

## Spring Security with Authentication --->

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>2.5.6</version>
    <relativePath/> <!-- lookup parent from repository -->
  </parent>
  <groupId>com.example</groupId>
  <artifactId>ShoppingCart</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <name>ShoppingCart</name>
  <description>Demo project for Spring Boot</description>
  <properties>
    <java.version>17</java.version>
  </properties>
  <dependencies>
    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-data-jpa</artifactId>
    </dependency>
    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-web</artifactId>
    </dependency>
  <dependency>
    <groupId>org.apache.tomcat.embed</groupId>
    <artifactId>tomcat-embed-jasper</artifactId>
    <version>9.0.44</version>
    <scope>provided</scope>
  </dependency>
  <dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-tomcat</artifactId>
    <version>2.4.4</version>
    <scope>provided</scope>
  </dependency>
</dependencies>
```

```

        <groupId>javax.servlet</groupId>
        <artifactId>jstl</artifactId>
        <version>1.2</version>
    </dependency>
    <dependency>
        <groupId>>taglibs</groupId>
        <artifactId>standard</artifactId>
        <version>1.1.2</version>
    </dependency>
    <dependency>
        <groupId>mysql</groupId>
        <artifactId>mysql-connector-java</artifactId>
        <scope>runtime</scope>
    </dependency>
    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-test</artifactId>
        <scope>test</scope>
    </dependency>

```

<--- Security Dependency---

```

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

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

</project>

```

Login.jsp webapp-/WeB-INF/Views/ ----->

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>User Login</title>
</head>
<body>

    <form action="/doLogin" method="post">
        <p>User Name: <input type="text" name="username" /></p>
        <p>Password: <input type="password" name="password" /></p>
        <p><input type="submit" value="Sign In" />
    </form>

</body>
</html>
```

Security Config Class----->

```
package com.example.Ecom.config;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import
org.springframework.security.config.annotation.authentication.builders.Authenticati
onManagerBuilder;
import org.springframework.security.config.annotation.web.builders.HttpSecurity;
import
org.springframework.security.config.annotation.web.configuration.EnableWebSecurity;
import
org.springframework.security.config.annotation.web.configuration.WebSecurityConfigu
rerAdapter;
import org.springframework.security.crypto.bcrypt.BCryptPasswordEncoder;
import org.springframework.security.crypto.password.PasswordEncoder;
```

```

@EnableWebSecurity
@Configuration
public class SecurityConfig extends WebSecurityConfigurerAdapter{

    public SecurityConfig() {
        super();
    }

    @Autowired
    public void configureGlobal(AuthenticationManagerBuilder auth) throws Exception
{ // @formatter:off
        auth.
            inMemoryAuthentication().passwordEncoder(passwordEncoder()).
            withUser("modi").password(passwordEncoder().encode("pm")).
            roles("USER");
    }

    @Override
    protected void configure(HttpSecurity http) throws Exception { //
@formatter:off
        http
            .authorizeRequests()
                .anyRequest().authenticated()

            .and()
            .formLogin().
                loginPage("/login").permitAll().
                loginProcessingUrl("/doLogin")

            .and()
            .logout().permitAll().logoutUrl("/logout")

            .and()
            .csrf().disable()
            ;
    }

    @Bean
    public PasswordEncoder passwordEncoder() {
        return new BCryptPasswordEncoder();
    }
}

```

WebMVCconfiguration File---->

```

package com.example.Ecom.config;

import org.springframework.context.annotation.Configuration;
import org.springframework.core.Ordered;
import org.springframework.web.servlet.config.annotation.ViewControllerRegistry;
import org.springframework.web.servlet.config.annotation.WebMvcConfigurer;

@Configuration
public class WebMvcConfiguration implements WebMvcConfigurer {

    @Override
    public void addViewControllers(ViewControllerRegistry registry) {
        registry.addViewController("/login")
            .setViewName("loginPage");

        registry.setOrder(Ordered.HIGHEST_PRECEDENCE);
    }
}

```

Main class --->

```

package com.example.Ecom;

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

@SpringBootApplication
public class ShoppingCartApplication {

    public static void main(String[] args) {
        SpringApplication.run(ShoppingCartApplication.class, args);
    }

}

```