**SUPERSET ID - 6412891**

# Week 4

## JWT-handson

## Create authentication service that returns JWT

## JwtUtil Token Generator

**pom.xml**

<dependencies>

<!-- Spring Boot Starter Web -->

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-web</artifactId>

</dependency>

<!-- Spring Boot Starter Security -->

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-security</artifactId>

</dependency>

<!-- JWT -->

<dependency>

<groupId>io.jsonwebtoken</groupId>

<artifactId>jjwt</artifactId>

<version>0.9.1</version>

</dependency>

</dependencies>

**SecurityConfig.java**

package com.cognizant.springlearn.security;

import org.springframework.context.annotation.Bean;

import org.springframework.context.annotation.Configuration;

import org.springframework.security.config.Customizer;

import org.springframework.security.config.annotation.web.builders.HttpSecurity;

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.provisioning.InMemoryUserDetailsManager;

import org.springframework.security.web.SecurityFilterChain;

@Configuration

public class SecurityConfig {

@Bean

public UserDetailsService userDetailsService() {

UserDetails user = User.withUsername("user")

.password("{noop}pwd") // {noop} means plain text password

.roles("USER")

.build();

return new InMemoryUserDetailsManager(user);

}

@Bean

public SecurityFilterChain filterChain(HttpSecurity http) throws Exception {

http.csrf(csrf -> csrf.disable())

.authorizeHttpRequests(authz -> authz

.requestMatchers("/authenticate").authenticated()

.anyRequest().permitAll()

)

.httpBasic(Customizer.withDefaults());

return http.build();

}

}

**JwtUtil.java**

package com.cognizant.springlearn.util;

import io.jsonwebtoken.Jwts;

import io.jsonwebtoken.SignatureAlgorithm;

import java.util.Date;

import org.springframework.stereotype.Component;

@Component

public class JwtUtil {

private final String SECRET\_KEY = "secret";

public String generateToken(String username) {

return Jwts.builder()

.setSubject(username)

.setIssuedAt(new Date(System.currentTimeMillis()))

.setExpiration(new Date(System.currentTimeMillis() + 1000 \* 60 \* 10)) // 10 minutes

.signWith(SignatureAlgorithm.HS256, SECRET\_KEY)

.compact();

}

}