**Create authentication service that returns JWT**

**6.JwtAuthApplication.java**

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);

}

}

**SecurityConfig.java**

package config;

import org.springframework.context.annotation.Bean;

import org.springframework.context.annotation.Configuration;

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

import org.springframework.security.web.SecurityFilterChain;

@Configuration

public class SecurityConfig {

@Bean

public SecurityFilterChain filterChain(HttpSecurity http) throws Exception {

http

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

.authorizeHttpRequests(auth -> auth

.requestMatchers("/authenticate").permitAll()

.anyRequest().authenticated()

);

return http.build();

}

}

**AuthController.java**

package com.example.jwtauth.controller;

import util.JwtUtil;

import org.springframework.http.ResponseEntity;

import org.springframework.web.bind.annotation.\*;

import java.util.Base64;

@RestController

public class AuthController {

@GetMapping("/authenticate")

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

String[] credentials = extractUsernamePassword(authHeader);

String username = credentials[0];

String password = credentials[1];

if ("user".equals(username) && "pwd".equals(password)) {

String token = JwtUtil.generateToken(username);

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

} else {

return ResponseEntity.status(401).body("Invalid credentials");

}

}

private String[] extractUsernamePassword(String authHeader) {

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

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

return new String(decoded).split(":", 2);

}

}

**HomeController.java**

package com.example.jwtauth;

import org.springframework.stereotype.Controller;

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

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

*@Controller*

public class HomeController {

*@GetMapping*("/")

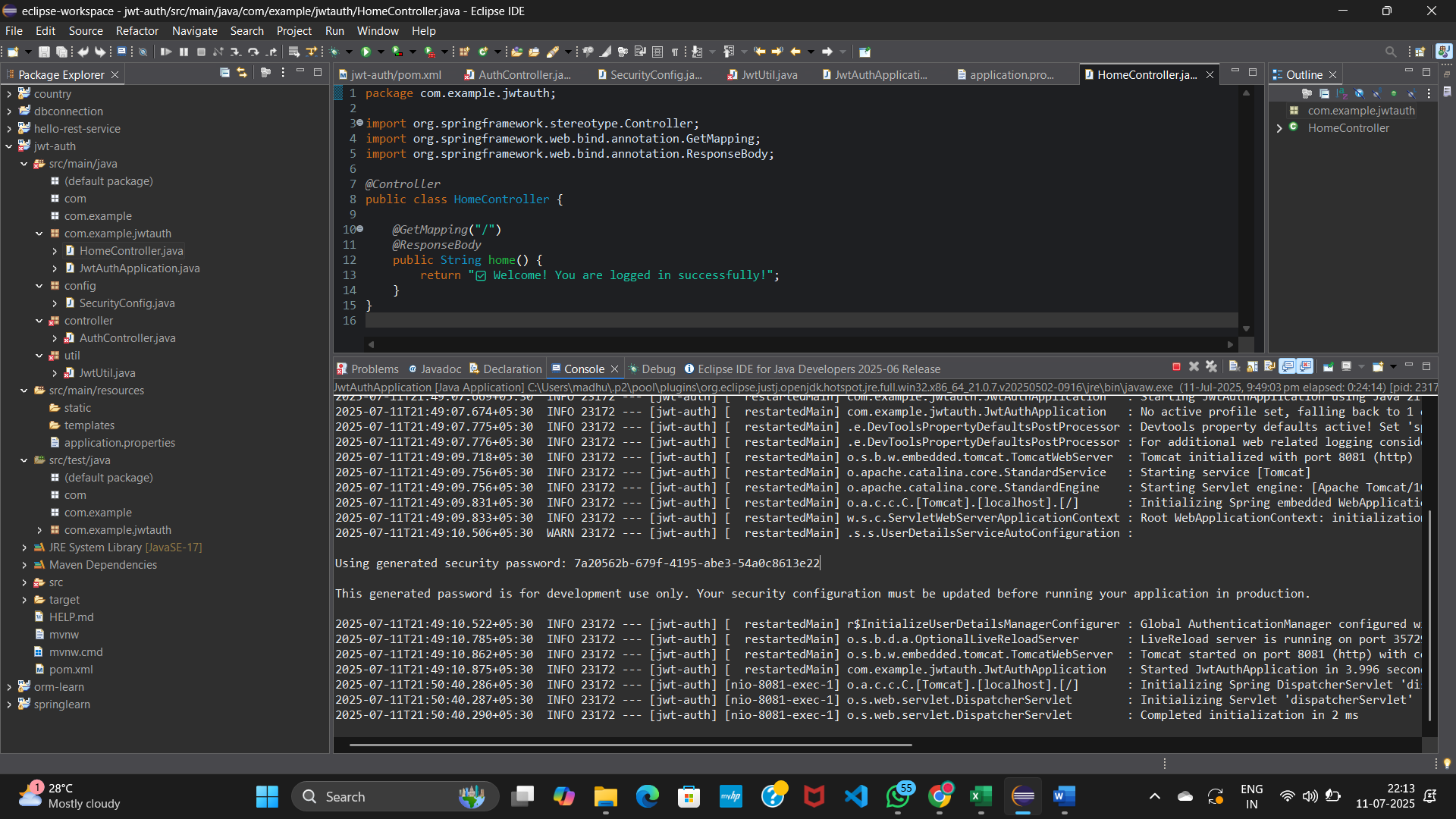
*@ResponseBody*

public String home() {

}

}

**OUTPUT:**

****

