登录功能

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任务目标

- 完成基本的登录功能
- 经典图形验证码

知识点

1、用户登录

登录页面前端部分,关注的重点还是用户账号和密码在js代码里要客户端验证,这是验证的第一步,保证用户输入格式的正确性同时也从一方面减少用户向后台发送没必要的错误请求。

前端向后端请求的方式使用POST

在后台接收前端传送的信息同样要经过服务端验证, 因为有可能一些人并不是通过合法的方式进行访问, 可以减少没必要的数据库查询。

2、用户密码安全性

密码要如何保存, 明文存入数据库? 当然非常非常不推荐, 由于大多数客户的习惯都是使用相同的密码, 如果明文在发生信息泄露的情况下容易发生撞库的事情。所以在密码的保存上最好在后台使用MD5的两次加盐加密的方式存储到数据库中。

3、登录状态的保存

由于http协议是无状态的,所以要记录用户的登录状态就要靠后台相应数据的维护来记录,我们通常都是登录成功后在seesion中保存登录用户。

4、防止恶意攻击

防止大量重复请求、机器人暴力访问等情况的,最有效的手段就是加入验证码,同时记录某个用户在或

ip在某个时段内如果尝试的失败登录次数超过一定阈值就限制其在几分钟内不能继续登录。

实现思路

- 1. 完成基本的登录功能:
 - Login 页面采集 username 和 Password
 - 根据 useraname 判断 User 使用存在
 - 如果存在,使用 MD5 的两次加盐加密比对数据库中密码是否行一致
 - 将 User 保存到 Session 中

URL 请求分析:

1. get: /login

逻辑: 跳转到注册页面

参数: username, password

返回值: ModelAndView

2. post: /login

逻辑:保存提交的用户名和密码

参数:

参数名	类型	是否必填	说明
username	String	N	
password	String	N	

返回值: ModelAndView

2. 单元测试之军工六性:

稳定性、适应性、安全性、保障性、维修性、测试性

编码步骤

1. 完成基本的登录功能

Step1.LoginController 的编写

```
🥏 00javaSpace - Spring - seckil2/src/main/java/com/dayup/seckil/controller/LoginController.java - Spring Tool Suite
File Edit Source Refactor Navigate Search Project Run Window Help
Quick Access
□ Package Explorer ≅
                                ☐ LoginContro... ☐ LoginContro... ☐ RegisterCon... ☐ login.html ☐ home.html ☐ register.html ☐ UserReposito...
                    F 6 5
                                  1 package com.dayup.seckil.controller;
                                                                                                                                             > 📴 java8
  KotlinDemo
                                   3⊕ import javax.servlet.http.HttpSession;
  i order-consume
                                                                                                                                             ▣
                                 17
 > 🕍 seckil [boot] [devtools] [seckil master]
                                                                                                                                             =6
                                 18 @Controller
∨ 👺 seckil2 [boot] [devtools]
                                                                                                                                             ₹
1
                                 19 public class LoginController {
   ∨ ఊ src/main/java
                                  20
     > # com.dayup.seckil
                                         private static Logger log = LoggerFactory.getLogger(LoginController.class);
     > # com.dayup.seckil.config
                                                                                                                                             Ju
                                  22⊜
                                         @Autowired

→ # com.dayup.seckil.controller

                                                                                                                                             4
      > 🕒 LoginController.java
                                         public UserService userService;
         🔑 RegisterController.ja
                                  24
                                         @RequestMapping(value = "/login", method = RequestMethod.GET)
        > 🔠 com.dayup.seckil.exception
                                  26
                                         public String login(Model model) {
      # com.dayup.seckil.model
                                             model.addAttribute("user", new User());
model.addAttribute("title", "登陆页面");
                                  27
      # com.dayup.seckil.repository
                                  28
    > # com.davup.seckil.service
                                  29
                                              return "login";
      # com.dayup.seckil.service.impl
                                  30
      # com.dayup.seckil.util
   > 🕭 src/main/resources
                                  32
   33⊜
                                         @RequestMapping(value = "/login", method = RequestMethod.POST)
    SeckilApplicationTests.java
                                  34
                                         public String login(@Valid User user, BindingResult bindingResult, HttpSession session, Mo
        UserRepositoryTests.java
                                  35
                                             if (bindingResult.hasErrors()) {
   > M JRE System Library [JavaSE-1.8]
                                  36
                                                  return "login";
   Maven Dependencies
                                  37

✓ 

    src

                                                             38
                                              log.info("----
      🐎 main
                                  39
                                              //用户是否存在
      🔑 test
    b target
                                                                              Writable
                                                                                            Smart Insert 31:5
🕏 00javaSpace - Spring - seckil2/src/main/java/com/dayup/seckil/controller/LoginController.java - Spring Tool Suite
File Edit Source Refactor Navigate Search Project Run Window Help
Quick Access
              LoginContro...
                           home.html
                                                                                             🖹 register.html
  E 🕏 📴
                                                                                                                                             31
> 😂 java8
                32
  33€
                       @RequestMapping(value = "/login", method = RequestMethod.POST)
  i order-cons
                                                                                                                                             ▣
                34
                       public String login(@Valid User user, BindingResult bindingResult, HttpSession session, ModelAndView mv) {
 > 🚟 seckil [boo
                                                                                                                                             =
                35
                           if (bindingResult.hasErrors()) {

✓ 🐉 seckil2 [be
   36
                               return "login";
                                                                                                                                             B
     > ## com.
                37
                                                                                                                                             바
                           log.info("------"+user.getPassword());
    > # com.
                38
                                                                                                                                             Ju

✓ 

Æ com.

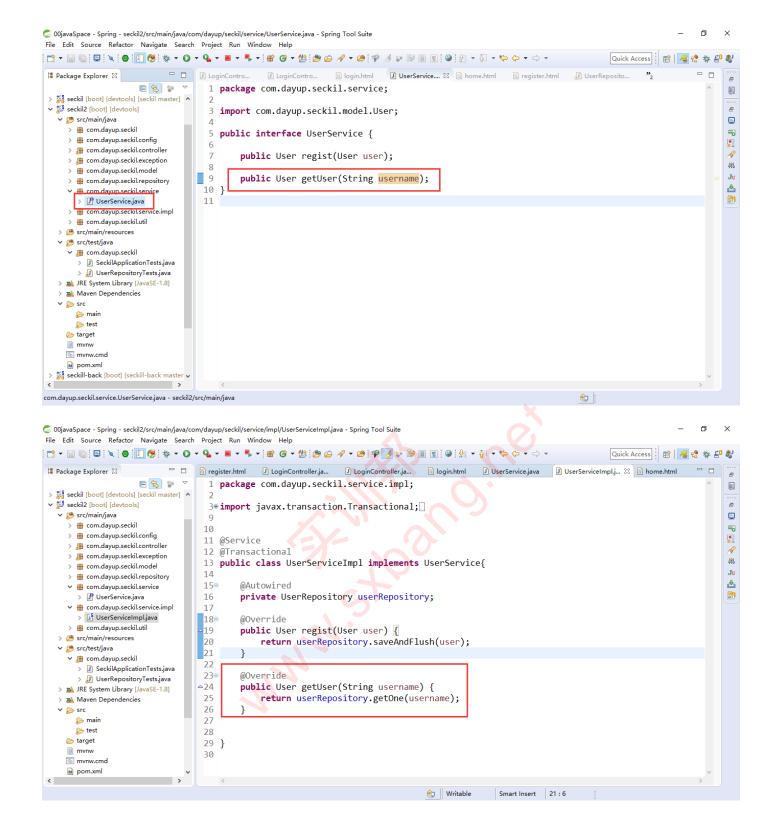
                39
                           //用户是否存在
                                                                                                                                             4
      > 🛂 Lo
                40
                           User temp = userService.getUser(user.getUsername());
       > 🔓 R
                41
                             /密码是否一致
       > [J] U
                42
                           if(temp != null){
     > 🔠 com.
                43
                               String inputPassword = MD5Util.inputToDb(user.getPassword(), temp.getDbflag());
     > # com.
                44
                               if(temp.getPassword().equals(inputPassword)){
     > # com.
               45
      d com.
                46
                                    session.setAttribute("user", temp);
      d com
      ⊕ com.
               47
                                    return "home";
   > # src/mair
                48
                               }else{
   ∨ 🎏 src/test/
                49
                                    return "login";

✓ 

Æ com.

                50
       > [J] Si
                51
                           }else{
        ∭ U
                               return "login";
   > 🕍 JRE Syst
   > 🛋 Maven [
  🗸 🐎 src
      🐎 main
      b test ✓
               56
<
                                                                               Writable
                                                                                             Smart Insert 31:5
```

Step2.修改 UserService



Step3.编写 login.html 以及 home.html

login.html:

```
<!DOCTYPE html>

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

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

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

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

```
<head>
<meta charset= "UTF-8">
<title>注册</title>
k th:href= "@{/css/bootstrap.min.css}" rel= "stylesheet"/>
</head>
<body>
      <div class= "container" style="text-align:center;margin-top:50px;">
         <div class= "row col-md-6 col-md-offset-3">
             <div class= "panel panel-default">
                     <div class= "panel-heading" th:text= "${title}">title</div>
                     <div class= "panel-body">
                       <form id= "registerForm" th:action= "@{/login}" th:object= "${user}" method= "post">
                             <div class= "input-group">
                                    <span class= "input-group-addon">username</span>
                                    <input id= "username" type= "text" th:field= "*{username}" class= "form-control" placeholder= "用户名"
required>
                               </div>
                               <div><span th:if= "${#fields.hasErrors('username')}" th:errors= "*{username}"</pre>
style="color:red;"></span></div>
                               <hr>
                               <div class= "input-group">
                                    <span class= "input-group-addon"> password </span>
                                    <input id="password" type="password" name="password" class="form-control" placeholder="密码"
required>
                               </div>
                               <div><span th:if= "${#fields.hasErrors('password')}" th:errors= "*{password}"</pre>
style="color:red;"></span></div>
                                   <button type= "submit" class= "btn btn-primary register-btn">登陆</button>
                                   <button type= "reset" class= "btn btn-warning">重置</button>
                             </form>
                     </div>
                 </div>
         </div>
      </div>
</body>
<script th:src= "@{/js/jquery-3.3.1.js}"> </script>
<script th:src= "@{/js/jquery.validate.min.js}"> </script>
<script th:src= "@{/js/additional-methods.min.js}"> </script>
<script th:src= "@{/js/messages_zh.min.js}"> </script>
<script th:src= "@{/js/jquery.md5.js}"> </script>
<script>
     $("#registerForm").validate({
        rules: {
                 password: {
                 required: true,
```

```
}
             },
            errorPlacement: function(error, element) {
            error.appendTo(element.parent().next());
       });
</script>
     </html>
     home.html
<!DOCTYPE html>
<html xmlns= "http://www.w3.org/1999/xhtml"</pre>
        xmlns:th= "http://www.thymeleaf.org"
        xmlns:sec= "http://www.thymeleaf.org/thymeleaf-extras-springsecurity3"
        xmlns:layout= "http://www.ultrag.net.nz/thymeleaf/layout">
<head>
<meta charset= "UTF-8">
<title>Home</title>
k th:href= "@{/css/bootstrap.min.css}" rel= "stylesheet"/>
</head>
<body>
      <div th:text= "${session.user.username}"> </div>
</body>
</html>
```

Step4.Junit 测试

```
🥏 00javaSpace - Spring - seckil2/src/test/java/com/dayup/seckil/UserRepositoryTests.java - Spring Tool Suite
  File Edit Source Refactor Navigate Search Project Run Window Help
  Quick Access
   Package Explorer ⋈
                                                                                                    - -
                                                                                                                           LoginController.java login.html UserService.java
                                                                                                                                                                                                                                                                                                  E 🕏 📴
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ▣
                                                                                                                               14 @SpringBootTest
     > 😂 java8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                =0
                                                                                                                               15
                                                                                                                                            public class UserRepositoryTests {
          16
          i order-consumer
                                                                                                                               17⊜
                                                                                                                                                             @Autowired
        seckil [boot] [devtools] [seckil master]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 바

▼ 

Seckil2 [boot] [devtools]

Seckil2 [boot] [devtools]

Output

Description

Seckil2 [boot] [devtools]

Output

Description

Seckil2 [devtools]

Output

Description

Seckil2 [devtools]

Output

Description

Seckil2 [devtools]

Seckil2 [de
                                                                                                                               18
                                                                                                                                                             private UserService userService;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ďů
           19
                    > # com.dayup.seckil
                                                                                                                                20
                          # com.dayup.seckil.config
                                                                                                                              21⊜
                                                                                                                                                             @Test
                    > 🔠 com.dayup.seckil.controller
                                                                                                                                22
                                                                                                                                                             public void testRegistory() {
                   > 🔠 com.dayup.seckil.exception
                                                                                                                                                                             Assert.assertNotNull(userService.regist(new User("alex201805018", "1234", 201805)));
                                                                                                                                23
                   > # com.dayup.seckil.model
                                                                                                                               24
                          # com.dayup.seckil.repository
                                                                                                                                25

    # com.dayup.seckil.service

                                                                                                                                269
                                 UserService.java
                                                                                                                                27
                                                                                                                                                             public void testGetUser() {

    # com.dayup.seckil.service.impl

                                 UserServiceImpl.java
                                                                                                                                28
                                                                                                                                                                             Assert.assertNotNull(userService.getUser("666"));
                          # com.dayup.seckil.util
                                                                                                                                29
            > # src/main/resources
                                                                                                                                30
             31⊜
                                                                                                                                                             @Test

+ 

+ com.dayup.seckil

- com.dayup.seckil
                                                                                                                                32
                                                                                                                                                             public void testPassword() {
                                 33
                                                                                                                                                                             User user = userService.getUser("666");
                                UserRepositoryTests.java
                                                                                                                                                                             String inputPassword = MD5Util.inputToDb("0000", user.getDbflag());
                                                                                                                                34
            > A JRE System Library [JavaSE-1.8]
                                                                                                                                35
                                                                                                                                                                             Assert.assertEquals(inputPassword, user.getPassword());
                 Maven Dependencies
                                                                                                                                36
            ∨ 🐎 src
                                                                                                                                37
                         🐎 main
                                                                                                                                38 }
                          🗁 test
                                                                                                                                39
                                                                                                                                                                                                                                                                                                                 Writable
                                                                                                                                                                                                                                                                                                                                                                       Smart Insert 23:1
```

2. 经典图形验证码

参考地址: https://blog.csdn.net/cjm1103/article/details/71171842

Step1.新增图形验证码生成工具

```
a
💋 00javaSpace - Spring - seckil2/src/main/java/com/dayup/seckil/util/ValidateCode.java - Spring Tool Suite
File Edit Source Refactor Navigate Search Project Run Window Help
Quick Access
Package Explorer ⋈
                        □ □ LoginContro...
                                           🔋 login.html 🔋 home.html 🔃 UserService.... 🔃 UserReposito... 🔋 login.html 🔃 ValidateCode... 🛭 🤭
                   1 package com.dayup.seckil.util;
                                                                                                                                        ▣
> 😂 iava8
                                                                                                                                        =0
  KotlinDemo
                                  3⊕ import java.awt.Color; ...
                                                                                                                                        14
 > seckil [boot] [devtools] [seckil master]
                                 15 public class ValidateCode {
                                                                                                                                        녱

▼ 

Seckil2 [boot] [devtools]

                                 16
                                                                                                                                        ďů
  17
                                        // 图片的宽度。
                                                                                                                                        <u>.</u>
      # com.dayup.seckil
                                 18
                                        private int width = 160;
     > 🖶 com.dayup.seckil.config
                                 19
                                        // 图片的高度。

√ Æ com.dayup.seckil.controller

      > LoginController.java
                                 20
                                        private int height = 40;
        RegisterController.java
                                 21
                                        // 验证码字符个数
      22
                                        private int codeCount = 5;
     > 🔠 com.dayup.seckil.exception
                                 23
                                        // 验证码干扰线数
     > 🌐 com.dayup.seckil.model
                                 24
                                        private int lineCount = 150;
      # com.dayup.seckil.repository
                                 25
                                        // 验证码

    # com.dayup.seckil.service

                                 26
                                        private String code = null;
        UserService.java
                                 27
                                        // 验证码图片Buffer
      # com.dayup.seckil.service.impl
                                 28
                                        private BufferedImage buffImg = null;
       > If UserServiceImpl.java
                                 29
     30
                                        // 验证码范围,去掉0(数字)和O(拼音)容易混淆的(小写的1和L也可以去掉,大写不用了)
       > I) MD5Util.iava
                                        ValidateCode.java
                                 31⊜
                                 32
     > 🇁 static
                                 33
     ∕ 📂 templates
                                 34
        error.html
                                 35∈
        home.html
                                 36
                                         * 默认构造函数,设置默认参数
        login.html
                                                                            Writable
                                                                                          Smart Insert 22 : 33
```

```
package com.dayup.seckil.util;
import java.awt.Color;
import java.awt.Font;
import java.awt.Graphics2D;
import java.awt.image.BufferedImage;
import java.io.FileOutputStream;
import java.io.IOException;
import java.io.OutputStream;
import java.util.Date;
import java.util.Random;
import javax.imageio.ImageIO;
public class ValidateCode {
     // 图片的宽度。
   private int width = 160;
   // 图片的高度。
   private int height = 40;
```

```
// 验证码字符个数
private int codeCount = 5;
// 验证码干扰线数
private int lineCount = 150;
// 验证码
private String code = null;
// 验证码图片Buffer
private BufferedImage buffImg = null;
// 验证码范围,去掉0(数字)和0(拼音)容易混淆的(小写的1和L也可以去掉,大写不用了)
private char[] codeSequence = {'A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'I', 'J',
      'K', 'L', 'M', 'N', 'P', 'Q', 'R', 'S', 'T', 'U', 'V', 'W',
       'X', 'Y', 'Z', '1', '2', '3', '4', '5', '6', '7', '8', '9'};
/**
 * 默认构造函数,设置默认参数
public ValidateCode() {
   this.createCode();
}
 * @param width 图片宽
* @param height 图片高
public ValidateCode(int width, int height) {
   this.width = width;
   this.height = height;
   this.createCode();
}
 * @param width
                  图片宽
 * @param height
                  图片高
 * @param codeCount 字符个数
 * @param lineCount 干扰线条数
public ValidateCode(int width, int height, int codeCount, int lineCount) {
   this.width = width;
   this.height = height;
   this.codeCount = codeCount;
   this.lineCount = lineCount;
   this.createCode();
}
public void createCode() {
   int x = 0, fontHeight = 0, codeY = 0;
```

```
int red = 0, green = 0, blue = 0;
      x = width / (codeCount + 2); //每个字符的宽度(左右各空出一个字符)
      fontHeight = height - 2;//字体的高度
      codeY = height - 4;
      // 图像buffer
      buffImg = new BufferedImage(width, height, BufferedImage.TYPE_INT_RGB);
      Graphics2D g = buffImg.createGraphics();
      // 生成随机数
      Random random = new Random();
      // 将图像填充为白色
      g.setColor(Color.WHITE);
      g.fillRect(0, 0, width, height);
      // 创建字体,可以修改为其它的
      Font font = new Font("Fixedsys", Font.PLAIN, fontHeight);
        Font font = new Font("Times New Roman", Font.ROMAN_BASELINE, fontHeight);
//
      g.setFont(font);
      for (int i = 0; i < lineCount; i++) {</pre>
          // 设置随机开始和结束坐标
          int xs = random.nextInt(width);//x坐标开始
          int ys = random.nextInt(height);//y坐标开始
          int xe = xs + random.nextInt(width / 8);//x坐标结束
          int ye = ys + random.nextInt(height / 8);//y坐标结束
          // 产生随机的颜色值, 让输出的每个干扰线的颜色值都将不同。
          red = random.nextInt(255);
          green = random.nextInt(255);
          blue = random.nextInt(255);
          g.setColor(new Color(red, green, blue));
          g.drawLine(xs, ys, xe, ye);
      }
      // randomCode记录随机产生的验证码
      StringBuffer randomCode = new StringBuffer();
      // 随机产生codeCount个字符的验证码。
      for (int i = 0; i < codeCount; i++) {</pre>
          String strRand = String.valueOf(codeSequence[random.nextInt(codeSequence.length)]);
          // 产生随机的颜色值, 让输出的每个字符的颜色值都将不同。
          red = random.nextInt(255);
          green = random.nextInt(255);
          blue = random.nextInt(255);
          g.setColor(new Color(red, green, blue));
          g.drawString(strRand, (i + 1) * x, codeY);
          // 将产生的四个随机数组合在一起。
          randomCode.append(strRand);
```

```
}
   // 将四位数字的验证码保存到Session中。
   code = randomCode.toString();
}
public void write(String path) throws IOException {
   OutputStream sos = new FileOutputStream(path);
   this.write(sos);
}
public void write(OutputStream sos) throws IOException {
   ImageIO.write(buffImg, "png", sos);
   sos.close();
}
public BufferedImage getBuffImg() {
   return buffImg;
}
public String getCode() {
   return code;
}
 * 测试函数,默认生成到d盘
 * @param args
public static void main(String[] args) {
   ValidateCode vCode = new ValidateCode(160,40,5,150);
   try {
       String path="E:/"+new Date().getTime()+".png";
       System.out.println(vCode.getCode()+" >"+path);
       vCode.write(path);
   } catch (IOException e) {
       e.printStackTrace();
   }
}
```

Step2.输出生成好的图片流

}

```
🥏 00javaSpace - Spring - seckil2/src/main/java/com/dayup/seckil/controller/LoginController.java - Spring Tool Suite
File Edit Source Refactor Navigate Search Project Run Window Help
Quick Access
                   ☐ LoginController.j... 💢 📑 login.html 📑 home.html 📝 UserService.java 📝 UserServiceImpl... 📝 UserRepositoryT... 📑 login.html
                                                                                                                    ☑ ValidateCode.java
      E 🕏 📴
                                                                                                                                            return "login";
                   63
 > 😂 java8
                   64
  KotlinDemo
                                                                                                                                            •
                   65
                           }
  i order-consumer
                                                                                                                                            P
                   66
  seckil [boot] [dev
                                                                                                                                            ఠ
 🗸 👺 seckil2 [boot] [de
                   67
                                                                                                                                            ₫ů
   * 响应验证码页面
                   68
                                                                                                                                            <u>.</u>
                            * @return
      # com.davup
                   69
                                                                                                                                            (it)
      # com.dayup
                    70
                                                                                                                                            @RequestMapping(value="/validateCode")
       L LoginCc
                           public String validateCode(HttpServletRequest request, HttpServletResponse response) throws Exception{
        从 Register
                               // 设置响应的类型格式为图片格式
       > 🚺 UserCor
                    74
                               response.setContentType("image/jpeg");
     > 🔠 com.dayup
                    75
                               //禁止图像缓存。
     > 🌐 com.dayup
                               response.setHeader("Pragma", "no-cache");
                    76
     > 🌐 com.dayup
                               response.setHeader("Cache-Control", "no-cache");
      # com.dayup
       > 🧗 UserSer
                    78
                               response.setDateHeader("Expires", 0);
     79
       > 🍱 UserSer
                    80
                               HttpSession session = request.getSession();
       > I) MD5Util
                               ValidateCode vCode = new ValidateCode(120,34,5,100);
                   82
       > J Validate
                               session.setAttribute("code", vCode.getCode());
   84
                               vCode.write(response.getOutputStream());
      🗁 static
                               return null;
     templates
                    86
         error.hti
                   87
         home.ht
         📓 login.htr 🗸
                   88
 <

    ₩ritable

                                                                                             Smart Insert 72:90
```

Step3.页面调用

Html 编写:

```
<div class="input-group">
     <span class="input-group-addon">验证码</span>
     <input type="text" id="code" name="code" class="form-control" style="width:250px;"/>
     <img id="imgObj" alt="验证码" src="/validateCode" class="img-responsive" onclick="changeImg()"/>
  </div>
脚本编写:
  // 刷新图片
   function changeImg() {
       var imgSrc = $("#imgObj");
       var src = imgSrc.attr("src");
       imgSrc.attr("src", changeUrl(src));
   }
   //为了使每次生成图片不一致,即不让浏览器读缓存,所以需要加上时间戳
   function changeUrl(url) {
       var timestamp = (new Date()).valueOf();
       var index = url.indexOf("?",url);
       if (index > 0) {
          url = url.substring(index, url.indexOf(url, "?"));
       }
       if ((url.indexOf("&") >= 0)) {
          url = url + "xtamp=" + timestamp;
       } else {
          url = url + "?timestamp=" + timestamp;
```

```
}
return url;
}
```

Step4. 在登陆时检查验证码是否正确:

```
💋 00javaSpace - Spring - seckil2/src/main/java/com/dayup/seckil/controller/LoginController.java - Spring Tool Suite
                                                                                                                                               Ø
File Edit Source Refactor Navigate Search Project Run Window Help
Quick Access
    🗓 LoginController.java 🗵 🗈 login.html 🔹 home.html 🔹 UserService.java 🗓 UserServicelmpl.java 📝 UserRepositoryTests.java 🗈 login.html 🗘 ValidateCode.java
     35
 1
                                                                                                                                                     36
                                                                                                                                                     =0
     37
             @RequestMapping(value = "/login", method = RequestMethod. POST)
public String login(@Valid User user, BindingResult bindingResult, HttpSession session,
     38⊝
     39
                                                                                                                                                     ի
                 Model model String code) {
if (bindingResult.hasErrors()) {
  return "login";
     40
                                                                                                                                                     ďů
     41
                                                                                                                                                     <u>.</u>
     42
     43
     44
                  String sessionCode = (String) session.getAttribute("code");
                  if (!StringUtils.equalsIgnoreCase(code, sessionCode)) { //忽略验证码大小写 model.addAttribute("message", "验证码不匹配");
     45
     46
                      return "login";
     47
     48
     49
     50
                  51
52
                  //用户是否存在
                  User temp = userService.getUser(user.getUsername());
                  //密码是否一致
     54
                  if(temp != null){
     55
                      String inputPassword = MD5Util.inputToDb(user.getPassword(), temp.getDbflag());
                      if(temp.getPassword().equals(inputPassword)){
                           //保存session
                          session.setAttribute("user", temp);
return "home";
     58
     59
                      }else{
                           return "login":
                                                                                    Writable
                                                                                                  Smart Insert 46 : 51
```

Step5.运行验证



源码参考

请从我们提供的码云上获取。

回马枪总结

NA

MMM. SHOWO. US,