

微信支付

微信支付微信提供了两种使用方式,一种是配置固定回调响应地址,一种动态设置回调响应地址无论哪种方式,都需要提供一个备案审核通过的外网域名,因为扫码支付最终走的是微信客户端,没有通过浏览器跳转到微信页面,所以微信支付的回调之后服务器之间点对点通信,没有url重定向通知

其中动态 URL 的方式开发相对简单,本文档中使用的就是动态 URL 方式

一. 微信支付申请

申请请参考官方的申请流程,此处不做说明

二. 开发流程

2.1 方式一

此方式的流程是:

- 1. 用户提交购买的商品或者是选择要支付的订单,然后传递到服务器
- 2. 如果是新购买,则生成订单等信息,如果是付款则获取订单信息
- 3. 将订单信息和商户的信息,如回调地址等作为参数,按照要求排序签名后发送到腾讯服务器
- 4. 腾讯服务器会返回一个微信支付二维码的短连接,两小时有效
- 5. 后台将短连接生成图片,跳转到支付页面,让用户扫码
- 6. 用户扫码支付成功后,微信会在他们后台访问我们指定的回调接口地址,将结果传递过来,不会重定向
- 7. 在回调服务内,判断支付状态等,更新数据
- 8. 演示地址;http://pic.chenjunbo.xin/payment/

2.1.1微信配置

使用超级管理员账号(注册时候绑定的实名认证联系人的微信),安装证书,设置 API 密钥,下载证书 (备用)



2.1.2 POM中的依赖文件

```
<dependencies>
   <dependency>
     <groupId>junit
     <artifactId>junit</artifactId>
     <version>3.8.1
     <scope>test</scope>
   </dependency>
 <!--解析 xml-->
   <dependency>
     <groupId>org.jdom
     <artifactId>jdom</artifactId>
     <version>1.1</version>
   </dependency>
   <dependency>
     <groupId>jaxen
     <artifactId>jaxen</artifactId>
     <version>1.1.6
   </dependency>
   <!-- https://mvnrepository.com/artifact/com.google.zxing/core
   用于生成二维码图片的依赖-->
   <dependency>
```

```
<groupId>com.google.zxing
   <artifactId>core</artifactId>
   <version>3.3.2
 </dependency>
 <dependency>
   <groupId>com.google.zxing</groupId>
   <artifactId>javase</artifactId>
   <version>3.3.2
 </dependency>
<!--注意3.1版本的 servlet 的 web.xml 文件头-->
 <dependency>
   <groupId>javax.servlet
   <artifactId>javax.servlet-api</artifactId>
   <version>3.1.0
   <scope>provided</scope>
 </dependency>
 <dependency>
   <groupId>javax.servlet.jsp</groupId>
   <artifactId>jsp-api</artifactId>
   <version>2.2</version>
 </dependency>
</dependencies>
```

2.1.3 开发需要内容

- 1. 微信APP_ID, 可在微信公众平台查看对应微信号的 ID
- 2. 商户 ID, 可在微信商户平台查看,上图列表中的商户信息中会有
- 3. API KEY 上图中设置的 API 密钥
- 4. 微信统一下单 URL: https://api.mch.weixin.qq.com/pay/unifiedorder 可以在开发者文档中查看
- 5. 回调 URL, 用于用户支付成功后 微信后台点对点通知支付结果,非重定向,需要一个公网地址
- 6. 发起支付的 ip, 创建 ip 地址, 可以填写服务器ip

以下代码开发未使用实际商品和数据库,才用虚假数据支付

实际开发中,只需要更改页面和 Servlet 中的业务逻辑,以及配置文件中的相关信息

其中 ResultServlet 中需要处理的是支付成功和失败后需要做的事情

2.1.3.1 index.jsp

此页面用于用户输入一个想要购买的商品的名称,模拟购买,不需要输入价格,服务器后台写死1分钱,实际开发请按照购物流程

```
<%@ page contentType="text/html;charset=UTF-8" language="java" %>
<html>
<body>
<h2>Hello World!</h2>

<form action="/payment/test">
        请输入要购买的商品:<input type="text" name="body"><br>
        <input type="submit" value="提交">
</form>
</body>
</html>
```

2.1.3.2 TestServlet

用于获取用户输入的商品名称,生成订单

```
/**
 * Created by jackiechan on 2018/2/2/上午11:15
 用于获取用户输入的商品名称,然后生成订单号,发送到腾讯服务器,获取短地址,生成二维码,跳转显
示页面
*/
public class TestServlet extends HttpServlet {
   Random random = new Random();
   @Override
   protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws
ServletException, IOException {
       req.setCharacterEncoding("UTF-8");
       String price = "1";//此处默认是1分,次数需要项目开发中实际根据用户购买的商品获取
       String body = req.getParameter("body");//商品描述,获取用户前台输入的想要购买
的商品,此处需要参考项目实际开发中获取
       if (req.getMethod().equalsIgnoreCase("get")) {
          body = new String(body.getBytes("ISO8859-1"), "UTF-8");
       String orderId = random.nextInt(100000000) + "";//此处随机生成伪订单,实际开
发中请参考项目需求生成
       try {
          String url = PayCommonUtil.weixin_pay(price, body, orderId);//获取微信
返回的二维码对应的短地址
          BufferedImage image = ZxingUtil.createImage(url, 300, 300);//将地址转成
二维码图片
        req.getSession().setAttribute("oid",orderId);//将订单号写入 session, 页面
显示用
          req.getSession().setAttribute("image", image);//将图片放到 session 中
          resp.sendRedirect("/payment/payment.jsp");//跳转到支付页面,显示二维码
       } catch (Exception e) {
          e.printStackTrace();
```

```
}
}

@Override
protected void doPost(HttpServletRequest req, HttpServletResponse resp) throws
ServletException, IOException {
    this.doGet(req, resp);
}
```

2.1.3.2 payment.jsp

2.1.3.3 ImageServlet

用于获取二维码图片显示到页面上面

```
}
}
```

2.1.3.4 PayConfigUtil

用于配置上述需要的信息

```
/**

* Created by jackiechan on 2018/2/2/上午10:33

*/

public class PayConfigUtil {

   public static String APP_ID = "wx632c8f211f8122c6";

   public static String MCH_ID = "1497984412";

   public static String API_KEY = "sbNCm1JnevqI36LrEaxFwcaT0hkGxFnC";

   public static String UFDOOER_URL =

"https://api.mch.weixin.qq.com/pay/unifiedorder";

   public static String NOTIFY_URL = "http://pic.chenjunbo.xin/payment/result";

   public static String CREATE_IP = "114.242.26.51";
}
```

2.1.3.5 XmUtil

用于解析微信返回的 xml 数据

```
* Created by jackiechan on 2018/2/2/上午10:30
* 因为微信返回的是 XML 数据,所以需要解析 XML
*/
public class XMLUtil {
    *解析xml,返回第一级元素键值对。如果第一级元素有子节点,则此节点的值是子节点的xml数
据。
    * @param strxml
     @return
      @throws JDOMException
    * @throws IOException
   public static Map doXMLParse(String strxml) throws JDOMException, IOException
       strxml = strxml.replaceFirst("encoding=\".*\"", "encoding=\"UTF-8\"");
       if(null == strxml || "".equals(strxml)) {
           return null;
       }
       Map m = new HashMap();
```

```
InputStream in = new ByteArrayInputStream(strxml.getBytes("UTF-8"));
    SAXBuilder builder = new SAXBuilder();
    Document doc = builder.build(in);
    Element root = doc.getRootElement();
    List list = root.getChildren();
    Iterator it = list.iterator();
    while(it.hasNext()) {
        Element e = (Element) it.next();
        String k = e.getName();
       String v = "";
        List children = e.getChildren();
        if(children.isEmpty()) {
            v = e.getTextNormalize();
        } else {
            v = XMLUtil.getChildrenText(children);
        }
       m.put(k, v);
    }
    //关闭流
    in.close();
    return m;
}
 * 获取子结点的xml
 * @param children
* @return String
public static String getChildrenText(List children) {
   StringBuffer sb = new StringBuffer();
    if(!children.isEmpty()) {
        Iterator it = children.iterator();
        while(it.hasNext()) {
           Element e = (Element) it.next();
            String name = e.getName();
            String value = e.getTextNormalize();
            List list = e.getChildren();
            sb.append("<" + name + ">");
            if(!list.isEmpty()) {
                sb.append(XMLUtil.getChildrenText(list));
            }
            sb.append(value);
            sb.append("</" + name + ">");
       }
    }
```

```
return sb.toString();
}
```

2.1.3.6 MD5Util

用于生成微信需要的校验数据

```
/**
* Created by jackiechan on 2018/2/2/上午10:29
public class MD5Util {
   /**
    * 编码,将字节数组转成可识别字符串
    * @param b
    * @return
    */
   private static String byteArrayToHexString(byte b[]) {
       StringBuffer resultSb = new StringBuffer();
       for (int i = 0; i < b.length; i++)</pre>
           resultSb.append(byteToHexString(b[i]));
       return resultSb.toString();
   }
    * 将自己转成可识别字符串
    * @param b
    * @return
    */
   private static String byteToHexString(byte b) {
      int n = b;
       if (n < 0)
          n += 256;
       int d1 = n / 16;
       int d2 = n \% 16;
       return hexDigits[d1] + hexDigits[d2];
   }
    * 获取指定内容的 MD5值
    * @param origin 被转换的内容
    * @param charsetname 字符集
    * @return
    */
   public static String MD5Encode(String origin, String charsetname) {
       String resultString = null;
       try {
```

```
resultString = new String(origin);
            MessageDigest md = MessageDigest.getInstance("MD5");
            if (charsetname == null || "".equals(charsetname))
                resultString = byteArrayToHexString(md.digest(resultString
                        .getBytes()));
            else
                resultString = byteArrayToHexString(md.digest(resultString
                        .getBytes(charsetname)));
        } catch (Exception exception) {
        }
        return resultString;
    }
    private static final String hexDigits[] = {"0",
            "6", "7", "8", "9", "a", "b", "c", "d", "e",
    };
    public static String UrlEncode(String src) throws
UnsupportedEncodingException {
        return URLEncoder.encode(src, "UTF-8").replace("+", "%20");
    }
}
```

2.1.3.7 HttpUtil

用于发起网络请求

```
* Created by jackiechan on 2018/2/2/上午10:30
public class HttpUtil {
   private final static int CONNECT TIMEOUT = 5000; // in milliseconds
   private final static String DEFAULT_ENCODING = "UTF-8";
    public static String postData(String urlStr, String data){
       return postData(urlStr, data, null);
   }
   public static String postData(String urlStr, String data, String contentType){
       BufferedReader reader = null;
       try {
           URL url = new URL(urlStr);
           URLConnection conn = url.openConnection();
           conn.setDoOutput(true);
           conn.setConnectTimeout(CONNECT TIMEOUT);
            conn.setReadTimeout(CONNECT_TIMEOUT);
            if(contentType != null)
```

```
conn.setRequestProperty("content-type", contentType);
            OutputStreamWriter writer = new
OutputStreamWriter(conn.getOutputStream(), DEFAULT_ENCODING);
            if(data == null)
                data = "";
            writer.write(data);
            writer.flush();
            writer.close();
            reader = new BufferedReader(new
InputStreamReader(conn.getInputStream(), DEFAULT_ENCODING));
            StringBuilder sb = new StringBuilder();
            String line = null;
            while ((line = reader.readLine()) != null) {
                sb.append(line);
                sb.append("\r\n");
            }
            return sb.toString();
        } catch (IOException e) {
            System.err.println("Error connecting to " + urlStr +
e.getMessage());
        } finally {
            try {
                if (reader != null)
                    reader.close();
            } catch (IOException e) {
        }
        return null;
    }
}
```

2.1.3.8 PayCommonUtil

用于校验支付相关的内容, 以及发起微信支付获取支付二维码的字符串

```
/**

* Created by jackiechan on 2018/2/2/上午10:29

*/

public class PayCommonUtil {
    /**

    * 是否签名正确,规则是:按参数名称a-z排序,遇到空值的参数不参加签名。

    * @return boolean

    */
    public static boolean isTenpaySign(String characterEncoding, SortedMap<Object,
Object> packageParams, String API_KEY) {
        StringBuffer sb = new StringBuffer();
```

```
Set es = packageParams.entrySet();
        Iterator it = es.iterator();
        while(it.hasNext()) {
            Map.Entry entry = (Map.Entry)it.next();
            String k = (String)entry.getKey();
            String v = (String)entry.getValue();
            if(!"sign".equals(k) && null != v && !"".equals(v)) {
                sb.append(k + "=" + v + "%");
            }
        }
        sb.append("key=" + API_KEY);
        //算出摘要
        String mysign = MD5Util.MD5Encode(sb.toString(),
characterEncoding).toLowerCase();
        String tenpaySign = ((String)packageParams.get("sign")).toLowerCase();
        //System.out.println(tenpaySign +
        return tenpaySign.equals(mysign);
    }
     * @author
     * @date 2016-4-22
     * @Description: sign签名 /
     * @param characterEncoding
                  编码格式
                  请求参数
     * @return
    public static String createSign(String characterEncoding, SortedMap<Object,</pre>
Object> packageParams, String API_KEY) {
        StringBuffer sb = new StringBuffer();
        Set es = packageParams.entrySet();
        Iterator it = es.iterator();
        while (it.hasNext()) {
            Map.Entry entry = (Map.Entry) it.next();
            String k = (String) entry.getKey();
            String v = (String) entry.getValue();
            if (null != v && !"".equals(v) && !"sign".equals(k) &&
!"key".equals(k)) {
                sb.append(k + "=" + v + "&");
            }
        }
        sb.append("key=" + API_KEY);
        String sign = MD5Util.MD5Encode(sb.toString(),
characterEncoding).toUpperCase();
        return sign;
```

```
/**
    * @author
    * @date 2016-4-22
    * @Description: 将请求参数转换为xml格式的string
    * @param parameters
                 请求参数
    * @return
    */
   public static String getRequestXml(SortedMap<Object, Object> parameters) {
       StringBuffer sb = new StringBuffer();
       sb.append("<xml>");
       Set es = parameters.entrySet();
       Iterator it = es.iterator();
       while (it.hasNext()) {
           Map.Entry entry = (Map.Entry) it.next();
           String k = (String) entry.getKey();
           String v = (String) entry.getValue();
           if ("attach".equalsIgnoreCase(k) || "body".equalsIgnoreCase(k) ||
"sign".equalsIgnoreCase(k)) {
               sb.append("<" + k + ">" + "<![CDATA[" + v + "]]></" + k + ">");
           } else {
               sb.append("<" + k +</pre>
       }
       sb.append("</xml>");
       return sb.toString();
   }
    * 取出一个指定长度大小的随机正整数.
      @param length
                int 设定所取出随机数的长度。length小于11
      @return int 返回生成的随机数。
   public static int buildRandom(int length) {
       int num = 1;
       double random = Math.random();
       if (random < 0.1) {
           random = random + 0.1;
       for (int i = 0; i < length; i++) {
           num = num * 10;
       return (int) ((random * num));
   }
```

```
* 获取当前时间 yyyyMMddHHmmss
     * @return String
    public static String getCurrTime() {
       Date now = new Date();
       SimpleDateFormat outFormat = new SimpleDateFormat("yyyyMMddHHmmss");
       String s = outFormat.format(now);
       return s;
    }
    /**
    * 统一下单,获取二维码字符串
    * @param order_price 价格
    * @param body 商品描述
    * @param out_trade_no 订单号
    * @return
    * @throws Exception
    */
    public static String weixin_pay( String order_price, String body, String
out_trade_no) throws Exception {
       // 账号信息
       String appid = PayConfigUtil.APP ID; // appid
       //String appsecret = PayConfigUtil.APP_SECRET; // appsecret
       String mch_id = PayConfigUtil.MCH_ID; // 商业号
       String key = PayConfigUtil.API_KEY; // key
       String currTime = PayCommonUtil.getCurrTime();
       String strTime = currTime.substring(8, currTime.length());
       String strRandom = PayCommonUtil.buildRandom(4) + "";
       String nonce_str = strTime + strRandom;
        * String order_price = "1"; // 价格 注意: 价格的单位是分
       String body = "goodssssss"; // 商品名称
        String out_trade_no = "11111338"; // 订单号*/
        // 获取发起电脑 ip
       String spbill_create_ip = PayConfigUtil.CREATE_IP;
       // 回调接口
       String notify_url = PayConfigUtil.NOTIFY_URL;
       String trade_type = "NATIVE";
       SortedMap<Object,Object> packageParams = new TreeMap<Object,Object>();
       packageParams.put("appid", appid);
       packageParams.put("mch_id", mch_id);
       packageParams.put("nonce_str", nonce_str);
       packageParams.put("body", body);
        packageParams.put("out_trade_no", out_trade_no);
```

```
packageParams.put("total fee", order price);
        packageParams.put("spbill_create_ip", spbill_create_ip);
        packageParams.put("notify_url", notify_url);
        packageParams.put("trade_type", trade_type);
        String sign = PayCommonUtil.createSign("UTF-8", packageParams,key);
        packageParams.put("sign", sign);
        String requestXML = PayCommonUtil.getRequestXml(packageParams);
        System.out.println(requestXML);
        String resXml = HttpUtil.postData(PayConfigUtil.UFD00ER_URL, requestXML);
        System.out.println(resXml);
        Map map = XMLUtil.doXMLParse(resXml);
        //String return_code = (String) map.get("return_code")
        //String prepay_id = (String) map.get("prepay_id");
        String urlCode = (String) map.get("code_url"
        return urlCode;
   }
}
```

2.1.3.9 ZxingUtil

生成二维码的工具类

```
/**

* Created by jackiechan on 2018/2/2/上午11:04

*/
public class ZxingUtil {

//*

* Zxing图形码生成工具

*

* @param contents

* 内容

* @param format

* 图片格式,可选[png,jpg,bmp]

* @param width

* 宽

* @param height

* 高

* @param saveImgFilePath

* 存储图片的完整位置,包含文件名

* @return

*/
```

```
public static Boolean encode(String contents, String format, int width, int
height, String saveImgFilePath) {
       Boolean bool = false;
       BufferedImage image = createImage(contents, width, height);
       if (image != null) {
           bool = writeToFile(image, format, saveImgFilePath);
       return bool;
   }
   public static void encode(String contents, int width, int height) {
       createImage(contents, width, height);
   }
   public static BufferedImage createImage(String contents ,int width, int
height) {
       BufferedImage bufImg=null;
       Map<EncodeHintType, Object> hints = new HashMap<EncodeHintType, Object>();
       // 指定纠错等级
       hints.put(EncodeHintType.ERROR_CORRECTION, ErrorCorrectionLevel.H);
       hints.put(EncodeHintType.MARGIN, 10);
       hints.put(EncodeHintType.CHARACTER_SET, "UTF-8"
       try {
           // contents = new String(contents.getBytes("UTF-8"), "ISO-8859-1");
           BitMatrix bitMatrix = new MultiFormatWriter().encode(contents,
BarcodeFormat.QR_CODE, width, height, hints);
           MatrixToImageConfig config = new MatrixToImageConfig(0xFF000001,
0xFFFFFFF;
           bufImg = MatrixToImageWriter.toBufferedImage(bitMatrix, config);
       } catch (Exception e) {
           e.printStackTrace();
       return bufImg;
       将BufferedImage对象写入文件
      @param bufImg
                 BufferedImage对象
      @param format
                 图片格式,可选[png,jpg,bmp]
     * @param saveImgFilePath
                 存储图片的完整位置,包含文件名
     * @return
   @SuppressWarnings("finally")
```

```
public static Boolean writeToFile(BufferedImage bufImg, String format, String
saveImgFilePath) {
    Boolean bool = false;
    try {
        bool = ImageIO.write(bufImg, format, new File(saveImgFilePath));
    } catch (Exception e) {
        e.printStackTrace();
    } finally {
        return bool;
    }
}
```

2.1.3.10 ResultServlet

处理支付结果的 Servlet

```
* Created by jackiechan on 2018/2/2/上午11:16
* 用于响应微信支付结果的 servlet
public class ResuletServlet extends HttpServlet {
   @Override
    protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws
ServletException, IOException {
       try {
           weixin_notify(req,resp);
       } catch (Exception e) {
           e.printStackTrace();
    @Override
    protected void doPost(HttpServletRequest req, HttpServletResponse resp) throws
ServletException, IOException {
       this.doGet(req, resp);
    }
     * 解析微信返回的支付结果
    * @param request
     * @param response
    * @throws Exception
public void weixin_notify(HttpServletRequest request,HttpServletResponse
response) throws Exception{
```

```
String writeContent="默认支付失败";//因为没有重定向,所以测试时无法知道支付结果,
因此将支付结果写入文件,开发时访问文件查看,实际开发中删除
       String path = request.getServletContext().getRealPath("file");//保存结果文
件的位置
       File file = new File(path);
       if (!file.exists()) {
           file.mkdirs();
       FileOutputStream fileOutputStream = new
FileOutputStream(path+"/result.txt", true);//创建输出流,写入结果用,实际开发中删除由此
到上面的内容
       //读取参数
       InputStream inputStream ;
       StringBuffer sb = new StringBuffer();
       inputStream = request.getInputStream();
       String s;
       BufferedReader in = new BufferedReader(new InputStreamReader(inputStream,
"UTF-8"));
       while ((s = in.readLine()) != null){
           sb.append(s);
       }
       in.close();
       inputStream.close();
       //解析xml成map
       Map<String, String> m = new HashMap<String, String>();
       m = XMLUtil.doXMLParse(sb.toString());
       //过滤空 设置 TreeMap
       SortedMap<Object,Object> packageParams = new TreeMap<Object,Object>();
       Iterator it = m.keySet().iterator();
       while (it.hasNext()) {
           String parameter = (String) it.next();
           String parameterValue = m.get(parameter);
           String v = "";
           if(null != parameterValue) {
              v = parameterValue.trim();
           packageParams.put(parameter, v);
       }
       // 账号信息
       String key = PayConfigUtil.API_KEY; // key
       System.err.println(packageParams);
       String out_trade_no = (String)packageParams.get("out_trade_no");//订单号,实
际开发中应该在下面的 IF 中,除非需要对每个订单的每次支付结果做记录
       //判断签名是否正确
```

```
if(PayCommonUtil.isTenpaySign("UTF-8", packageParams,key)) {
          //处理业务开始
          //----
          String resXml = "";
          if("SUCCESS".equals((String)packageParams.get("result_code"))){
             // 这里是支付成功
             String mch_id = (String)packageParams.get("mch_id");
             String openid = (String)packageParams.get("openid");
             String is_subscribe = (String)packageParams.get("is_subscribe");
             // String out_trade_no = (String)packageParams.get("out_trade_no");
             String total_fee = (String)packageParams.get("total_fee");
             System.err.println("mch_id:"+mch_id);
              System.err.println("openid:"+openid);
             System.err.println("is_subscribe:"+is_subscribe);
             System.err.println("out_trade_no:"+out_trade_no);
              System.err.println("total_fee:"+total_fee);
              System.err.println("支付成功");
             writeContent = "订单:" + out_trade_no + "支付成功";//拼接支付结果信
息,写入文件,实际开发中删除
              //通知微信.异步确认成功.必写.不然会一直通知后台.八次之后就认为交易失败
了.
                     "<xml>" + "<return_code><![CDATA[SUCCESS]]>
              resXml =
</return_code>"
                     + "<return_msg><![CDATA[OK]]></return_msg>" + "</xml> ";
            else {
              writeContent = "订单"+out_trade_no+"支付失败,错误信息: " +
packageParams.get("err_code");//拼接支付结果信息,写入文件,实际开发中删除
              System.err.println("订单"+out_trade_no+"支付失败,错误信息: " +
packageParams.get("err_code"));
             resXml = "<xml>" + "<return_code><![CDATA[FAIL]]></return_code>"
                    + "<return_msg><![CDATA[报文为空]]></return_msg>" + "</xml>
          }
          //----
          //处理业务完毕
          BufferedOutputStream out = new BufferedOutputStream(
                 response.getOutputStream());
          out.write(resXml.getBytes());
          out.flush();
          out.close();
```

```
} else{
    writeContent = "订单"+out_trade_no+"通知签名验证失败,支付失败";//拼接支付结果信息,写入文件,实际开发中删除
    System.err.println("通知签名验证失败");
    }
    fileOutputStream.write(writeContent.getBytes());//将支付结果写入文件,实际开发中删除
    fileOutputStream.close();//将支付结果写入文件,实际开发中删除
    }
}
```

2.1.4测试

2.1.4.1 提交购买

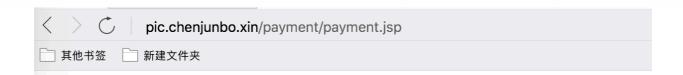


Hello World!

请输入要购买的商品: 颈椎保健指南

提交

2.1.4.2 支付页面扫码





当前是支付页面,订单号是18674702请扫码支付

2.1.4.3 查看支付结果



订单:18674702支付成功