package com.project.SpringSecurity;

import org.springframework.context.annotation.Configuration;

import org.springframework.web.servlet.config.annotation.ViewControllerRegistry;

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");

}

}

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);

}

}

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.HttpSecurity;

import org.springframework.security.config.annotation.web.configuration.EnableWebSecurity;

import org.springframework.security.config.annotation.web.configuration.WebSecurityConfigurerAdapter;

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();

}

}

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;

}

}

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;

}

}

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);

}

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;

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));

}

}

package com.project.SpringSecurity;

import org.junit.jupiter.api.Test;

import org.springframework.boot.test.context.SpringBootTest;

@SpringBootTest

class SpringSecurityApplicationTests {

@Test

void contextLoads() {

}

}