**Create authentication service that returns JWT** 

**SecurityConfig**

package com.example.jwtauth.config;

import org.springframework.context.annotation.Configuration;

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

import org.springframework.security.config.annotation.web.configuration.WebSecurityConfigurerAdapter;

@Configuration

public class SecurityConfig extends WebSecurityConfigurerAdapter {

@Override

protected void configure(HttpSecurity http) throws Exception {

http.csrf().disable().authorizeRequests().anyRequest().permitAll();

}

}

**AuthenticationController**

package com.example.jwtauth.controller;

import io.jsonwebtoken.Jwts;

import io.jsonwebtoken.SignatureAlgorithm;

import org.springframework.http.ResponseEntity;

import org.springframework.web.bind.annotation.GetMapping;

import org.springframework.web.bind.annotation.RequestHeader;

import org.springframework.web.bind.annotation.RestController;

import java.util.Base64;

import java.util.Date;

@RestController

public class AuthenticationController {

private static final String SECRET\_KEY = "mysecretkey12345";

@GetMapping("/authenticate")

public ResponseEntity<?> authenticate(@RequestHeader("Authorization") String authHeader) {

if (authHeader == null || !authHeader.startsWith("Basic ")) {

return ResponseEntity.status(401).body("Missing or invalid Authorization header");

}

String base64Credentials = authHeader.substring("Basic ".length());

byte[] credDecoded = Base64.getDecoder().decode(base64Credentials);

String credentials = new String(credDecoded);

String[] values = credentials.split(":", 2);

if (values.length != 2 || !values[0].equals("user") || !values[1].equals("pwd")) {

return ResponseEntity.status(401).body("Invalid username or password");

}

String jwt = Jwts.builder()

.setSubject(values[0])

.setIssuedAt(new Date())

.setExpiration(new Date(System.currentTimeMillis() + 600000))

.signWith(SignatureAlgorithm.HS256, SECRET\_KEY.getBytes())

.compact();

return ResponseEntity.ok("{"token":"" + jwt + ""}");

}

}

**JwtAuthApplication**

package com.example.jwtauth;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class JwtAuthApplication {

public static void main(String[] args) {

SpringApplication.run(JwtAuthApplication.class, args);

}

}

**pom.xml**

<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">

<modelVersion>4.0.0</modelVersion>

<groupId>com.example</groupId>

<artifactId>jwt-auth</artifactId>

<version>1.0-SNAPSHOT</version>

<parent>

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

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

<version>2.5.4</version>

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

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

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<dependency>

<groupId>io.jsonwebtoken</groupId>

<artifactId>jjwt</artifactId>

<version>0.9.1</version>

</dependency>

</dependencies>

</project>