

SpringSecurity(Source Code)

src/main/java

com.project.SpringSecurity(Package)

MvcConfig.java(Class)

```
package com.project.SpringSecurity;
```

```
import org.springframework.context.annotation.Configuration;
```

```
import  
org.springframework.web.servlet.config.annotation.ViewControllerRegi  
stry;
```

```
import  
org.springframework.web.servlet.config.annotation.WebMvcConfigurer  
;
```

```
@Configuration
```

```
public class MvcConfig implements WebMvcConfigurer{
```

```
public void addViewControllers(ViewControllerRegistry registry) {  
    registry.addViewController("/index").setViewName("index");  
    registry.addViewController("/").setViewName("index");  
    registry.addViewController("/login").setViewName("login");  
  
    registry.addViewController("/welcome").setViewName("welcome  
");  
}  
}
```

SpringSecurityApplication.java(Class)

```
package com.project.SpringSecurity;
```

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

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

```
import
```

```
org.springframework.data.jpa.repository.config.EnableJpaRepositories;
```

```
import com.project.SpringSecurity.repositories.UsersRepository;
```

```
@SpringBootApplication
```

```
@EnableJpaRepositories(basePackageClasses = UsersRepository.class)
```

```
public class SpringSecurityApplication {
```

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

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

```
    }
```

```
}
```

```
WebSecurityConfig.java(Class)
```

```
package com.project.SpringSecurity;
```

```
import org.slf4j.Logger;
```

```
import org.slf4j.LoggerFactory;

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
.AuthenticationManagerBuilder;

import
org.springframework.security.config.annotation.web.builders.HttpSecur
ity;

import
org.springframework.security.config.annotation.web.configuration.Ena
bleWebSecurity;

import
org.springframework.security.config.annotation.web.configuration.Web
SecurityConfigurerAdapter;

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

import
org.springframework.security.crypto.password.NoOpPasswordEncoder;

import
org.springframework.security.crypto.password.PasswordEncoder;

@SuppressWarnings("deprecation")
```

@Configuration

@EnableWebSecurity

```
public class WebSecurityConfig extends WebSecurityConfigurerAdapter
{
```

```
    Logger logger =
    LoggerFactory.getLogger(WebSecurityConfig.class);
```

@Autowired

```
UserDetailsService userDetailsService;
```

@Bean

```
public PasswordEncoder getPasswordEncoder() {
    return NoOpPasswordEncoder.getInstance();
}
```

@Autowired

```
public void configureGlobal(AuthenticationManagerBuilder auth)
throws Exception {
    auth.userDetailsService(userDetailsService);
}
```

@Override

protected void configure(HttpSecurity http) throws Exception {

 http.authorizeRequests()

 .antMatchers("/", "/index").permitAll()

 .anyRequest().authenticated()

 .and()

 .formLogin()

 .loginPage("/login")

 .defaultSuccessUrl("/welcome")

 .failureUrl("/login?error=true")

 .permitAll()

 .and()

 .logout()

 .logoutSuccessUrl("/login?logout=true")

 .invalidateHttpSession(true)

 .permitAll()

 .and()

 .csrf()

 .disable();

```
}  
}
```

com.project.SpringSecurity.entities(Package)

MyUserDetails.java(Class)

```
package com.project.SpringSecurity.entities;
```

```
import java.util.Collection;
```

```
import org.springframework.security.core.GrantedAuthority;
```

```
import org.springframework.security.core.userdetails.UserDetails;
```

```
public class MyUserDetails implements UserDetails{
```

```
    private static final long serialVersionUID = 1L;
```

```
private String userName;
```

```
private String password;
```

```
public MyUserDetails() {
```

```
}
```

```
public MyUserDetails(User user) {
```

```
    this.userName = user.getName();
```

```
    this.password = user.getPassword();
```

```
}
```

```
@Override
```

```
public Collection<? extends GrantedAuthority> getAuthorities() {
```

```
    return null;
```

```
}
```

```
@Override
```

```
public String getPassword() {
```

```
    return password;
```



```
}
```

```
@Override
```

```
public String getUsername() {
```

```
    return userName;
```

```
}
```

```
@Override
```

```
public boolean isAccountNonExpired() {
```

```
    return true;
```

```
}
```

```
@Override
```

```
public boolean isAccountNonLocked() {
```

```
    return true;
```

```
}
```

```
@Override
```

```
public boolean isCredentialsNonExpired() {
```

```
    return true;
```

```
}
```

```
@Override
```

```
public boolean isEnabled() {
```

```
    return true;
```

```
}
```

```
}
```

User.java(Class)

```
package com.project.SpringSecurity.entities;
```

```
import javax.persistence.Entity;
```

```
import javax.persistence.GeneratedValue;
```

```
import javax.persistence.GenerationType;
```

```
import javax.persistence.Id;
```

```
import javax.persistence.Table;
```

@Entity

@Table(name="user")

public class User {

 @Id

 @GeneratedValue(strategy=GenerationType.AUTO)

 private Integer id;

 private String name;

 private String password;

 public User() {

 super();

 }

 public User(String name, String password) {

```
    super();  
    this.name = name;  
    this.password = password;  
}
```

```
public String getName() {  
    return name;  
}
```

```
public void setName(String name) {  
    this.name = name;  
}
```

```
public String getPassword() {  
    return password;  
}
```

```
public void setPassword(String password) {  
    this.password = password;  
}
```

```
}
```

com.project.SpringSecurity.repositories(Package)

```
package com.project.SpringSecurity.repositories;
```

```
import java.util.Optional;
```

```
import org.springframework.data.repository.CrudRepository;
```

```
import org.springframework.stereotype.Repository;
```

```
import com.project.SpringSecurity.entities.User;
```

```
@Repository
```

```
public interface UsersRepository extends CrudRepository<User,  
Integer>{
```

```
    public Optional<User> findUserByName(String name);  
}
```

com.project.SpringSecurity.services(Package)

MyUserDetailsService.java(Class)

```
package com.project.SpringSecurity.services;
```

```
import java.util.Optional;
```

```
import org.springframework.beans.factory.annotation.Autowired;
```

```
import  
org.springframework.security.core.userdetails.UserDetailsService;
```

```
import  
org.springframework.security.core.userdetails.UsernameNotFoundException
```

ption;

import org.springframework.stereotype.Service;

import com.project.SpringSecurity.entities.MyUserDetails;

import com.project.SpringSecurity.entities.User;

import com.project.SpringSecurity.repositories.UsersRepository;

@Service

public class MyUserDetailsService implements UserDetailsService {

 @Autowired

 UsersRepository userRepo;

 public User GetUserByName(String name) {

 Optional<User> user = userRepo.findUserByName(name);

 if(!user.isPresent()) throw new RuntimeException();

 return user.get();

 }

@Override

```
        public org.springframework.security.core.userdetails.UserDetails
loadUserByUsername(String username)

            throws UsernameNotFoundException {

            return new MyUserDetails(GetUserByName(username));

        }

    }
}
```

jsp

index.jsp

```
<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml"

    xmlns:th="http://www.thymeleaf.org"

    xmlns:sec="http://www.thymeleaf.org/thymeleaf-extras-springsecurity3"

    xmlns:layout="http://www.ultraq.net.nz/thymeleaf/layout">

<head>

<title>Greetings!</title>

</head>

<body>
```



```
<h1>Welcome!</h1>

<p>
    Click <a th:href="@{/welcome}">here</a> to see a greeting.
</p>
</body>
</html>
```

login.jsp

```
<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml" xmlns:th="https://www.thymeleaf.org"
      xmlns:sec="https://www.thymeleaf.org/thymeleaf-extras-springsecurity3">
    <head>
        <title>Login</title>
    </head>
    <body>
        <div th:if="${param.error}">
            Invalid username or password.
        </div>
        <div th:if="${param.logout}">
            You have been logged out.
        </div>
        <form th:action="@{/Login}" method="post">
            <div><label> User Name : <input type="text" name="username"/> </label></div>
            <div><label> Password: <input type="password" name="password"/>
</label></div>
```

```
        <div><input type="submit" value="Sign In"/></div>

    </form>

    <a href="/">Return to Main Page</a>

</body>
</html>
```

welcome.jsp

```
<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml" xmlns:th="https://www.thymeleaf.org"
      xmlns:sec="https://www.thymeleaf.org/thymeleaf-extras-springsecurity3">

    <head>

        <title>Welcome!</title>

    </head>

    <body>

        <h1 th:inline="text">Hello [[${#httpServletRequest.remoteUser}]]!</h1>

        <form th:action="@{/Logout}" method="post">

            <input type="submit" value="Sign Out"/>

        </form>

    </body>

</html>
```