```
Create authentication service that returns JWT
package com.example.jwtauth.model;
public class JwtRequest {
 private String username;
  private String password;
 public JwtRequest() {}
 public String getUsername() {
   return username;
 }
 public void setUsername(String username) {
   this.username = username;
 }
 public String getPassword() {
   return password;
 }
 public void setPassword(String password) {
   this.password = password;
 }
}
package com.example.jwtauth.model;
public class JwtResponse {
```

```
private String token;
 public JwtResponse(String token) {
   this.token = token;
 }
 public String getToken() {
   return token;
 }
 public void setToken(String token) {
   this.token = token;
 }
package com.example.jwtauth.util;
import io.jsonwebtoken.Jwts;
import io.jsonwebtoken.SignatureAlgorithm;
import org.springframework.stereotype.Component;
import java.util.Date;
@Component
public class JwtUtil {
 private final String SECRET_KEY = "secret123";
 public String generateToken(String username) {
   return Jwts.builder()
```

}

```
.setSubject(username)
       .setIssuedAt(new Date())
       .setExpiration(new Date(System.currentTimeMillis() + 1000 * 60 * 60)) // 1 hour
       .signWith(SignatureAlgorithm.HS256, SECRET_KEY)
       .compact();
 }
}
package com.example.jwtauth.service;
import org.springframework.security.core.userdetails.User;
import org.springframework.security.core.userdetails.UserDetails;
import org.springframework.security.core.userdetails.UserDetailsService;
import org.springframework.security.core.userdetails.UsernameNotFoundException;
import org.springframework.stereotype.Service;
import java.util.ArrayList;
@Service
public class CustomUserDetailsService implements UserDetailsService {
  @Override
  public UserDetails loadUserByUsername(String username) throws
UsernameNotFoundException {
    System.out.println("Attempting login for: " + username);
   if ("admin".equalsIgnoreCase(username)) {
     return new User(
```

```
"admin",
       "$2a$10$Wz3IxLxqxciWBtdOMZgL8O8Es8Q5Qgzv6Fn71g2O6W6pxkq5qaZlG",
// Don't generate this in code!
       new ArrayList<>()
     );
   }else{
     throw new UsernameNotFoundException("User not found");
   }
 }
}
package com.example.jwtauth.config;
import com.example.jwtauth.service.CustomUserDetailsService;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import org.springframework.security.authentication.AuthenticationManager;
import org.springframework.security.authentication.AuthenticationProvider;
import org.springframework.security.authentication.dao.DaoAuthenticationProvider;
import
org.springframework.security.config.annotation.authentication.configuration.Authentic
ationConfiguration;
import org.springframework.security.config.annotation.web.builders.HttpSecurity;
import
org.springframework.security.config.annotation.web.configuration.EnableWebSecurity;
import org.springframework.security.core.userdetails.UserDetailsService;
import org.springframework.security.crypto.bcrypt.BCryptPasswordEncoder;
import org.springframework.security.crypto.password.PasswordEncoder;
import org.springframework.security.web.SecurityFilterChain;
```

```
@Configuration
@EnableWebSecurity
public class SecurityConfig {
 @Bean
 public UserDetailsService userDetailsService() {
   return new CustomUserDetailsService();
 }
 @Bean
 public PasswordEncoder passwordEncoder() {
   return new BCryptPasswordEncoder(); // No orange warning here
 }
 @SuppressWarnings("deprecation")
      @Bean
 public AuthenticationProvider authenticationProvider() {
   DaoAuthenticationProvider provider = new DaoAuthenticationProvider();
   provider.setUserDetailsService(userDetailsService());
   provider.setPasswordEncoder(passwordEncoder());
   return provider;
 }
 @Bean
 public\ Authentication Manager\ authentication Manager\ (Authentication Configuration)
config) throws Exception {
   return config.getAuthenticationManager();
```

```
}
 @Bean
 public SecurityFilterChain filterChain(HttpSecurity http) throws Exception {
   return http
       .csrf(csrf -> csrf.disable())
       .authorizeHttpRequests(auth -> auth
           .requestMatchers("/authenticate").permitAll()
           .anyRequest().authenticated()
       )
       .build();
 }
}
package com.example.jwtauth.controller;
import com.example.jwtauth.model.JwtRequest;
import com.example.jwtauth.model.JwtResponse;
import com.example.jwtauth.util.JwtUtil;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.http.ResponseEntity;
import org.springframework.security.authentication.AuthenticationManager;
import org.springframework.security.authentication.BadCredentialsException;
import
org.springframework.security.authentication.UsernamePasswordAuthenticationToken;
import org.springframework.web.bind.annotation.*;
@RestController
public class AuthController {
```

```
@Autowired
  private AuthenticationManager authenticationManager;
  @Autowired
  private JwtUtil jwtUtil;
  @PostMapping("/authenticate")
 public ResponseEntity<?> createToken(@RequestBody JwtRequest request) {
   try {
     authenticationManager.authenticate(
         new UsernamePasswordAuthenticationToken(
            request.getUsername(), request.getPassword())
     );
   } catch (BadCredentialsException e) {
     return ResponseEntity.status(401).body("Invalid Credentials");
   }
   final String token = jwtUtil.generateToken(request.getUsername());
   return ResponseEntity.ok(new JwtResponse(token));
 }
OUTPUT:
```

}

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                                                                                                                 1 package com.example.jwtauth;
     □ 03_HCQL
     © 08_SpringMVCDemo
© 11_SpringBootLoginDemo
Ø ControlStructureProject
Ø countryconfig [boot]
                                                                                                                 {\tt 3*import} \  \, {\tt org.springframework.boot.SpringApplication;} \square
                                                                                                              6 @SpringBootApplication
                                                                                                                  7 public class JwtAuthApplication {
     course-registration-service
                                                                                                                                       public static void main(String[] args) {
     course-registration-service
course-service
demo
dependency-injection-demo
                                                                                                                                                          SpringApplication.run(JwtAuthApplication.class, args);
     e-commerce (in spring boot api)

ECommerceSearchApp
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     eureka-server
     & Problems # Servers & Terminal # Data Source Explorer Droperties Oconsole × © Outline Julinit

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                 # com.example.iwtauth.config
                 # com.example.iwtauth.controller
                                                                                                          Attempting login for: admin
            # com.example.jwtauth.controll
# com.example.jwtauth.model
# com.example.jwtauth.service
# com.example.jwtauth.util
```