**使用微信框架开发微信公众号**

微信授权绑定账号&推送模板消息

# 使用公众号测试平台开发

https://mp.weixin.qq.com/debug/cgi-bin/sandboxinfo?action=showinfo&t=sandbox/index

# [weixin-java-tools](https://github.com/Wechat-Group/weixin-java-tools)

https://github.com/wechat-group/weixin-java-tools

# 微信框架介绍

### maven依赖

|  |
| --- |
| **<dependency>**  **<groupId>com.thoughtworks.xstream</groupId>**  **<artifactId>xstream</artifactId>**  **<version>1.4.10</version>**  **</dependency>**  **<dependency>**  **<groupId>com.github.binarywang</groupId>**  **<artifactId>weixin-java-mp</artifactId>**  **<version>2.8.0</version>**  **</dependency>** |

### 配置文件

|  |
| --- |
| **logging:**  **level:**  **org.springframework.web: DEBUG**  **com.github.binarywang.demo.wechat: DEBUG**  **wechat:**  **mp:**  **appId: wx5c43fde3c9733d9e**  **secret: b8b217126c33a5fb7074927d5e72a81a**  **token: itmayiedu**  **aesKey:** |

# 微信环境搭建

### 服务器通知验签

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| --- |
| **@Slf4j**  **@RestController**  **@RequestMapping("/weixin/dispatcherServlet")**  **public class WeiXinDispatcherServlet {**  **@Autowired**  **private WxMpService wxService;**  **@Autowired**  **private WxMpMessageRouter router;**  **/\*\***  **\* 时间通知验证**  **\***  **\* @param signature**  **\* @param timestamp**  **\* @param nonce**  **\* @param echostr**  **\* @return**  **\*/**  **@GetMapping(produces = "text/plain;charset=utf-8")**  **public String authGet(@RequestParam(name = "signature", required = false) String signature,**  **@RequestParam(name = "timestamp", required = false) String timestamp,**  **@RequestParam(name = "nonce", required = false) String nonce,**  **@RequestParam(name = "echostr", required = false) String echostr) {**  **this.*log*.info("\n接收到来自微信服务器的认证消息：[{}, {}, {}, {}]", signature, timestamp, nonce, echostr);**  **if (StringUtils.*isAnyBlank*(signature, timestamp, nonce, echostr)) {**  **throw new IllegalArgumentException("请求参数非法，请核实!");**  **}**  **if (this.wxService.checkSignature(timestamp, nonce, signature)) {**  **return echostr;**  **}**  **return "非法请求";**  **}**  **private WxMpXmlOutMessage route(WxMpXmlMessage message) {**  **try {**  **return this.router.route(message);**  **} catch (Exception e) {**  **this.*log*.error(e.getMessage(), e);**  **}**  **return null;**  **}**  **}** |

### QQ授权登录和微信框架jar冲突怎么解决

在不同jar中，有相同的包名和类怎么解决冲突问题

①使用继承方式

②使用java反编译修改源码

# 微信绑定账户&推送用户

步骤:

1. 微信授权成功后,获取授权用户openId,保存在数据库中
2. 用户下单支付成功后，查找对应用户openid,调用消息服务平台进行推送微信消息
3. 消息服务平台调用微信接口,进行推送消息

## 会员服务接口

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### Controller

|  |
| --- |
| **/\*\***  **\***  **\* @methodDesc: 功能描述:(使用openid查找用户信息)**  **\* @param: @param**  **\* token**  **\* @param: @return**  **\*/**  **@PostMapping("/findWeiXinOpenId")**  **public Map<String, Object> findWeiXinOpenId(@RequestParam("openid") String openid);**  **/\*\***  **\***  **\* @methodDesc: 功能描述:(使用token查找用户信息)**  **\* @param: @param**  **\* token**  **\* @param: @return**  **\*/**  **@PostMapping("/getUserId")**  **public Map<String, Object> getUserId(@RequestParam("userId") Long userId);** |

### Service

|  |
| --- |
| **@Override**  **public Map<String, Object> findWeiXinOpenId(String openid) {**  **UserEntity userEntity = userDao.findWeiXinOpenId(openid);**  **if (userEntity == null) {**  **return setResutError("没有查找到该信息.");**  **}**  **// 自动登录**  **String token = setLoginToken(userEntity.getId());**  **return setResutSuccessData(token);**  **}**  **@Override**  **public Map<String, Object> getUserId(Long userId) {**  **UserEntity userInfo = userDao.getUserInfo(userId);**  **if (userInfo == null) {**  **return setResutError("没有查找到该信息.");**  **}**  **return setResutSuccessData(userInfo);**  **}** |

### Dao

|  |
| --- |
| **@Mapper**  **public interface UserDao extends BaseDao {**  **@Select("select ID,USERNAME,PASSWORD,phone,EMAIL, created,updated from mb\_user WHERE PHONE=#{phone} and password=#{password}")**  **public UserEntity getUserPhoneAndPwd(@Param("phone") String userName, @Param("password") String password);**  **@Select("select ID,USERNAME,PASSWORD,phone,EMAIL, created,updated,openId,weixinOpenId from mb\_user WHERE id=#{id}")**  **public UserEntity getUserInfo(@Param("id") Long id);**  **@Select("select ID,USERNAME,PASSWORD,phone,EMAIL, created,updated ,openId,weixinOpenId from mb\_user WHERE openid=#{openid}")**  **public UserEntity findOpenId(@Param("openid") String openid);**  **@Select("select ID,USERNAME,PASSWORD,phone,EMAIL, created,updated ,openId,weixinOpenId from mb\_user WHERE weixinOpenId=#{openid}")**  **public UserEntity findWeiXinOpenId(@Param("openid") String openid);**  **}** |

## Web系统系统

数据库中 新增weixinopenid字段

### 创建com.itmayiedu.weixin.controller包名

|  |
| --- |
| **@Controller**  **public class WeChatController {**  **private static final String *ERROR* = "error";**  **private static final String *INDEX* = "index";**  **private static final String *ASSOCIATEDACCOUNT* = "associatedAccount";**  **@Autowired**  **private WxMpService wxService;**  **@Autowired**  **private UserFeign userFeign;**  **/\*\***  **\* 微信授权回调**  **\***  **\* @return**  **\* @throws WxErrorException**  **\*/**  **@RequestMapping("/weixinCallback")**  **public String callback(String code, HttpSession httpSession, HttpServletResponse response) throws WxErrorException {**  **// 第二步：通过code换取网页授权access\_token**  **WxMpOAuth2AccessToken oauth2getAccessToken = wxService.oauth2getAccessToken(code);**  **WxMpUser oauth2getUserInfo = wxService.oauth2getUserInfo(oauth2getAccessToken, "zh\_CN");**  **c**  **}**  **}** |

## 创建微信服务

项目名称Itmayiedu-Shopp-Weixin-Api

### WeiXinServiceImpl

|  |
| --- |
| **@Slf4j**  **@RequestMapping("/weiXin")**  **@RestController**  **public class WeiXinServiceImpl implements WeiXinService {**  **@Autowired**  **private WxMpService wxService;**  **@RequestMapping("/sendTemplate")**  **public String sendTemplate(@RequestBody WxMpTemplateMessage wxMpTemplateMessage) {**  **WxMpTemplateMsgService templateMsgService = wxService.getTemplateMsgService();**  **try {**  **return templateMsgService.sendTemplateMsg(wxMpTemplateMessage);**  **} catch (Exception e) {**  ***log*.error("WeiXinServiceImpl### ERROR:", e);**  **return null;**  **}**  **}**  **}** |

### 推送报文

|  |
| --- |
| {  "toUser": "okYSmtzp4wWCrDCncMfGSRECVSeM",  "templateId": "BHK-47yEvBqHMU-diEIbAQCCuC8H3lsAv-J5rrwyyTc",  "url": "http://www.itmayiedu.com",  "data": [  {  "name": "first",  "value": "2017年11月06日 23:32",  "color": "#173177"  },  {  "name": "keyword1",  "value": "30",  "color": "#173177"  },  {  "name": "keyword2",  "value": "201410515111522",  "color": "#173177"  }  ]  } |

## 支付回调改造

|  |
| --- |
| // mq推送支付成功消息  Double price = (**double**) (paymentInfo.getPrice() / 100);  String mqWeiXinJson = weixinMessage(paymentInfo.getUserId(), paymentInfo.getOrderId(), price);  // 队列  Destination activeMQQueue = **new** ActiveMQQueue(MESSAGES\_QUEUE);  ***log***.info("###asyn() 支付发微信推送报文mqWeiXinJson:{}", mqWeiXinJson);  // mq  registerMailboxProducer.send(activeMQQueue, mqWeiXinJson); |

### RegisterMailboxProducer

|  |
| --- |
| **@Service("registerMailboxProducer")**  **public class RegisterMailboxProducer {**  **@Autowired**  **private JmsMessagingTemplate jmsMessagingTemplate ;**    **public void send(Destination destination,String json){**  **jmsMessagingTemplate.convertAndSend(destination, json);**  **}**  **}** |

### 配置信息

|  |
| --- |
| **##activemq连接信息**  **activemq:**  **broker-url: tcp://localhost:61616**  **in-memory: true**  **pool:**  **enabled: false**  **##队列**  **messages:**  **queue: mail\_queue** |

## 消息中间件

|  |
| --- |
| **@Slf4j**  **@Service**  **public class WeiXinMQService implements MessageAdapter {**  **@Autowired**  **private UserFeign userFeign;**  **@Autowired**  **private WeiXinFeign weiXinFeign;**  **@Override**  **public void distribute(JSONObject jsonObject) {**  **Long userId = jsonObject.getLong("userId");**  **Map<String, Object> resultMap = userFeign.getUserId(userId);**  **Integer code = (Integer) resultMap.get(BaseApiConstants.*HTTP\_CODE\_NAME*);**  **if (code.equals(BaseApiConstants.*HTTP\_200\_CODE*)) {**  **Map<String, Object> mapItem = (Map<String, Object>) resultMap.get("data");**  **String json = new JSONObject().*toJSONString*(mapItem);**  **UserEntity userEntity = new JSONObject().*parseObject*(json, UserEntity.class);**  **String weixinOpenId = userEntity.getWeixinOpenId();**  **if (StringUtils.*isEmpty*(weixinOpenId)) {**  ***log*.error("distribute() weixinOpenId is null ");**  **return;**  **}**  **// 调用微信接口**  **WxMpTemplateMessage wxMpTemplateMessage = new WxMpTemplateMessage();**  **wxMpTemplateMessage.setToUser(weixinOpenId);**  **wxMpTemplateMessage.setUrl("http://www.itmayiedu");**  **wxMpTemplateMessage.setTemplateId("BHK-47yEvBqHMU-diEIbAQCCuC8H3lsAv-J5rrwyyTc");**  **List<WxMpTemplateData> data = new ArrayList<>();**  **// 设置时间**  **WxMpTemplateData wxMpTemplateData1 = new WxMpTemplateData();**  **wxMpTemplateData1.setName("first");**  **wxMpTemplateData1.setValue(DateUtils.*currentFormatDate*(DateUtils.*DATE\_TO\_STRING\_DETAIAL\_PATTERN*));**  **wxMpTemplateData1.setColor("#173177");**  **// 时间价格**  **WxMpTemplateData wxMpTemplateData2 = new WxMpTemplateData();**  **wxMpTemplateData2.setName("keyword1");**  **Double price = jsonObject.getDouble("price");**  **wxMpTemplateData2.setValue(price + "");**  **wxMpTemplateData2.setColor("#173177");**  **// 设置订单号**  **WxMpTemplateData wxMpTemplateData3 = new WxMpTemplateData();**  **wxMpTemplateData3.setName("keyword2");**  **String orderId = jsonObject.getString("orderId");**  **wxMpTemplateData3.setValue(orderId);**  **wxMpTemplateData3.setColor("#173177");**  **data.add(wxMpTemplateData1);**  **data.add(wxMpTemplateData2);**  **data.add(wxMpTemplateData3);**  **wxMpTemplateMessage.setData(data);**  **weiXinFeign.sendTemplate(wxMpTemplateMessage);**  **}**  **}**  **}** |

# 常用接口

## 网页授权

**https://open.weixin.qq.com/connect/oauth2/authorize?appid=wx5c43fde3c9733d9e&redirect\_uri=http%3a%2f%2fyushengjun.tunnel.qydev.com%2fdispatCherServlet&response\_type=code&scope=snsapi\_userinfo&state=STATE#wechat\_redirect**

## 获取用户access\_token接口

**https://api.weixin.qq.com/cgi-bin/token?grant\_type=client\_credential&appid=APPID&secret=APPSECRET**

## 获取用户信息接口

**https://api.weixin.qq.com/cgi-bin/user/get?access\_token=ACCESS\_TOKEN&next\_openid=NEXT\_OPENID**

## 创建消息模板接口

[**https://api.weixin.qq.com/cgi-bin/message/template/send?access\_token=euQvaT-6C7nMkttXxtzqA9r3yp0MX--ME7-37EbNsA9rVKgzhLvLgVgJIEw2fIJk0W84ShQcLEYUfgsSpgXpwk\_6ABiuVfAh5CeN7UF\_oAELCmWc0cMy2qsBZI8Ul6orNWIjAEAGPB**](https://api.weixin.qq.com/cgi-bin/message/template/send?access_token=euQvaT-6C7nMkttXxtzqA9r3yp0MX--ME7-37EbNsA9rVKgzhLvLgVgJIEw2fIJk0W84ShQcLEYUfgsSpgXpwk_6ABiuVfAh5CeN7UF_oAELCmWc0cMy2qsBZI8Ul6orNWIjAEAGPB)

|  |
| --- |
| {  "touser": "okYSmtzp4wWCrDCncMfGSRECVSeM",  "template\_id": "BHK-47yEvBqHMU-diEIbAQCCuC8H3lsAv-J5rrwyyTc",  "url": "http://www.itmayiedu.com",  "topcolor": "#FF0000",  "data": {  "first": {  "value": "2017年11月06日 23:32",  "color": "#173177"  },  "keyword1": {  "value": "30",  "color": "#173177"  },  "keyword2": {  "value": "201410515111522",  "color": "#173177"  }  }  } |