



©

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web

1.4

CNVD

2019

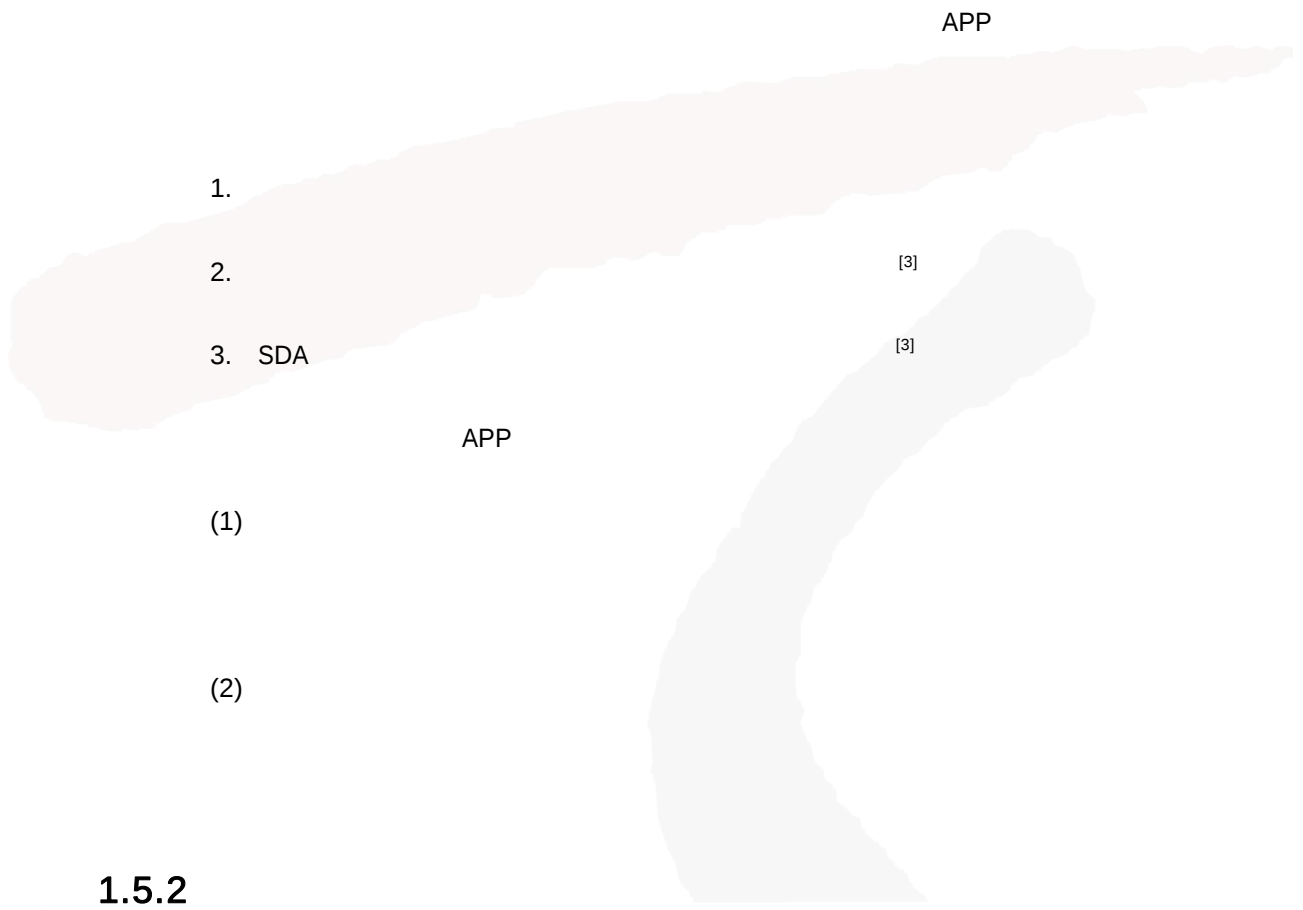
2019

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1.5.2

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4.

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2.1

RFID Radio Frequency Identification NFC Near Field

Communication

NFC

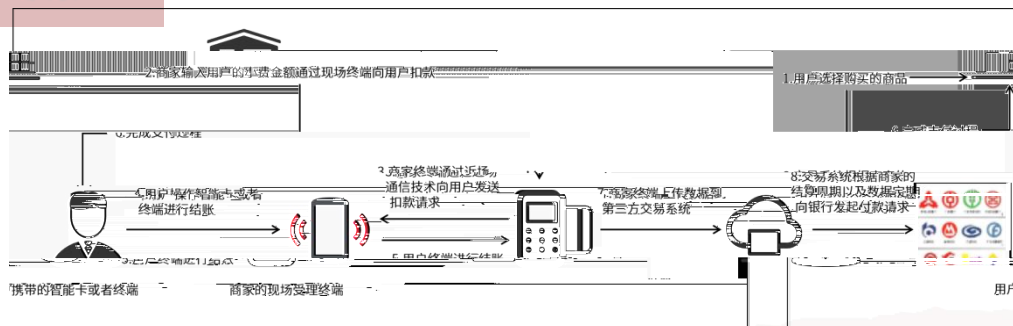
2.2

2.2.1

NFC

RFID

2.2.2



2-1

2.2.3

1) NFC

NFC

NFC

NFC

2

NFC

NFC

NFC

NFC

RFID

13.56MHz



2-2

2) RFID

RFID

RFID

RFID

RFID

NFC eNFC SIMpass RF-SIM

RFID

3)

BLE

BLE

Apple Android Windows

NFC

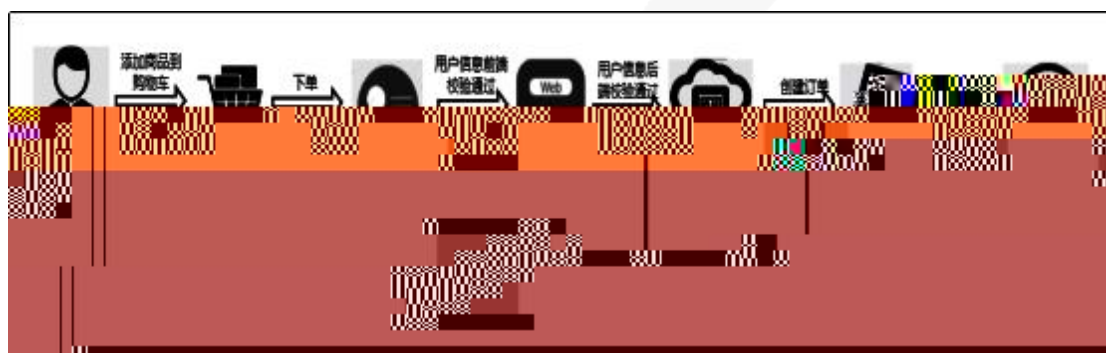
4)

2.3

2.3.1

2.3.2

2-3



2-3

2.3.3

URL

2-4

3.

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	ID

1

3.1

3.1.1

ID

3.1.2

ID IC

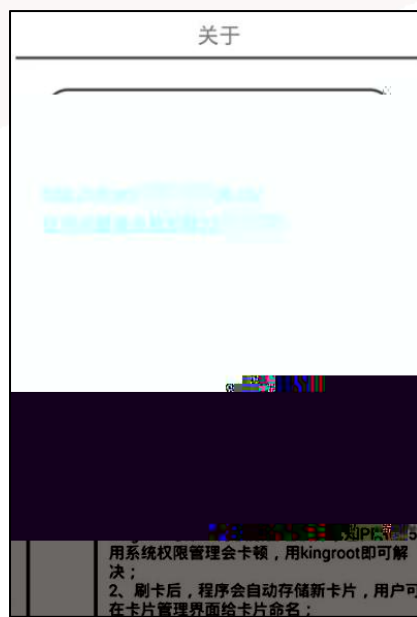
3.1.3

[5]

NFC

NFC

NFC



3-1 NFC

root

system



3-2 NFC



3-3



3-4

3.2

3.2.1

IC

M1

UID

UID

3.2.2

1)

IC

IC

ffffffff 000000000000 a0a1a2a3a4a5 b0b1b2b3b4b5 aabbccddeeff

4d3a99c351dd a982c7e459a d3f7d3f7d3f7 14c5c886e97 87ee5f9350f a0478cc39091

33cb6c723f6 fd0a4f256e9 fzzzzzzzzzz a0zzzzzzzzzz



3-5

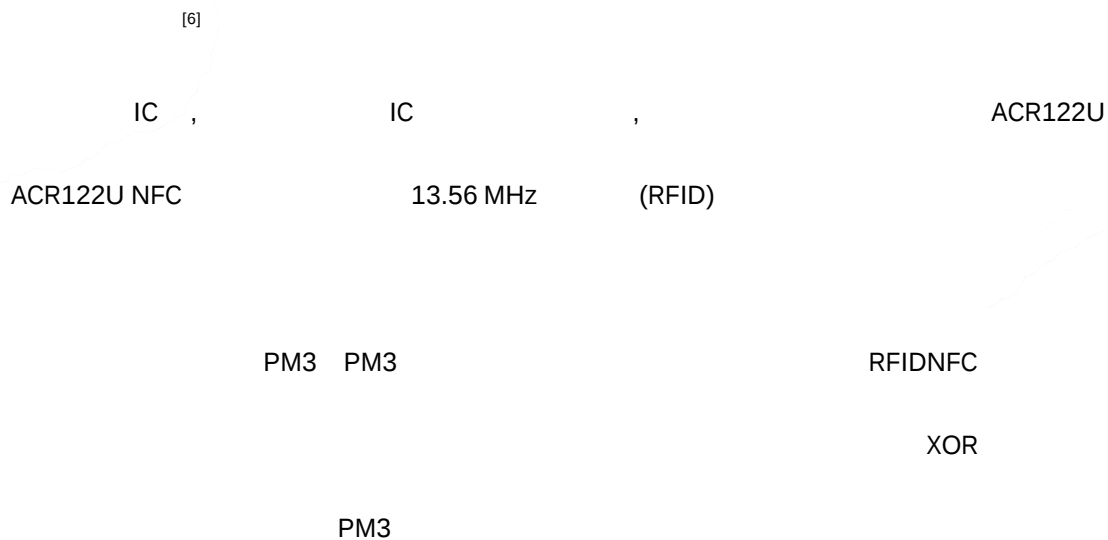
2) Nested Authentication

Nested Authentication

mfoc

mfocuk

3.2.3



sec	key A	res	key B	res
0000	583c7bed6262	1	9aba2c6f0039	1

3-6 PM3

Dump

214444

16

C8 64

64 c8

25800

258.00

65 EA

00000090	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	
000000A0	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	
000000B0	F8 43 97 49 3B 14 08 77	8F FF F8 43 97 49 3B 14	駱梧: w 駱梧:
000000C0	01 00 01 00 00 21 44 44	18 08 15 00 00 00 00 0C	!DD
000000D0	00 00 00 01 00 00 00 01	18 79 15 08 15 00 00 69	y i
000000E0	B3 C2 C3 FA D1 D2	20 20 32 30 31 34 20 20	陈 014
000000F0	F8 43 97 49 3B 14 08 77	8F FF F8 43 97 49 3B 14	駱梧: w 駱梧:
00000100	C8 64 00 00 37 9B FF FF	C8 64 00 00 01 FE 01 FE	蔣 7? 蔣 ??
00000110	C8 64 00 00 37 9B FF FF	C8 64 00 00 01 FE 01 FE	蔣 7? 蔣 ??
00000120	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	
00000130	F8 43 97 49 3B 14 08 77	8F FF F8 43 97 49 3B 14	駱梧: w 駱梧:

3-7

3.3

3.3.1

3.3.2

3.3.2

1)

CNV

©



3-10 ETC



3-11 ETC



ETC助手

填写办理信息

车牌号	人
请选择绑定银行卡	▼
☒ 储蓄卡	☐ 信用卡
银行卡号	人
6位密码	人
持卡人姓名	人
持卡人身份证号	人
银行预留手机号	人
剩余可用额度	人
开始认证	

3-12 ETC

2)



3-13

3.4

3.4.1

3.4.2

3.5

3.5.1

3.5.2

1)

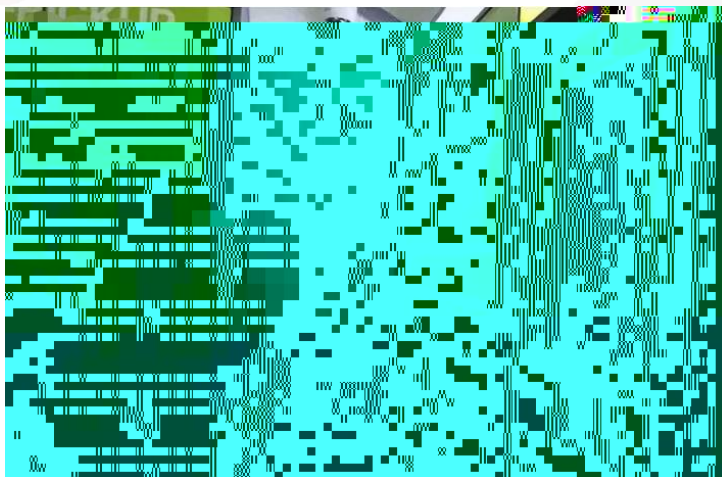
2)

DNA

3.5.3

1)

2)



3-14

3.6

3.6.1

```
//coupon优惠券数量
if(coupon>0){
    totalAmount=(Amount*num)+coupon;
    sql = "insert into orderi
    id , num , totalAmount" values('2021xx01','2',totalAmount)";
```

3-15

3.6.2

0

0

1

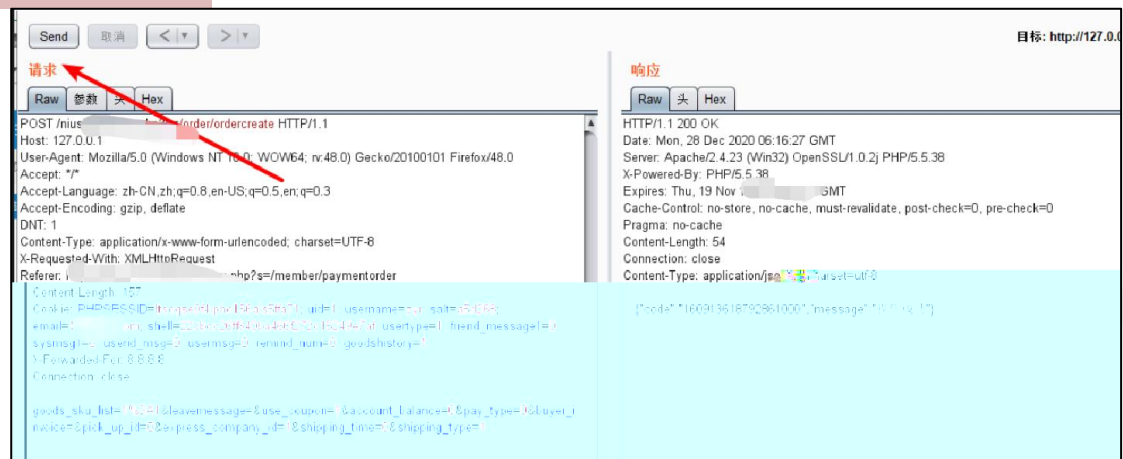
```
//coupon优惠券数量
if(coupon>0){
    totalAmount=(Amount*num)+coupon;
    sql = "insert into orderi
    id , num , totalAmount" values('2021xx01','2',totalAmount)";
```

3-6-1

3.6.3

3-16

3-17



3-16

待收货(0)		已收货(0)		退款/售后(0)		待评价(0)	
单价	数量	售后	订单总金额	状态	操作		
¥100.00	1		¥90.00	待付款 订单详情	去支付 关闭订单		
¥100.00	1		¥90.00	待付款 订单详情	去支付 关闭订单		
¥100.00	1		¥90.00	待付款 订单详情	去支付 关闭订单		

3-17

3.7

3.7.1

3.7.2

1

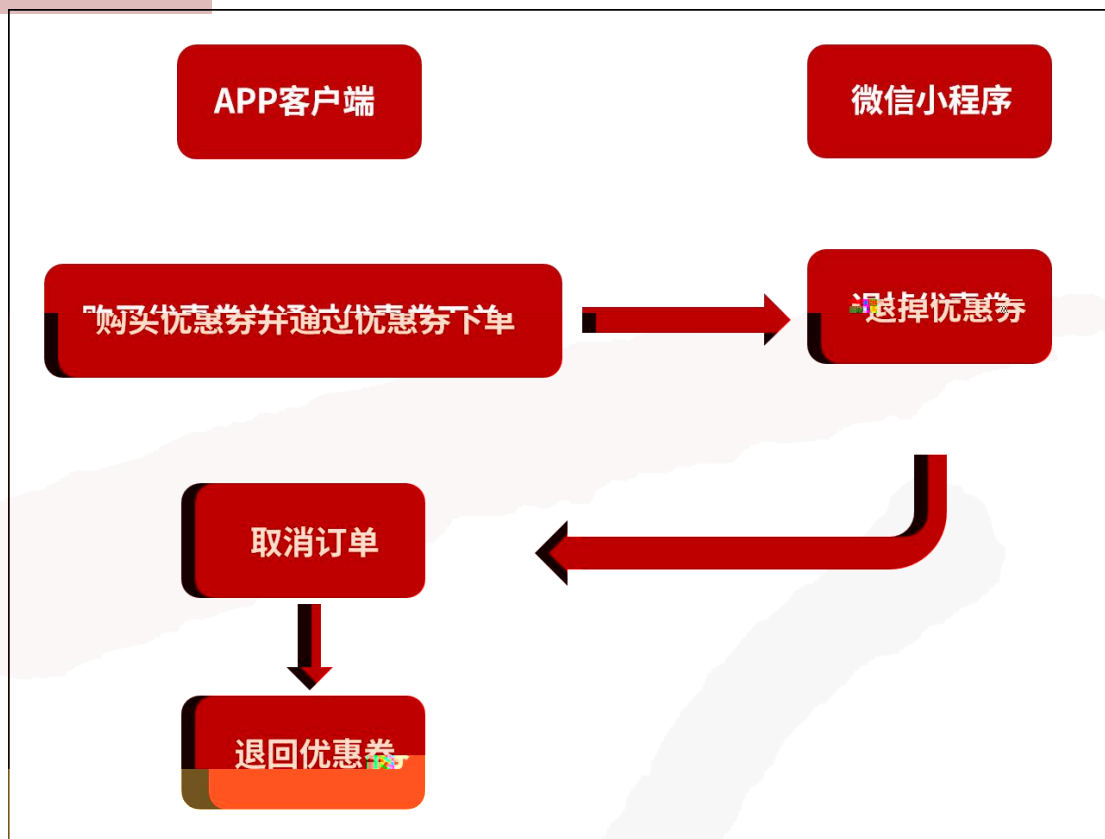
```
if(applets==True){  
    //微信小程序退单 state 代表订单状态 -1 代表退单  
    //执行sql语句，更新订单状态  
    sql = "update order set state='-1' where id='2021xxxx01'";  
    //优惠券数量加 1  
    coupon += 1;  
}  
  
if(app==True){  
    //APP退单 state 代表订单状态 -1 代表退单  
    //执行sql语句，更新订单状态  
    sql = "update order set state='-1' where id='2021xxxx01'";  
    //优惠券数量加 1  
    coupon += 1;  
}
```

3-18

3.7.3

APP

3-19



3-19

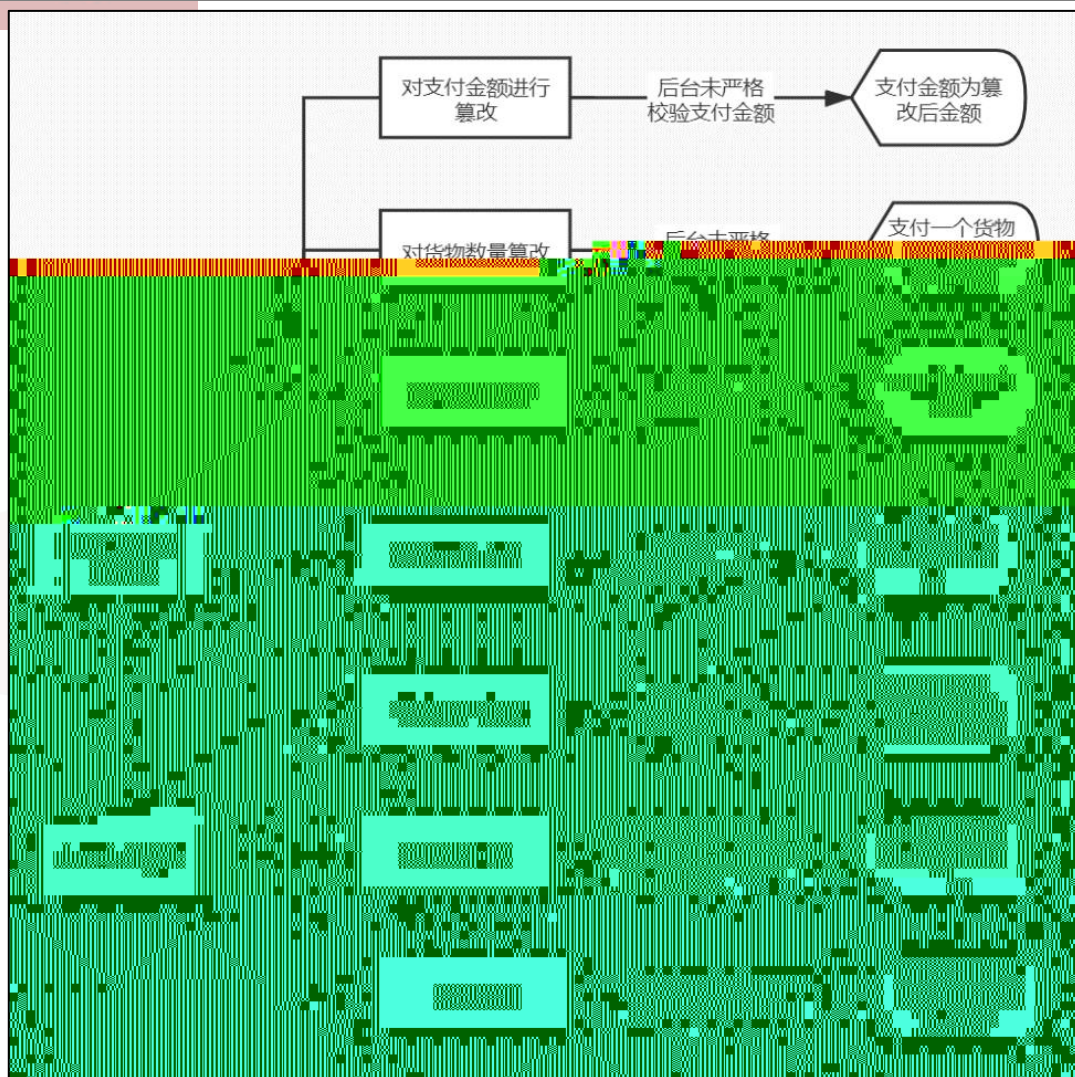
3.8

3.8.1

ID

3.8.2

3-20



3-20

true 1 ok success 200

int

int

2147483647

int

3-21

3.8.3

1)

3-24

填写并核对订单

收货人信息

新增收货地址

张三

张三 北京市北京市东城区 136 87 默认地址

更多地址

支付方式

货到付款

商品清单

商品	单价	数量	总价
阿尔法 旗舰店			
啤酒纯生500ml*12听/箱 德国进口麦芽啤酒 全国包邮	¥56.00	1	¥56

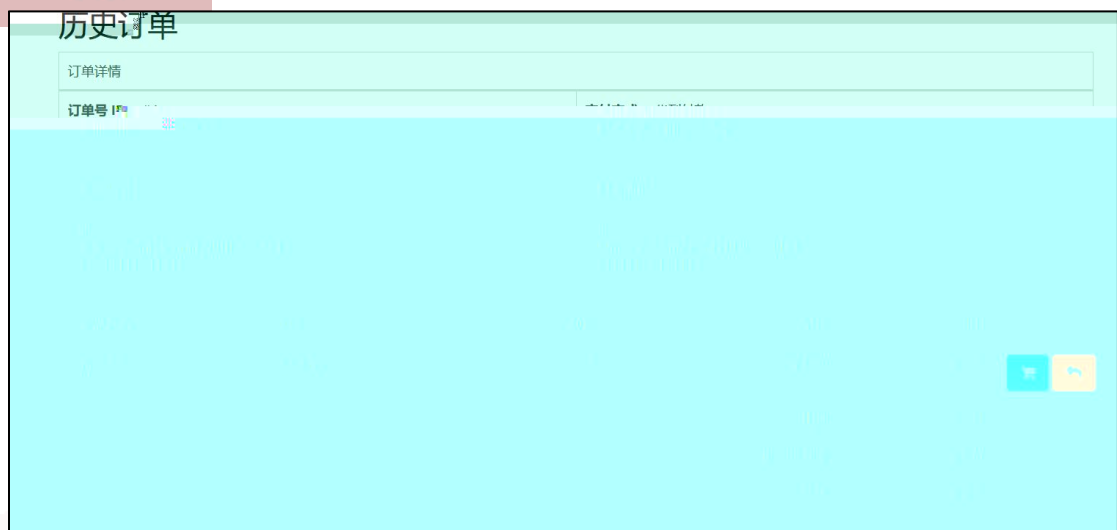
订单备注: 给卖家留言

运费: ¥0
店铺合计(含运费): ¥56

3-22

The screenshot shows a mobile app interface with a pink header bar. Below the header, there is a green bar with a white '1' and a green checkmark. The main content area is white and contains a green checkmark icon, the text '订单完成成功!' (Order completed successfully!), and a green button labeled '返回' (Return). At the bottom, there is a blue bar with a white '1' and a green checkmark.

2)



3-27

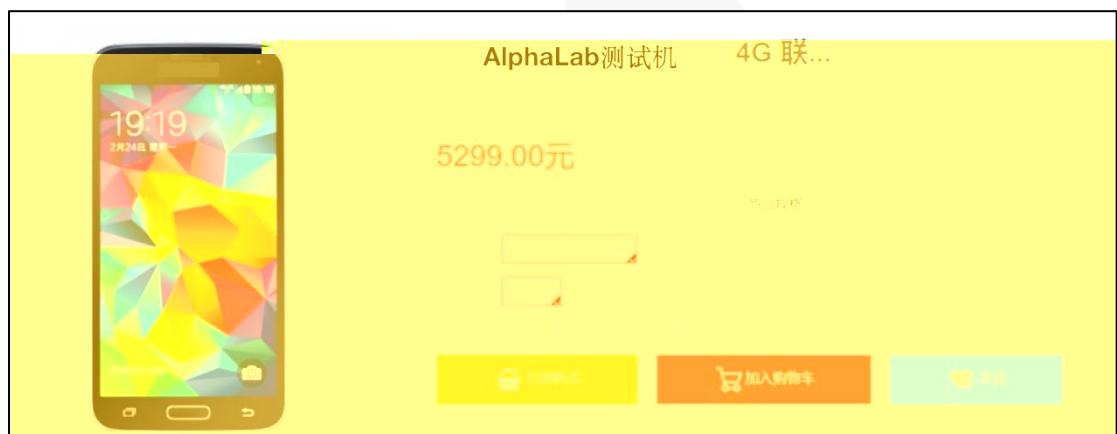
3)

token

3-28

3-29

3-30



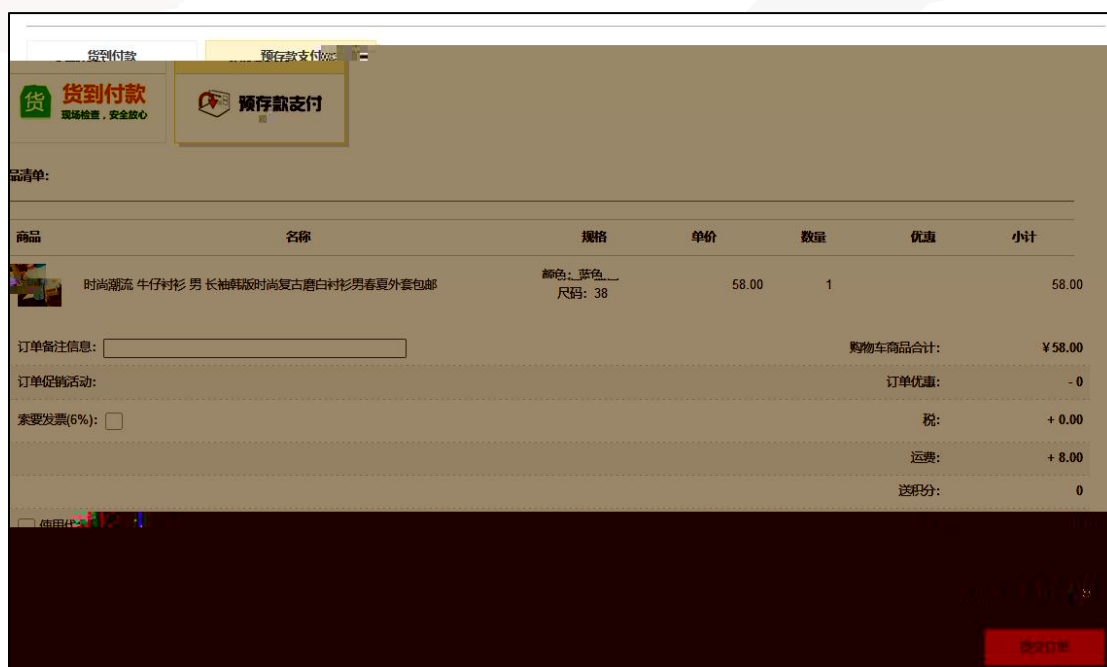
3-28

token

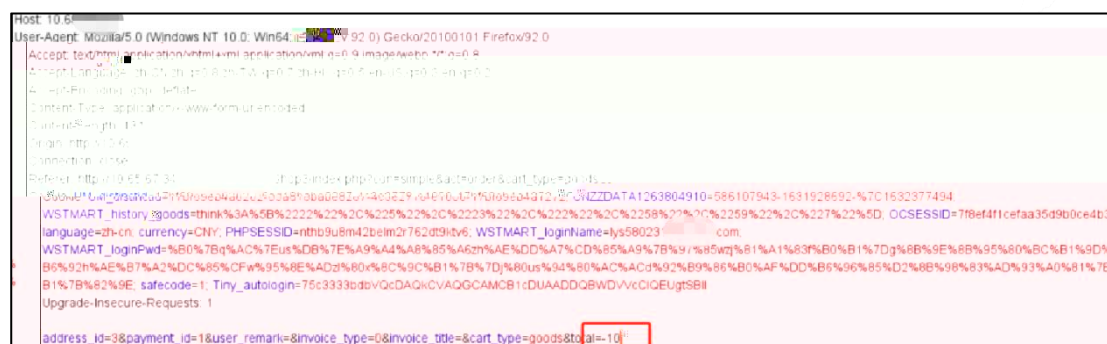
token



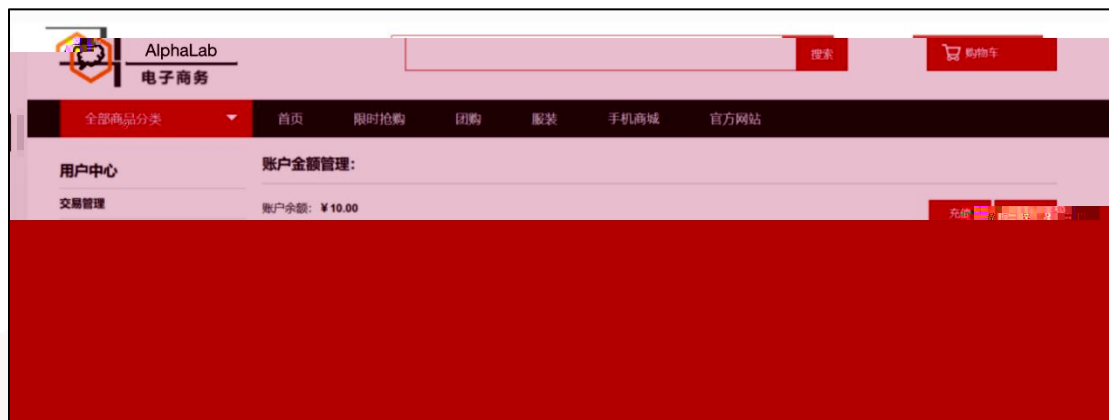
3-31



3-32



3-33



3-34

5)

0

200



3-35

订单已成功提交!

订单编号: 20210924135706782717 查看订单>>

3.9

3.9.1

3.9.2

```
if(session['user']!=null){
    //用户已经登录
    sql = "select * from user where id="+session['id'];
    //查询数据库，处理数据阶段
    .....
    //判断用户是否为新用户
    if(reslut['state'] == 0){
        //生成新用户优惠订单
        sql1 = 'insert into order(`id`,`amount`,`state`) values('2021xxxxx01','100','0');|
        //数据库处理操作
        .....
        //用户支付，如果支付成功
        if(pay_state==True){
            sql2 = 'update user set state=1 where id='+session['id'];
        }
    }
}
```

3-38

3.9.3

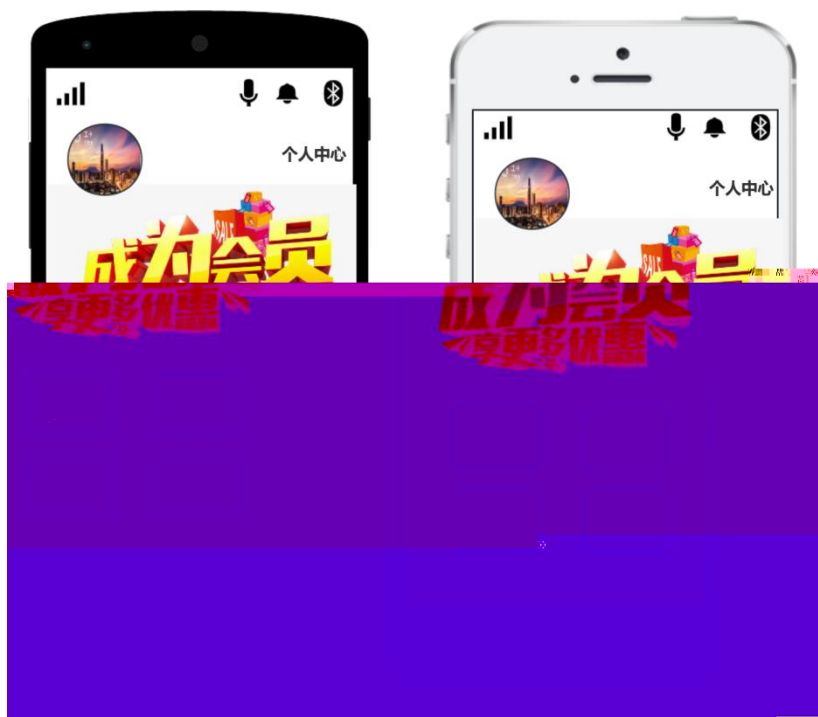
1 1



3-39

2

2



3-40

2

3.10

3.10.1

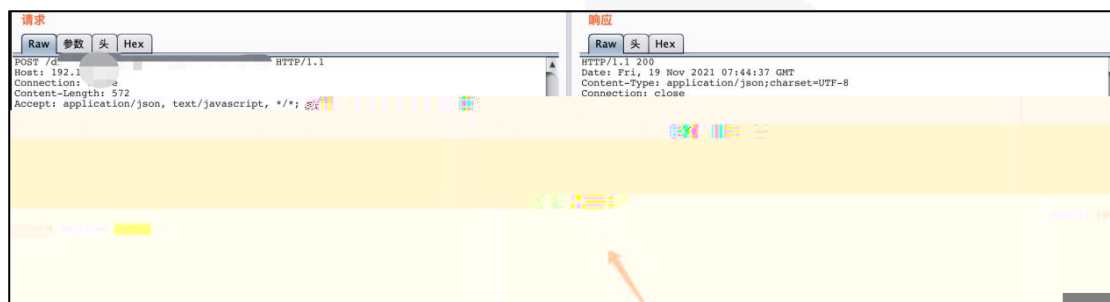
3.10.2

```
//支付状态
$pay_state = False;
//支付尝试次数
$pay_num = 0;
//失败次数小于3
if($pay_num<3){
    //密码与用户输入的密码不同
    if(password!= $_POST['password']){
        $pay_num++;
    }
}
```

3.10.3

The image shows a mobile application interface for binding a phone number. At the top, there is a user profile section with a circular avatar and the name "逆熵疯话". Below this, there are four empty slots for a phone number, each containing a "0". The main section is titled "绑定手机号" (Bind Phone Number). It contains two input fields: the first for the phone number, which starts with "188", and the second for a verification code, which contains "111111". To the right of the verification code field is a button labeled "获取验证码" (Get Verification Code). Below the input fields is a checkbox with the text "我已阅读并同意用户隐私协议" (I have read and agree to the user privacy policy). At the bottom of the form is a button labeled "绑定手机号" (Bind Phone Number).

3-42



3-43

4.

4.1

IC

CPU

4.2

4.3

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4.6

4.7

4.8

5.

- [1] .
[DB/OL].(2005-10-26)[2023-03-06].http://www.gov.cn/gongbao/content/2006/content_375800.htm.
- [2] .
[EB/OL].(2023-02-22)[2023-03-06].https://www.cs.com.cn/lc/202302/t20230222_6324849.html.
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- [5] . NFC
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