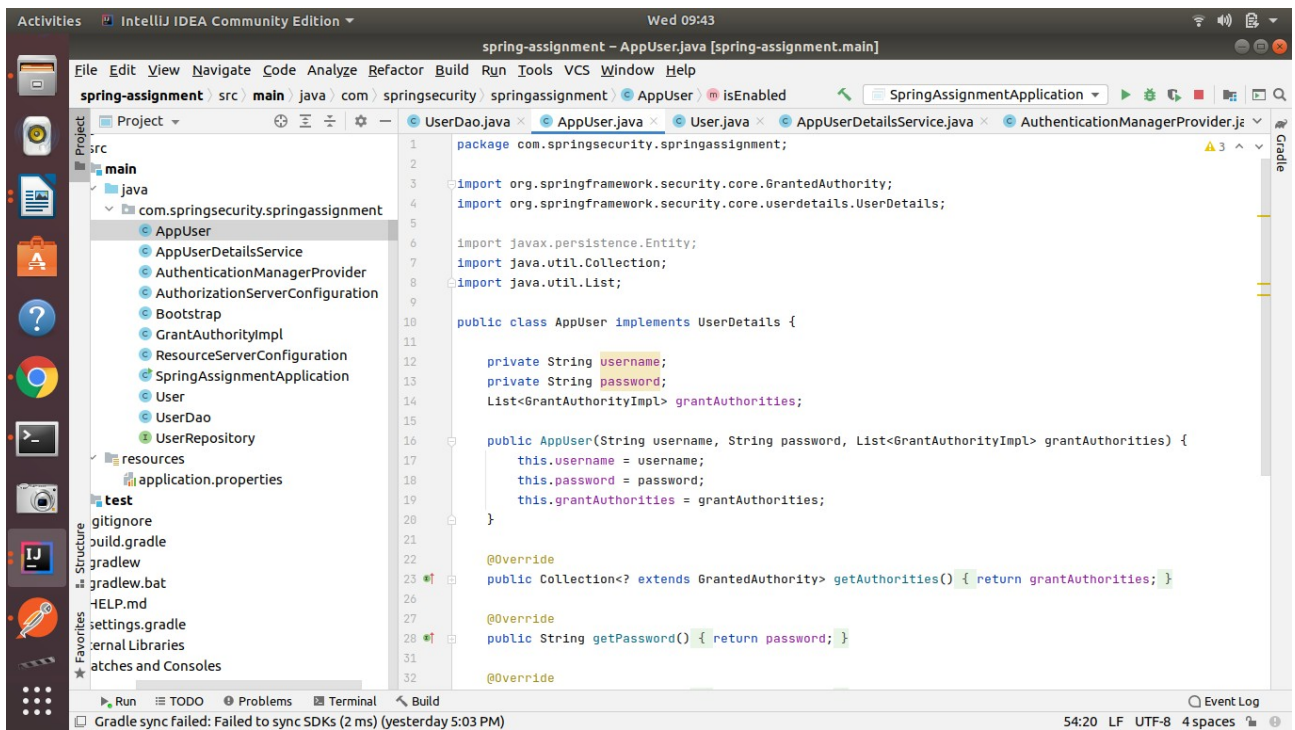
Spring Security oauth 2 Exercise

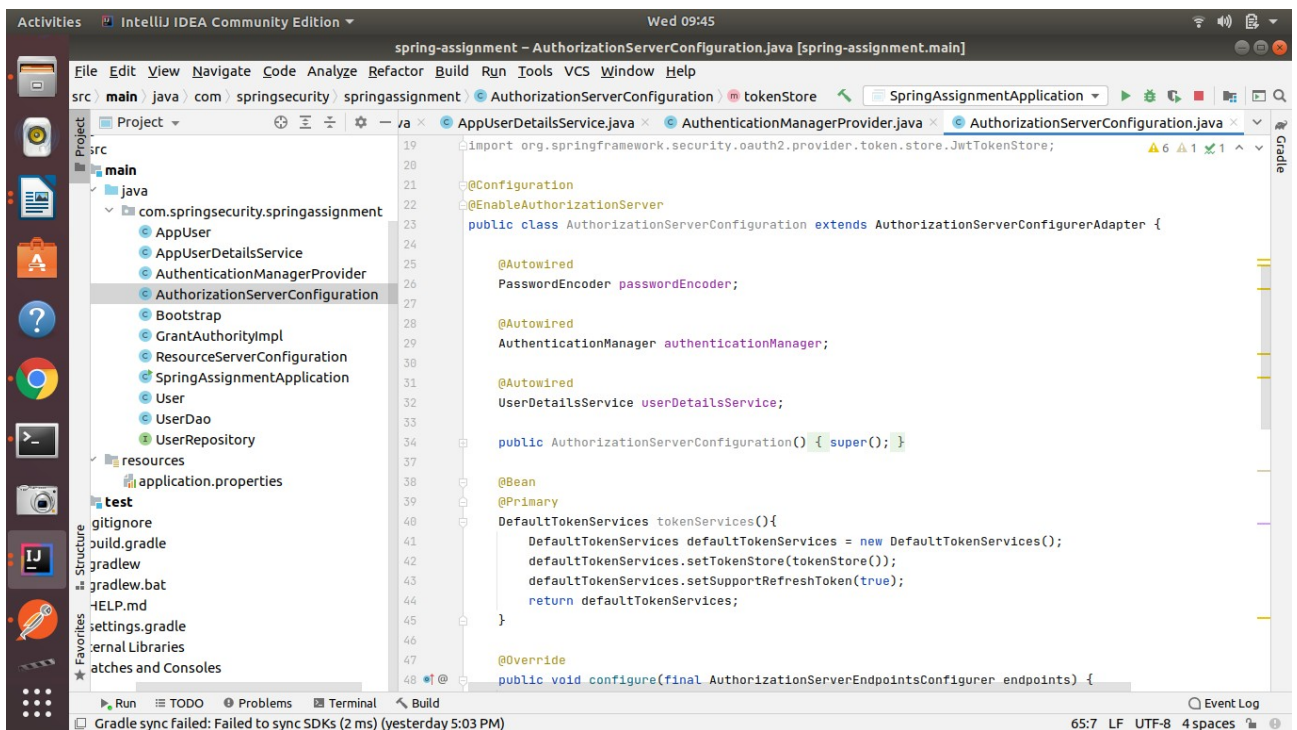
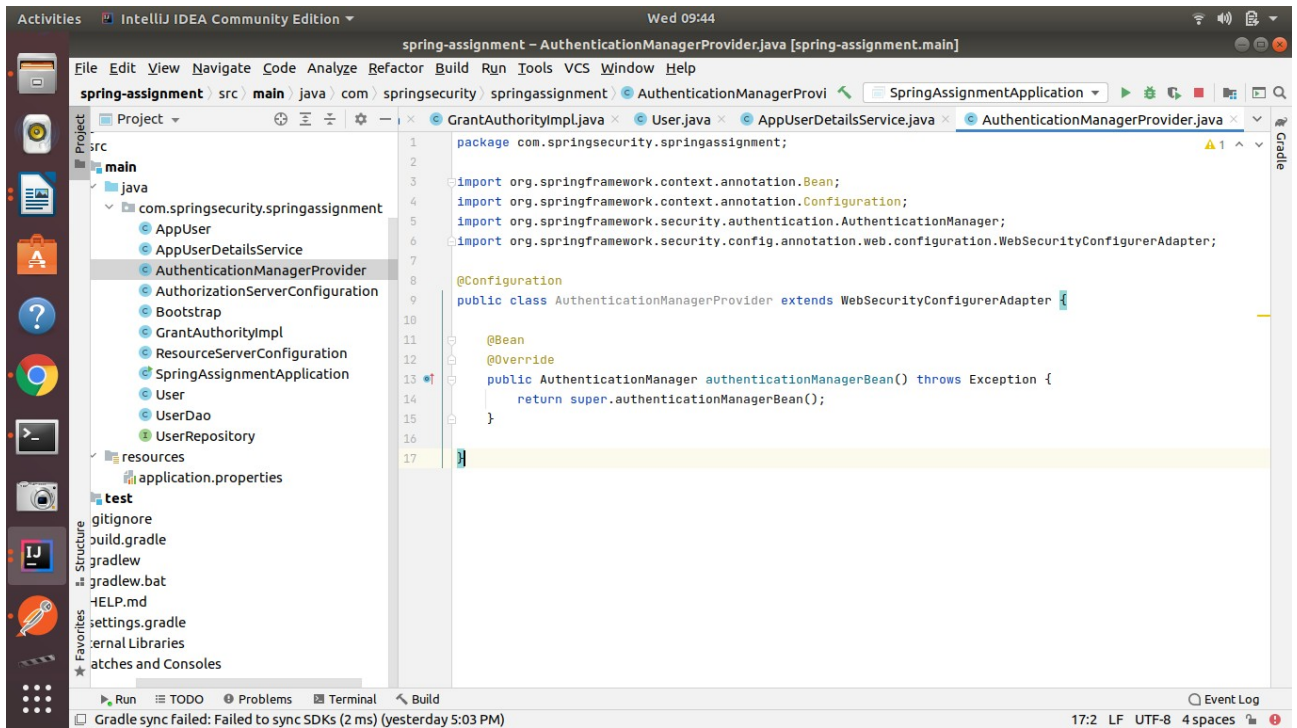
1. Implement oauth 2 using spring security and authenticate a user which is saved in database using spring data jpa.











```

16
17 @Configuration
18 @EnableResourceServer
19 @EnableWebSecurity
20 @EnableGlobalMethodSecurity(securedEnabled = true)
21 public class ResourceServerConfiguration extends ResourceServerConfigurerAdapter {
22
23     @Autowired
24     AppUserDetailsService userDetailsService;
25
26     public ResourceServerConfiguration() { super(); }
27
28     @Bean
29     public static BCryptPasswordEncoder bCryptPasswordEncoder() { return new BCryptPasswordEncoder(); }
30
31     @Bean
32     public AuthenticationProvider authenticationProvider() {
33         final DaoAuthenticationProvider authenticationProvider = new DaoAuthenticationProvider();
34         authenticationProvider.setUserDetailsService(userDetailsService);
35         authenticationProvider.setPasswordEncoder(bCryptPasswordEncoder());
36         return authenticationProvider;
37     }
38
39     @Autowired
40     public void configureGlobal(final AuthenticationManagerBuilder authenticationManagerBuilder) {
41         authenticationManagerBuilder.authenticationProvider(authenticationProvider());
42     }
43
44 }
45
46
47

```

Gradle sync failed: Failed to sync SDKs (2 ms) (yesterday 5:03 PM) 62:2 LF UTF-8 4 spaces

```

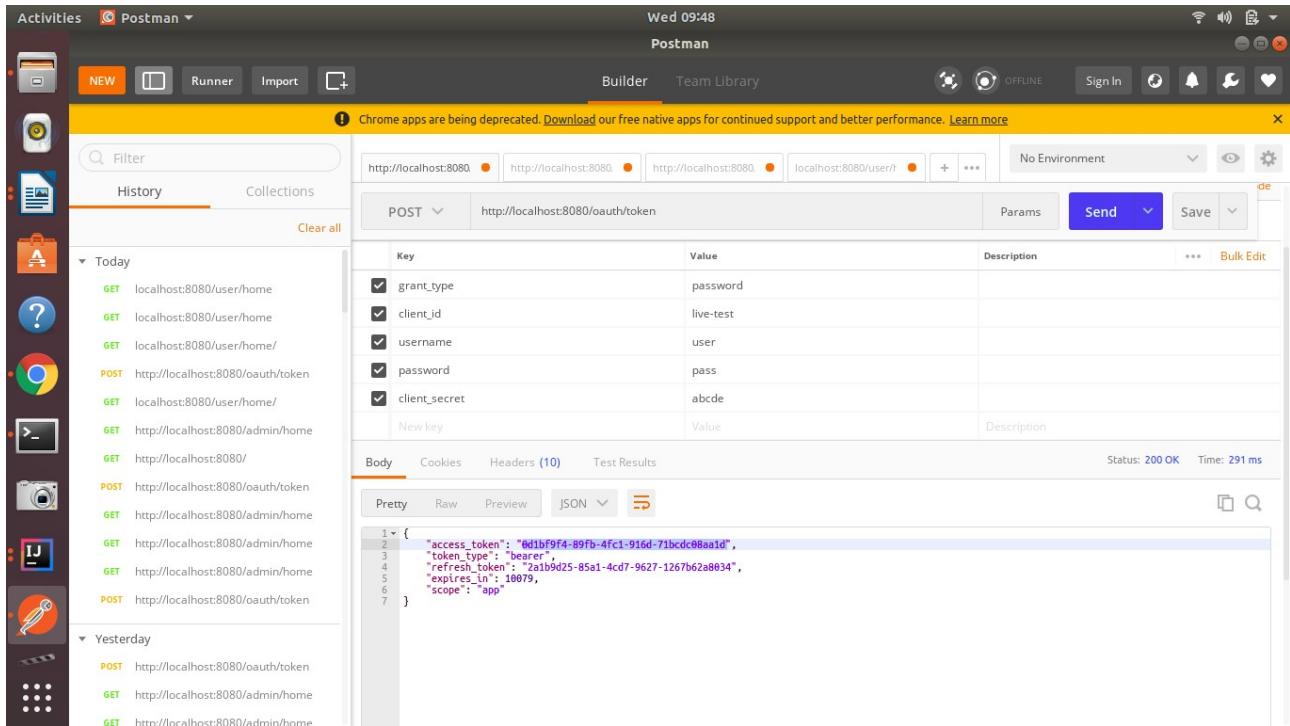
13 @RestController
14 @SpringBootApplication
15 public class SpringAssignmentApplication {
16
17     @Autowired
18     private TokenStore tokenStore;
19
20     @GetMapping("/doLogout")
21     public String logout(HttpServletRequest request) {
22         String authHeader = request.getHeader("Authorization");
23         if (authHeader != null) {
24             String tokenValue = authHeader.replace("Bearer ", "").trim();
25             OAuth2AccessToken accessToken = tokenStore.readAccessToken(tokenValue);
26             tokenStore.removeAccessToken(accessToken);
27         }
28         return "Logged out successfully";
29     }
30
31     @GetMapping(path = "/")
32     public String index() { return "index"; }
33
34     @GetMapping("/admin/home")
35     public String adminHome() { return "Admin home"; }
36
37     @GetMapping("/user/home")
38     public String userHome() { return "User home"; }
39
40     public static void main(String[] args) { SpringApplication.run(SpringAssignmentApplication.class, args); }
41
42 }
43
44
45
46

```

Gradle sync failed: Failed to sync SDKs (2 ms) (yesterday 5:03 PM) 21:52 LF UTF-8 Tab*

#	id	password	role	username	
1	1	\$2a\$10\$.trop7Eq4KSrbY6WSWqJ...	ROLE_USER	user	
2	2	\$2a\$10\$6Ge1nk7BxigkUxY4X4r/0...	ROLE_ADMIN	admin	
*	NULL	NULL	NULL	NULL	

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

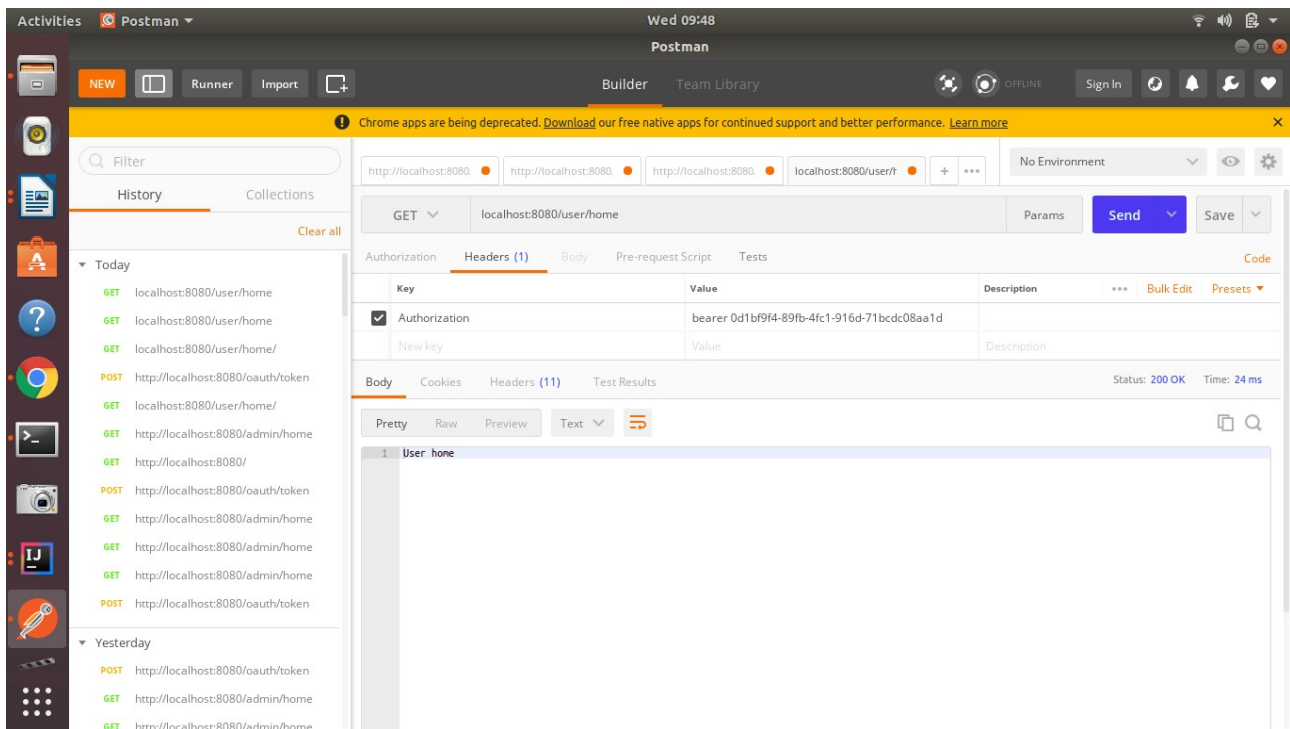


Postman interface showing a POST request to `http://localhost:8080/oauth/token`. The request body contains the following parameters:

Key	Value	Description
<input checked="" type="checkbox"/> grant_type	password	
<input checked="" type="checkbox"/> client_id	live-test	
<input checked="" type="checkbox"/> username	user	
<input checked="" type="checkbox"/> password	pass	
<input checked="" type="checkbox"/> client_secret	abcde	

The response is a JSON object:

```
{  "access_token": "0d1bf9f4-89fb-4fc1-916d-71bcd08aa1d",  "token_type": "bearer",  "refresh_token": "2a1b9d25-85a1-4cd7-9627-1267b62a8034",  "expires_in": 18079,  "scope": "app"}
```



Postman interface showing a GET request to `localhost:8080/user/home`. The request headers include the following parameter:

Key	Value	Description
<input checked="" type="checkbox"/> Authorization	bearer 0d1bf9f4-89fb-4fc1-916d-71bcd08aa1d	

The response body is:

```
User home
```

Activities Postman Wed 09:49

NEW Runner Import Builder Team Library

Chrome apps are being deprecated. [Download](#) our free native apps for continued support and better performance. [Learn more](#)

Filter History Collections

Today

- GET http://localhost:8080/admin/home
- GET http://localhost:8080/admin/home
- GET localhost:8080/user/home
- GET localhost:8080/user/home
- GET localhost:8080/user/home/
- POST http://localhost:8080/oauth/token
- GET localhost:8080/user/home/
- GET http://localhost:8080/
- POST http://localhost:8080/oauth/token
- GET http://localhost:8080/admin/home
- GET http://localhost:8080/admin/home
- GET http://localhost:8080/admin/home
- POST http://localhost:8080/oauth/token

Yesterday

- POST http://localhost:8080/oauth/token
- GET http://localhost:8080/admin/home

GET http://localhost:8080/admin/home

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

Key	Value	Description	*** Bulk Edit Presets
<input checked="" type="checkbox"/> Authorization	Bearer Od1bf9f4-89fb-4fc1-916d-71bcd08aa1d		
New key	Value	Description	

Body Cookies Headers (10) Test Results Status: 403 Forbidden Time: 24 ms

Pretty Raw Preview JSON

```
1 {
2   "error": "access_denied",
3   "error_description": "Access is denied"
4 }
```

Activities Postman Wed 09:49

NEW Runner Import Builder Team Library

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Filter History Collections

Today

- POST http://localhost:8080/oauth/token
- GET http://localhost:8080/admin/home
- GET http://localhost:8080/admin/home
- GET localhost:8080/user/home
- GET localhost:8080/user/home
- GET localhost:8080/user/home/
- POST http://localhost:8080/oauth/token
- GET localhost:8080/user/home/
- GET http://localhost:8080/
- POST http://localhost:8080/oauth/token
- GET http://localhost:8080/admin/home
- GET http://localhost:8080/admin/home
- GET http://localhost:8080/admin/home
- POST http://localhost:8080/oauth/token

Yesterday

- POST http://localhost:8080/oauth/token

POST http://localhost:8080/oauth/token

Key Value Description *** Bulk Edit

<input checked="" type="checkbox"/> grant_type	password		
<input checked="" type="checkbox"/> client_id	live-test		
<input checked="" type="checkbox"/> username	admin		X
<input checked="" type="checkbox"/> password	pass		
<input checked="" type="checkbox"/> client_secret	abcde		
New key	Value	Description	

Body Cookies Headers (10) Test Results Status: 200 OK Time: 294 ms

Pretty Raw Preview JSON

```
1 {
2   "access_token": "37c0ce05-8d46-48ac-bd0d-29d94c1a492b",
3   "token_type": "bearer",
4   "refresh_token": "cca28cc2-684a-4665-a6d9-d938f7c6d021",
5   "expires_in": 8665,
6   "scope": "app"
7 }
```


Activities

Postman

Wed 09:50

Postman

NEWRunnerImportBuilderTeam Library

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Filter

HistoryCollections

Clear all

Today

GET http://localhost:8080/admin/home

POST http://localhost:8080/oauth/token

GET http://localhost:8080/admin/home

GET localhost:8080/user/home

GET localhost:8080/user/home

GET localhost:8080/user/home/

POST http://localhost:8080/oauth/token

GET localhost:8080/user/home/

GET http://localhost:8080/

POST http://localhost:8080/oauth/token

GET http://localhost:8080/admin/home

GET http://localhost:8080/admin/home

GET http://localhost:8080/admin/home

POST http://localhost:8080/oauth/token

Yesterday

POST http://localhost:8080/oauth/token

GET http://localhost:8080/admin/home

AuthorizationHeaders (1)BodyPre-request ScriptTestsCode

KeyValueDescriptionBulk EditPresets

AuthorizationBearer 37c0ce05-8d46-48ac-bd0d-29d04c1a492b

New keyValueDescription

BodyCookiesHeaders (11)Test ResultsStatus: 200 OKTime: 26 ms

PrettyRawPreviewText

1 Admin home