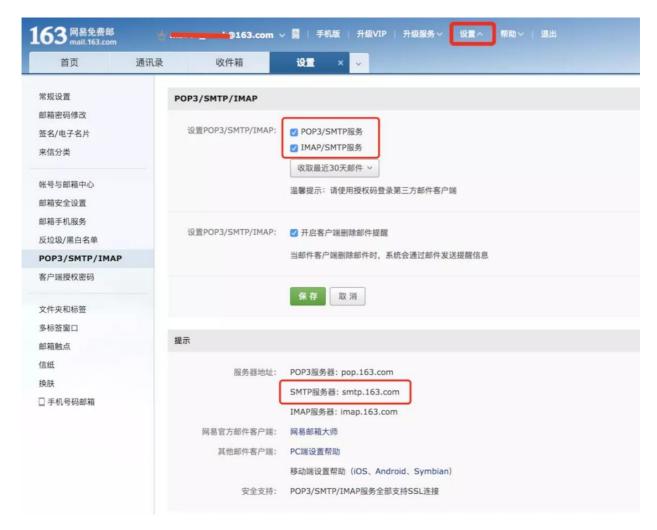
使用教程

一、开启邮件服务



二、配置邮件服务

通过 Spring Initializr 创建工程springboot-send-mail; 然后在pom.xml 引入web、thymeleaf 和spring-boot-starter-mail等相关依赖。

```
<groupId>org.webjars
       <artifactId>webjars-locator-core</artifactId>
   </dependency>
       <groupId>org.webjars
       <artifactId>jquery</artifactId>
       <version>3.3.1
   </dependency>
       <groupId>org.webjars
       <artifactId>bootstrap</artifactId>
       <version>3.3.7
   </dependency>
       <groupId>org.springframework.boot
       <artifactId>spring-boot-devtools</artifactId>
       <scope>runtime</scope>
   </dependency>
       <groupId>org.springframework.boot
       <artifactId>spring-boot-starter-test</artifactId>
       <scope>test</scope>
   </dependency>
</dependencies>
```

根据前面提到的配置项(MailProperties)填写相关配置信息,其中spring.mail.username 表示连接邮件服务器时认证的登陆账号,可以是普通的手机号或者登陆账号,并非一定是邮箱,为了解决这个问题,推荐大家在spring.mail. properties.from填写邮件发信人即真实邮箱。

然后在application.yml添加如下配置:

```
spring:
mail:
host: smtp.163.com #SMTP服务器地址
username: socks #登陆账号
password: 123456 #登陆密码(或授权码)
properties:
    from: socks@163.com #邮件发信人(即真实邮箱)
thymeleaf:
    cache: false
    prefix: classpath:/views/
servlet:
    multipart:
    max-file-size: 10MB #限制单个文件大小
    max-request-size: 50MB #限制请求总量
```

在发送邮件前,需要先构建 SimpleMailMessage或 MimeMessage 邮件信息类来填写邮件标题、邮件内容等信息,最后提交给JavaMailSenderImpl发送邮件,这样看起来没什么问题,也能实现既定

邮件信息类(MailVo) 来保存发送邮件时的邮件主题、邮件内容等信息

```
public class MailVo {
   private String id;
   private String from;
   private String to;
   private String subject;
   private String text;
   private Date sentDate;
   private String cc;
   private String bcc;
   private String status;
   private String error;
    private MultipartFile[] multipartFiles;
```

三、发送邮件和附件

除了发送邮件之外,还包括检测邮件和保存邮件等操作

- 检测邮件 checkMail(); 首先校验邮件收信人、邮件主题和邮件内容这些必填项,若为空则拒绝发送。
- 发送邮件 sendMimeMail(); 其次通过MimeMessageHelper来解析MailVo并构建MimeMessage 传输邮件。
- 保存邮件 sendMimeMail(); 最后将邮件保存到数据库,便于统计和追查邮件问题。

MailService服务类

```
package com.legend.springboot.service;
import com.legend.springboot.vo.MailVo;
import org.apache.commons.lang3.StringUtils;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.mail.javamail.JavaMailSenderImpl;
import org.springframework.mail.javamail.MimeMessageHelper;
import org.springframework.stereotype.Service;
import org.springframework.web.multipart.MultipartFile;
import javax.mail.MessagingException;
public class MailService {
   private Logger logger = LoggerFactory.getLogger(getClass());
   private JavaMailSenderImpl mailSender;
```

```
public MailVo sendMail(MailVo mailVo) {
           checkMail(mailVo);
           sendMimeMail(mailVo);
           return saveMail(mailVo);
       } catch (Exception e) {
           logger.error("发送邮件失败:", e);
           mailVo.setStatus("fail");
           mailVo.setError(e.getMessage());
           return mailVo;
   private void checkMail(MailVo mailVo) {
       if (StringUtils.isEmpty(mailVo.getTo())) {
           throw new RuntimeException("邮件收信人不能为空");
       if (StringUtils.isEmpty(mailVo.getSubject())) {
           throw new RuntimeException("邮件主题不能为空");
       if (StringUtils.isEmpty(mailVo.getText())) {
           throw new RuntimeException("邮件内容不能为空");
   private void sendMimeMail(MailVo mailVo) {
           MimeMessageHelper messageHelper = new MimeMessageHelper(mailS
ender.createMimeMessage(), true);
           mailVo.setFrom(getMailSendFrom());
           messageHelper.setFrom(mailVo.getFrom());
           messageHelper.setFrom(mailVo.getFrom());
           messageHelper.setTo(mailVo.getTo().split(","));
```

```
messageHelper.setSubject(mailVo.getSubject());
            messageHelper.setText(mailVo.getText());
            if (!StringUtils.isEmpty(mailVo.getCc())) {
                messageHelper.setCc(mailVo.getCc().split(","));
            }
            if (!StringUtils.isEmpty(mailVo.getBcc())) {
                messageHelper.setCc(mailVo.getBcc().split(","));
            if (mailVo.getMultipartFiles() != null) {
                for (MultipartFile multipartFile : mailVo.getMultipartFil
es()) {
                    messageHelper.addAttachment(multipartFile.getOriginal
Filename(), multipartFile);
            mailSender.send(messageHelper.getMimeMessage());
            mailVo.setStatus("ok");
            logger.info("发送邮件成功: {}->{}", mailVo.getFrom(), mailVo.get
To());
        } catch (MessagingException e) {
            throw new RuntimeException(e);
    private MailVo saveMail(MailVo mailVo) {
       return mailVo;
```

```
public String getMailSendFrom() {
    return mailSender.getJavaMailProperties().getProperty("from");
}
}
```

MainController控制器

```
package com.legend.springboot.controller;
import com.legend.springboot.service.MailService;
import com.legend.springboot.vo.MailVo;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RestController;
import org.springframework.web.multipart.MultipartFile;
import org.springframework.web.servlet.ModelAndView;
public class MailController {
   private final MailService mailService;
   public MailController(MailService mailService) {
        this.mailService = mailService;
    public ModelAndView index() {
        ModelAndView mv = new ModelAndView("sendMail");
        mv.addObject("from", mailService.getMailSendFrom());
       return mv;
```

```
public MailVo sendMail(MailVo mailVo, MultipartFile[] files) {
    mailVo.setMultipartFiles(files);
    //发送邮件和附件
    return mailService.sendMail(mailVo);
}
```

然后在/resources/templates 目录新建sendMail.html,

```
<html xmlns:th="http://www.thymeleaf.org">
   <meta charset="UTF-8"/>
    <title>发送邮件</title>
    <\link th:href="@{/webjars/bootstrap/css/bootstrap.min.css}" rel="styl</pre>
esheet" type="text/css"/>
    <script th:src="@{/webjars/jquery/jquery.min.js}"></script>
    <script th:href="@{/webjars/bootstrap/js/bootstrap.min.js}"></script>
</head>
<div class="col-md-6" style="margin:20px;padding:20px;border: #E0E0E0 1px</pre>
solid;">
    <marquee behavior="alternate" onfinish="alert(12)" id="mq"</pre>
             onMouseOut="this.start();$('#egg').text('嗯 真听话!');"
             onMouseOver="this.stop();$('#egg').text('有本事放开我呀!');">
        <h5 id="egg">祝大家新年快乐! </h5><img id="doge" src="http://pics.s
c.chinaz.com/Files/pic/faces/3709/7.gif" alt="">
    </marquee>
    <form class="form-horizontal" id="mailForm">
        <div class="form-group">
            <label class="col-md-2 control-label">邮件发信人:</label>
            <div class="col-md-6">
                <input class="form-control" id="from" name="from" th:valu</pre>
e="${from}" readonly="readonly">
            </div>
        </div>
        <div class="form-group">
            <label class="col-md-2 control-label">邮件收信人:</label>
            <div class="col-md-6">
                <input class="form-control" id="to" name="to" title="多个</pre>
邮箱使用,隔开">
            </div>
        </div>
        <div class="form-group">
            <label class="col-md-2 control-label">邮件主题:</label>
            <div class="col-md-6">
```

```
<input class="form-control" id="subject" name="subject">
            </div>
        </div>
        <div class="form-group">
            <label class="col-md-2 control-label">邮件内容:</label>
            <div class="col-md-6">
                <textarea class="form-control" id="text" name="text"</pre>
rows="5"></textarea>
            </div>
        </div>
        <div class="form-group">
            <label class="col-md-2 control-label">邮件附件:</label>
            <div class="col-md-6">
                <input class="form-control" id="files" name="files"</pre>
type="file" multiple="multiple">
            </div>
        </div>
        <div class="form-group">
            <label class="col-md-2 control-label">邮件操作:</label>
            <div class="col-md-3">
                <a class="form-control btn btn-primary" onclick="sendMail</pre>
()">发送邮件</a>
            </div>
            <div class="col-md-3">
               <a class="form-control btn btn-default" onclick="clearFor"</pre>
m()">清空</a>
            </div>
        </div>
    </form>
    <script th:inline="javascript">
        var appCtx = [[${#request.getContextPath()}]];
        function sendMail() {
            var formData = new FormData($('#mailForm')[0]);
            $.ajax({
                url: appCtx + '/mail/send',
                type: "POST",
                data: formData,
                contentType: false,
                processData: false,
                success: function (result) {
                    alert(result.status === 'ok' ? "发送成功!": "你被Doge
嘲讽了: " + result.error);
                },
                error: function () {
                    alert("发送失败!");
            });
```

四、测试发送邮件

启动工程并访问: http://localhost:8080



test 🕁

发件人: **legend** <737795279@qq.com> 国 时间: 2019年11月25日(星期一) 晚上8:41 收件人: 1985862790 <1985862790@qq.com> 附件: 1个(<u>ctcmime.1168.1298.1299.bin</u>)

dddddd



普通附件



tcmime.1168.1298.1299.bin (1字节)

预览 下载 收藏 转存▼

快捷回复给: legend

五、常见失败编码

553

- 553 Requested action not taken: NULL sender is not allowed 不允许发件人为空,请使用真实 发件人发送;
- 553 Requested action not taken: Local user only SMTP类型的机器只允许发信人是本站用户;
- 553 Requested action not taken: no smtp MX only MX类型的机器不允许发信人是本站用户;
- 553 authentication is required SMTP需要身份验证,请检查客户端设置;

552

- 552 Illegal Attachment 不允许发送该类型的附件,包括以.uu .pif .scr .mim .hqx .bhx .cmd .vbs .bat .com .vbe .vb .js .wsh等结尾的附件;
- 552 Requested mail action aborted: exceeded mailsize limit 发送的信件大小超过了网易邮箱 允许接收的最大限制;

554

- 554 DT:SPM 发送的邮件内容包含了未被许可的信息,或被系统识别为垃圾邮件。请检查是否有用户发送病毒或者垃圾邮件;
- 554 DT:SUM 信封发件人和信头发件人不匹配;
 554 IP is rejected, smtp auth error limit exceed 该IP验证失败次数过多,被临时禁止连接。请检查验证信息设置;

- 554 HL:IHU 发信IP因发送垃圾邮件或存在异常的连接行为,被暂时挂起。请检测发信IP在历史上的发信情况和发信程序是否存在异常;
- 554 HL:IPB 该IP不在网易允许的发送地址列表里;
- 554 MI:STC 发件人当天内累计邮件数量超过限制,当天不再接受该发件人的投信。请降低发信频率;
- 554 MI:SPB 此用户不在网易允许的发信用户列表里;
- 554 IP in blacklist 该IP不在网易允许的发送地址列表里。