Spring Security

**Spring Security?**

Spring Security provides a comprehensive security solution for Java EE-based enterprise software applications. Spring Security is a framework that focuses on providing both authentication and authorization to Java applications. Like all Spring projects, the real power of Spring Security is found in how easily it can be extended to meet custom requirements.

As you probably know two major areas of application security are "authentication" and "authorization" (or "access-control"). These are the two main areas that Spring Security targets. "Authentication" is the process of establishing a principal is who they claim to be (a "principal" generally means a user, device or some other system which can perform an action in your application)."Authorization" refers to the process of deciding whether a principal is allowed to perform an action within your application.

At an authentication level, Spring Security supports a wide range of authentication models:

Authentication Models:

* HTTP BASIC authentication headers (an IETF RFC-based standard)
* HTTP Digest authentication headers (an IETF RFC-based standard)
* HTTP X.509 client certificate exchange (an IETF RFC-based standard)
* LDAP (a very common approach to cross-platform authentication needs, especially in large environments)
* Form-based authentication (for simple user interface needs)
* OpenID authentication

Along with these models, many models are provided by third party vendors also such as Direct Web Request (DWR), Grails, Tapestry, JTrac, Jasypt, Roller & many more.

Authorization:

Irrespective of the authentication mechanism, Spring Security provides a deep set of authorization capabilities. There are three main areas of interest: authorizing web requests, authorizing whether methods can be invoked and authorizing access to individual domain object instances.

**Using Spring Session?**

How can we use spring session to manage http session?

1. **Required jars**
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12. **Required Jars**

A minimal Spring Security Maven set of dependencies typically looks like the following:

build.gradle

compile 'org.springframework.security:spring-security-web:4.2.3.RELEASE'

compile 'org.springframework.security:spring-security-config:4.2.3.RELEASE'

If you are using Maven to build your application, get the below dependencies:

pom.xml

<dependency>

<groupId>org.springframework.security</groupId>

<artifactId>spring-security-web</artifactId>

<version>4.2.3.RELEASE</version>

</dependency>

<dependency>

<groupId>org.springframework.security</groupId>

<artifactId>spring-security-config</artifactId>

<version>4.2.3.RELEASE</version>

</dependency>

1. **Basic Configuration**

The first step is to create our Spring Security Java Configuration. The configuration creates a Servlet Filter known as the *springSecurityFilterChain* which is responsible for all the security (protecting the application URLs, validating submitted username and passwords, redirecting to the log in form, etc) within your application.

**@EnableWebSecurity**

Add this annotation to an @Configuration class to have the Spring Security configuration defined in any *WebSecurityConfigurer* or more likely by extending the *WebSecurityConfigurerAdapter* base class and overriding individual methods:

For example:

@Configuration

@EnableRedisHttpSession

public class SecurityConfig extends WebSecurityConfigurerAdapter {

@Override

protected void configure(AuthenticationManagerBuilder auth) {

// enable in memory based authentication with a user named "user" and "admin"

auth.inMemoryAuthentication().withUser("user").password("password").roles("USER")

.and().withUser("admin").password("password").roles("USER", "ADMIN");

}

}

The above configuration will add a basic configuration with in-memory authentication having user credentials as USERNAME = user & PASSWORD = password, with user roles as USER. Similarly, we can multiple users with different roles also. Check new user added with admin/password credentials with roles as USER & ADMIN, using and() method.

The above simple configuration will implement the following features:

* Require authentication to every URL in your application
* Generate a login form for you
* Allow the user with the Username user and the Password password to authenticate with form based authentication
* Allow the user to logout
* Also add following attributed to HttpServletRequest, which can be used to get details
  + remoteUser
  + userPrincipal

**Registering Spring Security with the war**

We have created the Spring Security configuration i.e., springSecurityFilterChain, but we still need to register it with the war. Spring has given many WebApplicationInitializer. One of those will take care of it, which is AbstractSecurityWebApplicationInitializer. Simply, by extending this above class, configuration will be registered.

For example:

**public** **class** SecurityInit **extends**

AbstractSecurityWebApplicationInitializer{

/\*

\* Not required if we are using Spring MVC configure to load context.

\* Security configuration has to be loaded by mvc configuration.

\* @see WebMvcCongi.java

\*/

**public** SecurityInit() {

**super**(SecurityConfig.**class**);

}

**How does it work??**

We have written configuration along with registration of filter to spring. Now, how does spring will know which urls to authenticate or user roles to be authorize. How it will generate the login page, take care of credentials management. All these queries are taken care by WebSecurityConfigurerAdapter. This will provide default configuration. Below is the default configuration of WebSecurityConfigurerAdapter:

For example:

protected void configure(HttpSecurity http) throws Exception {

http

.authorizeRequests()

.anyRequest().authenticated()

.and()

.formLogin()

.and()

.httpBasic();

}

**Advanced Configuration**

To have custom authentication & authorization support & more control over these settings, we can override the above method as follows:

@Override

**protected** **void** configure(HttpSecurity http) **throws** Exception {

http.authorizeRequests()

.antMatchers("/", "/public/\*\*").permitAll()

.antMatchers("/user/login\*", "/user/listAll/\*\*")

.access("hasRole('USER') or hasRole('ADMIN')")

.antMatchers("/user/\*\*")

.hasRole("ADMIN") .and().exceptionHandling()

.accessDeniedPage("/user/accessDenied")

.and()

.formLogin()

.loginPage("/user/login") .loginProcessingUrl("/user/login")

.permitAll()

.and()

.logout()

.logoutUrl("/logout")

.permitAll();

}

Let’s check the above configuration:

We specified multiple URL patterns that any user can access. Specifically, any user can access a request if the URL starts with “/”, “/public/”. URL starting with /user/login & /user/listAll can be accessed by only users having roles as USER & ADMIN. /user/\*\* url will be accessible to only ADMIN role users.

* If users don’t have required access roles then they will get default access denied exception showing page. We can customize this by using

.exceptionHandling()

.accessDeniedPage("/user/accessDenied")

* The default page is created by spring security to get the credentials. We can ask for our own login page & processing as below:

.formLogin()

.loginPage("/user/login") .loginProcessingUrl("/user/login")

* Similarly, for custom output page, use these configurations:

.logout()

.logoutUrl("/logout")

1. **Authenticating with Backend Support**

As of now, we added users & roles manually in configuration. But, it is not efficient for multiusers & roles based security.

**UserDetailsService:**

This interface is core interface to load user specific data. This interface needs to be implemented by overriding its single method

UserDetails loadUserByUsername(String username) throws UsernameNotFoundException;

Implemented class has to override this method by loading the required user object from underlaying backend support. If not found the passed username, will throw Exception. The loaded user object has to be converted in org.springframework.security.core.userdetails.User class object, to be recognized by UserDetailsService. This class will have users’ username, password & roles details to authorize for a particular request.

@Override

**public** UserDetails loadUserByUsername(String username) **throws** UsernameNotFoundException {

***logger***.info("Access user info from db");

UserBO user = userService.findByUserName(username)

.orElseThrow(() -> **new** UsernameNotFoundException(String.*format*("User with username=%s was not found", username)));

**return** **new** CurrentUser(user);

}

**Configuration** for **UserDetailsService**:

@Autowired

@Qualifier("userDetailsServiceImpl")

UserDetailsService userDetailsService;

@Override

**protected** **void** configure(AuthenticationManagerBuilder auth) **throws** Exception {

auth.userDetailsService(userDetailsService);

}

1. **Applying remember-me security**

Remember-me or persistent-login authentication refers to web sites being able to remember the identity of a principal between sessions. This is typically accomplished by sending a cookie to the browser, with the cookie being detected during future sessions and causing automated login to take place.

Spring Security supports two concrete remember-me implementations. One uses hashing to preserve the security of cookie-based tokens and the other uses a database or other persistent storage mechanism to store the generated tokens. Both implementations require a UserDetailsService**.**

Remember-me is used with UsernamePasswordAuthenticationFilter, and is implemented via hooks in the AbstractAuthenticationProcessingFilter superclass.

The following configuration demonstrates how to allow token based remember me authentication. Upon authenticating if the HTTP parameter named "remember-me" exists, then the user will be remembered even after their javax.servlet.http.HttpSession expires.

@Override

**protected** **void** configure(HttpSecurity http) **throws** Exception {

http.authorizeRequests()

.antMatchers("/\*\*").hasRole("USER")

.and()

.formLogin()

.permitAll().and()

// Example Remember Me Configuration

.rememberMe();

}

**PersistentTokenBasedRememberMeServices**

This class can be used in the same way as TokenBasedRememberMeServices, but it additionally needs to be configured with a PersistentTokenRepository to store the tokens. There are two standard implementations.

* InMemoryTokenRepositoryImpl which is intended for testing only.
* JdbcTokenRepositoryImpl which stores the tokens in a database.
* Custome TokenRepository – manipulating tokens programmatically.
* InMemoryTokenRepositoryImpl : simple PersistentTokenRepository implementation backed by a Map. It can be used for testing the application.
* JdbcTokenRepostoryImpl : JDBC based persistent login token repository implementation.

JdbcTokenRepositoryImpl configuration required datasource as following:

@Bean

**public** PersistentTokenRepository persistentTokenRepository() {

JdbcTokenRepositoryImpl db = **new** JdbcTokenRepositoryImpl();

db.setDataSource(dataSource);

**return** db;

}

And additional configuration which is required to add is as follows with having token validity time in seconds.

.rememberMe()

.tokenRepository(persistentTokenRepository())

.tokenValiditySeconds(12000)

* Custom token Repository : To store persistent logins token of the user, We can define our own token repository by implementing PersistentTokenRepository(i) and overriding then following methods:

**void** createNewToken(PersistentRememberMeToken token);

**void** updateToken(String series,String tokenValue, Date lastUsed);

PersistentRememberMeToken getTokenForSeries(String seriesId);

**void** removeUserTokens(String username);

For this, we need to create an entity which will contain token details as follow:

@Entity

@Table(name="token\_persistent")

**public** **class** PersistentLogin {

@Id

**private** String series;

@Column(name="USERNAME", unique=**true**, nullable=**false**)

**private** String username;

@Column(name="TOKEN", unique=**true**, nullable=**false**)

**private** String token;

@Temporal(TemporalType.***TIMESTAMP***)

**private** Date last\_used;

//setters n getters

}

PersistentRememberMeToken is identical entity but not having setter to it. PersistentTokenBasedRememberMeServices will create token value, series and date attribute for the above entity. For example, below is one implemented method to store the token at specific db:

@Override

**public** **void** createNewToken(PersistentRememberMeToken token) {

***logger***.info("Creating Token for user : " + token.getUsername());

PersistentLogin persistentLogin = **new** PersistentLogin();

persistentLogin.setUsername(token.getUsername());

persistentLogin.setSeries(token.getSeries());

persistentLogin.setToken(token.getTokenValue());

persistentLogin.setLast\_used(token.getDate());

EntityManager em = entityFactory.createEntityManager();

Session session = em.unwrap(Session.**class**);

String series = **null**;

**try** {

Transaction transaction = session.beginTransaction();

series = (String) session.save(persistentLogin);

transaction.commit();

} **catch** (Exception e) {

***logger***.error(" Exception :" + e);

}

***logger***.info("New token created... : " + series);

}

Diff. b/w **authenticated()** & **fullyAuthenticated()**

If we have configured remember-me services for spring security, then after a user request for any secured resource to access, their credentials will be stored in cookie. This will be further used for recognizing the users authority.

As per the configuration, users authorized once, no longer required to reenter credentials for subsequent resource access. This will save time and increase user interactions. However, for certain situations, any critical resource has to access for spontaneous authority only, such payment or critical modification of application’s resource.

In these cases, it if feasible to not remember authority or ask for user credentials always. For this purpose, we can configure fullyAuthenticated() upon rememberMe() service as follows.

@Override

**protected** **void** configure(HttpSecurity http) **throws** Exception {

http.authorizeRequests()

.antMatchers("/", "/public/\*\*").permitAll()

.antMatchers("/user/register/\*\*").permitAll()

.antMatchers("/user/\*\*").hasRole("ADMIN”)

.anyRequest().fullyAuthenticated()

.and()

.formLogin

.permitAll()

.and()

.logout()//.logoutUrl("/logout")

.deleteCookies("remember-me", "JSESSIONID")

.logoutSuccessUrl("/")

.permitAll()

.and()

.rememberMe();

}

1. **Adding Filters**

Spring Security provides many filters by default, and most of the time, these are enough. But of course, sometimes it’s necessary to implement new functionality with create a new filter to use in the chain. We can add filters before one of the known Filter classes or after a filter or at location of existing filter class. The known Filter instances are either a Filter listed below:

* [ChannelProcessingFilter](eclipse-javadoc:%E2%98%82=security-java-config/C:%5C/Users%5C/ankush.verman%5C/.gradle%5C/caches%5C/modules-2%5C/files-2.1%5C/org.springframework.security%5C/spring-security-config%5C/4.2.3.RELEASE%5C/9f3771903616e33521836fd999d63efbfebf90d%5C/spring-security-config-4.2.3.RELEASE.jar%3Corg.springframework.security.config.annotation.web(HttpSecurityBuilder.class%E2%98%83HttpSecurityBuilder~addFilter~Ljavax.servlet.Filter;%E2%98%82ChannelProcessingFilter)
* [ConcurrentSessionFilter](eclipse-javadoc:%E2%98%82=security-java-config/C:%5C/Users%5C/ankush.verman%5C/.gradle%5C/caches%5C/modules-2%5C/files-2.1%5C/org.springframework.security%5C/spring-security-config%5C/4.2.3.RELEASE%5C/9f3771903616e33521836fd999d63efbfebf90d%5C/spring-security-config-4.2.3.RELEASE.jar%3Corg.springframework.security.config.annotation.web(HttpSecurityBuilder.class%E2%98%83HttpSecurityBuilder~addFilter~Ljavax.servlet.Filter;%E2%98%82ConcurrentSessionFilter)
* [SecurityContextPersistenceFilter](eclipse-javadoc:%E2%98%82=security-java-config/C:%5C/Users%5C/ankush.verman%5C/.gradle%5C/caches%5C/modules-2%5C/files-2.1%5C/org.springframework.security%5C/spring-security-config%5C/4.2.3.RELEASE%5C/9f3771903616e33521836fd999d63efbfebf90d%5C/spring-security-config-4.2.3.RELEASE.jar%3Corg.springframework.security.config.annotation.web(HttpSecurityBuilder.class%E2%98%83HttpSecurityBuilder~addFilter~Ljavax.servlet.Filter;%E2%98%82SecurityContextPersistenceFilter)
* [LogoutFilter](eclipse-javadoc:%E2%98%82=security-java-config/C:%5C/Users%5C/ankush.verman%5C/.gradle%5C/caches%5C/modules-2%5C/files-2.1%5C/org.springframework.security%5C/spring-security-config%5C/4.2.3.RELEASE%5C/9f3771903616e33521836fd999d63efbfebf90d%5C/spring-security-config-4.2.3.RELEASE.jar%3Corg.springframework.security.config.annotation.web(HttpSecurityBuilder.class%E2%98%83HttpSecurityBuilder~addFilter~Ljavax.servlet.Filter;%E2%98%82LogoutFilter)
* [X509AuthenticationFilter](eclipse-javadoc:%E2%98%82=security-java-config/C:%5C/Users%5C/ankush.verman%5C/.gradle%5C/caches%5C/modules-2%5C/files-2.1%5C/org.springframework.security%5C/spring-security-config%5C/4.2.3.RELEASE%5C/9f3771903616e33521836fd999d63efbfebf90d%5C/spring-security-config-4.2.3.RELEASE.jar%3Corg.springframework.security.config.annotation.web(HttpSecurityBuilder.class%E2%98%83HttpSecurityBuilder~addFilter~Ljavax.servlet.Filter;%E2%98%82X509AuthenticationFilter)
* [AbstractPreAuthenticatedProcessingFilter](eclipse-javadoc:%E2%98%82=security-java-config/C:%5C/Users%5C/ankush.verman%5C/.gradle%5C/caches%5C/modules-2%5C/files-2.1%5C/org.springframework.security%5C/spring-security-config%5C/4.2.3.RELEASE%5C/9f3771903616e33521836fd999d63efbfebf90d%5C/spring-security-config-4.2.3.RELEASE.jar%3Corg.springframework.security.config.annotation.web(HttpSecurityBuilder.class%E2%98%83HttpSecurityBuilder~addFilter~Ljavax.servlet.Filter;%E2%98%82AbstractPreAuthenticatedProcessingFilter)
* [CasAuthenticationFilter](about:%7b@docRoot%7d/org/springframework/security/cas/web/CasAuthenticationFilter.html)
* [UsernamePasswordAuthenticationFilter](eclipse-javadoc:%E2%98%82=security-java-config/C:%5C/Users%5C/ankush.verman%5C/.gradle%5C/caches%5C/modules-2%5C/files-2.1%5C/org.springframework.security%5C/spring-security-config%5C/4.2.3.RELEASE%5C/9f3771903616e33521836fd999d63efbfebf90d%5C/spring-security-config-4.2.3.RELEASE.jar%3Corg.springframework.security.config.annotation.web(HttpSecurityBuilder.class%E2%98%83HttpSecurityBuilder~addFilter~Ljavax.servlet.Filter;%E2%98%82UsernamePasswordAuthenticationFilter)
* [ConcurrentSessionFilter](eclipse-javadoc:%E2%98%82=security-java-config/C:%5C/Users%5C/ankush.verman%5C/.gradle%5C/caches%5C/modules-2%5C/files-2.1%5C/org.springframework.security%5C/spring-security-config%5C/4.2.3.RELEASE%5C/9f3771903616e33521836fd999d63efbfebf90d%5C/spring-security-config-4.2.3.RELEASE.jar%3Corg.springframework.security.config.annotation.web(HttpSecurityBuilder.class%E2%98%83HttpSecurityBuilder~addFilter~Ljavax.servlet.Filter;%E2%98%82ConcurrentSessionFilter)
* [OpenIDAuthenticationFilter](eclipse-javadoc:%E2%98%82=security-java-config/C:%5C/Users%5C/ankush.verman%5C/.gradle%5C/caches%5C/modules-2%5C/files-2.1%5C/org.springframework.security%5C/spring-security-config%5C/4.2.3.RELEASE%5C/9f3771903616e33521836fd999d63efbfebf90d%5C/spring-security-config-4.2.3.RELEASE.jar%3Corg.springframework.security.config.annotation.web(HttpSecurityBuilder.class%E2%98%83HttpSecurityBuilder~addFilter~Ljavax.servlet.Filter;%E2%98%82OpenIDAuthenticationFilter)
* [org.springframework.security.web.authentication.ui.DefaultLoginPageGeneratingFilter](eclipse-javadoc:%E2%98%82=security-java-config/C:%5C/Users%5C/ankush.verman%5C/.gradle%5C/caches%5C/modules-2%5C/files-2.1%5C/org.springframework.security%5C/spring-security-config%5C/4.2.3.RELEASE%5C/9f3771903616e33521836fd999d63efbfebf90d%5C/spring-security-config-4.2.3.RELEASE.jar%3Corg.springframework.security.config.annotation.web(HttpSecurityBuilder.class%E2%98%83HttpSecurityBuilder~addFilter~Ljavax.servlet.Filter;%E2%98%82org.springframework.security.web.authentication.ui.DefaultLoginPageGeneratingFilter)
* [ConcurrentSessionFilter](eclipse-javadoc:%E2%98%82=security-java-config/C:%5C/Users%5C/ankush.verman%5C/.gradle%5C/caches%5C/modules-2%5C/files-2.1%5C/org.springframework.security%5C/spring-security-config%5C/4.2.3.RELEASE%5C/9f3771903616e33521836fd999d63efbfebf90d%5C/spring-security-config-4.2.3.RELEASE.jar%3Corg.springframework.security.config.annotation.web(HttpSecurityBuilder.class%E2%98%83HttpSecurityBuilder~addFilter~Ljavax.servlet.Filter;%E2%98%82ConcurrentSessionFilter)
* [DigestAuthenticationFilter](eclipse-javadoc:%E2%98%82=security-java-config/C:%5C/Users%5C/ankush.verman%5C/.gradle%5C/caches%5C/modules-2%5C/files-2.1%5C/org.springframework.security%5C/spring-security-config%5C/4.2.3.RELEASE%5C/9f3771903616e33521836fd999d63efbfebf90d%5C/spring-security-config-4.2.3.RELEASE.jar%3Corg.springframework.security.config.annotation.web(HttpSecurityBuilder.class%E2%98%83HttpSecurityBuilder~addFilter~Ljavax.servlet.Filter;%E2%98%82DigestAuthenticationFilter)
* [BasicAuthenticationFilter](eclipse-javadoc:%E2%98%82=security-java-config/C:%5C/Users%5C/ankush.verman%5C/.gradle%5C/caches%5C/modules-2%5C/files-2.1%5C/org.springframework.security%5C/spring-security-config%5C/4.2.3.RELEASE%5C/9f3771903616e33521836fd999d63efbfebf90d%5C/spring-security-config-4.2.3.RELEASE.jar%3Corg.springframework.security.config.annotation.web(HttpSecurityBuilder.class%E2%98%83HttpSecurityBuilder~addFilter~Ljavax.servlet.Filter;%E2%98%82BasicAuthenticationFilter)
* [RequestCacheAwareFilter](eclipse-javadoc:%E2%98%82=security-java-config/C:%5C/Users%5C/ankush.verman%5C/.gradle%5C/caches%5C/modules-2%5C/files-2.1%5C/org.springframework.security%5C/spring-security-config%5C/4.2.3.RELEASE%5C/9f3771903616e33521836fd999d63efbfebf90d%5C/spring-security-config-4.2.3.RELEASE.jar%3Corg.springframework.security.config.annotation.web(HttpSecurityBuilder.class%E2%98%83HttpSecurityBuilder~addFilter~Ljavax.servlet.Filter;%E2%98%82RequestCacheAwareFilter)
* [SecurityContextHolderAwareRequestFilter](eclipse-javadoc:%E2%98%82=security-java-config/C:%5C/Users%5C/ankush.verman%5C/.gradle%5C/caches%5C/modules-2%5C/files-2.1%5C/org.springframework.security%5C/spring-security-config%5C/4.2.3.RELEASE%5C/9f3771903616e33521836fd999d63efbfebf90d%5C/spring-security-config-4.2.3.RELEASE.jar%3Corg.springframework.security.config.annotation.web(HttpSecurityBuilder.class%E2%98%83HttpSecurityBuilder~addFilter~Ljavax.servlet.Filter;%E2%98%82SecurityContextHolderAwareRequestFilter)
* [JaasApiIntegrationFilter](eclipse-javadoc:%E2%98%82=security-java-config/C:%5C/Users%5C/ankush.verman%5C/.gradle%5C/caches%5C/modules-2%5C/files-2.1%5C/org.springframework.security%5C/spring-security-config%5C/4.2.3.RELEASE%5C/9f3771903616e33521836fd999d63efbfebf90d%5C/spring-security-config-4.2.3.RELEASE.jar%3Corg.springframework.security.config.annotation.web(HttpSecurityBuilder.class%E2%98%83HttpSecurityBuilder~addFilter~Ljavax.servlet.Filter;%E2%98%82JaasApiIntegrationFilter)
* [RememberMeAuthenticationFilter](eclipse-javadoc:%E2%98%82=security-java-config/C:%5C/Users%5C/ankush.verman%5C/.gradle%5C/caches%5C/modules-2%5C/files-2.1%5C/org.springframework.security%5C/spring-security-config%5C/4.2.3.RELEASE%5C/9f3771903616e33521836fd999d63efbfebf90d%5C/spring-security-config-4.2.3.RELEASE.jar%3Corg.springframework.security.config.annotation.web(HttpSecurityBuilder.class%E2%98%83HttpSecurityBuilder~addFilter~Ljavax.servlet.Filter;%E2%98%82RememberMeAuthenticationFilter)
* [AnonymousAuthenticationFilter](eclipse-javadoc:%E2%98%82=security-java-config/C:%5C/Users%5C/ankush.verman%5C/.gradle%5C/caches%5C/modules-2%5C/files-2.1%5C/org.springframework.security%5C/spring-security-config%5C/4.2.3.RELEASE%5C/9f3771903616e33521836fd999d63efbfebf90d%5C/spring-security-config-4.2.3.RELEASE.jar%3Corg.springframework.security.config.annotation.web(HttpSecurityBuilder.class%E2%98%83HttpSecurityBuilder~addFilter~Ljavax.servlet.Filter;%E2%98%82AnonymousAuthenticationFilter)
* [SessionManagementFilter](eclipse-javadoc:%E2%98%82=security-java-config/C:%5C/Users%5C/ankush.verman%5C/.gradle%5C/caches%5C/modules-2%5C/files-2.1%5C/org.springframework.security%5C/spring-security-config%5C/4.2.3.RELEASE%5C/9f3771903616e33521836fd999d63efbfebf90d%5C/spring-security-config-4.2.3.RELEASE.jar%3Corg.springframework.security.config.annotation.web(HttpSecurityBuilder.class%E2%98%83HttpSecurityBuilder~addFilter~Ljavax.servlet.Filter;%E2%98%82SessionManagementFilter)
* [ExceptionTranslationFilter](eclipse-javadoc:%E2%98%82=security-java-config/C:%5C/Users%5C/ankush.verman%5C/.gradle%5C/caches%5C/modules-2%5C/files-2.1%5C/org.springframework.security%5C/spring-security-config%5C/4.2.3.RELEASE%5C/9f3771903616e33521836fd999d63efbfebf90d%5C/spring-security-config-4.2.3.RELEASE.jar%3Corg.springframework.security.config.annotation.web(HttpSecurityBuilder.class%E2%98%83HttpSecurityBuilder~addFilter~Ljavax.servlet.Filter;%E2%98%82ExceptionTranslationFilter)
* [FilterSecurityInterceptor](eclipse-javadoc:%E2%98%82=security-java-config/C:%5C/Users%5C/ankush.verman%5C/.gradle%5C/caches%5C/modules-2%5C/files-2.1%5C/org.springframework.security%5C/spring-security-config%5C/4.2.3.RELEASE%5C/9f3771903616e33521836fd999d63efbfebf90d%5C/spring-security-config-4.2.3.RELEASE.jar%3Corg.springframework.security.config.annotation.web(HttpSecurityBuilder.class%E2%98%83HttpSecurityBuilder~addFilter~Ljavax.servlet.Filter;%E2%98%82FilterSecurityInterceptor)
* [SwitchUserFilter](eclipse-javadoc:%E2%98%82=security-java-config/C:%5C/Users%5C/ankush.verman%5C/.gradle%5C/caches%5C/modules-2%5C/files-2.1%5C/org.springframework.security%5C/spring-security-config%5C/4.2.3.RELEASE%5C/9f3771903616e33521836fd999d63efbfebf90d%5C/spring-security-config-4.2.3.RELEASE.jar%3Corg.springframework.security.config.annotation.web(HttpSecurityBuilder.class%E2%98%83HttpSecurityBuilder~addFilter~Ljavax.servlet.Filter;%E2%98%82SwitchUserFilter)

We can register our custom filter programmatically by using HttpSecurity reference.

There are a couple of possible methods:

* [addFilterBefore(filter, class)](https://docs.spring.io/spring-security/site/docs/current/apidocs/org/springframework/security/config/annotation/web/builders/HttpSecurity.html#addFilterBefore(javax.servlet.Filter,%20java.lang.Class))*–*adds a*filter*before the position of the specified filter *class*
* [addFilterAfter(filter, class)](https://docs.spring.io/spring-security/site/docs/current/apidocs/org/springframework/security/config/annotation/web/builders/HttpSecurity.html#addFilterAfter(javax.servlet.Filter,%20java.lang.Class)) – adds a*filter*after the position of the specified filter *class*
* [addFilterAt(filter, class)](http://docs.spring.io/spring-security/site/docs/current/apidocs/index.html?org/springframework/security/config/annotation/web/builders/HttpSecurity.html) – adds a *filter* at the location of the specified filter *class*
* [addFilter(filter)](https://docs.spring.io/spring-security/site/docs/current/apidocs/org/springframework/security/config/annotation/web/builders/HttpSecurity.html#addFilter(javax.servlet.Filter)) – adds a *filter* that must be an instance of or extend one of the filters provided by Spring Security

For Example:

   @Override

   protected void configure(HttpSecurity http) throws Exception {

       http

.addFilterAfter(new CustomFilter(), BasicAuthenticationFilter.class );

.addFilterBefore(new BeforeFilter(), LogoutFilter.class);

   }

The above configuration will add two filters, CustomFilter after BasicAuthenticationFilter and BeforeFilter filter before invoking LogoutFilter.

CustomFilter:

public class CustomFilter implements Filter {

private static Logger logger = Logger.getLogger(CustomLogoutFilter.class);

@Override

public void init(FilterConfig filterConfig) throws ServletException { }

@Override

public void doFilter(ServletRequest request, ServletResponse response, FilterChain chain) throws IOException, ServletException {

logger.info("Start : " + getClass().getName() + " : doFilter()");

chain.doFilter(request, response);

}

@Override

public void destroy() {

// TODO Auto-generated method stub

} }

1. **Method-Level Security *a.k.a.* RBAC (Role Based Access Control)**

Till now, we have seen security applying to URL only by using matchers. What if we need security on specific methods invocation. Here comes Spring Method Level Security. To enable Spring global method security, we need to annotate a @Configuration class with @EnableGlobalMethodSecurity:

@Configuration

@EnableWebSecurity

@EnableGlobalMethodSecurity(prePostEnabled = true)

public class SecurityConfiguration extends WebSecurityConfigurerAdapter {

Now we can enable to method security annotation by enabling one of the arguments which supports method level security as @EnableGlobalMethodSecurity can take several arguments, some are shown below:

* prePostEnabled : It enables spring security’s pre-post annotations.
* secureEnabled : It enables spring secuirty’s secured annotation.
* Jsr205Enabled : It enables JSR-250 annotation.

**@Secured**

@Secured annotation is used to define a list of security configuration attributes for business methods. You can specify the security requirements[roles/permission etc.] on a method using @Secured, and then only the user with those roles/permissions can invoke that method. If anyone tries to invoke a method and does not possess the required roles/permissions, an AccessDenied exception will be thrown.

For example:

@Secured({ "ROLE\_USER" })

@RequestMapping("/secured")

**public** String securityAnnotation() {

***logger***.info("using @Secured with roles as user");

**return** "public/welcome";

}

**@PreAuthorize / @PostAuthorize**

Spring’s @PreAuthorize/@PostAuthorize annotations are preferred way for applying method-level security, and supports Spring Expression Language out of the box, and provide expression-based access control.

@PreAuthorize is suitable for verifying authorization before entering into method. @PreAuthorize can take into account, the roles/permissions of logged-in User, argument passed to the method etc.

For example:

@PreAuthorize("hasRole('ROLE\_USER') or hasRole('ROLE\_ADMIN')")

@RequestMapping("/pre")

**public** ModelAndView preAnnotation() {

***logger***.info("Using @PreAuthorize with role as USER...");

**return** **new** ModelAndView("public/welcome");

}

We can pass Spring EL expressions to evaluate user authorization also. Below is one example:

@PreAuthorize("#auth == authentication.name")

@RequestMapping("/prewithparam/{auth}")

**public** ModelAndView preWithParams(@PathVariable("auth") String auth) {

***logger***.info("Using @PreAuthorize with #paramteres...");

***logger***.info("Authentication parameters : " + auth);

**return** **new** ModelAndView("public/welcome");

}

@PostAuthorize , not often used though, checks for authorization after method have been executed, so it is suitable for verifying authorization on returned values. Spring EL provides returnObject object that can be accessed in expression language and reflects the actual object returned from method.

@PostAuthorize ("returnObject.type == authentication.name")

@RequestMapping("/rolesallwoed")

**public** User findById(**int** id) {

***logger***.info("Using @RolesAllowed...");

**return** userService.findById();

}

Check this example for reference :  
<http://websystique.com/spring-security/spring-security-4-method-security-using-preauthorize-postauthorize-secured-el/>

1. **Custom Authorization with Method Security**

As far, we have seen authentication & authorization both performed by spring security. However, in most of the scenario, it is not efficient to rely on default authorization. As per any secured application, it is common use case that authentication is normally performed like earlier discussed. But, authorization may vary as per application design and requirements.

For custom authorization checks, we can use @PreAuthorize annotation and it is, but it will not be flexible in terms of deployment. However, we can utilize @PreAuthorize to a separate method being called before that resource access. This will enhance the security at resource level as well.

**@PreAuthorize with custom expression**

As this annotation accepts an expression which will be evaluated before invocation and if evaluated to true then only resource will be available for access. Here, we can pass custom method call which will check authority of current user for selected resource as follows:

**@PreAuthorize("@customAuthorizationUtil.isAuthorize(authentication, 'EDIT')")**

@RequestMapping( value = "/updateUser", method = RequestMethod.***POST***)

**public** ModelAndView updateUser( @ModelAttribute("userform") UserBO user) {

*logger*.info("Updating user info : " + user);

**if**( user != **null** )

user = userService.updateUser(user);

*logger*.info("User updated : " + user);

**return** login();

}

For all Spring Security EL expression –

<https://docs.spring.io/spring-security/site/docs/4.0.1.RELEASE/reference/htmlsingle/#el-common-built-in>

Note, the expression passed :

**"@customAuthorizationUtil.isAuthorize(authentication, 'EDIT')"**

1. Here, **@** is used to denote any bean registered within spring container. **customAuthorizationUtil** is bean name which have method **isAuthorize()**. This method accepts argument as **authentication** and resource name **'EDIT'** to accesss.
2. **authentication** and **principal** are spring security’s built-in expressions defined in SecurityExpressionRoot. authentication object represents current logged-in authenticated user where as principal represents current user.
3. Now, we can have isAuthorize() defined in customAuthorizationUtilas follow to check authority of current user.

@Service(value = "customAuthorizationUtil")

**public** **class** AuthorizationUtilImpl **implements** AuthorizationUtil {

**public** **boolean** isAuthorize(Authentication auth, String method) {

Collection<? **extends** GrantedAuthority> roleSet = auth.getAuthorities();

Iterator<? **extends** GrantedAuthority> iterator = roleSet.iterator();

Set<String> roles = **new** HashSet<String>( roleSet.size());

**while**(iterator.hasNext())

roles.add(iterator.next().getAuthority());

**for** (String role : roles)

**if** (role.contains(method))

**return** **true**;

**return** **false**;

}

The above code extract roles from authentication and added them to a Set<String> which will be further used to compater for the requested resource passed as method argument.

**Important Points to Consider to impletment discussed authorization:**

1. To user DaoAuthentication, Generally UserDetailsService[i] is implemented to get the user’s details which trying to login. The loadUserByUserName(String username) method of this interface returns a User object containg authorities collection.
2. We need to customize this to get proper list permission available for particular role in context. To get this working, a simple workaround is given below.
3. Design models as UserInfo, Role, Privilege with required mappings as @ManyToOne, @OneToMany with @JoinTable to have more flexible control and view of authorization.
4. This security’ User object having one property GrantedAuthoriy which is nothing but permission or role name. We will modify this to contain list of permission/privilege for current user.

**public** CurrentUser(UserBO user) {

**super**(user.getUsername(), user.getPassword(), *getAuthorities* (user.getRole()));

**this**.user = user;

}

**private** **final** **static** Collection<? **extends** GrantedAuthority> *getAuthorities*(**final** Role role) {

**return** *getGrantedAuthorities*(*getPrivileges*(role));

}

/\*\*

\* To get all the privileges associated to given ROLE

\* **@param** roles Role of user

\* **@return** list of privileges in string format

\*/

**private** **final** **static** List<String> getPrivileges(**final** Role role) {

**final** List<String> privileges = **new** ArrayList<String>();

**final** List<Privilege> collection = **new** ArrayList<Privilege>();

collection.addAll(role.getPrivileges());

**for** (**final** Privilege item : collection)

privileges.add(item.getName());

**return** privileges;

}

**private** **final** **static** List<GrantedAuthority> getGrantedAuthorities(**final** List<String> privileges) {

**final** List<GrantedAuthority> authorities = **new** ArrayList<GrantedAuthority>();

**for** (**final** String privilege : privileges)

authorities.add(**new** SimpleGrantedAuthority(privilege));

**return** authorities;

}

Check out this github project for detailed example along with registration.

<https://github.com/Baeldung/spring-security-registration>

**Running Sample Application built with above detailed authentication & authorization:**

Application is build with Spring MVC with enabling spring security. It’s gradle based application. Import the project and refresh dependencies JSPs & HTMLs are used for ui ineteraction along gritty in built server to test the application.

Run the application as :- http://localhost:8077/rbac-security

***![A screenshot of a cell phone

Description generated with very high confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4REGRXhpZgAATU0AKgAAAAgABAE7AAIAAAAUAAAISodpAAQAAAABAAAIXpydAAEAAAAoAAAQ1uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEFua3VzaCBLdW1hciBWZXJtYW4AAAWQAwACAAAAFAAAEKyQBAACAAAAFAAAEMCSkQACAAAAAzQ2AACSkgACAAAAAzQ2AADqHAAHAAAIDAAACKAAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Home Page appears as with two links

CreateUser Login

Clicking CreateUser will fetch the user creation fom

A screenshot of a cell phone

Description generated with very high confidence

**User Registration Page:**

This form asked user details along with user role. Role available are DEV, QA, PMT.

User Registration form is not secured and will available for all guest users.

Clicking submit button will validate users form and send request to addUser in UserController, a new user is created with selected roles having predefined permission over resources.

After successful creation of user, we will get first screen, where more users can be created or a user can be login.

![A screenshot of a cell phone

Description generated with very high confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4REGRXhpZgAATU0AKgAAAAgABAE7AAIAAAAUAAAISodpAAQAAAABAAAIXpydAAEAAAAoAAAQ1uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEFua3VzaCBLdW1hciBWZXJtYW4AAAWQAwACAAAAFAAAEKyQBAACAAAAFAAAEMCSkQACAAAAAzczAACSkgACAAAAAzczAADqHAAHAAAIDAAACKAAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**User Login Page:**

After clicking for login guest user will be asked for user details to enter. After filling details and clicking Login, the details are verified against deails in database.

If it validates to be true uses is logged in and welcome page appears.

![A screenshot of a cell phone

Description generated with very high confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4REGRXhpZgAATU0AKgAAAAgABAE7AAIAAAAUAAAISodpAAQAAAABAAAIXpydAAEAAAAoAAAQ1uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEFua3VzaCBLdW1hciBWZXJtYW4AAAWQAwACAAAAFAAAEKyQBAACAAAAFAAAEMCSkQACAAAAAzE4AACSkgACAAAAAzE4AADqHAAHAAAIDAAACKAAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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f3Xz/Kp67ecD3qlCTjzdNgs0kzZoooqBBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGH40Zv+EJ1iOOGeeWezlhjjt4HldnZCqjaoJ6nr0Heud8E66dJ8C6Lpk2kawdQjjjgeBtLuEVGLYy0hTYFAOSc9B+FdpqGl6fq9uLfVbG2voVbeI7mFZFDYIzhgRnBPPvWb/wAIR4U/6FjRv/BfF/8AE1vCcFDllfe5d1y2Z5tYaIZbLxNa3mn6lZxSeIWu7Y/2PJPEyYbaWhK/vIzjGFBIJU8damOg3F1rngPUNQ8KrHBClzDdW8Fq0iR8HyiVcZRSx3KHxs3c4wa9D/4Qjwp/0LGjf+C+L/4mj/hCPCn/AELGjf8Agvi/+Jrb6xFO+v8AS5e5cqid/O/4mb8UNDvvEPw71HT9Ki866by3SMEAvtcMQM98A1e0vVE1s6f5VhqFubZfNmN3ZyW/lsYyoT5wNx+Y/dyBtOSMrmT/AIQjwp/0LGjf+C+L/wCJo/4Qjwp/0LGjf+C+L/4mseaHJyXffb5d/Ii6aS7Hnlro+rWun6/Z+GdNnE1xpztFfT2b2d2khfJhkc4WdsE4kUnkHJ5BqjqWg3cvwr1iK10+6ke6S08jTYdCmtvs86kbyqsWJYr95x8px1JNeo/8IR4U/wChY0b/AMF8X/xNH/CEeFP+hY0b/wAF8X/xNbLERT+7p2NFUSlzed/y/wAjlNc8JaWPDVjNZWdzDM8kV5IJdPlvUlkWLZieAgucqSCQAwPzHkE12PhZZE8JaWk9h/ZrpaxqbTcW8nCgBcnnoO/PrzUP/CEeFP8AoWNG/wDBfF/8TWrZ2Vrp1olrp9tDa28edkMEYRFycnCjgckmsalRSja73Mm9Er7E9FFFYEhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABWJZvd3djBcvqNwjTRrIVRIsAkZwMoTituud0mX/iS2X/XvH/6CKALEEjXSs1rrc0yo7RsY/JYK6nDKcJwQQQR2NS+Vc/9BS6/74i/+Irl/AsmNL1P/sNX/wD6UPWLpnibWDfaRfS373iavc3cEmliKMLaiISEbCF37gYwjbmYEvxt4FJPRPyv+FxyVpOPZtfieheVc/8AQUuv++Iv/iKPKuf+gpdf98Rf/EV554Y1/WLnWfDT3uuteRa1pc19NaGGJVhceUVVCqhtg3sPmJPHJNW/FWt6pFqeqpZaq2kxaRpQ1BD5UTrdOTJlX3qTsHlgHaVPz9elN+7v5/h/w3QEmzuPKuf+gpdf98Rf/EUeVc/9BS6/74i/+Irz/UfF+pQ6X4kuPtK2stpHZvboyLmHzVXI5HOWJHOeeBWh4Qjlh8WeMZJL2edX1OPEcioFT/R4jxtUHoQvJPCjvkkW7Xb/ADsSmmro7TT5Zvt1xbSzvOqRxyK0iqCCxcEfKAMfKK0ayNMbdrV7/wBe8P8A6FLWvQMKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigArj7GWW20+3gmtLwSRRKjAWkpAIAB5C4P4V2FFAHn48PeHRqn9pDwtAL/zPN+1f2KfN35zu3+XndnnOc1ahstNttSn1G20V4b64G2a6j0t1lkHH3nCZPQdfSu2ooDc8s0Hwu+k69/al2ollWORE+xaA9qZWkKl5ZiM+ZIdi8gKPvccjG7f2Wm6pNby6nojXklq++B7jS3kMLcHKkodp4HI9BXbUUAcNd6ZpGoX6Xt/4fFzdonlrcTaS7yKvPyhimQOTx7mrEaWsN9NexaVOl3OqrLOunSCSQL90M2zJAzxnpXY0UAYmhCR9QvJ2hmjjaKJFMsTRkkGQnhgD/EK26KKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigD//2Q==)**User Welcome Page:**

This page will show logged in user name, along with available operations for current user.

Based on role assigned, Three major services are offered:

Update User Delete User List Users

1. To delete user, select user name from drop down list and click on Delete. The selected user will be deleted.

Deleting a user is only available with PMT role, other can’t have delete service.

1. To get all the registered user, click on List Users link. It will fetch all users. Listing user available to all the ROLEs user.
2. Updating users detail by Update User will fetch user updataion form as below.

These services calls land to UserController where user is checked for authorization of service with @PreAuthorize annotation as we discussed earlier.

![A screenshot of a cell phone

Description generated with very high confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4REGRXhpZgAATU0AKgAAAAgABAE7AAIAAAAUAAAISodpAAQAAAABAAAIXpydAAEAAAAoAAAQ1uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEFua3VzaCBLdW1hciBWZXJtYW4AAAWQAwACAAAAFAAAEKyQBAACAAAAFAAAEMCSkQACAAAAAzA4AACSkgACAAAAAzA4AADqHAAHAAAIDAAACKAAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**User Updation Page:**

Beside is user updaton form, which will prompt users list available for updation. Enter other details to update user.

Click submit to update the selected user detail.

It is advised to note change the user-role, however role also work as other details.

**Users List Page:**

This service is available for all authenticated user, as it check for only VIEW access of authentication. Clicking on List User will display below lists along with navigate to Home link also to get users welcome page.

![A screenshot of a cell phone

Description generated with very high confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4REGRXhpZgAATU0AKgAAAAgABAE7AAIAAAAUAAAISodpAAQAAAABAAAIXpydAAEAAAAoAAAQ1uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEFua3VzaCBLdW1hciBWZXJtYW4AAAWQAwACAAAAFAAAEKyQBAACAAAAFAAAEMCSkQACAAAAAzk2AACSkgACAAAAAzk2AADqHAAHAAAIDAAACKAAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**Tables for above security configuration:**

`RBAC\_USER` List of registered user [ userid, username, password, emaild ];

`RBAC\_ROLE` List of predefined user-role [ DEV, QA, PMT ];

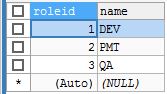
`RBAC\_USERS\_ROLE` Mapping of RBAC\_USER & RBAC\_ROLE tables [ user\_id, role\_id ];

`RBAC\_PRIVILEGE` List of available privilege/permission [ EDIT, CREATE, VIEW , DELETE ];

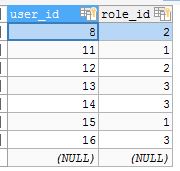
`RBAC\_ROLES\_PRIVILEGES` Mapping of RBAC\_ROLE & RBAC\_PRIVILEGE tables [ role\_id, privilege\_id ];



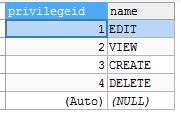
RBACK\_USER



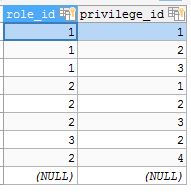
RBACK\_ROLE



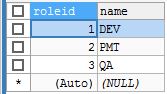
RBACK\_USERS\_ROLE



RBACK\_PRIVILEGE



RBACK\_ROLES\_PRIVILEGE



RBACK\_ROLE

1. **ABAC Attribute Based Access Control**

As far we have seen method security which implies to role based access control over resources. In RBAC, security appliced based on role a user posses. But it doesn’t faciliates control over user’s related resources, or based user context, channel, time or network.

**What Is Attribute-Based Access Control (ABAC)?**

Any access request will have four elements (subject, resource, action, and environment), where:

* **Subject :** is the entity (mostly a user) that requests access.
* **Resource** **:** is the entity to be accessed (e.g. file, database record, Store Information, ...).
* **Action** **:** is the operation to be carried out on the resource (e.g. read, write, delete, ...).
* **Environment** **:** is any information regarding the context of the access that might be used in making the access decision (e.g. time, network, ...).

Likewise, we can associate these elements based on their attributes. Such as, **subject** or **user’** id will be used to check for access of particular **resource** with that **resource’** id. Also, other parameters can be useful to determine access for authenticated user.

ABAC allows you to define Access Rules with a far finer granularity of access control, relative to other models like Role-Based (RBAC) or Access-Control-List (ACL), without losing any of the capabilities found in other models

To make this concept workgin with above discussed scenario, we can utilize Spring SpEL to evaluate the authorization again. We can spring’s annotations @PreAuthorize/@PostAuthorize with hasPermission() spel exression to evaluate method access. If we make any request, authorization will take place at AccessDecisionManager, which inturns call PermissionEvaluator if spel expression is used.

Click this link to get the flow of exection while authorization using spring spel.

<https://dzone.com/articles/simple-attribute-based-access-control-with-spring>

![A close up of a device

Description generated with high confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4REGRXhpZgAATU0AKgAAAAgABAE7AAIAAAAUAAAISodpAAQAAAABAAAIXpydAAEAAAAoAAAQ1uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEFua3VzaCBLdW1hciBWZXJtYW4AAAWQAwACAAAAFAAAEKyQBAACAAAAFAAAEMCSkQACAAAAAzk5AACSkgACAAAAAzk5AADqHAAHAAAIDAAACKAAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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As depicted beside, this is the flow for authorization of requested resource based on abac elements.

1. Subject requests access to object

2. Access Control Mechanism evaluates

a) Rules,

b) Subject Attributes,

c) Object Attributes, and

d) Environment

Conditions to compute a decision

3. Subject is given access to object if authorized

PermissionEvaluator is place where all permission evaluated, so we can override accordingly to manipulate it as ABAC.

**The following are the key components of this approach:**

* PermissionEvaluator
* ContextAwarePolicyEnforcement
* PolicyEnforcement
* PolicyDefinition
* PolicyRule
* SecurityAccessContext

**PermissionEvaluator**

This is the entry point for ABAC logic to be executed. As mentioned before, all access decisions made by Spring Security frameworkare delegated to this component, i.e. all annotations @PreAuthorize("hasPermision(...)"), @PostAuthorize("hasPermision(...)") are delegated to the component.

So, implement it, and override it to delegate to make access decision based on PolicyEnforcement:

public class AbacPermissionEvaluator implements PermissionEvaluator {

@Autowired

PolicyEnforcement policy;

@Override

public boolean hasPermission(Authentication authentication , Object targetObject, Object permission) {

//Getting subject

Object user = authentication.getPrincipal();

//Getting environment

Map<String, Object> environment = new HashMap<>();

environment.put("time", new Date());

return policy.check(user, targetObject, permission, environment);

}

}

**ContextAwarePolicyEnforcement**

This an optional component that is similar to PermissionEvaluator but can be called at any point in your code, given that the SecurityContext is available and filled with current, authenticated user information.

This component is used when the data needed to make the access decision is not available to @PreAuthorize and @PostAuthorize annotations. Like we can call its method inside request handling methods to check for permission. It will again call PolicyEnforcement only to validate access.

**PolicyEnforcement**

This is where the actual access decision is taken. This PolicyEnforcement call be called directory also beside spring persmissionEvaluator. It works as follows:

* Load all PolicyRules using the PolicyDefinition.
* Filter the PolicyRules leaving only the applicable rules (i.e. rules where the target expression evaluates to true) in the current access context.
* Evaluates all applicable PolicyRules (i.e., evaluating the condition expression) in the current access context. If any returned true then access is granted; otherwise, access is denied.

public class BasicPolicyEnforcement implements PolicyEnforcement {

@Autowired

private PolicyDefinition policyDefinition;

@Override

public boolean check(Object subject, Object resource, Object action, Object environment) {

//Get all policy rules

List<PolicyRule> allRules = policyDefinition.getAllPolicyRules();

//Wrap the context

SecurityAccessContext cxt = new SecurityAccessContext(subject, resource, action, environment);

//Filter the rules according to context.

List<PolicyRule> matchedRules = filterRules(allRules, cxt);

//finally, check if any of the rules are satisfied, otherwise return false.

return checkRules(matchedRules, cxt);

}

private List<PolicyRule> filterRules(List<PolicyRule> allRules, SecurityAccessContext cxt) {

List<PolicyRule> matchedRules = new ArrayList<>();

for(PolicyRule rule : allRules) {

try {

if(rule.getTarget().getValue(cxt, Boolean.class)) {

matchedRules.add(rule);

}

} catch(EvaluationException ex) {

logger.error("An error occurred while evaluating PolicyRule.", ex);

}

}

return matchedRules;

}

private boolean checkRules(List<PolicyRule> matchedRules, SecurityAccessContext cxt) {

for(PolicyRule rule : matchedRules) {

try {

if(rule.getCondition().getValue(cxt, Boolean.class)) {

return true;

}

} catch(EvaluationException ex) {

logger.error("An error occurred while evaluating PolicyRule.", ex);

}

}

return false;

}

}

**PolicyDefinition**

This interface represents the PolicyRule repository. It has one method, getAllPolicyRules, that loads all available policy rules.

This interface hides the details of how-policy-rules-are-stored from the policy clients. This component could be implemented for (but not limited to) in-memory policy, JSON-file policy, or database policy. The details for each repository format is up to the implementer of this component.

**PolicyRule**

This is the atomic element of access policy, this is where the ABAC logic is defined to be evaluated when needed. PolicyRule has the following main properties:

**target**: A SpEL boolean expression where this rule is applicable (i.e. if the expression evaluates to true, then this rule is applicable)

**condition**: A SpEL boolean expression where this rule is satisfied (i.e. if the expression evaluates to true, then access is granted)

Both expressions have access to the four elements of access-request, namely subject, resource, action, and environment.

**SecurityAccessContext**

This is a wrapper class for all the access elements. It has fields for each of Subject, Resource, Action, and Environment. For each access decision to be taken, an instance of this class is created by PolicyEnforcement and filled with corresponding access elements.

The instances of this class serve as the Root object for evaluating the PolicyRules expressions.

**Overview of Application Flow & Working**

**Users**

There are 4 types of users: Admins, Project Managers, Testers, and Developers.

**Projects**

Issues are grouped into projects, each project is created and managed through the application. Each Project can have one Project Manager and many Testers and/or Developers.

**Issues and Status**

Issues can be created and managed through the application. There two types of issues: Tasks and Bugs. Each issue has a status. Issues Status can be any: NEW, ASSIGNED, COMPLETED. Issues can be assigned to Users, and authorized users can change the Issues status.

**Access Rules**

Below are sample access rules and their translation to an ABAC SpEL expression:

* **Admin can do all**
  + Target: *subject.role.name() == 'ADMIN'*
  + Condition: *true*
* **PM can add new issues to his project only.**
  + Target: *subject.role.name() == 'PM' && action == 'ISSUES\_CREATE'*
  + Condition: *subject.project.id == resource.project.id*
* **Tester can add bugs (and only bugs) to his project**
  + Target: *subject.role.name() == 'TESTER' && action == 'ISSUES\_CREATE'*
  + Condition: *subject.project.id == resource.project.id && resource.type.name() == 'BUG'*
* **Users can complete issues assigned to them.**
  + Target: *action == 'ISSUES\_STATUS\_CLOSE'*
  + Condition: *subject.project.id == resource.project.id && subject.name == resource.assignedTo*

**Running the application:**

Clean and install the parent project which having two modules as *access-control* & *sample-issue-tracer*

The sample application uses HTTP Basic Authentication and blow are the users that can be used:

admin/password

pm1/password

pm2/password

dev1/password

dev2/password

test1/password

test2/password

All users can be found and modified in edu.mostafa.abac.config.InMemoryUserDetailsService class.

**How to test**

**Project related rest calls**

* Add new project using **POST /sample-issue-tracker/projects/**
* To get list of projects **GET /sample-issue-tracker/projects/**
* To view project by project id **GET /sample-issue-tracker/projects/{id}**
* To update the project by id **PUT /sample-issue-tracker/projects/{id}**
* To delete the project by id **DELETE /sample-issue-tracker/projects/{id}**
* Assign PM to the project using **PUT /sample-issue-tracker/projects/{project\_id}/pm/**
* Add users to the project using **POST /sample-issue-tracker/projects/{project\_id}/users/**
* To List a project all users **GET /sample-issue-tracker/projects/{project\_id}/users/**
* To remvoe a user from project **DELETE /sample-issue-tracker/projects/{id}/users/{username}**

**Issue related rest calls**

* Add issues to the project using **POST /sample-issue-tracker/projects/{project\_id}/issues/**
* To get issues list of the project **GET /sample-issue-tracker/projects/{project\_id}/issues/**
* To update an issue with id **PUT /sample-issue-tracker/projects/{project\_id}/issues/{id}**
* To delete an issue with id **DELETE /sample-issue-tracker/projects/{project\_id}/issues/{id}**
* Assign issues to users using

**PUT : /sample-issue-tracker/projects/{project\_id}/issues/{issue\_id}/assignee**

* Update issue's status **PUT /sample-issue-tracker/projects/{project\_id}/issues/{issue\_id}/status**

Since it is rest calls with data in JSON format below are the required JSONs:

{

"name":"test1", **User’s Json**

"role":"TESTER"

}

{

"id":1, **Project’ Json**

"name":"zetahub",

"description":"zetahub"

}

{

"id":1001,

"project": {

"id":1,

"name":"zetahub",

"description":"zetahub" **Issue’ Json**

},

"type":"BUG",

"name":"newissue",

"description":"new issue created ",

"createdBy":"rudra",

"assignedTo":"aks",

"status":"NEW"

}

1. **Adding Forgot Password & Change Passwod Functionality**

Till now, we have added services like login, creating user, deleting, updating a user info. But, what in case if a user forgot his password, or wishes to change his current password. For this, we will now provide links to home page for users to reset password in case of forgotten.

Normally, we can ask a user to enter new password after verifying username or email. But, this is not secure and not a good practive for real time applications. For restting password or changing the current password, we will use user’s email-id to communicate. After entering user’ username, user will receive an email containing link to reset or change password.

Here, we will generate a token which will have associated user details along with expiry time. This expire time will be used to validate upon receiving password reset request. To change password of current logged-in user, we will add a change password link in user’s home page.

To send mail to user’s email-id, we are using java mail api with spring’s mail support as JavaMailSender with given implementation.

*Required Jars :*  compile group: 'javax.mail', name: 'javax.mail-api', version: '1.5.5'

compile group: 'com.sun.mail', name: 'javax.mail', version: '1.5.5'

T*o confiure mail sender with spring container user below code:*

@Bean

**public** JavaMailSender mailSender() {

JavaMailSenderImpl mailSender = **new** JavaMailSenderImpl();

mailSender.setHost("smtp.gmail.com");

mailSender.setPort(587);

mailSender.setUsername("vermanjava@gmail.com");

mailSender.setPassword("IMprince@46");

Properties props = mailSender.getJavaMailProperties();

props.put("mail.transport.protocol", "smtp");

props.put("mail.smtp.auth", "true");

props.put("mail.smtp.starttls.enable", "true");

props.put("mail.debug", "true");

**return** mailSender;

}

As in code above, we have given sender details to connect with gmail server, which can be chagned accordingly.

Now, upon receiving request for resetting password for specified user, we will prepare an email with proper content & a link to out change password method call. This link will contain userid & generated token which will be persisted to db also for future validation.

Token Generation : String token = UUID.randomUUID().toString();

Mail Preparation :

SimpleMailMessage mailMessage = **new** SimpleMailMessage();

mailMessage.setFrom(***FROM\_ADDRESS***);

mailMessage.setTo(user.getEmailid());

mailMessage.setSubject(***RESET\_TOKEN\_SUB***);

mailMessage.setText(mailContent);

mailSender.send(mailMessage);

Reset Url : String resetUrl = **new** StringBuilder().append(contextPath)

.append("/admin/changePasswordform?userid=")

.append(user.getUserid())

.append("&token=").append(token).toString();

![A screenshot of a cell phone

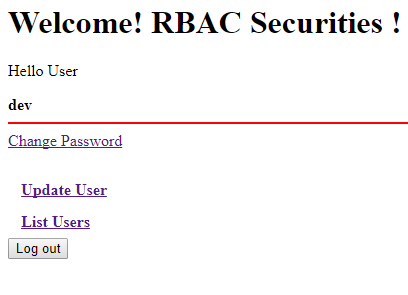
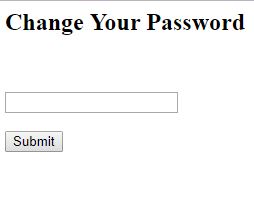
Description generated with high confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4REGRXhpZgAATU0AKgAAAAgABAE7AAIAAAAUAAAISodpAAQAAAABAAAIXpydAAEAAAAoAAAQ1uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEFua3VzaCBLdW1hciBWZXJtYW4AAAWQAwACAAAAFAAAEKyQBAACAAAAFAAAEMCSkQACAAAAAzcwAACSkgACAAAAAzcwAADqHAAHAAAIDAAACKAAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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cEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A+kaKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAK+S/2jfAdr4T8W2HiHR7GGHT9S/wBbAiARrOnJGB0DDnHqGr60rhfjH4RHjP4YanYxR+ZeW6fa7TA58xATgfUbl/Gom3G010Lhr7r6mdrPhTwr8Tfg5bzWmm2NrHJpvm6dKkKobFtu7apA+VQwwwHBwa8k/ZavdNi8XappWoWFqdT8rzrS5khUzR7crIiseRkMDgehrR/Z78VNrXhS48AT72cXPmg44Fo3zSqfbI2/9thWH8S4ZPhV+0bZ+JrNClleSre4QcFW+WdPqfmP/AhW2ka3lL+v+H9DHV0rdY/1/Xqe+ar4P8P+IviTaX97o9nPc6VB50k7wgtJI52xBjj5toRjg5wSpFdJqniHRdEeJNa1ew09pjiNbu5SIv8ATcRms/SJ2g8NXuuvGTLeiS/2EEHZt/dqR2PlqgI9c14f8DNevvEEXi7VtT0DUfEmo6nKsVzNDLbYSIqcR4mmQheTwARgD0rPVXiuiv8Af0/rsXppLvp/X9dT2f4k2Fhq/wAMNeW+toLyJNOnni8xQ4V1jYq6+hHUEV5b+yd/yJ+vf9f6f+ixV3wPoXjDwx8CfF2jeNLN7VLeyujYB7iOUiJoWyuUZsAEdD/erkfgXrlx4b+B/jnWLJQbmzcyRZGQH8oYJHoDzRdQc3/dT/EppyjBf3mvwPonUfFGgaReJaatrmm2NzJ9yG5u443b6KxBNaasGUMpBUjIIPWvA/g54ds/iH8CtesdVuGa91bUJTd3hAeUSAIyMc9ccHHufWo/itDqXwn/AGf9N8Mabq1xdvcXRtJb4jy28oh3KKMnaOAuMnjNOd4LXfT8f8iYWnt5/h/me2QeKfD9zqh02213TZr8HBtY7yNpQfTYDn9KsarrOl6FaC61vUrTTrdnCCa7nWJCxyQMsQM8Hj2rxfxbpNnB+x9ZeXAitBp1ldRMq4KSs0ZLg9id7c+5qTS/EN94r/ZH1O+1lzPdR6fcQNM/Jk8skKx9TgDJ9Rmip7nOusRx15X0kesx+LvDc2kyapF4h0qTT4n8uS7W9jMKPgHaX3YBwRxnvVv+2tLGkjVTqVn/AGcV3i889fJK+u/OMfjXzh8FvCuia18CvFF5rGnQ300MtysJuF3iAi3Q7owfuNnqy4JwOeBUv7Nug6b4l8I69D4htU1O1tJ1+z2t2PMhiZ0O51Q8BjgfN1HbGTlzXK5Lsk/vJv8AC+7a+4+jdO1Ow1ezW70m+tr62Y4Wa2mWRD9GUkVBqniHRdEeJNa1ew09pjiNbu5SIv8ATcRmvnT9l7UJrH/hMwhZ4beCOdYckgsPM7epAAq38DNevvEEXi7VtT0DUfEmo6nKsVzNDLbYSIqcR4mmQheTwARgD0pP+72v+g9naXex9EXokudJuFspdsksDCKRT0JXgg/lXgH7K0OqFvFM99PcNAJoozHK5IM/zF25/ixjJ9+a7n4FaF4w8MeELrRvGlm9qlvcZsA9xHKREw5XKM2ACOh/vV1XgrwrF4UttWjhjCfb9VuL04I5Dtx+gFNJRm33X+X+b+4T1il5/wCf+S+86R0WRGSRQysMMrDII9K+QvjJ4e0fR/j9pVhpWl2lnZTi0aS2hhVYmLSEN8gGOQBkYr6+r5Q+PSNJ+0Ro6JI0TNFZgSIBuQ+a3IyCMj3BFSv4kPX/ADHL+HL0PSPjd4H8O6H8M77XvDum22g6npzxPBcaZGLVmzIqlTsxnhj16YrU+BHiPVPG/wAKnbxYv24pPJZ+bcIG+1RbR97PDfeKnPXHPOa8s+Nd34o8NeONMtfGt/c+JfB7zLcRW8qpAJgOHRzCqAuucjtyPcV9I+F5dGuPC+nzeGEgj0mSBWtUt0CoqHtgdD6++aqHwSff8AnpKK6rU+UfGvh7SNO/amtNIstNtYtNk1OxDWaxL5JDiMsuzGNpyeMY5rtP2g/Dem+ArbRvEfggf8I9qMl0YHTTW8hZFClg2xcDIIxx13c5rm/iLayXv7XNtbwXD20j39htmjClozsjO4bgVyO2QR6iur+OXha68L/2Z40v9Ql8Ww204t3sNdVTEm7JDKsIjX+HBBU5yM5xUp/uYa213+40kl7Rpfyr8j2H4b69feJvhvomsasmy8urYNL8u3eQSN2O27Gfxrhv2kPFNzonw5bTNN8z7RqLgTSRg/uYFYbmJHTLFF99xrtfhr4ytPHfgWy1mxtPsKnMMlqORC6cFQQBlehHsa46+1vwX4w0zxZHrvinRLZtTD6fbR3F/EjwRRZCNtLZBMu6T6FfSnWvd29f6/rYzo2SV35f1/W51vws8XL42+HGl6uzhroxeTdgdpk4b8/vfQiofir8Q4Phv4Mk1QxrPezP5FlA3R5CM5b/AGQBk/l3rxD9mHxWdI8W6l4PvJ0aK9zLblHDKZo+G2kcHcozkf3BW7+1nY3Umj+HL5FY2sM80UhHRXcKVz+CNRWe0l1CitXF9LnQfCjwrN488Ox+MfiVPJr1xqDs1rY3Zza28YO0EQ/cySCeR0x3ya6D4g/DSC98G3q+CmuNBv4YWaKHSZWt4rkAcxPEhCsGHHTOcdsg6Hwau4b34N+GpLcgqlmsTY7MhKt+oNdvVy92dl0JpybSkxsYxEoPXaK8a+Pvjq58MXvhjS3kubfSNQuTJqctq5SSSBGTdGrDkZDEnBBPAz1r2euS8ceFvDvj+2PhjxBGxmMRuoJIyFkiwdpdD7ZAIIxyKzd7prvt3LjZKz/roZMPhPwR4x8Ky3PgKa10yWVD5OqaE/2eaKTHG8x4Yn1V/wCfNdN4Js7vTvAmiWep7/tlvZRRz7ySxcKAxJPJ5r5k8UfCTxz8HbmTxN4R1aS5sLb5nubUlJI0z/y1j5DL69R3IFdZ8Q/itq+sfs36Pq1qTZXms3Jsr14crgIH37T2DFB+BIpuS5W4+Wn9eokndKXnqe9WniTQ7/U5NOsdZ0+5vos+Zaw3SPKmPVAcj8qvyyxwQvLPIscaAszu2Ao9ST0rwLxJoHiLxH8JfCVj4E8IajZ3ulm3urS+e6so1C+WdzKwnLZZiG5Az3qn8ZvFGp3PjbwJ4W11RbWc5tLvVbbcCkkjShWViOCq7W9ufYVTj73J1vb/AIIk7x5+lr/8A960vxJoeuSSR6LrOn6i8X+sW0uklKfUKTiq7+MvDEerf2XJ4j0ldQ80Q/ZGvohN5hOAmzdndnjGM1zWt/Cm21b4q6R43tdUm0+ewRUltoYhi4C5wN2RgYODwcgY4ryD4sKB+1d4XIABMunk4HX9+aUFzThHu7f8Eb0Un2Vz6Ek8Z+F4tV/syXxJpCah5oh+yNfRCXeTgJs3Z3Z4xjNT6v4m0HQHiTXdb07TGmBMa3t3HCXA6kbiM9a+dPjKoH7UXhQgAE/YCcDr/pDV2H7VIB+GWnkgZGqJg+n7uSpbtTU/O35f5lJXm4+V/wBT1x/EehxxWUr6zp6x6gQLNzdIBc56eWc/Pn2zXkvifSLLXvj1oevWHxG0W3SwdLeTTP7RX7QJFchokjDc7z8pBwfY1D4b+D+k+NfhF4PuL+4eDUoUhuTfKgaRouogyeihcAdgRnByc8l8Vo0T9q7wuUUAtNp5YgdT52Mn8AK0jG1aEevNb/g/mZ3vTb6WPWvix8VdP+H+lLawXET65eELbw5B8lScGV/QAZxnqfbOHePtb8O+K/hvqWn6Z460TT2vV8iO9OpRiPeNrGMsG7jggc4boa8f/aa0ywtviD4dlt7K3ikvELXLxxKpnPmKMuQPmOOOa9O+MugaNonwG8RQ6LpNjp0TCGRo7S2SJS/mxjcQoHOOM1hfmo8z7tfc7G0f4yivL8Td+D+k/wBh/DPT9PGv2mv+Szj7XZT+dCvzE7EbPIXp2+grpv8AhJND/tj+yf7Z0/8AtL/ny+1J53/fGd36V88eHPEd/wCF/wBj64vtIlaC7kvJLdJkOGiDy4LA9jjIB7E1esdF1TxL+zXp+heGvCOozXswS7h1E3NokbTiXc8gYziQHG4cqD2raTu2+1vxV/wX3mMLWS73/Bn0Je31pptnJd6jdQ2ltGMvNPIERR7seBUVjrGmapDFLpmo2l5HMrNE9vOsgkC4BIIJyBkZx0yK8P8AibpHxEuPh34M1sWjzavoDC41KzG2YmVcBZSqkh8bSTjON598W/hL8Q/DvxB8fLqs9imj+K10+S2uIoxmO+Tcjb1bruXYeDzhupxwRV5Ndr/lv8xt2im+v9WPca+bvE9rrb/tkaTHFeXCJJ5M0O1zhbdY8yLjspKOCO+a+ka5q68KxT/E7TvFHlqWttMntC/GQWdCv6eZ+dTHSpGXa/5Mb1hKPf8AzR0tFFFABRRRQAUUUUAcB8PPhdaeA/EfiXU4Wjf+1brdbBc5gg+9s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password reset link is valid for fixed time, afterwards it will invalid & user will not be able to reset their password.

This link will request to change password form after validating the passed token with db entry for expiration.

![A screenshot of a social media post

Description generated with very high confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4REGRXhpZgAATU0AKgAAAAgABAE7AAIAAAAUAAAISodpAAQAAAABAAAIXpydAAEAAAAoAAAQ1uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEFua3VzaCBLdW1hciBWZXJtYW4AAAWQAwACAAAAFAAAEKyQBAACAAAAFAAAEMCSkQACAAAAAzg5AACSkgACAAAAAzg5AADqHAAHAAAIDAAACKAAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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8+9v/3/AG/+IqzRQBW8y+/597f/AL/t/wDEUeZff8+9v/3/AG/+IqzRQBW8y+/597f/AL/t/wDEUeZff8+9v/3/AG/+IqzRQBW8y+/597f/AL/t/wDEUeZff8+9v/3/AG/+IqzRQBW8y+/597f/AL/t/wDEUeZff8+9v/3/AG/+IqzRQAVTHVv99v5mrlUx1b/fb+ZoA5/xZrGiWenvY647OLlP9TEMuRnr7cjv6Vi+CtZ8LWcjWOlNdQz3Ljm8A3SHsMrx3OOnWul1Xwxo+tXS3Gp2nnyqgjDea64UEnGAR3JqtbeCPD1pdRXFvp+yWFxIjefIcMDkHBb1oA36ng/494/9wfyqCp4P+PeP/cH8qAEb/j8j/wCub/zWpaib/j8j/wCub/zWpaAMezEZ1/VRdbTLtTbv/wCeO3t7bt2fesa7lt472FtNwbb7NAsW9dw2/aMcb/0P0xXVXNjaXu37Zaw3GzO3zYw236Zp0lpbyvvlgidsAbmQE4ByB+B5oWjQPZnP3NzcXOlX9zNfrEu6eAWrIuPlDAAH727jPU/Srfhy6mubXFyxjkiRFFtgYRdo2tnqcj8O2OMnSbT7N7hp3tIGmddrSGIFmGMYJxyMcVIlvDHIJEhjVwgQMFAIUdFz6e1C0BnNWs1zaTyTRXDCOTV2haAou0hjyc4zn8ccdKSPWNTaIXJMirKJhtkMIRNobGwZ3kgqMgg9+ldL9lt/+eEX+s837g+//e+vvTBp9mJ3mFpB5sgIeTyhuYHqCcc0dLD6mEb3UfL0+IXFzI9zbm4eSJIQ2cL8o34XaM57npzUuqTTXngaSaZlSVoQXMTKyk57EZGD7GtmaxtLiBIbi1hliTGyN4wyrjjgHpUjQxNAYWjQxFdpjKjbj0x6UMS0aOeudRvYGupEum/0KWGFYGRf3wbbktxnJ3HG3A46Vc10yrdaUYER5PtXyq7lQfkbuAcflWh/Z9mJYpBaQeZCoWN/KGUA6AHHApt5Ym7eJhcywmI5XYkbc+vzKcH6Y60CMCW9uoJNUvDGtvebobcwxkNtUnAly2Ac7jjOAMc96V9R1JbmK0e5eDddpF5kvktLtZCcEJlQcjg4HUda1H0UyyM8moXDuyeWzNDASU/uk+X09qqzeFo5I4YkvZFgjkMhi+zwbScEdAgGee4P0oGZ8tze3F7biKfzLm3e7jim2j95tVSMjGPY4Fbej6g2qefdo+bYlVhXA4woLH8zj/gNM/sOSOJBa6lNE8SkQn7PARHn0AjHHsCKn0rTDpdsIRdyzqB911QAEnJIwAeST1JoAy/7UvfNjuPtGRLevbG12LhFGRnON2flyecc9K0dCkuLjRYLm7uWnknjDnKqoXjoMAfrVz7Fai6a5FtD57DDS+WNxHTGetO8hUtvJg/cKF2r5agbPoCMfpS6WDqYvhwXsfh+1kMsMkIhJWJYSHPXA3bsfpVGbWNQg06O4W8857mxkuNvlriBhjGMDp82Pmz061txaVLDEscOqXUaKMKqRwAD8PLqFfD0a+dtvJR5/wDrcW9v+8/3v3XP403qwRSvb7UrGR7OO6aeeWNZYHdEzgBi4wABj5QP+BUratcXCRvHPOq3U0hgS3jj3GNFx1k4HOTzk+laLaQ7yJI+pXLOgIVjFASoPUA+XxUcmgJLDHDLezPFH9xGgtyqfQeXxR/X9f13Az9M1O/v5LMvctj7EZ3SNE/esH24yRxkemPbFJp8s1zq2j3VxefaGuLaWTZtUCMnbkDA6ducnitOLRTCwaHULiMqpUFIYBgZzj/V9M806z0SKzvftSzM8hyWzDCu4n1KoD+tPr/XmBpUUUUgCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAqubd9xxIuCSeV9T9asUUAV/s7/APPRf++P/r0fZ3/56L/3x/8AXqxRQBX+zv8A89F/74/+vU0a7I1XOdoAzTqKAIm/4/I/+ub/AM1qWom/4/I/+ub/AM1qWgAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAib/j8j/65v8AzWpaib/j8j/65v8AzWpaACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigCJv+PyP/rm/wDNalqGXetxG6xs4CsDtI4yR6n2pfOf/n2l/Nf8aAJaKi85/wDn2l/Nf8aPOf8A59pfzX/GgCWiovOf/n2l/Nf8aPOf/n2l/Nf8aAJaKi85/wDn2l/Nf8aPOf8A59pfzX/GgCWiovOf/n2l/Nf8aPOf/n2l/Nf8aAJaKi85/wDn2l/Nf8aPOf8A59pfzX/GgCWiovOf/n2l/Nf8aPOf/n2l/Nf8aAJaKi85/wDn2l/Nf8aPOf8A59pfzX/GgCWiovOf/n2l/Nf8aPOf/n2l/Nf8aAJaKi85/wDn2l/Nf8aPOf8A59pfzX/GgCWiovOf/n2l/Nf8aPOf/n2l/Nf8aAJaKi85/wDn2l/Nf8aPOf8A59pfzX/GgCWiovOf/n2l/Nf8aPOf/n2l/Nf8aAJaKi85/wDn2l/Nf8aPOf8A59pfzX/GgCWiovOf/n2l/Nf8aPOf/n2l/Nf8aAJaKi85/wDn2l/Nf8aPOf8A59pfzX/GgCWiovOf/n2l/Nf8aPOf/n2l/Nf8aAJaKi85/wDn2l/Nf8aPOf8A59pfzX/GgCWiovOf/n2l/Nf8aPOf/n2l/Nf8aAJaKi85/wDn2l/Nf8aPOf8A59pfzX/GgCWiovOf/n2l/Nf8aPOf/n2l/Nf8aAJaKi85/wDn2l/Nf8aPOf8A59pfzX/GgCWiovOf/n2l/Nf8aPOf/n2l/Nf8aAJaKi85/wDn2l/Nf8aPOf8A59pfzX/GgCWiovOf/n2l/Nf8aPOf/n2l/Nf8aAJaKi85/wDn2l/Nf8aPOf8A59pfzX/GgCWiovOf/n2l/Nf8aPOf/n2l/Nf8aAJaKi85/wDn2l/Nf8aPOf8A59pfzX/GgCWiovOf/n2l/Nf8aPOf/n2l/Nf8aAJaKi85/wDn2l/Nf8aPOf8A59pfzX/GgCWiovOf/n2l/Nf8aPOf/n2l/Nf8aAJaKi85/wDn2l/Nf8aPOf8A59pfzX/GgCWiovOf/n2l/Nf8aPOf/n2l/Nf8aAJaKi85/wDn2l/Nf8aPOf8A59pfzX/GgCWiovOf/n2l/Nf8aPOf/n2l/Nf8aAJaKi85/wDn2l/Nf8aPOf8A59pfzX/GgCWiovOf/n2l/Nf8aPOf/n2l/Nf8aAJaKi85/wDn2l/Nf8aPOf8A59pfzX/GgCWiovOf/n2l/Nf8aPOf/n2l/Nf8aAJaKi85/wDn2l/Nf8aPOf8A59pfzX/GgCWiovOf/n2l/Nf8aPOf/n2l/Nf8aAJaKi85/wDn2l/Nf8aPOf8A59pfzX/GgCWiovOf/n2l/Nf8aPOf/n2l/Nf8aAJaKi85/wDn2l/Nf8aPOf8A59pfzX/GgCWiovOf/n2l/Nf8aPOf/n2l/Nf8aAJaKi85/wDn2l/Nf8aPOf8A59pfzX/GgCWiovOf/n2l/Nf8aPOf/n2l/Nf8aAJaKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigD//2Q==)After the validation, user will be asked to enter new password, then password will be updated to db for the user.

For changin the current password, user must be logged in, upon logged they will visualize the change password link in their home page, after clicking user will be asked for new password, and the same will be updated against db.



Beside is form to enter new password to change password. This is will coming for specific user upon login, and same will be updated with db.

1. **Managing Session Timeout & Access Denied**

**Session**

It is often required to monitor users’ session to control user’ access over session timeouts or session expiration. To do this in this security context, we have already been given session management support by spring security. Although, session expiration time will not be handled by spring security, we can control what would happen when a session expires or how session is created or managed in spring security context.

To control session timeouts, we can user servlet listener which will invoke session related methods upon session creation & destroy. Below is configuration to session listener:

@Override

**public** **void** onStartup(ServletContext servletContext) **throws** ServletException {

servletContext.addListener(**new** SessionListener());

**super**.onStartup(servletContext);

}

SessionListener class has to implement HttpSessionListener in order to override these two methods, which will make the current active to be expired in 30 seconds:

**public** **class** SessionListener **implements** HttpSessionListener {

**private** **static** Logger *logger* = Logger.*getLogger*(SessionListener.**class**);

@Override

**public** **void** sessionCreated(HttpSessionEvent se) {

*logger*.info("Session is created with inactive time 15 seconds ");

se.getSession().setMaxInactiveInterval(15);

}

@Override

**public** **void** sessionDestroyed(HttpSessionEvent se) {

*logger*.info("Session is expired! : ");

}

}

Now, a user is idle/inactive for 15 seconds after log in, his session will be exipred and if user tries to access any resource will not be allowed by prompting for username/password again. This is how we can control activity of user. After entering credentials again, user will be redirected to request resource/page.

Note: However, spring security allows to redirect to specific url in case of any session expires for current user making any request. Below is security configuration with HttpSecurity:

Setting this attribute will inject the [SessionManagementFilter](eclipse-javadoc:%E2%98%82=custom-authorization-rbac/C:%5C/Users%5C/ankush.verman%5C/.gradle%5C/caches%5C/modules-2%5C/files-2.1%5C/org.springframework.security%5C/spring-security-config%5C/4.2.3.RELEASE%5C/9f3771903616e33521836fd999d63efbfebf90d%5C/spring-security-config-4.2.3.RELEASE.jar%3Corg.springframework.security.config.annotation.web.configurers(SessionManagementConfigurer.class%E2%98%83SessionManagementConfigurer~invalidSessionUrl~Ljava.lang.String;%E2%98%82SessionManagementFilter) with a [SimpleRedirectInvalidSessionStrategy](eclipse-javadoc:%E2%98%82=custom-authorization-rbac/C:%5C/Users%5C/ankush.verman%5C/.gradle%5C/caches%5C/modules-2%5C/files-2.1%5C/org.springframework.security%5C/spring-security-config%5C/4.2.3.RELEASE%5C/9f3771903616e33521836fd999d63efbfebf90d%5C/spring-security-config-4.2.3.RELEASE.jar%3Corg.springframework.security.config.annotation.web.configurers(SessionManagementConfigurer.class%E2%98%83SessionManagementConfigurer~invalidSessionUrl~Ljava.lang.String;%E2%98%82SimpleRedirectInvalidSessionStrategy) configured with the attribute value. When an invalid session ID is submitted, the strategy will be invoked, redirecting to the configured URL.

.and().sessionManagement()

.invalidSessionUrl("/sessionexpire")

This will invoke method mapped with /sessionexpire to manage what to do if user session is expired programmatically.

This is approach is not frequest because default is common usecase in this scenario.

**Handling AccesDenied Exception**

We can control how to restrict access to un authorized resouces by checking the privileges of current logging user. But somehow or using browser history a user can request to resources which user may not having persmission. In this case, user will get AccessDeniedException by default.

To manipulate this exception or any other accordingly, spring security has given simple configuration to use:

Specifies the [AccessDeniedHandler](eclipse-javadoc:%E2%98%82=custom-authorization-rbac/C:%5C/Users%5C/ankush.verman%5C/.gradle%5C/caches%5C/modules-2%5C/files-2.1%5C/org.springframework.security%5C/spring-security-config%5C/4.2.3.RELEASE%5C/9f3771903616e33521836fd999d63efbfebf90d%5C/spring-security-config-4.2.3.RELEASE.jar%3Corg.springframework.security.config.annotation.web.configurers(ExceptionHandlingConfigurer.class%E2%98%83ExceptionHandlingConfigurer~accessDeniedHandler~Lorg.springframework.security.web.access.AccessDeniedHandler;%E2%98%82AccessDeniedHandler) to be used.

Shortcut to specify the [AccessDeniedHandler](eclipse-javadoc:%E2%98%82=custom-authorization-rbac/C:%5C/Users%5C/ankush.verman%5C/.gradle%5C/caches%5C/modules-2%5C/files-2.1%5C/org.springframework.security%5C/spring-security-config%5C/4.2.3.RELEASE%5C/9f3771903616e33521836fd999d63efbfebf90d%5C/spring-security-config-4.2.3.RELEASE.jar%3Corg.springframework.security.config.annotation.web.configurers(ExceptionHandlingConfigurer.class%E2%98%83ExceptionHandlingConfigurer~accessDeniedPage~Ljava.lang.String;%E2%98%82AccessDeniedHandler) to be used is a specific error page.

.and().exceptionHandling()

.accessDeniedHandler(**new** CustomHandler())

**or**

.accessDeniedPage("/accessdenied")

Adding handler will invoke handle() upon getting any exception as follows, as can be used to redirect relevant result.

Example for adding Custom AccessDeniedHandler:

**public** **class** CustomAccessDeniedHandler **implements** AccessDeniedHandler {

**static** **final** Logger ***logger*** = Logger.*getLogger*(CustomAccessDeniedHandler.**class**);

@Override

**public** **void** handle(HttpServletRequest request, HttpServletResponse response,

AccessDeniedException accessDeniedException) **throws** IOException, ServletException {

***logger***.info("Custom Access Denied handler : " + response.getStatus());

//response.sendError(HttpServletResponse.SC\_FORBIDDEN, "no access re-directing to home page");

response.sendRedirect("/rbac-security/accessdenied/" + HttpServletResponse.***SC\_FORBIDDEN*** + "/" + accessDeniedException.getMessage());

}

}

In this example after getting exception, it will redirect the current to response to another resource method as follows:

@RequestMapping(path = "/403/{msg}", method = RequestMethod.***GET***)

**public** ModelAndView errorPage403(@PathVariable("msg") String msg) {

*logger*.info(" " + getClass().getName() + " : " + msg);

**return** **new** ModelAndView("indexjsp", "msg", msg);

}

Another way of handling exception in spring based application is using @ExceptionHanlder.

**@ExceptionHanlder:** Annotation for handling exceptions in specific handler classes and/or handler methods. This annotation can be used in conjuction with @ControllerAdvice to handle exceptions.

**@ControllerAdvice:** Annotation that declare @ExceptionHandler, @InitBinder, or @ModelAttribute methods to be shared across multiple @Controller classes. Likewise, any exception raising in any controller class can be handled by exceptionhandler.

For Example:

@ControllerAdvice

**public** **class** ExceptionHandlerAdvice {

**private** **static** Logger *logger* = Logger.*getLogger*(ExceptionHandlerAdvice.**class**);

@Autowired

MessageSource messageSource;

@ExceptionHandler({ AccessDeniedException.**class** })

**public** ModelAndView handleException(HttpServletRequest request, HttpServletResponse response, Exception ex) {

*logger*.info("Start: " + getClass().getName() + " : handleException()");

**return** **new** ModelAndView(***INDEX\_PAGE***, "msg", ex.getMessage());

}

}

The previous handler has to register along with other security configuration whereas this mechanism will work without registering in configuration. Since, it is spring mvc handler concept to handle exceptions.

Notice that we are returning ModelAndView which is compatible for using with Spring-MVC.

1. **ResponseEntity / Adding Security For RESTful**

To add spring security to spring-rest application, configuration will be little different from what we seen till. Since, rest calls work on Http so to add HttpSecurity below is the sample configuration:

@Override

**protected** **void** configure(HttpSecurity http) **throws** Exception {

http.authorizeRequests()

.antMatchers("/rest-user", "/rest-accessdenied/\*\*",).permitAll()

.mvcMatchers("/rest-user/addUser/\*\*", "/rest-user/registerForm/\*\*")

.permitAll()

.antMatchers("/rest-user/\*\*").authenticated()

.and()

.httpBasic()

.authenticationEntryPoint(**new** CustomEntryPoint())

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

}

The above configuration contains ant-matchers for intercepting urls. However, in rest calls there may be no login form to ask credentiasl. In this case authotication token will be coming over http request. For this we are adding authenticationEntryPoint. An entry point is nothing but just implementation of AuthenticationEntryPoint[i] which will be used by BasicAuthenticationFiler.

To make any rest request (from postman in our case), authentication header need to be attached to request.

A sample implementation of authentication entry point:

**public** **class** CustomEntryPoint **implements** AuthenticationEntryPoint {

@Override

**public** **void** commence(HttpServletRequest request, HttpServletResponse response,

AuthenticationException authException) **throws** IOException, ServletException {

response.sendError(HttpServletResponse.***SC\_UNAUTHORIZED***, authException.getMessage());

}

}

**Working of Spring Security on REST API**

Before discussing interval flow of security configuration on REST calls, lets see how may ways a request could be made for any rest based spring application resources.

**Case 1:** One request may contain only the uri without any header info of authorization along with it. Like any user can unwingly send a request without knowing that authentication has to passed with request header. Well in this case, spring security filters chain will accordingly as number of filter registered.

Since, header doesn’t have any authorization part, BasicAuthonticationFilter among all existing filter will check for authorization header, if request doesn’t have any authorization info then this filter invocation will be finished and next filter in that filterchain will be invoked.

String header = request.getHeader("Authorization");

**if** (header == **null** || !header.startsWith("Basic ")) {

chain.doFilter(request, response);

**return**;

}

In this filter chain, we have a filter called AnonymousAuthenticationFilter. This will try to extract authentication object from SecurityContextHolder. If it doesn’t contain any Authentication object, so it will create an AnonymousAuthenticationToken with principal as anonymoususer and role as ROLE\_ANONYMOUS, and will proceed with other filters in filter chain.

**protected** Authentication createAuthentication(HttpServletRequest request) {

AnonymousAuthenticationToken auth =

**new** AnonymousAuthenticationToken(key,principal, authorities);

auth.setDetails(authenticationDetailsSource.buildDetails(request));

**return** auth;

}

This token will be verified by accessdecisionmanager as normal token resulting in AccessDeniedException. This exception is then captured by ExceptionTranslationFilter. This filter will invoke registered AuthenticationEntryPoint based on the exception caught which is AccessDeniedException.

**Case 2:** A user can request for the restricted with authorization header in request but with wrong crendentials. In this case also, BasicAuthonticationFilter will extract authorization header from request and then decode the info to get username & password.

Now it will prepare UsernamePasswordAuthenticationToken and send to this as argument to AuthenticationManager. Based on the AuthenticationProvider, it will call one provider [ in our case AbstractUserDetailsAuthenticationProvider] which will call UserDetailsService implmentation to get users complete information by using DaoAuthenticationProvider.

However, in our case this retrieval will result in AuthenticationException. This will be caught at BasicAuthonticationFilter and it will invoke commence() method of registered AuthenticationEntryPoint, resulting in 401 authentication exception.

**public** **class** CustomEntryPoint **implements** AuthenticationEntryPoint {

@Override

**public** **void** commence(HttpServletRequest request, HttpServletResponse response,

AuthenticationException authException) **throws** IOException, ServletException {

response.sendError(HttpServletResponse.***SC\_UNAUTHORIZED***, authException.getMessage());

}

}

**Case 3:** This particular case will completely valid as it will authorization header with correct username password. This case will not throw any exception and will follow similar steps as case 2, except the AuthenticationException.

Other filters in the chain will be invoked normally which will process authorization header and create UsernamePasswordAuthenticationToken which will be the validated againt Authorization manager by called UserDetailsService to get userdetails. And will follow the next filter in the filter chain.

A complete code of BasicAuthonticationFilter:

@Override

**protected** **void** doFilterInternal(HttpServletRequest request, HttpServletResponse response, FilterChain chain) **throws** IOException, ServletException {

**final** **boolean** debug = **this**.logger.isDebugEnabled();

String header = request.getHeader("Authorization");

**if** (header == **null** || !header.startsWith("Basic ")) {

chain.doFilter(request, response);

**return**;

}

**try** {

String[] tokens = extractAndDecodeHeader(header, request);

**assert** tokens.length == 2;

String username = tokens[0];

**if** (debug)

**this**.logger.debug("Basic Authentication Authorization header found for user '"

+ username + "'");

**if** (authenticationIsRequired(username)) {

UsernamePasswordAuthenticationToken authRequest = **new** UsernamePasswordAuthenticationToken(username, tokens[1]);

authRequest.setDetails( **this**.authenticationDetailsSource.buildDetails(request));

Authentication authResult = **this**.authenticationManager.authenticate(authRequest);

**if** (debug)

**this**.logger.debug("Authentication success: " + authResult);

SecurityContextHolder.*getContext*().setAuthentication(authResult);

**this**.rememberMeServices.loginSuccess(request, response, authResult);

onSuccessfulAuthentication(request, response, authResult);

}

} **catch** (AuthenticationException failed) {

SecurityContextHolder.*clearContext*();

**if** (debug) {

**this**.logger.debug("Authentication request for failed: " + failed);

}

**this**.rememberMeServices.loginFail(request, response);

onUnsuccessfulAuthentication(request, response, failed);

**if** (**this**.ignoreFailure) {

chain.doFilter(request, response);

}

**else** {

**this**.authenticationEntryPoint.commence(request, response, failed);

}

**return**;

}

chain.doFilter(request, response);

}

**Exception Handling in spring-rest security application**

We discussed in previous section about handling exception using @ControllerAdvice & @ExceptionHadler. But using @ControllerAdvice, we can return only ModelAndView which is suitable spring-mvc environment. If We wish to return ResponseEntity<?> which is more comfortable in spring-rest applications. In this case spring has given

**@RestControllerAdvice:** A convenience annotation that is itself annotated with @ControllerAdvice and @ResponseBody. This also will be used with @ExceptionHanlder to handle exceptions.

Classes that carry this annotation are treated as controller advice where @ExceptionHandler methods assume @ResponseBody semantics by default.

To handle other exceptions manually related to rest calls, we can extend the same controller advicer with ResponseEntityExceptionHandler which will make this handler more efficient.

A sample handler for rest call exceptions:

@RestControllerAdvice

**public** **class** RestResponseExceptionHandler **extends** ResponseEntityExceptionHandler {

**static** Logger *logger* = Logger.*getLogger*(RestResponseExceptionHandler.**class**);

@ExceptionHandler({ Exception.**class** })

**protected** ResponseEntity<?> handleException(HttpHeaders headers, WebRequest request) {

*logger*.info("exception occurred ");

**return** **new** ResponseEntity<>("exception occured", HttpStatus.***OK***);

}

@Override

**protected** ResponseEntity<Object> handleHttpRequestMethodNotSupported(HttpRequestMethodNotSupportedException ex,

HttpHeaders headers, HttpStatus status, WebRequest request) {

**return** **super**.handleHttpRequestMethodNotSupported(ex, headers, status, request);

}

@Override

**protected** ResponseEntity<Object> handleNoHandlerFoundException(NoHandlerFoundException ex, HttpHeaders headers,

HttpStatus status, WebRequest request) {

**return** **super**.handleNoHandlerFoundException(ex, headers, status, request);

}

}

ResponseEntityExceptionHandler class contains many more methods to be overriden based on application requirements.

***For References:***

<https://docs.spring.io/spring-security/site/docs/current/reference/htmlsingle/>

<https://www.mkyong.com/spring-security/spring-security-remember-me-example/>

<https://docs.spring.io/spring-security/site/docs/current/reference/htmlsingle/#remember-me>