验证码功能的修改

Login.vue代码:

```
handlerPopup(captchaObj){

// 验证码成功的回调

let _this = this;

captchaObj.onSuccess(function () {

    var validate = captchaObj.getValidate();

    _this.validateResult = true;

});

// 将验证码加到id为captcha的元素里

captchaObj.appendTo("#geetest");

}
```

views.py

```
from rest_framework.response import Response
from rest_framework.views import APIView
import random
from luffy.libs.geetest import GeetestLib
class VerifyCode(APIView):
   gt = None
    """验证码类"""
   def get(self,request):
       """获取验证码"""
       user_id = random.randint(1, 100)
       APP_ID = "884b024377529d6ba4d2f07d227879df"
       APP_KEY = "28e7f92b7c66f718d65ede8feb26f477"
       gt = GeetestLib(APP_ID,APP_KEY)
       status = gt.pre_process(user_id)
       data = gt.get_response_str()
       return Response(data)
from rest_framework.generics import CreateAPIView
from .models import User
from .serializers import UserModelSerializer
class UserAPIView(CreateAPIView):
   """用户管理"""
   queryset = User.objects.all()
   serializer_class = UserModelSerializer
from rest_framework import status
from luffy.libs.yuntongxun.sms import CCP
from django_redis import get_redis_connection
class SMSCodeAPIView(APIView):
   def get(self,request):
       # 1. 通过查询字符串获取手机号码
```

```
mobile = request.query_params.get("mobile")
       # 2. 发送短信之前验证码验证一下手机号码
       try:
          User.objects.get(mobile=mobile)
          return Response({"message": "当前手机号已经被注册过"},
status=status.HTTP_400_BAD_REQUEST)
       except:
       redis = get_redis_connection("sms_code")
       if redis.get("times_%s" % mobile):
          return Response({"message": "当前手机号已经在一分钟内发送过短信"},
status=status.HTTP_400_BAD_REQUEST)
       # 3. 使用手机号码发送短信验证码
       # 生成一个短信验证码
       sms_code = "%04d" % random.randint(0, 9999)
       ccp = CCP()
       result = ccp.send_template_sms(mobile,[sms_code,"5分钟"],1)
       if result == 0:
          # 发送短信成功,保存短信验证码到redis数据库中
          # 开启管道操作
          pl = redis.pipeline()
          pl.multi() # 接下来会在管道中执行多条命令
          # setex(变量名,有效期[秒],值)
          SMS_EXPIRE_TIME = 5 * 60 # 短信验证码的有效期
          SMS_TIMES = 60 # 短信发送的间隔时间
          # 把原来立即执行的命令放置到管道
          pl.setex("sms_%s" % mobile, SMS_EXPIRE_TIME, sms_code)
          pl.setex("times_%s" % mobile, SMS_TIMES, 1)
          # 统一执行管道中的命令
          pl.execute()
       # 4. 响应数据给客户端
       return Response({"message":result},status=status.HTTP_200_OK)
```

订单模型

```
# Create your models here.
from users.models import User
from courses.models import Course
class Order(models.Model):
    """订单记录"""
    status_choices = (
        (0, '未支付'),
        (1, '已支付'),
        (2, '已取消'),
```

```
total_price = models.DecimalField(max_digits=6, decimal_places=2, verbose_name="订单
总价", default=0)
   order_number = models.CharField(max_length=16,verbose_name="订单号")
   order_status = models.SmallIntegerField(choices=status_choices, default=0,
verbose_name="订单状态")
   order_desc = models.CharField(max_length=120,verbose_name="订单描述")
    created_time = models.DateTimeField(verbose_name="订单生成时间", auto_now_add=True)
   pay_time = models.DateTimeField(verbose_name="订单支付时间", auto_now_add=True)
   user = models.ForeignKey(User, related_name='user_orders',
on_delete=models.DO_NOTHING, verbose_name="用户ID")
   class Meta:
       db_table="ly_order"
       verbose_name= "订单记录"
       verbose_name_plural= "订单记录"
class OrderDetail(models.Model):
   """订单详情"""
   order = models.ForeignKey("Order", related_name='order_course',
on_delete=models.CASCADE, verbose_name="订单ID")
   course = models.ForeignKey(Course, related_name='course_order',
on_delete=models.CASCADE, verbose_name="课程ID")
   class Meta:
       db_table="ly_order_detail"
       verbose_name= "订单详情"
       verbose_name_plural= "订单详情"
```

后端实现生成订单的api接口

```
from django_redis import get_redis_connection
from rest_framework import status
from rest_framework.views import APIView
from decimal import Decimal
from .models import Order, OrderDetail
from datetime import datetime
from rest_framework.response import Response
import random
class OrderAPIView(APIView):
   def post(self,request):
       # 获取用户ID
       try:
           user_id = request.user.id
           return Response({"message":"用户不存在!"})
       # 自己生成一个订单号,# 结合时间戳和当前用户ID来生成,才能保证整站唯一
       order_number = datetime.now().strftime("%Y%m%d%H%M%S") + "%07d" % int(user_id)
+ "%04d" % random.randint(0,9999)
```

```
# 从 redis中获取商品信息 [ 先获取勾选集, 然后根据勾选集, 到购物车中查询对应的商品价格]
       redis = get_redis_connection("cart")
       course_id_list = redis.smembers("cart_select_%s" % user_id )
       # 计算总价格
       total_price = 0
       cart_info = redis.hgetall("cart_%s" % user_id ) # 返回哈希数据中的键值对
       for course_id,course_price in cart_info.items():
           if course_id in course_id_list:
               total_price+= Decimal(course_price.decode())
       # 创建订单数据
       order = Order.objects.create(
           user_id=user_id,
           order_number=order_number,
                           # 订单状态默认为未支付
           order_status=0,
           order_desc="路飞学成课程购买", # # 订单描述信息
           total_price=total_price
       )
       # 返回响应信息给客户端
       if order:
           # 删除redis中已经生成订单的商品信息
           for course_id in course_id_list:
               # 记录订单相关的课程信息到订单详情
              OrderDetail.objects.create(
                  course_id = course_id,
                  order_id = order.id
              )
               redis.hdel("cart_%s" % user_id, course_id.decode() )
               redis.srem("cart_select_%s" % user_id, course_id.decode() )
           return Response({"message": "ok"}, status=status.HTTP_200_OK)
       else:
           return Response({"message": "生成订单失
败!"},status=status.HTTP_500_INTERNAL_SERVER_ERROR)
```

前端请求生成订单

```
<el-col:span="4">操作</el-col>
           </e1-row>
        </div>
        <CartItem v-for="item,course_key in course_list" @change_select="total_price"</pre>
@delete_course="del_course" :course_key="course_key" :course="item"/>
        <div class="calc">
            <el-row>
              <el-col :span="2">&nbsp;</el-col>
              <e1-co1 :span="3">
                  <el-checkbox label="全选" name="type"></el-checkbox></el-col>
              <el-col :span="2" class="del"><i class="el-icon-delete"></i>删除</el-col>
              <el-col :span="12" class="count">总计: ¥{{total}}</el-col>
              <el-col :span="3" class="cart-calc"><span @click="create_order">去结算
</span></el-col>
            </el-row>
        </div>
    </div>
    <Footer/>
  </div>
</template>
<script>
  import Header from "./common/Header"
  import Footer from "./common/Footer"
  import CartItem from "./common/CartItem"
  export default {
   name: "Cart",
    data(){
      return {
        token: localStorage.token | sessionStorage.token,
       id: localStorage.id || sessionStorage.id,
       course_list:[],
       total:0,
     }
    },
    components:{
     Header,
      Footer,
      CartItem,
   },
    created(){
      // 判断用户是否已经登陆了。
      if( !this.token || !this.id ){
       this.$router.push("/login");
      let _this = this;
      // 发起请求获取购物车中的商品信息
      _this.$axios.get("http://127.0.0.1:8000/cart/",{
          headers: {
              'Authorization': 'JWT ' + _this.token
         },
          responseType: 'json',
         withCredentials: true
```

```
}).then(response=>{
         _this.course_list = response.data;
         this.total_price()
       })
   },
   methods: {
     del_course(course_key) {
       this.course_list.splice(course_key, 1);
       // 重新计算总价格
       this.total_price();
     },
     total_price(msg) {
       // 计算总价格
       let cl = this.course_list;
       let total = 0;
       for(let i = 0; i < c1.length; i++){
         if(cl[i].selected){
           total+=parseFloat(cl[i].price);
         }
       }
       total = total.toFixed(2);
       this.total = total;
     },
     create_order(){
       // 生成订单
       this.$axios.post("http://127.0.0.1:8000/buy/orders",{},{
         headers: {
           // 附带已经登录用户的jwt token 提供给后端,一定不能疏忽这个空格
           'Authorization': 'JWT ' + this.token
         },
         responseType: "json",
       }).then(response=>{
         // 跳转到结算页面
         this.$router.push("/order")
       }).catch(error=>{
         // 生成订单失败
       })
     }
   }
 }
</script>
```

调整结算页中的订单课程信息

目前显示的信息是从redis购物车中提取的,是我们没有购买的课程信息。

所以要从数据库Order模型中提取.

发起支付

接入支付宝

支付宝开发平台登录

https://open.alipay.com/platform/home.htm







沙箱环境

- 是支付宝提供给开发者的模拟支付的环境
- 沙箱环境跟真实环境是分开的,项目上线时必须切换对应的配置服务器地址和开发者ID和密钥。

• 沙箱应用: <https://docs.open.alipay.com

• 沙箱账号: https://openhome.alipay.com/platform/appDaily.htm?tab=account



真实的支付宝网关: https://openapi.alipay.com/gateway.do

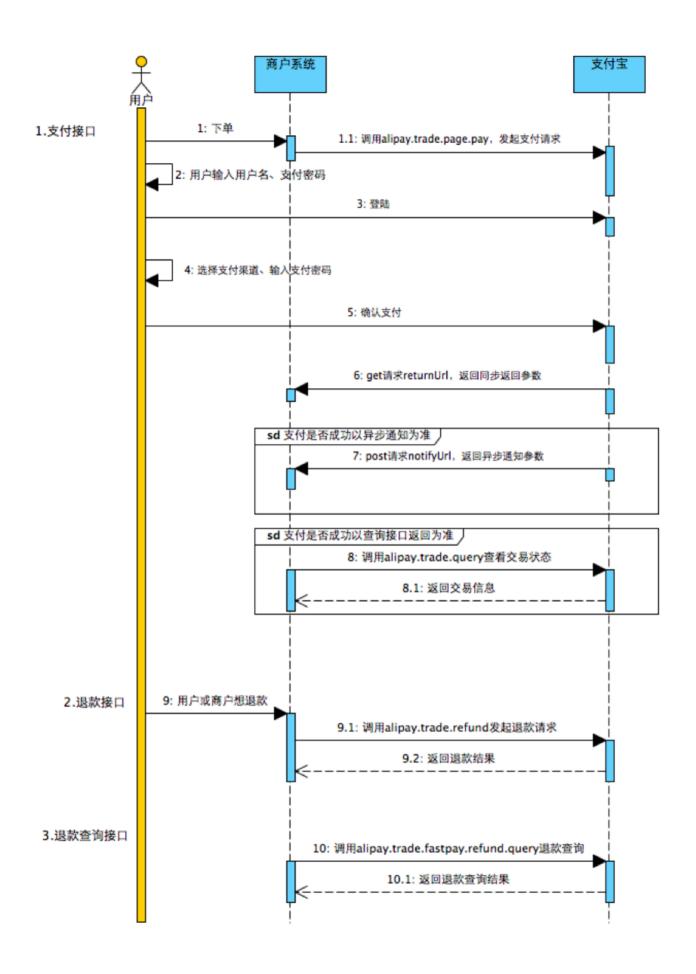
沙箱的支付宝网关: https://openapi.alipaydev.com/gateway.do

支付宝开发者文档

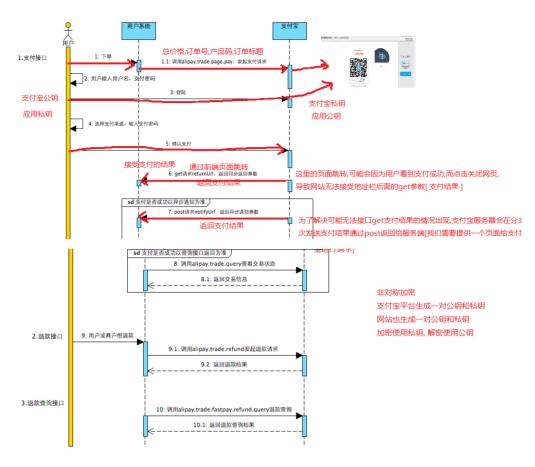
• 文档主页: https://openhome.alipay.com/developmentDocument.htm

• 产品介绍: https://docs.open.alipav.com/270

电脑网站支付流程



时序图 时间顺序图: 从上往下就是时间



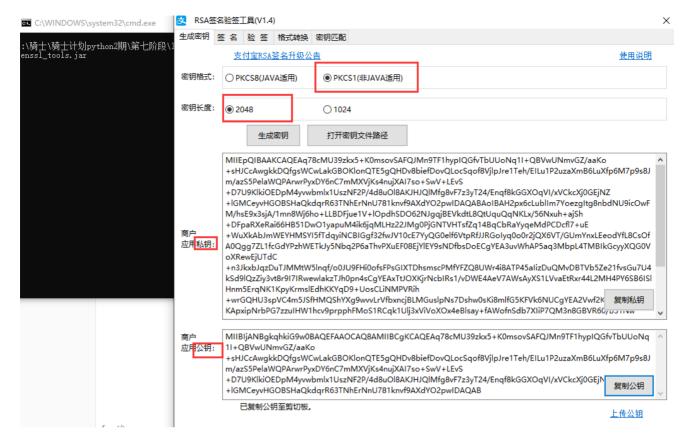
开发支付功能

cd luffy/apps
python ../../manage.py startapp payments

配置秘钥

1. 生成应用的私钥和公钥

下载对应系统的秘钥生成工具: https://doc.open.alipay.com/docs/doc.htm?treeld=291&articleld=105971&docType=1



应用公钥复制粘贴到支付宝网站页面中.



点击修改以后,粘贴进去

应用公钥(SHA256withRsa) ×

② 使用SHA256withRsa,支付宝会用SHA256withRsa算法进行接口调用时的验签(不限制密钥长度)。查看密钥生成方法

MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAq78cMU39zkx5+K0msovSAFQJMn9TF1hypIQGfvTbUU oNq1I+QBVwUNmvGZ/aaKo+sHJCcAwgkkDQfgsWCwLakGBOKlonQTE5gQHDv8biefDovQLocSqof8VjlpJre1Teh/EI Lu1P2uzaXmB6LuXfp6M7p9s8Jm/azS5PelaWQPArwrPyxDY6nC7mMXVjKs4nujXAI7so+SwV+LEvS+D7U9KlkiOED pM4yvwbmlx1UszNF2P/4d8uOl8AKJHJQIMfg8vF7z3yT24/Enqf8kGGXOqVI/xVCkcXj0GEjNZ+IGMCeyvHGOBSHa QkdqrR63TNhErNnU781knvf9AXdYO2pwIDAQAB

验证公钥正确性>>

保存

2. 保存应用私钥文件

在payments应用中新建keys目录,用来保存秘钥文件。

将应用私钥文件app_private_key.pem复制到payment/keys目录下。

```
----BEGIN RSA PRIVATE KEY----
私钥
----END RSA PRIVATE KEY----
```

3. 保存支付宝公钥

在payment/keys目录下新建alipay_public_key.pem文件,用于保存支付宝的公钥文件。

将支付宝的公钥内容复制到alipay_public_key.pem文件中

```
----BEGIN PUBLIC KEY----
公钥
----END PUBLIC KEY----
```

```
➤ orders
➤ payments
➤ keys
alipay_public_key.pem
app_private_key.pem
```

4. 使用支付宝的sdk开发支付接口

SDK: https://docs.open.alipav.com/270/106291/

python版本的支付宝SDK文档: https://github.com/fzlee/alipay/blob/master/README.zh-hans.md

安装命令:

```
pip install python-alipay-sdk --upgrade
```

后端实现发起支付接口

```
class PaymentAPIView(APIView):
   """支付宝"""
   permission_classes = (IsAuthenticated,)
   def get(self, request, order_id):
       """获取支付链接"""
       # 判断订单信息是否正确
       try:
           order = Order.objects.get(order_id=order_id, user=request.user,
                                       order_status=0,)
       except Order.DoesNotExist:
           return Response({'message': '订单信息有误'},
status=status.HTTP_400_BAD_REQUEST)
       # 构造支付宝支付链接地址
       alipay = AliPay(
           appid=settings.ALIPAY_APPID,
           app_notify_url=None, #默认回调url
app_private_key_path=os.path.join(os.path.dirname(os.path.abspath(__file__)),
"keys/app_private_key.pem"),
alipay_public_key_path=os.path.join(os.path.dirname(os.path.abspath(__file__)),
"keys/alipay_public_key.pem"), # 支付宝的公钥,验证支付宝回传消息使用,不是你自己的公钥,
           sign_type="RSA2", # RSA 或者 RSA2
           debug=settings.ALIPAY_DEBUG
       )
       order_string = alipay.api_alipay_trade_page_pay(
```

```
out_trade_no=order.id,
    total_amount=str(order.total_price),
    subject=order.order_desc,
    return_url="http://127.0.0.1:8080/pay_success",
)
alipay_url = settings.ALIPAY_URL + "?" + order_string
return Response({'alipay_url': alipay_url}, status=status.HTTP_201_CREATED)
```

在配置文件中编辑支付宝的配置信息[实际的值根据自己的账号而定]

```
# 支付宝
ALIPAY_APP_ID="2016091600523592" # 应用ID
APLIPAY_APP_NOTIFY_URL = None # 应用回调地址[支付成功以后,支付宝返回结果到哪一个地址下面]
APP_PRIVATE_KEY_PATH = os.path.join(BASE_DIR, "luffy/apps/payments/keys/app_private_key.pem")
ALIPAY_PUBLIC_KEY_PATH = os.path.join(BASE_DIR, "luffy/apps/payments/keys/alipay_public_key.pem")
ALIPAY_DEBUG = True # APIPAY_GATEWAY="https://openapi.alipay.com/gateway.do"
APIPAY_GATEWAY="https://openapi.alipaydev.com/gateway.do"
ALIPAY_RETURN_URL = "http://127.0.0.1:8080/success"
ALIPAY_NOTIFY_URL = "http://127.0.0.1:8080/success"
```

前端点击"支付宝支付",请求后端的发起支付api

```
from datetime import datetime
from rest_framework import status
from rest_framework.permissions import IsAuthenticated
from rest_framework.response import Response
from rest_framework.views import APIView
from alipay import AliPay
from django.conf import settings
from orders.models import Order
class PaymentAPIView(APIView):
   permission_classes = [IsAuthenticated]
   def get(self,request,pk):
       """生成支付链接的地址"""
       try:
            order = Order.objects.get(pk=pk)
       except Order.DoesNotExist():
            return Response({"message":"当前订单不存
在!"},status=status.HTTP_400_BAD_REQUEST)
       alipay = AliPay(
            appid=settings.ALIPAY_APP_ID,
            app_notify_url=None, # 默认回调url
```

```
# 应用私钥
    app_private_key_path=settings.APP_PRIVATE_KEY_PATH,
    # 支付宝的公钥,
    alipay_public_key_path=settings.ALIPAY_PUBLIC_KEY_PATH,
    sign_type="RSA2", # 密码加密的算法
    # 开发时属于调试模式
   debug = settings.ALIPAY_DEBUG # 默认False
)
# 生成参数
order_string = alipay.api_alipay_trade_page_pay(
   out_trade_no=order.order_number,
    total_amount=float(order.total_price), # 订单价格,单位:元 / RMB
    subject=order.order_desc,
                            # 订单标题
    return_url=settings.ALIPAY_RETURN_URL,
    notify_url=settings.ALIPAY_NOTIFY_URL # 可选, 不填则使用默认notify url
)
# 拼接成完整的链接地址
url = settings.APIPAY_GATEWAY + "?" + order_string
return Response({"url":url},status=status.HTTP_200_0K)
```

支付成功的模板

```
<template>
 <div class="success">
   <Header :current_page="current_page"/>
   <div class="main">
      <div class="title">
        <img src="../../static/images/right.svg" alt="">
        <div class="success-tips">
           您已成功购买 1 门课程! 
           你还可以加入QQ群 <span>747556033</span> 学习交流
        </div>
      </div>
      <div class="order-info">
         <b>付款时间: </b><span>2019/04/02 10:27</span>
         <b>付款金额: </b><span >0</span>
         <b>课程信息: </b><span><span>《Pycharm使用秘籍》</span></span>
</div>
      <div class="wechat-code">
        <img src="../../static/images/server.cf99f78.png" alt="" class="er">
        <img src="../../static/images/tan.svg" alt="">重要! 微信扫码关注获得学习通知
&课程更新提醒!否则将严重影响学习进度和课程体验! 
      </div>
      <div class="study">
        <span>立即学习</span>
      </div>
   </div>
   <Footer/>
```

```
</div>
</template>
<script>
  import Header from "./common/Header"
  import Footer from "./common/Footer"
  export default{
    name: "Success",
    data(){
      return {
        current_page:0,
      };
    },
    components:{
      Header,
      Footer,
   }
  }
</script>
<style scoped>
.success{
 padding-top: 80px;
}
.main{
    height: 100%;
    padding-top: 25px;
    padding-bottom: 25px;
    margin: 0 auto;
   width: 1200px;
   background: #fff;
}
.main .title{
    display: flex;
    -ms-flex-align: center;
    align-items: center;
    padding: 25px 40px;
   border-bottom: 1px solid #f2f2f2;
}
.main .title .success-tips{
   box-sizing: border-box;
}
.title img{
   vertical-align: middle;
   width: 60px;
   height: 60px;
   margin-right: 40px;
}
.title .success-tips{
    box-sizing: border-box;
.title .tips1{
    font-size: 22px;
```

```
color: #000;
}
.title .tips2{
   font-size: 16px;
    color: #4a4a4a;
    letter-spacing: 0;
    text-align: center;
    margin-top: 10px;
}
.title .tips2 span{
    color: #ec6730;
}
.order-info{
    padding: 25px 48px;
    padding-bottom: 15px;
    border-bottom: 1px solid #f2f2f2;
}
.order-info p{
  font-family: PingFangSC-Regular;
    display: -ms-flexbox;
    display: flex;
   margin-bottom: 10px;
    font-size: 16px;
}
.order-info p b{
  font-weight: 400;
  color: #9d9d9d;
  white-space: nowrap;
}
.wechat-code{
    display: flex;
    -ms-flex-align: center;
    align-items: center;
    padding: 25px 40px;
    border-bottom: 1px solid #f2f2f2;
}
.wechat-code>img{
   width: 100px;
    height: 100px;
    margin-right: 15px;
}
.wechat-code p{
    font-family: PingFangSC-Regular;
    font-size: 14px;
    color: #d0021b;
    display: -ms-flexbox;
    display: flex;
    -ms-flex-align: center;
    align-items: center;
}
.wechat-code p>img{
   width: 16px;
    height: 16px;
```

```
margin-right: 10px;
}
.study{
      padding: 25px 40px;
}
.study span{
  display: block;
  width: 140px;
  height: 42px;
  text-align: center;
  line-height: 42px;
  cursor: pointer;
  background: #ffc210;
  border-radius: 6px;
  font-family: PingFangSC-Regular;
  font-size: 16px;
 color: #fff;
</style>
```

后端接受支付结果

支付宝会返回的参数如下列表:

```
http://127.0.0.1:8080/success?charset=utf-8&
out_trade_no=201904021708000000010976&
method=alipay.trade.page.pay.return&
total_amount=1206.44&
sign=XKJG5826fH%2F9%2B3jCWw2ODj1c%2FuGLfqmr5RnimSAqrh%2B5bFkWcbLDh5V6VYtMqCpwnYp3FuGPqE
eUeRO6WK62Qz0Q5nQGOA394IdxPfTOzry7PXuwYf41PCbDq53yg7vCYrobz4Tt8uajeADJLJwIsL%2F%2B88vbD
EISUDUujL4442k13oLh3EDD8DxZc2LLsv1Z%2FEFGJMfcTA47A4T7qmjB%2BbLKJetZZBISdt9RDL0q8A%2BAfb
8B3Ux1nq%2F0EiNGiwI]wC1pvUCHK2UXMJw3kmgU9P9Zoujrj4ER28oieQt6Rt4gQXeah5uYtAMkftwfzpiyu%2
FjUkr6iRx%2B4mP5IFz4Uew%3D%3D&
trade_no=2019040222001439881000005802&
auth_app_id=2016091600523592&
version=1.0&
app_id=2016091600523592&
sign_type=RSA2&
seller_id=2088102175868026&
timestamp=2019-04-02%2017%3A13%3A15
```

前端把地址栏上面返回的同步支付结果转发给服务端

```
<template>
  <div class="success">
    <Header :current_page="current_page"/>
    <div class="main">
        <div class="title">
```

```
<img src="../../static/images/right.svg" alt="">
        <div class="success-tips">
            您已成功购买 {{result.length}} 门课程! 
            你还可以加入QQ群 <span>747556033</span> 学习交流
        </div>
      </div>
       <div class="order-info">
          <b>付款时间: </b><span>{{result.paytime}}</span>
          <b>付款金额: </b><span >{{result.price}}</span>
          <b>课程信息: </b><span><span> 《{{result.info}}》</span>
</span>
      </div>
      <div class="wechat-code">
        <img src="../../static/images/server.cf99f78.png" alt="" class="er">
        <img src="../../static/images/tan.svg" alt="">重要! 微信扫码关注获得学习通知
&课程更新提醒!否则将严重影响学习进度和课程体验! 
      </div>
      <div class="study">
        <span>立即学习</span>
      </div>
   </div>
   <Footer/>
 </div>
</template>
<script>
 import Header from "./common/Header"
 import Footer from "./common/Footer"
 export default{
   name: "Success",
   data(){
     return {
      token: sessionStorage.token | localStorage.token,
      current_page:0,
      result:{},
    };
   },
   components:{
    Header,
     Footer,
   },
   created(){
     // 页面刷新时,最开始时候要把支付宝服务器的返回get参数结果提交给后端
     // 后端需要根据这结果修改订单的状态
     this.$axios.get("http://127.0.0.1:8000/pay/result"+location.search,{
        headers: {
            'Authorization': 'JWT ' + this.token
        },
        responseType: 'json',
      }).then(response=>{
        this.result = response.data
     }).catch(error=>{
        console.log(error.response);
```

```
})
    }
 }
</script>
<style scoped>
.success{
  padding-top: 80px;
}
.main{
    height: 100%;
    padding-top: 25px;
    padding-bottom: 25px;
    margin: 0 auto;
   width: 1200px;
   background: #fff;
}
.main .title{
    display: flex;
    -ms-flex-align: center;
    align-items: center;
    padding: 25px 40px;
    border-bottom: 1px solid #f2f2f2;
}
.main .title .success-tips{
    box-sizing: border-box;
}
.title img{
   vertical-align: middle;
    width: 60px;
   height: 60px;
   margin-right: 40px;
}
.title .success-tips{
    box-sizing: border-box;
}
.title .tips1{
    font-size: 22px;
    color: #000;
.title .tips2{
    font-size: 16px;
    color: #4a4a4a;
    letter-spacing: 0;
    text-align: center;
    margin-top: 10px;
}
.title .tips2 span{
    color: #ec6730;
}
.order-info{
    padding: 25px 48px;
    padding-bottom: 15px;
```

```
border-bottom: 1px solid #f2f2f2;
}
.order-info p{
 font-family: PingFangSC-Regular;
    display: -ms-flexbox;
    display: flex;
    margin-bottom: 10px;
    font-size: 16px;
}
.order-info p b{
  font-weight: 400;
  color: #9d9d9d;
  white-space: nowrap;
}
.wechat-code{
    display: flex;
    -ms-flex-align: center;
    align-items: center;
    padding: 25px 40px;
    border-bottom: 1px solid #f2f2f2;
}
.wechat-code>img{
    width: 100px;
    height: 100px;
    margin-right: 15px;
}
.wechat-code p{
    font-family: PingFangSC-Regular;
    font-size: 14px;
    color: #d0021b;
    display: -ms-flexbox;
    display: flex;
    -ms-flex-align: center;
    align-items: center;
.wechat-code p>img{
   width: 16px;
    height: 16px;
    margin-right: 10px;
.study{
      padding: 25px 40px;
}
.study span{
  display: block;
  width: 140px;
 height: 42px;
  text-align: center;
  line-height: 42px;
  cursor: pointer;
  background: #ffc210;
  border-radius: 6px;
  font-family: PingFangSC-Regular;
```

```
font-size: 16px;
color: #fff;
}
</style>
```

修改订单结果

```
from datetime import datetime
from rest_framework import status
from rest_framework.permissions import IsAuthenticated
from rest_framework.response import Response
from rest_framework.views import APIView
from alipay import AliPay
from django.conf import settings
from decimal import Decimal
from orders.models import Order
class PaymentAPIView(APIView):
   permission_classes = [IsAuthenticated]
   def get(self,request,pk):
       """生成支付链接的地址"""
       try:
           order = Order.objects.get(pk=pk)
       except Order.DoesNotExist():
           return Response({"message":"当前订单不存
在!"},status=status.HTTP_400_BAD_REQUEST)
       alipay = AliPay(
           appid=settings.ALIPAY_APP_ID,
           app_notify_url=None, # 默认回调url
           # 应用私钥
           app_private_key_path=settings.APP_PRIVATE_KEY_PATH,
           # 支付宝的公钥,
           alipay_public_key_path=settings.ALIPAY_PUBLIC_KEY_PATH,
           sign_type="RSA2", # 密码加密的算法
           # 开发时属于调试模式
           debug = settings.ALIPAY_DEBUG # 默认False
       )
       # 生成参数
       order_string = alipay.api_alipay_trade_page_pay(
           out_trade_no=order.order_number,
           total_amount=float(order.total_price), # 订单价格,单位:元 / RMB
           subject=order.order_desc,
                                      # 订单标题
           return_url=settings.ALIPAY_RETURN_URL,
           notify_url=settings.ALIPAY_NOTIFY_URL # 可选, 不填则使用默认notify url
       )
       # 拼接成完整的链接地址
       url = settings.APIPAY_GATEWAY + "?" + order_string
```

```
return Response({"url":url},status=status.HTTP_200_0K)
class PayResultAPIView(APIView):
   def get(self,request):
       """处理get返回结果的数据"""
       # 接受数据
       data = request.query_params.dict()
       print(data)
       # sign 不能参与签名验证
       signature = data.pop("sign")
       # print(ison.dumps(data))
       # print(signature)
       alipay = AliPay(
           appid=settings.ALIPAY_APP_ID,
           app_notify_url=None, # 默认回调url
           # 应用私钥
           app_private_key_path=settings.APP_PRIVATE_KEY_PATH,
           # 支付宝的公钥,
           alipay_public_key_path=settings.ALIPAY_PUBLIC_KEY_PATH,
           sign_type="RSA2", # 密码加密的算法
           # 开发时属于调试模式
           debug = settings.ALIPAY_DEBUG # 默认False
       )
       # verify验证支付结果,布尔值
       success = alipay.verify(data, signature)
       if success:
           # 支付成功
           order = Order.objects.get(order_number=data.get("out_trade_no"))
           order_order_status = 1 # 修改订单状态
           order.pay_time = datetime.now().strftime("%Y-%m-%d %H:%M:%S")
           order.save()
           return Response({
               "length":order.order_course.count(),
               "paytime": order.pay_time,
               "price":order.total_price,
               "info":order.order_desc,
           },status=status.HTTP_200_OK)
       return Response({"message":"订单没有变化"})
   def post(self,request):
       """提供给支付宝发送post数据"""
       # 参考上面的代码实现
       # 接受数据
       data = request.data.dict()
       # sign 不能参与签名验证
       signature = data.pop("sign")
```

```
# print(json.dumps(data))
# print(signature)
alipay = AliPay(
   appid=settings.ALIPAY_APP_ID,
    app_notify_url=None, # 默认回调url
    # 应用私钥
   app_private_key_path=settings.APP_PRIVATE_KEY_PATH,
    # 支付宝的公钥,
   alipay_public_key_path=settings.ALIPAY_PUBLIC_KEY_PATH,
    sign_type="RSA2", # 密码加密的算法
    # 开发时属于调试模式
   debug=settings.ALIPAY_DEBUG # 默认False
# verify验证支付结果,布尔值
success = alipay.verify(data, signature)
if success:
   # 支付成功
   order = Order.objects.get(order_number=data.get("out_trade_no"))
   order.order_status = 1 # 修改订单状态
   order.pay_time = datetime.now().strftime("%Y-%m-%d %H:%M:%S")
   order.save()
    return Response({
       "length": order.order_course.count(),
       "paytime": order.pay_time,
        "price": order.total_price,
       "info": order.order_desc,
    }, status=status.HTTP_200_0K)
return Response({"message": "订单没有变化"})
```