# WEEK 4: Spring REST using Spring Boot 3

## Exercise 6: Create authentication service that returns JWT

This code sets up a basic JWT-based authentication endpoint that returns a signed token. It uses the JJWT library to construct the token.

### Coding:

**AuthenticationController.java:**

@RestController  
public class AuthenticationController {  
 @GetMapping("/authenticate")  
 public Map<String, String> authenticate() {  
 String token = Jwts.builder()  
 .setSubject("user")  
 .setIssuedAt(new Date())  
 .setExpiration(new Date(System.currentTimeMillis() + 3600000))  
 .signWith(SignatureAlgorithm.HS256, "secret".getBytes())  
 .compact();  
 return Map.of("token", token);  
 }  
}

### Output:

