

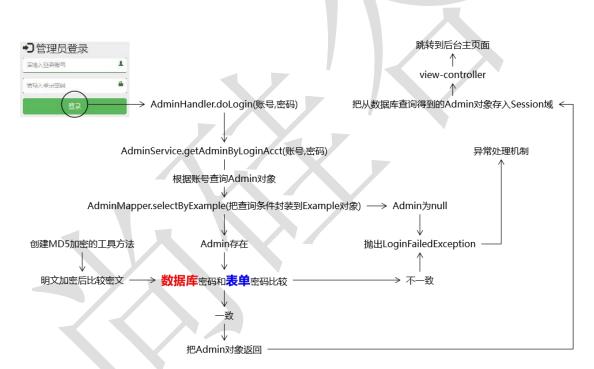
# 尚筹网

## [04-后台管理系统-管理员登录]

# 1 目标

识别操作系统的人的身份,控制他的行为。

# 2 思路



# 3 代码

# 3.1 创建工具方法执行 MD5 加密





```
* 对明文字符串进行 MD5 加密
 * @param source 传入的明文字符串
 *@return 加密结果
 */
public static String md5(String source) {
   // 1.判断 source 是否有效
    if(source == null | | source.length() == 0) {
        // 2.如果不是有效的字符串抛出异常
        throw new RuntimeException(CrowdConstant.MESSAGE_STRING_INVALIDATE);
   }
   try {
        // 3.获取 MessageDigest 对象
        String algorithm = "md5";
        MessageDigest messageDigest = MessageDigest.getInstance(algorithm);
        //4.获取明文字符串对应的字节数组
        byte[] input = source.getBytes();
        // 5.执行加密
        byte[] output = messageDigest.digest(input);
        // 6.创建 BigInteger 对象
        int signum = 1;
        BigInteger bigInteger = new BigInteger(signum, output);
        // 7.按照 16 进制将 bigInteger 的值转换为字符串
        int radix = 16;
        String encoded = bigInteger.toString(radix).toUpperCase();
        return encoded;
    } catch (NoSuchAlgorithmException e) {
        e.printStackTrace();
    }
    return null;
```



## 3.2 创建登录失败异常

```
* 登录失败后抛出的异常
 * @author Lenovo
 */
public class LoginFailedException extends RuntimeException {
    private static final long serialVersionUID = 1L;
    public LoginFailedException() {
         super();
    }
    public LoginFailedException(String message, Throwable cause, boolean enableSuppression,
              boolean writableStackTrace) {
         super(message, cause, enableSuppression, writableStackTrace);
    }
    public LoginFailedException(String message, Throwable cause) {
         super(message, cause);
    }
    public LoginFailedException(String message) {
         super(message);
    }
    public LoginFailedException(Throwable cause) {
         super(cause);
    }
```



### 3.3 在异常处理器类中增加登录失败异常的处理

```
atcrowdfunding03-admin-component

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```

## 3.4 在登录页面显示异常消息

```
➤ WEB-INF

admin-login.jsp

system-error.jsp

target.jsp

web.xml
```

```
<h2 class="form-signin-heading">
     <i class="glyphicon glyphicon-log-in"></i> 管理员登录
</h2>
${requestScope.exception.message }
```

### 3.5 handler 方法

```
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```

@RequestMapping("/admin/do/login.html")





#### 3.6 service 方法

atcrowdfunding03-admin-component

> main/java

> 🌐 com.atguigu.crowd.mapper

> # com.atguigu.crowd.mvc.config

> 🌐 com.atguigu.crowd.mvc.handler

⊕ com.atguigu.crowd.mvc.interceptor

> # com.atguigu.crowd.service.api

> AdminServiceImpl.java

src/main/resources

```
@Override
public Admin getAdminByLoginAcct(String loginAcct, String userPswd) {

// 1.根据登录账号查询 Admin 对象

// ①创建 AdminExample 对象
AdminExample adminExample = new AdminExample();

// ②创建 Criteria 对象
Criteria criteria = adminExample.createCriteria();

// ③在 Criteria 对象中封装查询条件
criteria.andLoginAcctEqualTo(loginAcct);

// ④调用 AdminMapper 的方法执行查询
```



```
List<Admin> list = adminMapper.selectByExample(adminExample);
   // 2.判断 Admin 对象是否为 null
   if(list == null | | list.size() == 0) {
        throw new LoginFailedException(CrowdConstant.MESSAGE_LOGIN_FAILED);
   }
    if(list.size() > 1) {
        throw
                                                                              new
RuntimeException(CrowdConstant.MESSAGE_SYSTEM_ERROR_LOGIN_NOT_UNIQUE);
   }
   Admin admin = list.get(0);
   // 3.如果 Admin 对象为 null 则抛出异常
    if(admin == null) {
        throw new LoginFailedException(CrowdConstant.MESSAGE_LOGIN_FAILED);
   }
   // 4.如果 Admin 对象不为 null 则将数据库密码从 Admin 对象中取出
   String userPswdDB = admin.getUserPswd();
   // 5.将表单提交的明文密码进行加密
   String userPswdForm = CrowdUtil.md5(userPswd);
   // 6.对密码进行比较
    if(!Objects.equals(userPswdDB, userPswdForm)) {
        // 7.如果比较结果是不一致则抛出异常
        throw new LoginFailedException(CrowdConstant.MESSAGE_LOGIN_FAILED);
   }
   // 8.如果一致则返回 Admin 对象
    return admin;
```

## 3.7 补充

#### 3.7.1 前往后台主页面的方式调整

为了避免跳转到后台主页面再刷新浏览器导致重复提交登录表单,重定向到目标页面。

所以 handler 方法需要做相应修改



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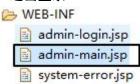
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```

<mvc:view-controller path="/admin/to/main/page.html" view-name="admin-main"/>



#### 3.7.2 退出登录



<a href="admin/do/logout.html"><i class="glyphicon glyphicon-off"></i> 退出系统</a>

```
atcrowdfunding03-admin-component

src/main/java

com.atguigu.crowd.mapper

com.atguigu.crowd.mvc.config

com.atguigu.crowd.mvc.handler

AdminHandler.java
```

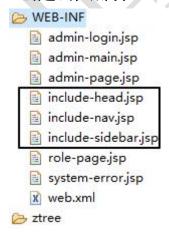
```
@RequestMapping("/admin/do/logout.html")
public String doLogout(HttpSession session) {

// 强制 Session 失效
session.invalidate();

return "redirect:/admin/to/login/page.html";
}
```

# 4 抽取后台主页面公共部分

# 4.1 创建公共部分 JSP





### 4.2 抽取后效果

```
<%@ page language="java" contentType="text/html; charset=UTF-8"</p>
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html lang="zh-CN">
<%@include file="/WEB-INF/include-head.jsp" %>
<body>
    <%@ include file="/WEB-INF/include-nav.jsp" %>
    <div class="container-fluid">
         <div class="row">
             <%@ include file="/WEB-INF/include-sidebar.jsp" %>
              <div class="col-sm-9 col-sm-offset-3 col-md-10 col-md-offset-2 main">
                  <h1 class="page-header">控制面板</h1>
                  <div class="row placeholders">
                  </div>
              </div>
         </div>
    </div>
</body>
</html>
```

# 4.3 创建 JSP 模板

模板内容是:

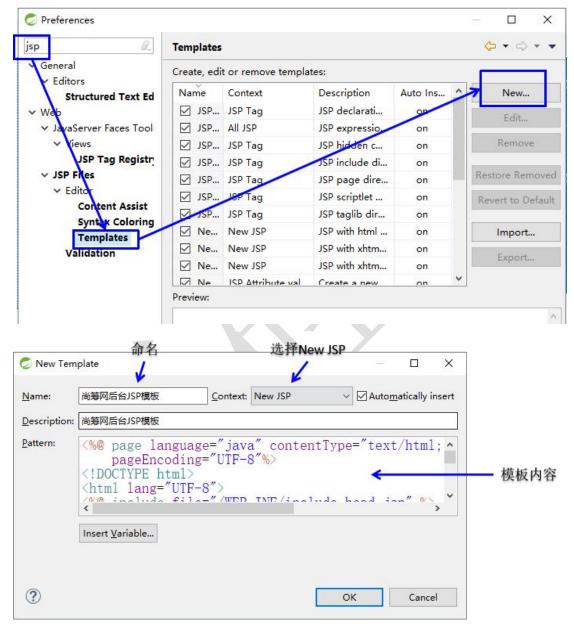
```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html lang="zh-CN">
<%@include file="/WEB-INF/include-head.jsp" %>
<body>

</@ include file="/WEB-INF/include-nav.jsp" %>
<div class="container-fluid">
<div class="row">
    </@ include file="/WEB-INF/include-sidebar.jsp" %>
    <div class="row">
    </div class="col-sm-9 col-sm-offset-3 col-md-10 col-md-offset-2 main">
    </div>
```



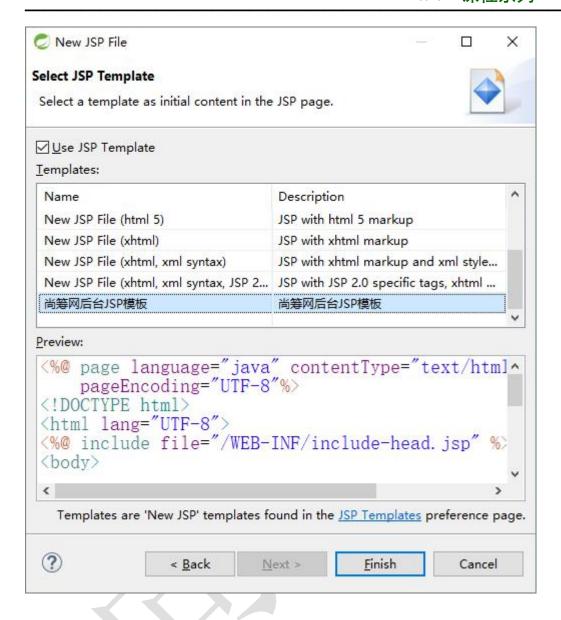






模板创建完成后,第一次创建 JSP 页面时需要选择一下我们创建的模板,以后就默认使用这个模板。





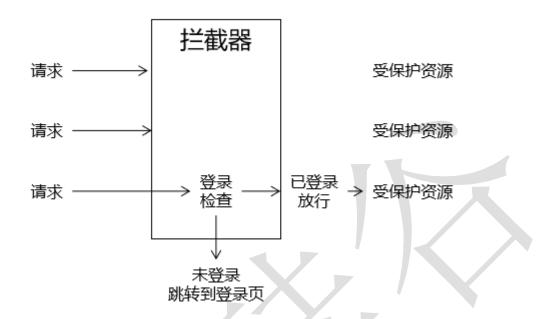
# 5 登录状态检查

# 5.1 目标

将部分资源保护起来,让没有登录的请求不能访问。



## 5.2 思路



### 5.3 代码

#### 5.3.1 创建自定义异常

atcrowdfunding05-common-util

∨ # src/main/java

> # com.atguigu.crowd.constant

AccessForbiddenException.java

J LoginFailedException.java

#### 5.3.2 创建拦截器类

atcrowdfunding03-admin-component

∨ 🥮 src/main/java

> # com.atguigu.crowd.mapper

> # com.atguigu.crowd.mvc.config

> # com.atguigu.crowd.mvc.handler

→ 

⊕ com.atguigu.crowd.mvc.interceptor

D LoginInterceptor.java

public class LoginInterceptor extends HandlerInterceptorAdapter {

@Override

public boolean preHandle(HttpServletRequest request, HttpServletResponse response,





```
Object handler)
            throws Exception {
        // 1.通过 request 对象获取 Session 对象
        HttpSession session = request.getSession();
        // 2.尝试从 Session 域中获取 Admin 对象
                                admin
        Admin
                                                                           (Admin)
session.getAttribute(CrowdConstant.ATTR_NAME_LOGIN_ADMIN);
        // 3.判断 admin 对象是否为空
        if(admin == null) {
            // 4. 抛出异常
            throw
                                                                              new
AccessForbiddenException(CrowdConstant.MESSAGE ACCESS FORBIDEN);
        }
        // 5.如果 Admin 对象不为 null,则返回 true 放行
        return true;
    }
```

#### 5.3.3 注册拦截器类

```
atcrowdfunding02-admin-webui

src/main/java

src/main/resources

mybatis
jdbc.properties
logback.xml
mybatis-config.xml
spring-persist-mybatis.xml
```

spring-persist-tx.xml
spring-web-mvc.xml





```
<!-- /**对应多层路径,比如: /aaa/bbb 或/aaa/bbb/ccc 或/aaa/bbb/ccc/ddd -->
<mvc:mapping path="/**"/>

<!-- mvc:exclude-mapping 配置不拦截的资源 -->
<mvc:exclude-mapping path="/admin/to/login/page.html"/>
<mvc:exclude-mapping path="/admin/do/login.html"/>
<mvc:exclude-mapping path="/admin/do/logout.html"/>
<mvc:exclude-mapping path="/admin/do/logout.html"/>
<!-- 配置拦截器类 -->
<bean class="com.atguigu.crowd.mvc.interceptor.LoginInterceptor"/>
</mvc:interceptor>
</mvc:interceptors>
```

#### 5.4 完善配套的异常映射

#### 5.4.1 基于 XML 的异常映射

atcrowdfunding02-admin-webui

src/main/java

▼ 

## src/main/resources

> 🗁 mybatis

jdbc.properties

| logback.xml

mybatis-config.xml

spring-persist-mybatis.xml

spring-persist-tx.xml

5 spring-web-mvc.xml



#### 5.4.2 基于注解的异常映射

atcrowdfunding03-admin-component

src/main/java

com.atguigu.crowd.mapper

com.atguigu.crowd.mvc.config

CrowdExceptionResolver.java

CrowdExceptionResolver.txt

 $return\ common Resolve (view Name,\ exception,\ request,\ response);$