day02 后台管理&定时任务

1. 专场管理

```
class Auction(models.Model):
   拍卖系列
    .....
   status_choices = (
       (1, '未开拍'),
       (2, '预展中'),
       (3, '拍卖中'),
       (4, '已结束')
    )
    status = models.PositiveSmallIntegerField(verbose_name='状态',
choices=status_choices, default=1)
    title = models.CharField(verbose_name='标题', max_length=32)
    cover = models.FileField(verbose_name='封面', max_length=128)
    video = models.CharField(verbose_name='预览视频', max_length=128,
null=True, blank=True)
    preview_start_time = models.DateTimeField(verbose_name='预展开始时间')
    preview_end_time = models.DateTimeField(verbose_name='预展结束时间')
    auction_start_time = models.DateTimeField(verbose_name='拍卖开始时间')
   auction_end_time = models.DateTimeField(verbose_name='拍卖结束时间')
    deposit = models.PositiveIntegerField(verbose_name='全场保证金',
default=1000)
    total_price = models.PositiveIntegerField(verbose_name='成交额', null=True,
blank=True)
    goods_count = models.PositiveIntegerField(verbose_name='拍品数量',
default=0)
    bid_count = models.PositiveIntegerField(verbose_name='出价次数', default=0)
    look_count = models.PositiveIntegerField(verbose_name='围观次数',
default=0)
    create_time = models.DateTimeField(verbose_name='创建时间',
auto_now_add=True)
    class Meta:
       verbose_name_plural = '拍卖系列'
   def __str__(self):
```

1.1 专场列表

小茶书平台 拍卖管理 Link

拍卖专场列表



封面	专场	预展时间	拍卖时间	状态	操作
	13	2020-02-11 08:12	2020-02-11 08:12	未开拍	编辑 删除
	12	2020-02-06 18:30	2020-02-06 18:30	未开拍	编辑 删除
	销售主管	2020-02-06 18:30	2020-02-06 18:30	未开拍	编辑 删除
	第二场 贵和祥茶道专场	2019-12-26 09:20	2019-12-26 09:20	拍卖中	编辑 删除
	第一场 贵和祥茶道专场	2019-12-26 09:19	2019-12-26 09:19	预展中	編辑 删除

```
url(r'^auction/list/$', auction.auction_list, name='auction_list'),
```

```
def auction_list(request):
    """
    拍卖系列列表
    :param request:
    :return:
    """
    queryset = models.Auction.objects.all().order_by('-id')
    return render(request, 'web/auction_list.html', {'queryset': queryset})
```

```
<thead>
     封面
       专场
       预展时间
       拍卖时间
       状态
       操作
     </thead>
     {% for item in queryset %}
       <img style="height: 60px;" src="{{ item.cover }}">
```

```
<a href="{% url 'auction_item_list' auction_id=item.id"
%}">{{ item.title }}</a>
                  {{ item.preview_start_time|date:"Y-m-d H:i" }}
                  {{ item.auction_start_time|date:"Y-m-d H:i" }}
                  {{ item.get_status_display }}
                  <div class="btn-group btn-group-xs" role="group" aria-</pre>
label="Small button group">
                         <a class="btn btn-default" href="{% url</pre>
'auction_edit' pk=item.id %}">编辑</a>
                         <a class="btn btn-danger"</pre>
                            onclick="removeRow(this,'{% url
'auction_delete' pk=item.id %}')">删除</a>
                      </div>
                  {% endfor %}
```

1.2 添加专场

小茶书平台	拍卖管理						Link
拍卖专场	I						保存
	标题			封面	选择文件	未选择任何文件	
预展表	开始时间			预展结束时间			
拍卖牙	开始时间			拍卖结束时间			
全比	汤保证金	1000					

```
#!/usr/bin/env python
# -*- coding:utf-8 -*-
from qcloud_cos import CosConfig
from qcloud_cos import CosS3Client

def upload_file(file_object, key, bucket='auction-1251317460', region="ap-
chengdu"):
    secret_id = 'AKIDW3Rgszw84ylQxMzNn7KOJ6kFPSL5c5MU' # 替换为用户的 secretId
    secret_key = 'GQSMXmtsjROQhuIalzTp250nU6digZSD' # 替换为用户的 secretKey
    token = None # 使用临时密钥需要传入 Token, 默认为空, 可不填
    scheme = 'https' # 指定使用 http/https 协议来访问 COs, 默认为 https, 可不填
    config = CosConfig(Region=region, SecretId=secret_id,

SecretKey=secret_key, Token=token, Scheme=scheme)
    # 2. 获取客户端对象
    client = CosS3client(config)
```

```
url(r'^auction/add/$', auction.auction_add, name='auction_add'),
```

```
class BoostrapModelForm(ModelForm):
   exclude_bootstrap_class = []
   def __init__(self, *args, **kwargs):
       super().__init__(*args, **kwargs)
       for name, field in self.fields.items():
           if name in self.exclude_bootstrap_class:
           old_class = field.widget.attrs.get('class', "")
           field.widget.attrs['class'] = old_class + ' form-control'
class AuctionModelForm(BoostrapModelForm):
   exclude_bootstrap_class = ['cover',]
   class Meta:
       model = models.Auction
       exclude = ['status', 'total_price', 'goods_count', 'bid_count',
'look_count', 'video']
   def clean(self):
       cleaned_data = self.cleaned_data
       # 没有上传文件
       ModelForm的表单验证流程:
           1. 调用内置的校验
           2.调用每个字段的钩子
           3.调用clean方法
       .....
       # 获取用户提交的文件对象
       cover_file_object = cleaned_data.get('cover')
       if not obj:
           return cleaned_data
       # 如果是编辑文件(未修改)
       from django.db.models.fields.files import FieldFile
       from django.core.files.uploadedfile import InMemoryUploadedFile
       if isintance(cover_file_object,FieldFile):
           return cleaned_data
       # 把对象上传到cos, 返回地址
```

```
ext = cover_file_object.name.rsplit('.', maxsplit=1)[-1]
    file_name = "{0}.{1}".format(str(uuid.uuid4()), ext)
    cleaned_data['cover'] = upload_file(cover_file_object, file_name)
    return cleaned_data

def auction_add(request):
    if request.method == 'GET':
        form = AuctionModelForm()
        return render(request, 'web/auction_form.html', {'form': form})
    form = AuctionModelForm(data=request.POST, files=request.FILES)
    if form.is_valid():
        form.save()
        return redirect('auction_list')
    return render(request, 'web/auction_form.html', {'form': form})
```

1.3.编辑专场

小茶书平台 拍卖管理	1			Link
拍卖专场				保存
标题	t3	封面	目前: https://auction-1251317460.cos.ap- chengdu.myqcloud.com/c2501ea5-495a-4f84-bc40- a79e1bbe3e07.png 修改: 选择文件 未选择任何文件	
预展开始时间	2020/02/11 08:12	预展结束时间	2020/02/11 08:12	
拍卖开始时间	2020/02/11 08:12	拍卖结束时间	2020/02/11 08:12	
全场保证金	1000			
if requ foo ret	n_object = models.Auction.objuest.method == 'GET': rm = AuctionModelForm(instanturn render(request, 'web/auctionModelForm(data=request)	ce=auction_c	object) ntml', {'form': form})	
	uction_object)	·	,	
	n.is_valid():			
	rm.save() turn redirect('auction_list')		
	render(request, 'web/auction		', {'form': form})	
_	'web/layout.html' %}			
{% block cs	•			

```
<link rel="stylesheet" href="{% static 'web/datetimepicker/bootstrap-</pre>
datetimepicker.min.css' %}">
    <style>
        input[type='file'] {
            min-height: 34px;
        }
    </style>
{% endblock %}
{% block content %}
    <div class="container-fluid">
        <form method="post" novalidate enctype="multipart/form-data">
            {% csrf_token %}
            <div class="panel panel-default">
                <div class="panel-heading clearfix">拍卖专场
                     <input type="submit" class="btn btn-success btn-xs"</pre>
value="保存" style="float: right;">
                </div>
                <div class="panel-body">
                    <div class="form-horizontal clearfix">
                         {% for field in form %}
                             <div class="col-sm-6">
                                 <div class="form-group">
                                     <label for="{{ field.id_for_label }}"</pre>
                                             class="col-sm-3 control-label">{{
field.label }}</label>
                                     <div class="col-sm-9">
                                         {{ field }}
                                         <span style="color: red;">{{
field.errors.0 }}</span>
                                     </div>
                                 </div>
                             </div>
                         {% endfor %}
                    </div>
                </div>
            </div>
        </form>
    </div>
{% endblock %}
{% block js %}
    <script src="{% static 'web/datetimepicker/bootstrap-</pre>
datetimepicker.min.js' %}"></script>
    <script src="{% static 'web/datetimepicker/bootstrap-datetimepicker.zh-</pre>
CN.js' %}"></script>
    <script>
        Date.prototype.Format = function (fmt) { //author: meizz
```

```
var o = {
                "M+": this.getMonth() + 1, //月份
                "d+": this.getDate(), //⊟
                "h+": this.getHours(), //小时
                "m+": this.getMinutes(), //分
                "s+": this.getSeconds(), //秒
                "q+": Math.floor((this.getMonth() + 3) / 3), //季度
                "S": this.getMilliseconds() //毫秒
            };
            if (/(y+)/.test(fmt)) fmt = fmt.replace(RegExp.$1,
(this.getFullYear() + "").substr(4 - RegExp.$1.length));
            for (var k in o)
                if (\text{new RegExp}("(" + k + ")").test(fmt)) fmt =
fmt.replace(RegExp.$1, (RegExp.$1.length == 1) ? (o[k]) : (("00" +
o[k]).substr(("" + o[k]).length)));
            return fmt;
        };
        $(function () {
            initDatepicker();
        });
        function initDatepicker() {
$('#id_preview_start_time,#id_preview_end_time,#id_auction_start_time,#id_auc
tion_end_time').datetimepicker({
                language: "zh-CN",
                minView: "hour",
                sideBySide: true,
                format: 'yyyy-mm-dd hh:ii',
                bootcssver: 3,
                startDate: new Date(),
                autoclose: true
            })
        }
    </script>
{% endblock %}
```

1.4 删除专场

```
{{ item.preview_start_time|date:"Y-m-d H:i" }}
                  {{ item.auction_start_time|date:"Y-m-d H:i" }}
                  {{ item.get_status_display }}
                  <div class="btn-group btn-group-xs" role="group" aria-</pre>
label="Small button group">
                          <a class="btn btn-default" href="{% url</pre>
'auction_edit' pk=item.id %}">编辑</a>
                         <a class="btn btn-danger"</pre>
                            onclick="removeRow(this,'{% url
'auction_delete' pk=item.id %}')">删除</a>
                      </div>
                  {% endfor %}
```

```
<script>
       function removeRow(ths, url) {
           var result = confirm("确认删除?");
           if (result) {
               $.ajax({
                   url: url,
                   type: 'GET',
                   dataType: "JSON",
                   success: function (arg) {
                       if (arg.status) {
                           $(ths).parent().parent().remove();
                       } else {
                           alert('删除失败');
                       }
                   }
               })
           }
       }
   </script>
```

```
def auction_delete(request, pk):
   models.Auction.objects.filter(id=pk).delete()
   return JsonResponse({'status': True})
```

1.5 datetimepicker.js

是一个结合BootStrap的组件,用于实现选择时间。

基本应用步骤:

• 引入css和js文件

● html标签

```
<input id='i1' />
```

• 应用到到标签

```
$('#i1,#i2').datetimepicker({
    language: "zh-CN",
    minView: "hour",
    sideBySide: true,
    format: 'yyyy-mm-dd hh:ii',
    bootcssVer: 3,
    startDate: new Date(),
    autoclose: true
})
```

扩展: js中对时间进行格式化

```
Date.prototype.Format = function (fmt) { //author: meizz
            var o = {
                "M+": this.getMonth() + 1, //月份
                "d+": this.getDate(), //⊟
                "h+": this.getHours(), //小时
                "m+": this.getMinutes(), //分
                "s+": this.getSeconds(), //秒
                "q+": Math.floor((this.getMonth() + 3) / 3), //季度
                "S": this.getMilliseconds() //毫秒
            };
            if (/(y+)/.test(fmt)) fmt = fmt.replace(RegExp.$1,
(this.getFullYear() + "").substr(4 - RegExp.$1.length));
            for (var k in o)
                if (\text{new RegExp}("(" + k + ")").test(fmt)) fmt =
fmt.replace(RegExp.$1, (RegExp.$1.length == 1) ? (o[k]) : (("00" +
o[k]).substr(("" + o[k]).length)));
            return fmt;
        };
```

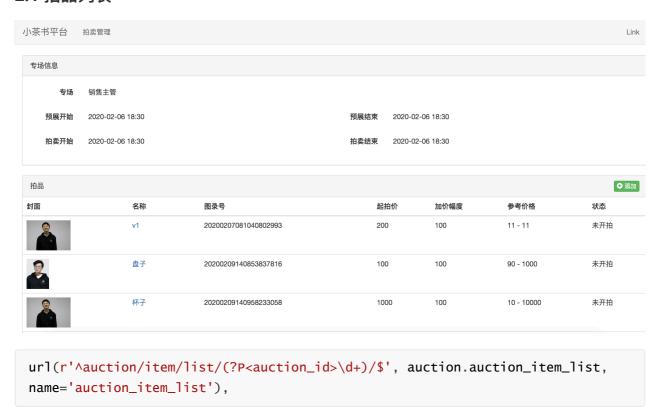
```
Date.prototype.format = function (fmt){
    return 123
}
var ctime = new Date()

// ctime -> Tue Feb 11 2020 09:50:27 GMT+0800 (中国标准时间)
var result = ctime.format('yyyy-MM-dd')
console.log(result);
```

应用场景:会议室预定系统【metting.zip】

2. 拍品管理

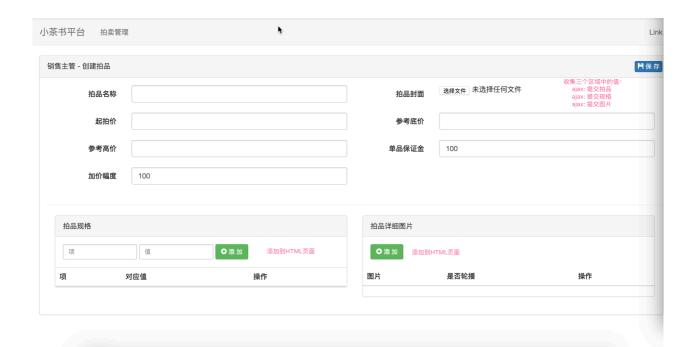
2.1 拍品列表



```
def auction_item_list(request, auction_id):
    auction_object = models.Auction.objects.filter(id=auction_id).first()
    item_list = models.AuctionItem.objects.filter(auction=auction_object)
    context = {
        'auction_object': auction_object,
        'item_list': item_list
}
```

return render(request, 'web/auction_item_list.html', context)

2.2 添加拍品&规格&图片



```
\label{lem:constraint} $$ url(r'^auction/item/add/(?P<auction_id>\d+)/$', auction.auction_item_add, $$ name='auction_item_add'), $$
```

```
class AuctionItemAddModelForm(BootStrapModelForm):
   exclude_bootstrap_class = ['cover']
   class Meta:
        model = models.AuctionItem
        exclude = ['auction', 'uid', 'status', 'deal_price', 'video',
'bid_count', 'look_count']
   def clean(self):
        cleaned data = self.cleaned data
        # 上传文件
        cover_file_object = cleaned_data.get('cover')
        if not cover_file_object or isinstance(cover_file_object, FieldFile):
            return cleaned_data
        ext = cover_file_object.name.rsplit('.', maxsplit=1)[-1]
        file_name = "{0}.{1}".format(str(uuid.uuid4()), ext)
        cleaned_data['cover'] = upload_file(cover_file_object, file_name)
        return cleaned_data
@csrf_exempt
def auction_item_add(request, auction_id):
    auction_object = models.Auction.objects.filter(id=auction_id).first()
    if request.method == 'GET':
        form = AuctionItemAddModelForm()
        context = {
            'form': form,
            'auction_object': auction_object
        }
```

```
return render(request, 'web/auction_item_add.html', context)
    form = AuctionItemAddModelForm(data=request.POST, files=request.FILES)
   if form.is_valid():
        form.instance.auction = auction_object
        form.instance.uid = datetime.datetime.now().strftime('%Y%m%d%H%M%S%f')
        instance = form.save()
        return JsonResponse({
            'status': True,
            'data': {
                'detail_url': reverse('auction_item_detail_add', kwargs=
{'item_id': instance.id}),
                'image_url': reverse('auction_item_image_add', kwargs=
{'item_id': instance.id}),
                'list_url': reverse('auction_item_list', kwargs={'auction_id':
auction_id})
        })
    return JsonResponse({'status': False, 'errors': form.errors})
```

```
<a class="btn btn-primary btn-xs" style="float: right;" id="btnSave">
     <span class="glyphicon glyphicon-floppy-disk" aria-hidden="true"></span>
保存
</a>
<form id="itemForm">
    {% for field in form %}
        <div class="col-sm-6">
            <div class="form-group">
                <label for="{{ field.id_for_label }}"</pre>
                       class="col-sm-3 control-label">{{ field.label }}
</label>
                <div class="col-sm-9" style="position: relative;">
                    {{ field }}
                    <span class="field-error">{{ field.errors.0 }}</span>
                </div>
            </div>
        </div>
    {% endfor %}
</form>
$(function () {
    bindSave();
}):
function bindSave() {
    $('#btnSave').click(function () {
```

```
$('.field-error').text("");
        // 加载层
        $('#loading').removeClass('hide');
        SUB_HANDLE_COUNT = 0;
        var itemFormData = new FormData($('#itemForm')[0]);
        $.ajax({
            type: 'POST',
            url: '{% url "auction_item_add" auction_id=auction_object.id %}',
            data: itemFormData,
            cache: false,
            contentType: false,
            processData: false,
            dataType: 'JSON',
            success: function (res) {
                if (!res.status) {
                    $('#loading').addClass('hide');
                    $.each(res.errors, function (key, text) {
                        $('#itemForm').find('[name="' + key +
'"]').next().text(text);
                    });
                    return
                }
                // 创建规格
                // createSpecification(res.data.detail_url,
res.data.list_url);
                // 创建图片
                // createImage(res.data.image_url, res.data.list_url);
        })
   });
}
```

2.3.1 规格

● 添加按钮 & 删除按钮

```
$('#btnSave').click()
注意: 删除按钮需要用事件委托进行绑定时间。
$('table').on('click','delete',function(){
})
```

• 收集规格的所有数据

● 提交到后台

```
$.ajax({
    data:JSON.stringfy(detail_list)
})
```

• django后台接收数据

```
data_list= json.loads(request.body.decode('utf-8'))
```

2.3.2 图片处理

- 添加图片
- 选择图片 & 预览

request.POST.getlist('oo')

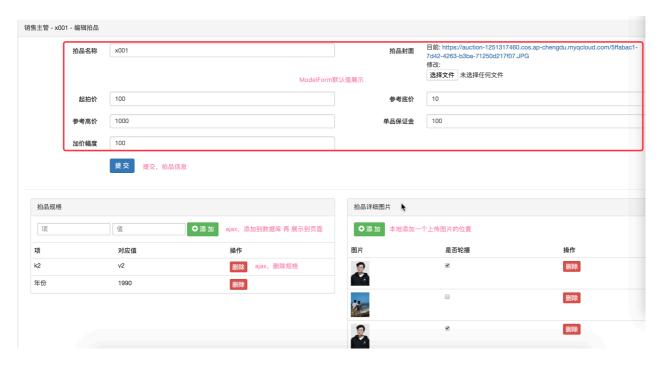


var formData = new FormData(\$('#imageForm')[0]);

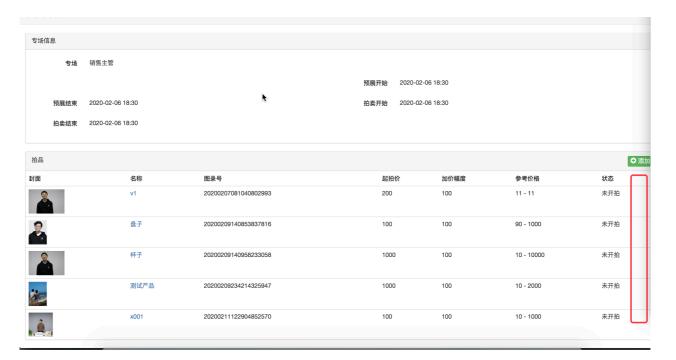
```
$.ajax({
       data:formData,
   })
   def upload_image(request):
       img_object_list = request.Files.getlist('img') #
[alex,wupeiq,oldbo]
                                                      # ['1','','1']
       oo_list = request.POST.getlist('oo')
   @csrf_exempt
   def auction_item_image_add(request, item_id):
       show_list = request.POST.getlist('show')
       image_object_list = request.FILES.getlist('img')
       orm_object_list = []
       for index in range(len(image_object_list)):
           image_object = image_object_list[index]
           if not image_object:
               continue
           ext = image_object.name.rsplit('.', maxsplit=1)[-1]
           file_name = "{0}.{1}".format(str(uuid.uuid4()), ext)
           cos_path = upload_file(image_object, file_name)
           orm_object_list.append(models.AuctionItemImage(img=cos_path,
item_id=item_id, carousel=bool(show_list[index])))
       if orm_object_list:
           models.AuctionItemImage.objects.bulk_create(orm_object_list)
       return JsonResponse({'status': True})
刘兵:
   拿到图片地址传到后台
   checkbox
   data = \Gamma
       {'k1':'图片地址','k2':True},
       {'k1':'图片地址','k2':True},
       {'k1':'图片地址','k2':True},
   ]
杨泽涛: 同上
朱凡宇:
   data = [
       {'k1':图片对象,'k2':True},
       {'k1':图片对象,'k2':True},
       {'k1':图片对象,'k2':True},
   $.ajax({
       data:JSON.stringfy(data)
   })
错误:
```

```
1. 如果ajax发送文件对象json无法处理。
2. ajax上传数据含有文件 FormData 对象。
   $.ajax({
       data:FormData对象
   })
3. ajax上传的数据没有文件时
   - 数据简单且value字符串或列表(无嵌套)
       $.ajax({
          data:{k1:123,k2:465}
       })
       request.POST
   - 嵌套的json格式数据
       $.ajax({
          data:JSON.stringfy({k1:[11,223],k2:[3,2,1,{'k9':666}})
       })
       request.body
```

2.3 编辑拍品&规格&图片



2.4 删除拍品&规格&图片



2.5 知识点

● 通过ajax上传文件

```
注意: 之前页面向后台提交时通过Form表单实现。 现在是通过ajax向后台发送表单+文件数据。
<form id='mmm'>
   <input type="text" name='user' id='f1'/>
   <input type="file" name='avatar' id='f2'/>
   <input type="checkbox" />
</form>
/*
var formData = new FormData();
formData.append('k1',$('#f1').val())
formData.append('k2',$('#f2')[0].files[0])
*/
// 找到mmm标签中所有的字段并构成成适合的形式append到FormData对象。
// 注意:如果表单中有checbox或radio标签且未选中,则FormData不会构造到自己的数据中。
var formData = new FormData($('#mmm')[0]);
$.ajax({
   url:'..',
   type: "post",
   data:formData,
   cache: false,
   contentType: false,
   processData: false,
   success:function(res){
       console.log(res)
   }
})
```

• 好看的上传按钮 & 图片预览 通过双层结构实现

```
上层: input type=file标签,透明度0
下层: img标签
```

```
<style>
    .file-view {
        height: 80px;
        width: 80px;
        padding: 2px;
        border: 1px dotted #dddddd;
        position: relative;
    }
    .file-view .view-file {
        position: absolute;
        width: 100%;
        height: 100%;
        opacity: 0;
        z-index: 1001
    }
    .file-view .view-img {
        height: 100%;
        width: 100%;
        border: 0;
        overflow: hidden;
    }
</style>
<div class="file-view">
    <input class="view-file" type="file" name="img">
    <img class="view-img" src="{% static 'web/images/default-image.png'</pre>
%}">
</div>
```

```
$(function () {
    bindChangeImageFile();
});
function bindChangeImageFile() {
    $('#areaImage').on('change', '.view-file', function () {
      var fileObject = $(this)[0].files[0];
      var blob = window.URL.createObjectURL(fileObject);

    $(this).next().attr('src', blob);
    $(this).next().load(function () {
        window.URL.revokeObjectURL(blob);
    })
})
```

}

扩展: 预览的实现基本上由 本地预览 + 先上传后预览。

https://www.cnblogs.com/wupeiqi/articles/9322297.html

3. 开发任务

自己新创建一个django项目,并且在django项目中继承celery。

• url1, 创建一个立即执行的任务。

```
result = x1.delay(1,4)
result.id
```

• url2, 创建一个 1分钟之后再执行 的任务。

```
result = x2.apply_async(args=[1, 3], eta=时间) # 注意: 时间必须utc时间 result.id
```

https://www.cnblogs.com/wupeiqi/articles/8796552.html