

GitHub Link: <https://github.com/chaitra-bhat20/java-fsd.git>

DemoController

```
package com.example.demo;
```

```
import org.springframework.stereotype.Controller;
```

```
import org.springframework.web.bind.annotation.RequestMapping;
```

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

```
@Controller
```

```
public class DemoController {
```

```
@ResponseBody
```

```
    @RequestMapping("/")
```

```
    public String demomsg() {
```

```
        return "general audience";
```

```
    }
```

```
@ResponseBody
```

```
@RequestMapping("/access1")
```

```
public String demomsgadmin() {
```

```
    return "admin audience";
```

```
}
```

```
@ResponseBody
```

```
@RequestMapping("/access2")
```

```
public String demomsguser() {
```

```
        return "user audience";
    }

    @ResponseBody
    @RequestMapping("/access3")
    public String demomsguseradmin() {
        return "admin user audience";
    }
}
```

SecurityConfig

```
package com.example.demo;

import org.springframework.context.annotation.Bean;
import
org.springframework.security.config.annotation.authentication.builders.Authenticat
ionManagerBuilder;
import org.springframework.security.config.annotation.web.builders.HttpSecurity;
import
org.springframework.security.config.annotation.web.configuration.EnableWebSecu
rity;
import
org.springframework.security.config.annotation.web.configuration.WebSecurityCo
nfigurerAdapter;
import org.springframework.security.crypto.password.NoOpPasswordEncoder;
import org.springframework.security.crypto.password.PasswordEncoder;
```

@EnableWebSecurity

public class SecurityConfig extends WebSecurityConfigurerAdapter {

 @Override

 protected void configure(AuthenticationManagerBuilder auth) throws
Exception {

 auth.inMemoryAuthentication()

 .withUser("admin")

 .password("admin")

 .roles("ADMIN")

 .and()

 .withUser("user")

 .password("user")

 .roles("USER");

 }

@Bean

public PasswordEncoder getPassword() {

 return NoOpPasswordEncoder.getInstance();

}

@Override

protected void configure(HttpSecurity http) throws Exception {

```

        http.authorizeHttpRequests()
            .antMatchers("/access1").hasRole("ADMIN")
            .antMatchers("/access2").hasRole("USER")
            .antMatchers("/access3").hasAnyRole("ADMIN","USER")
            .antMatchers("/").permitAll().and().formLogin();
    }
}

```

ServletInitializer

```

package com.example.demo;

import org.springframework.boot.builder.SpringApplicationBuilder;
import org.springframework.boot.web.servlet.support.SpringBootServletInitializer;

public class ServletInitializer extends SpringBootServletInitializer {

    @Override
    protected SpringApplicationBuilder configure(SpringApplicationBuilder
application) {
        return application.sources(SpringsecurityApplication.class);
    }

}

```

SpringsecurityApplication

```
package com.example.demo;
```

```
import org.springframework.boot.SpringApplication;
```

```
import org.springframework.boot.autoconfigure.SpringBootApplication;
```

```
@SpringBootApplication
```

```
public class SpringsecurityApplication {
```

```
    public static void main(String[] args) {
```

```
        SpringApplication.run(SpringsecurityApplication.class, args);
```

```
    }
```

```
}
```

application.properties

```
spring.security.user.name=admin
```

```
spring.security.user.password=admin
```

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>2.7.12</version>
        <relativePath/> <!-- lookup parent from repository -->
    </parent>
    <groupId>com.example</groupId>
    <artifactId>springsecurity</artifactId>
    <version>0.0.1-SNAPSHOT</version>
    <packaging>war</packaging>
    <name>springsecurity</name>
    <description>Demo project for Spring Boot</description>
    <properties>
        <java.version>1.8</java.version>
    </properties>
    <dependencies>

        <dependency>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-starter-security</artifactId>
        </dependency>
        <dependency>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-starter-web</artifactId>
        </dependency>

        <dependency>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-devtools</artifactId>
            <scope>runtime</scope>
            <optional>true</optional>
        </dependency>

        <dependency>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-starter-tomcat</artifactId>
            <scope>provided</scope>
        </dependency>
        <dependency>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-starter-test</artifactId>
            <scope>test</scope>
        </dependency>
    </dependencies>

```

```
        <dependency>
            <groupId>org.springframework.security</groupId>
            <artifactId>spring-security-test</artifactId>
            <scope>test</scope>
        </dependency>
    </dependencies>

    <build>
        <plugins>
            <plugin>
                <groupId>org.springframework.boot</groupId>
                <artifactId>spring-boot-maven-plugin</artifactId>
            </plugin>
        </plugins>
    </build>

</project>
```