**Java Spring Boot Restful – Getting Started with Security**

Add below dependencies

<dependency>

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

<artifactId>spring-boot-starter-oauth2-resource-server</artifactId>

</dependency>

<dependency>

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

<artifactId>spring-boot-configuration-processor</artifactId>

<optional>true</optional>

</dependency>

**Create a folder -> security -> Inside that -> SecurityConfig.java**

package org.studyeasy.SpringRestdemo.security;

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.config.annotation.web.configuration.EnableWebSecurity;

import org.springframework.security.core.userdetails.User;

import org.springframework.security.provisioning.InMemoryUserDetailsManager;

import org.springframework.security.web.SecurityFilterChain;

@Configuration

@EnableWebSecurity

public class SecurityConfig {

    @Bean

    public InMemoryUserDetailsManager users() {

        return new InMemoryUserDetailsManager(

                User.withUsername("chaand")

                        .password("{noop}password")

                        .authorities("read")

                        .build());

    }

    @Bean

    public SecurityFilterChain securityFilterChain(HttpSecurity http) throws Exception {

        http

                .authorizeHttpRequests(customizer -> customizer

                        .requestMatchers("/token").permitAll()

                        .requestMatchers("/").permitAll()

                        .requestMatchers("/swagger-ui/\*\*").permitAll()

                        .requestMatchers("/v3/api-docs/\*\*").permitAll()

                        .requestMatchers("/test").authenticated());

        return http.build();

    }

}

**Create a folder -> config -> Inside that -> SwaggerConfig.java**

package org.studyeasy.SpringRestdemo.config;

import org.springframework.context.annotation.Configuration;

import io.swagger.v3.oas.annotations.OpenAPIDefinition;

import io.swagger.v3.oas.annotations.info.Contact;

import io.swagger.v3.oas.annotations.info.Info;

import io.swagger.v3.oas.annotations.info.License;

@Configuration

@OpenAPIDefinition(

  info =@Info(

    title = "Demo API",

    version = "Verions 1.0",

    contact = @Contact(

      name = "StudyEasy", email = "admin@studyeasy.org", url = "https://studyeasy.org"

    ),

    license = @License(

      name = "Apache 2.0", url = "https://www.apache.org/licenses/LICENSE-2.0"

    ),

    termsOfService = "https://studyeasy.org/",

    description = "Spring Boot RestFul API Demo by Chaand"

  )

)

public class SwaggerConfig {

}

**SpringRestDemoApplication.java**

package org.studyeasy.SpringRestdemo;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

import io.swagger.v3.oas.annotations.security.SecurityScheme;

import io.swagger.v3.oas.annotations.enums.\*;

@SpringBootApplication

@SecurityScheme(name = "studyeasy-demo-api", scheme = "bearer", type = SecuritySchemeType.HTTP, in = SecuritySchemeIn.HEADER)

public class SpringRestdemoApplication {

    public static void main(String[] args) {

        SpringApplication.run(SpringRestdemoApplication.class, args);

    }

}

**Create a folder -> controller -> Inside that -> AccountController.java**

package org.studyeasy.SpringRestdemo.controller;

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

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

@RestController

public class AccountController {

    @GetMapping("/")

    public String demo(){

        return "Hello World!..";

    }

    @GetMapping("/test")

    public String test(){

        return "Test api..";

    }

}

**Pom.xml**

<?xml version="1.0" encoding="UTF-8"?>

<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 https://maven.apache.org/xsd/maven-4.0.0.xsd">

    <modelVersion>4.0.0</modelVersion>

    <parent>

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

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

        <version>3.3.2</version>

        <relativePath /> <!-- lookup parent from repository -->

    </parent>

    <groupId>org.studyeasy</groupId>

    <artifactId>SpringRestdemo</artifactId>

    <version>0.0.1-SNAPSHOT</version>

    <name>SpringRestdemo</name>

    <description>Demo project for Spring Boot</description>

    <url />

    <licenses>

        <license />

    </licenses>

    <developers>

        <developer />

    </developers>

    <scm>

        <connection />

        <developerConnection />

        <tag />

        <url />

    </scm>

    <properties>

        <java.version>17</java.version>

    </properties>

    <dependencies>

        <dependency>

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

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

        </dependency>

        <dependency>

            <groupId>org.projectlombok</groupId>

            <artifactId>lombok</artifactId>

            <optional>true</optional>

        </dependency>

        <dependency>

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

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

            <scope>test</scope>

        </dependency>

        <!-- Adding openapi v2.6.0 : URL - https://springdoc.org/-->

        <dependency>

            <groupId>org.springdoc</groupId>

            <artifactId>springdoc-openapi-starter-webmvc-ui</artifactId>

            <version>2.6.0</version>

        </dependency>

        <!-- Adding dependancies derived from outside - date - 2/8/2024-->

         <!-- Pre requsite for Spring Security-->

        <dependency>

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

            <artifactId>spring-boot-starter-oauth2-resource-server</artifactId>

        </dependency>

        <!-- Adding dependancies derived from outside - date - 2/8/2024-->

        <dependency>

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

            <artifactId>spring-boot-configuration-processor</artifactId>

            <optional>true</optional>

        </dependency>

    </dependencies>

    <build>

        <plugins>

            <plugin>

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

                <artifactId>spring-boot-maven-plugin</artifactId>

                <configuration>

                    <excludes>

                        <exclude>

                            <groupId>org.projectlombok</groupId>

                            <artifactId>lombok</artifactId>

                        </exclude>

                    </excludes>

                </configuration>

            </plugin>

        </plugins>

    </build>

</project>