

Spring Security with Authentication

Phase 3 - SpringSecurityAuth/src/main/java/com/simplilearn/demo/CustomAuthenticationProvider.java - Eclipse IDE

```
1 package com.simplilearn.demo;
2 import org.springframework.security.authentication.*;
3
4 public class CustomAuthenticationProvider implements AuthenticationProvider {
5     List<User> dummyUsers = new ArrayList<>();
6
7     public CustomAuthenticationProvider() {
8         dummyUsers.add(new User("john", "secret", "ROLE_USER"));
9         dummyUsers.add(new User("admin", "supersecret", "ROLE_ADMIN"));
10    }
11
12    @Override
13    public Authentication authenticate(Authentication authentication) throws AuthenticationException {
14        String name = authentication.getName();
15        String password = authentication.getCredentials().toString();
16
17        //idk -- stream
18        Optional<User> authenticatedUser = dummyUsers.stream().filter(
19            user -> user.getName().equals(name) && user.getPassword().equals(password)
20        ).findFirst();
21
22        if(!authenticatedUser.isPresent()){
23            throw new BadCredentialsException("Some Text");
24        }
25
26        List<GrantedAuthority> authorities = new ArrayList<>();
27        authorities.add(new SimpleGrantedAuthority(authenticatedUser.get().getRole()));
28        Authentication auth = new UsernamePasswordAuthenticationToken(name, password, authorities);
29        return auth;
30    }
31
32    @Override
33    public boolean supports(Class<?> aClass) {
34        return aClass.equals(UsernamePasswordAuthenticationToken.class);
35    }
36 }
```

Outline:

- com.simplilearn.demo
 - CustomAuthenticationProvider
 - dummyUsers: List<User>
 - CustomAuthenticationProvider()
 - authenticate(Authentication): Authentication
 - supports(Class<?>): boolean

Problems: Javadoc Declaration Progress Servers Console x JUnit

QuizPortal - QuizPortalApplication [Spring Boot App] C:\Program Files\Java\jdk-17.0.2\bin\javaw.exe (30-Aug-2022, 1:24:49 pm)

5:04.608 ERROR 18792 --- [nio-8080-exec-1] o.a.c.c.C.[.].[/].[dispatcherServlet] : Servlet.service() for servlet [dispatcherServlet] in cont

30°C Partly cloudy 1.3 Kbps 1.2 Kbps

Phase 3 - SpringSecurityAuth/src/main/java/com/simplilearn/demo/MainController.java - Eclipse IDE

```
1 package com.simplilearn.demo;
2
3 import org.springframework.web.bind.annotation.RequestMapping;
4
5 @RestController
6 public class MainController {
7
8     @RequestMapping("/")
9     public String hello() {
10         return "Hello World";
11     }
12
13     @RequestMapping("/protected")
14     public String protectedHello() {
15         return "Hello World, I was protected";
16     }
17
18     @RequestMapping("/admin")
19     public String admin() {
20         return "Hello World from admin";
21     }
22 }
23
24 }
```

Outline:

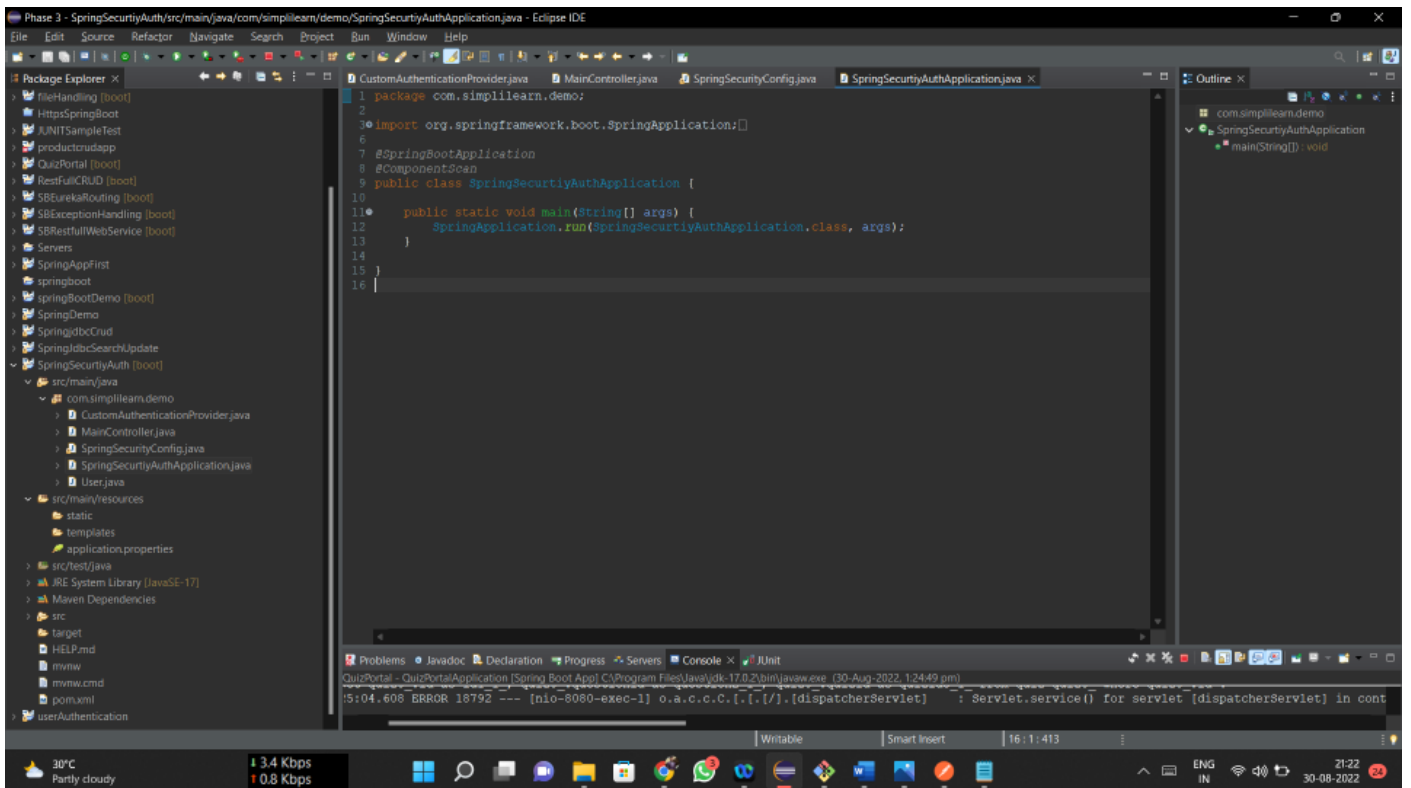
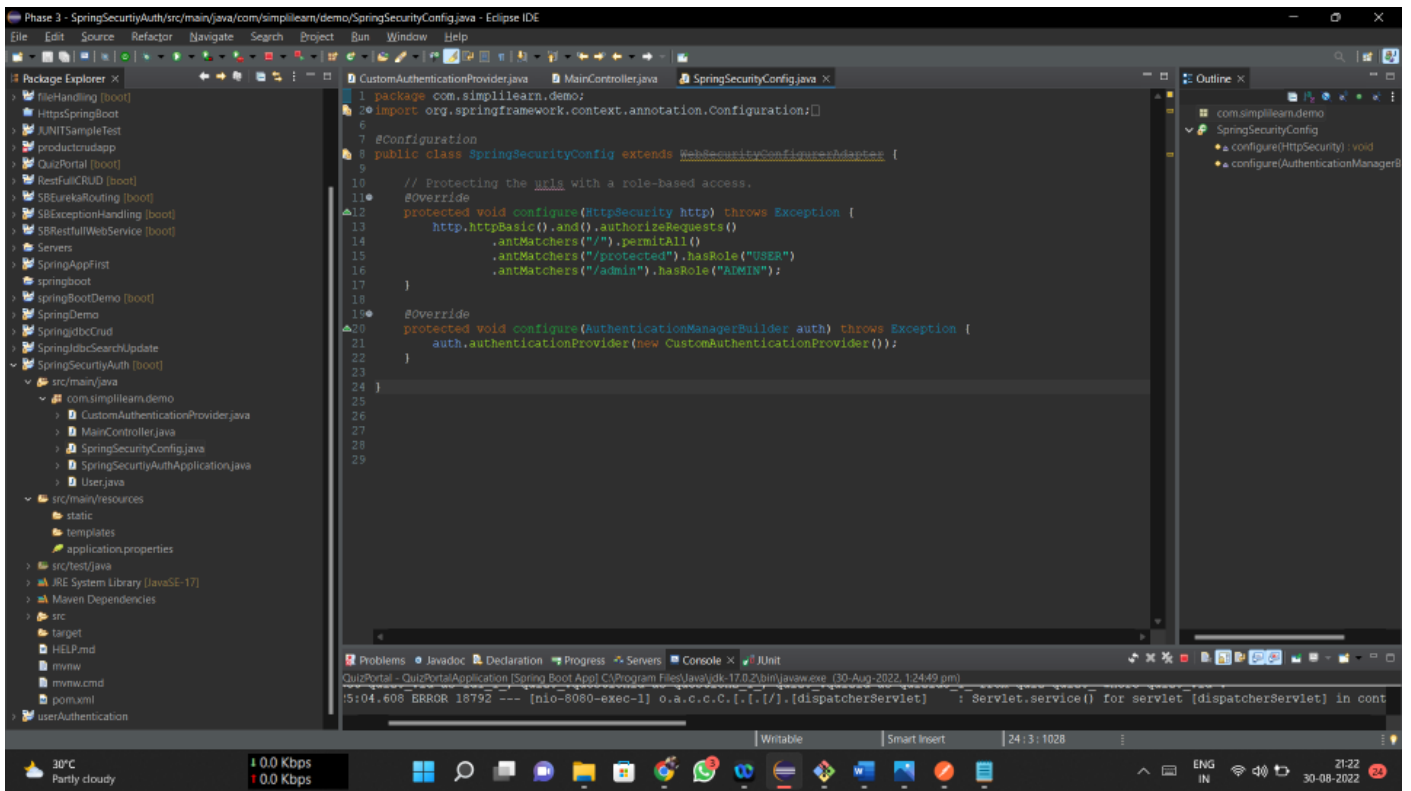
- com.simplilearn.demo
 - MainController
 - hello(): String
 - protectedHello(): String
 - admin(): String

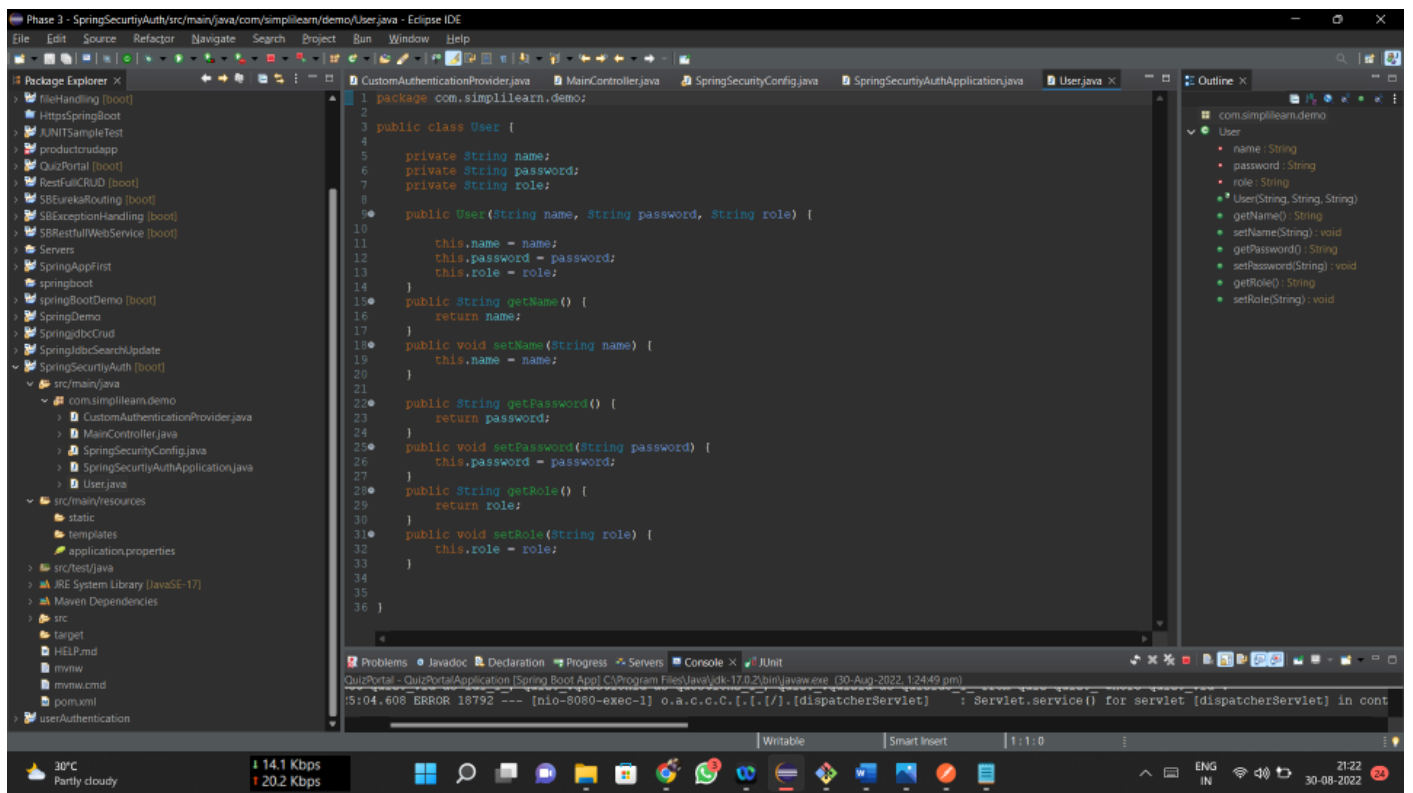
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Hello World





Hello World, i was protected



Hello World from admin

