

验证码验证人工操作

- 验证码生成工具可以搜索开源网站, 或者自己写
- 感兴趣的同学可以自己开发术语自己的验证码工具
- 验证码验证思路就是 用户在登陆页面访问后台生成验证码接口, 并将真是code存入session
- 用户登陆的时候 拿用户输入的code 和 后台session里存储的 code 进行对比
- 通过则人工操作, 否则判断为机器人

```
String password = req.getParameter( s: "password" );
String checkCode = req.getParameter( s: "checkCode" );
Object code = req.getSession( b: true ).getAttribute( s: "result" );

if ( checkCode == null || !checkCode.equals( code.toString() ) ) {
    req.getSession( b: true ).setAttribute( s: "passworderror", o: "验证码不正确" );
    resp.sendRedirect( s: req.getContextPath() + "/register.jsp" );
    return ;
}
```

图形验证码类

```
1 package com.lovecoding.xml.study.utils;
2 import javax.imageio.ImageIO;
3 import javax.servlet.http.HttpServletRequest;
4 import javax.servlet.http.HttpServletResponse;
5 import javax.servlet.http.HttpSession;
6 import java.awt.*;
7 import java.awt.image.BufferedImage;
8 import java.util.Random;
9
10 public class Captcha {
11     public static final String RANDOMCODEKEY = "result";//放到session中的key
12     private Random random = new Random();
13     private String randString =
14         "0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz";//随机产生的字符串
15
16     private int width = 80;//图片宽
17     private int height = 26;//图片高
18     private int lineSize = 100;//干扰线数量
```

```
18     private int stringNum = 4;//随机产生字符数量
19
20     /**
21      * 生成随机图片
22      */
23     public void getRandcode(HttpServletRequest request, HttpServletResponse response) {
24
25         response.setContentType("image/jpeg");
26
27         HttpSession session = request.getSession(true);
28         //BufferedImage类是具有缓冲区的Image类,Image类是用于描述图像信息的类
29         BufferedImage image = new
BufferedImage(width,height,BufferedImage.TYPE_INT_BGR);
30         //产生Image对象的Graphics对象,改对象可以在图像上进行各种绘制操作
31         Graphics g = image.getGraphics();
32         g.fillRect(0, 0, width, height);
33         g.setFont(new Font("Times New Roman",Font.ROMAN_BASELINE,18));
34         g.setColor(getRandColor(160, 200));
35         //绘制干扰线
36         for(int i=0;i<=lineSize;i++){
37             drawLine(g);
38         }
39         //绘制随机字符
40         String randomString = "";
41         for(int i=1;i<=stringNum;i++){
42             randomString=drawString(g,randomString,i);
43         }
44         session.removeAttribute(RANDOMCODEKEY);
45         session.setAttribute(RANDOMCODEKEY, randomString);
46         g.dispose();
47         try {
48             //将内存中的图片通过流形式输出到客户端
49             ImageIO.write(image, "JPEG", response.getOutputStream());
50         } catch (Exception e) {
51             e.printStackTrace();
52         }
53
54     }
55     /**
56      * 获得字体
```

```

57     */
58     private Font getFont(){
59         return new Font("Fixedsys",Font.CENTER_BASELINE,20);
60     }
61     /*
62     * 获得颜色
63     */
64     private Color getRandColor(int fc,int bc){
65         if(fc > 255)
66             fc = 255;
67         if(bc > 255)
68             bc = 255;
69         int r = fc + random.nextInt(bc-fc-16);
70         int g = fc + random.nextInt(bc-fc-14);
71         int b = fc + random.nextInt(bc-fc-18);
72         return new Color(r,g,b);
73     }
74
75     /*
76     * 绘制字符串
77     */
78     private String drawString(Graphics g,String randomString,int i){
79         g.setFont(getFont());
80         g.setColor(new
81 Color(random.nextInt(101),random.nextInt(111),random.nextInt(121)));
82         String rand =
83 String.valueOf(getRandomString(random.nextInt(randString.length())));
84         randomString +=rand;
85         g.translate(random.nextInt(3), random.nextInt(3));
86         g.drawString(rand, 13*i, 16);
87         return randomString;
88     }
89     /*
90     * 绘制干扰线
91     */
92     private void drawLine(Graphics g){
93         int x = random.nextInt(width);
94         int y = random.nextInt(height);
95         int x1 = random.nextInt(13);
96         int y1 = random.nextInt(15);

```

```
95         g.drawLine(x, y, x+x1, y+y1);
96     }
97     /*
98     * 获取随机的字符
99     */
100     public String getRandomString(int num){
101         return String.valueOf(randString.charAt(num));
102     }
103 }
104
```