微信公众号支付H5调用详解(附代码)

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最近开发的微信公众号需要开启公众号支付功能,经过几天时间的开发,终于搞 定了,在这里记录一下开发流程,也给需要的朋友提供一点点帮助。

前面的公众号设置我就不多说了,直接进入代码开发。

1、在微信公众号支付的开发文档中,H5调起支付API页面有说明,需要在微信浏览器的内置对象 WeixinJSBridge中调用getBrandWCPayRequest方法,该方法需要的参数为:

公众号id	appld	是	String(16)	wx888888888888888888888888888888888888	商户注册具有支付权限的公众号 成功后即可获得
时间戳	timeStamp	是	String(32)	1414561699	当前的时间,其 他详见 <u>时间戳规</u> 则
随机字符串	nonceStr	是	String(32)	5K8264ILTKCH16CQ2502SI8ZNMTM67VS	随机字符串,不 长于32位。推荐 随机数生成算法
订单详情扩 展字符串	package	是	String(128)	prepay_id=123456789	统一下单接口返 回的prepay_id参 数值,提交格式 如: prepay_id=***
签名方式	signType	是	String(32)	MD5	签名算法,暂支 持MD5
签名	paySign	是	String(64)	C380BEC2BFD727A4B6845133519F3AD6	签名,详见 <u>签名</u> 生成算法

因此在调用支付API之前必须准备好上述6个参数。公众号id,时间戳,随机字符串和签名方式都 好说,下面介绍如何获取订单详情扩展字符串和签名。

2、获取订单详情扩展字符串

获取订单详情扩展字符串其实就是要获取prepay_id,在微信公众号支付的开发文档的API列表-> 统一下单页面有获取prepay_id的参数列表,如下为获取prepay_id的方法:

/**

- * 获取prepay_id
- * @return AccessToken
- * @author ****
- * @date 2015.10.12

*/

@SuppressWarnings("null")

public static String getPrepayId(String userid, String addrip)

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阅读数:18085

```
{
//公众账号ID
String appid = Config.APPID;
//商户号
String mch_id = "*******;
//设备号
String device_info = "WEB";
//随机字符串
String nonce_str = String.valueOf(Math.random());
//商品描述
String body = "1yuanmiaosha";
//商品详情
String detail = "miaosha";
//附加数据
String attach = "detail";
//商户订单号
String out_trade_no = "**************;
//货币类型
String fee_type = "CNY";
//总金额
int total_fee = 1;
//终端IP
String spbill_create_ip = addrip;
//交易起始时间(供测试用)
String time_start = DateUtil.getNowTime().replace("-", "").replace(" ", "").replace(":", "");
//交易结束时间(供测试用)
String time_expire = String.valueOf(Long.valueOf(time_start)+(long)320);
//商品标记(供测试用)
String goods_tag = "****";
//通知地址(供测试用)
String notify_url ="http://www.baidu.com";
//交易类型
String trade_type = "JSAPI";
//商品ID(供测试用)
String product_id = "12235413214070356458058";
//指定支付方式
String limit_pay = "no_credit";
```

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```
//用户标识
       String openid = userid;
       //签名(最后获取)
       String []array = {"appid=".concat(appid), "mch id=".concat(mch id),
       "device_info=".concat(device_info),
       "nonce str=".concat(nonce str), "body=".concat(body), "detail=".concat(detail),
       "attach=".concat(attach), "out_trade_no=".concat(out_trade_no), "fee_type=".concat(fee_type),
       "total_fee=".concat(String.valueOf(total_fee)),
       "spbill_create_ip=".concat(spbill_create_ip), "time_start=".concat(time_start),
       "time_expire=".concat(time_expire),
       "goods tag=".concat(goods tag), "notify url=".concat(notify url),
       "trade_type=".concat(trade_type),
       "product_id=".concat(product_id), "limit_pay=".concat(limit_pay), "openid=".concat(openid)};
       //对数组进行字典排序
       SignUtil.sort(array);
       //组合成stringA
       String stringA = new String();
       String stringSignTemp = new String();
       String sign = new String();
       String xmlStr = new String();
       String prepay_id = new String();
       String key = "*****************************
       for(int i = 0; i < array.length; i++)
       stringA = stringA.concat(array[i].concat("&"));
       stringSignTemp = stringA.concat("key=").concat(key);
       //对stringSignTemp进行MD5加密
       MySecurity mySecurity = new MySecurity();
       sign = mySecurity.encode(stringSignTemp, "MD5");
       //将sign所有的字母换成大写 得到sign
       sign = sign.toUpperCase();
       System.out.println("sign 为"+sign);
       Map<String, String> paraMap = new HashMap<String, String>();
       paraMap.put("appid", appid);
       paraMap.put("attach", attach);
       paraMap.put("body", body);
https://www.paraMap.put("detail", detail);
```

```
paraMap.put("device_info", device_info);
        paraMap.put("fee_type", fee_type);
        paraMap.put("goods_tag", goods_tag);
        paraMap.put("limit_pay", limit_pay);
        paraMap.put("mch_id", mch_id);
        paraMap.put("nonce str", nonce str);
        paraMap.put("notify_url", notify_url);
       paraMap.put("openid", openid);
        paraMap.put("out_trade_no", out_trade_no);
        paraMap.put("product_id", product_id);
        paraMap.put("spbill_create ip", spbill_create ip);
        paraMap.put("time_expire", time_expire);
        paraMap.put("time_start", time_start);
        paraMap.put("total_fee", String.valueOf(total_fee));
        paraMap.put("trade_type", trade_type);
        paraMap.put("sign", sign);
        String requestUrl = "https://api.mch.weixin.qq.com/pay/unifiedorder";
        String xml = ArrayToXml(paraMap);
        //System.out.println(" xml 为"+ xml);
        xmlStr = HttpUtil.sendHttpsPOST(requestUrl, xml);
        //转换编码格式
        String start = "repay id><![CDATA[";</pre>
        String end = "]]></prepay_id>";
        prepay_id = xmlStr.substring(xmlStr.indexOf(start)+start.length(), xmlStr.indexOf(end));
        return prepay_id;
        }
        //用于字典排序
          public static void sort(String a[]) {
            for (int i = 0; i < a.length - 1; i++) {
               for (int j = i + 1; j < a.length; j++) {
                  if (a[i].compareTo(a[i]) < 0) {
                    String temp = a[i];
                    a[i] = a[j];
                    a[j] = temp;
                 }
               }
            }
          }
        public String encode(String strSrc, String encodeType) {
        MessageDigest md = null;
        String strDes = null;
        byte[] bt = strSrc.getBytes();
        if (encodeType == null || "".equals(encodeType))
        encodeType = MD5;//默认使用MD5
        md = MessageDigest.getInstance(encodeType);
md.update(bt);
```

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```
strDes = bytes2Hex(md.digest());
} catch (NoSuchAlgorithmException e) {
return strSrc;
}
return strDes;
}
/**
* map转成xml
* @param arr
* @return
public static String ArrayToXml(Map < String > arr) {
String xml = "<xml>";
Iterator<Entry<String, String>> iter = arr.entrySet().iterator();
while (iter.hasNext()) {
Entry < String > entry = iter.next();
String key = entry.getKey();
String val = entry.getValue();
xmI += "<" + key + ">" + vaI + "</" + key + ">";
}
xml += "</xml>";
return xml;
}
public static String sendHttpsPOST(String url, String data) {
String result = null;
try {
// 设置SSLContext
SSLContext sslcontext = SSLContext.getInstance("TLS");
sslcontext.init(null, new TrustManager[] { myX509TrustManager },
null);
// 打开连接
// 要发送的POST请求url?Key=Value&Key2=Value2&Key3=Value3的形式
URL requestUrl = new URL(url);
HttpsURLConnection httpsConn = (HttpsURLConnection) requestUrl
.openConnection();
// 设置套接工厂
httpsConn.setSSLSocketFactory(sslcontext.getSocketFactory());
```

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```
// 加入数据
httpsConn.setRequestMethod("POST");
httpsConn.setDoOutput(true);
OutputStream out = httpsConn.getOutputStream();
if (data != null)
out.write(data.getBytes("UTF-8"));
out.flush();
out.close();
// 获取输入流
BufferedReader in = new BufferedReader(new InputStreamReader(
httpsConn.getInputStream()));
int code = httpsConn.getResponseCode();
if (HttpsURLConnection.HTTP_OK == code) {
String temp = in.readLine();
/* 连接成一个字符串 */
while (temp != null) {
if (result != null)
result += temp;
else
result = temp;
temp = in.readLine();
}
} catch (KeyManagementException e) {
e.printStackTrace();
} catch (NoSuchAlgorithmException e) {
e.printStackTrace();
} catch (MalformedURLException e) {
e.printStackTrace();
} catch (ProtocolException e) {
e.printStackTrace();
} catch (IOException e) {
e.printStackTrace();
}
return result;
}
至此已经获取到了prepay_id参数。
3、获取appld、timeStamp、nonceStr、package、signType、paySign参数传至JS页面
/**
* 获取appld、timeStamp、nonceStr、package、signType、paySign
* @param userinfo
* @return string
```

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```
*/
public String getParameter()
BrandWCPayParameter brandWCPayParameter = new BrandWCPayParameter();
String key = "************************
//从页面将用户openid传入
String userid = this.getRequest().getParameter("userid");
String addrip = this.getRequest().getParameter("addrip");
//appld
String appld = Config.APPID;
//timeStamp
String timeStamp = String.valueOf(System.currentTimeMillis()/1000);
//nonceStr随机字符串
String nonceStr=String.valueOf(Math.random());
String signType = "MD5";
//package订单详情扩展字符串 prepay_id
String prepay_id = new String();
prepay_id = HttpUtil.getPrepayId(userid,addrip);
String packAge = "prepay_id=" + prepay_id;
//获取签名
String []array = {"appId=".concat(appId), "timeStamp=".concat(timeStamp),
"nonceStr=".concat(nonceStr),
"package=".concat(packAge), "signType=".concat(signType)};
SignUtil.sort(array);
//组合成stringA
String stringA = new String();
String stringSignTemp = new String();
String paySign = new String();
for(int i = 0; i < array.length; i++)
stringA = stringA.concat(array[i].concat("&"));
stringSignTemp = stringA.concat("key=").concat(key);
MySecurity mySecurity = new MySecurity();
paySign = mySecurity.encode(stringSignTemp, "MD5");
```

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```
//将sign所有的字母换成大写 得到sign
paySign = paySign.toUpperCase();
brandWCPayParameter.setAppId(appId);
brandWCPayParameter.setNonceStr(nonceStr);
brandWCPayParameter.setPackAge(packAge);
brandWCPayParameter.setPaySign(paySign);
brandWCPayParameter.setSignType(signType);
brandWCPayParameter.setTimeStamp(timeStamp);
List < BrandWCPayParameter > list = new ArrayList < BrandWCPayParameter > ();
list.add(brandWCPayParameter);
JsonConfig jsonConfig = JsonUtil.configJson("yyyy-MM-dd HH:mm:ss");
JSONArray json = JSONArray.fromObject(list, jsonConfig);
this.showjsondata(json.toString());
return null;
}
4、页面调用H5支付API
function onBridgeReady(){
//获取appld、timeStamp、nonceStr、package、signType、paySign
var addrip = "<%=addrip%>";
var userid = "<%=user%>";
var appld;
var timeStamp;
var nonceStr;
var signType;
var packAge;
var paySign;
$.post('/weixin/cj/Cjaction!getParameter.action',{addrip:addrip,userid:userid},function(data)
{
var brandWCPayParameter = data[0];
appld = brandWCPayParameter.appld;
timeStamp = brandWCPayParameter.timeStamp;
nonceStr = brandWCPayParameter.nonceStr;
signType = brandWCPayParameter.signType;
packAge = brandWCPayParameter.packAge;
paySign = brandWCPayParameter.paySign;
alert(paySign);
WeixinJSBridge.invoke(
'getBrandWCPayRequest', {
"appld": appld, //公众号名称,由商户传入
"timeStamp": timeStamp,
                          //时间戳,自1970年以来的秒数
"nonceStr": nonceStr, //随机串
"package" : packAge,
"signType" : signType,
                        //微信签名方式:
```

```
},
function(res){
if(res.err msg == "get brand wcpay request:ok" ) {
 alert("支付成功");
}
}
);
},"json");
}
//微信支付方法(点击按键调用)
function pay(){
if (typeof WeixinJSBridge == "undefined"){
 if( document.addEventListener ){
   document.addEventListener('WeixinJSBridgeReady', onBridgeReady, false);
 }else if (document.attachEvent){
   document.attachEvent('WeixinJSBridgeReady', onBridgeReady);
   document.attachEvent('onWeixinJSBridgeReady', onBridgeReady);
 }
}else{
 onBridgeReady();
}
}
```

5、注意事项

获取prepay_id参数时,当商品描述、商品详情、附加数据三个参数为中文时会返回乱码或者签名错误,应该是编码格式的原因,但是具体是什么原因还不是很清楚,如有遇到相同情况的朋友且已解决还请告知;

一定要注意参数的大小写,本人由于大小写原因导致签名失败而浪费了很多时间;

由于急于调通支付功能,代码中存在一些不合理的地方还待优化,请自行甄别;

上述代码中部分方法定义于不同的类中,请自行组织不同类的方法。

6,如果上述材料能对您有任何帮助那么我倍感欣慰,下面是我开发的公众号二维码,有兴趣的朋友可以关注一下!!谢谢!!

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