

Shiro、Spring Security

Spring Boot 整合 Spring Security

## 快速上手 Spring Security

### 1、创建 Maven 工程，pom.xml

```
<parent>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-parent</artifactId>
  <version>2.1.5.RELEASE</version>
</parent>

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

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

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

### 2、创建 Handler

```
package com.southwind.controller;

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

@Controller
public class HelloHandler {

    @GetMapping("/index")
    public String index(){
        return "index";
    }
}
```

### 3、创建 HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Title</title>
</head>
<body>
  <h1>Hello World</h1>
</body>
</html>
```

### 4、创建 application.yml

```
spring:
  thymeleaf:
    prefix: classpath:/templates/
    suffix: .html
```

### 5、创建启动类 Application

```
package com.southwind.controller;

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

@SpringBootApplication
public class Application {
    public static void main(String[] args) {
        SpringApplication.run(Application.class, args);
    }
}
```

### 6、设置自定义密码

```
spring:
  thymeleaf:
    prefix: classpath:/templates/
    suffix: .html
  security:
    user:
      name: admin
      password: 123123
```

## 权限管理

定义两个 HTML 资源：index.html、admin.html，同时定义两个角色 ADMIN 和 USER，ADMIN 拥有访问 index.html 和 admin.html 的权限，USER 只有访问 index.html 的权限。

7、创建 SecurityConfig 类。

```
package com.southwind.config;

import org.springframework.context.annotation.Configuration;
import org.springframework.security.config.annotation.authentication.builders.AuthenticationManagerBuilder;
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.WebSecurityConfigurerAdapter;

@Configuration
@EnableWebSecurity
public class SecurityConfig extends WebSecurityConfigurerAdapter {

    @Override
    protected void configure(AuthenticationManagerBuilder auth) throws Exception {
        auth.inMemoryAuthentication().passwordEncoder(new MyPasswordEncoder())
            .withUser("user").password(new MyPasswordEncoder().encode("000")).roles("USER")
            .and()
            .withUser("admin").password(new MyPasswordEncoder().encode("123")).roles("ADMIN", "USER");
    }

    @Override
    protected void configure(HttpSecurity http) throws Exception {
        http.authorizeRequests().antMatchers("/admin").hasRole("ADMIN")
            .antMatchers("/index").access("hasRole('ADMIN') or hasRole('USER')")
            .anyRequest().authenticated()
            .and()
            .formLogin()
            .loginPage("/login")
            .permitAll()
            .and()
            .logout()
    }
}
```

```

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

```

## 8、修改 Handler

```

package com.southwind.controller;

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

@Controller
public class HelloHandler {

    @GetMapping("/index")
    public String index(){
        return "index";
    }

    @GetMapping("/admin")
    public String admin(){
        return "admin";
    }

    @GetMapping("/login")
    public String login(){
        return "login";
    }
}

```

## 9、login.html

```

<!DOCTYPE html>
<html xmlns:th="http://www.thymeleaf.org">
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Title</title>
</head>
<body>
    <form th:action="@{/login}" method="post">
        用户名: <input type="text" name="username"/><br/>
        密码: <input type="text" name="password"/><br/>
        <input type="submit" value="登录"/>
    </form>

```

```
</body>
</html>
```

## 10、index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Title</title>
</head>
<body>
  <h1>Hello World</h1>
  <form action="/logout" method="post">
    <input type="submit" value="退出"/>
  </form>
</body>
</html>
```

## 11、admin.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Title</title>
</head>
<body>
  <h1>后台管理系统</h1>
  <form action="/logout" method="post">
    <input type="submit" value="退出"/>
  </form>
</body>
</html>
```