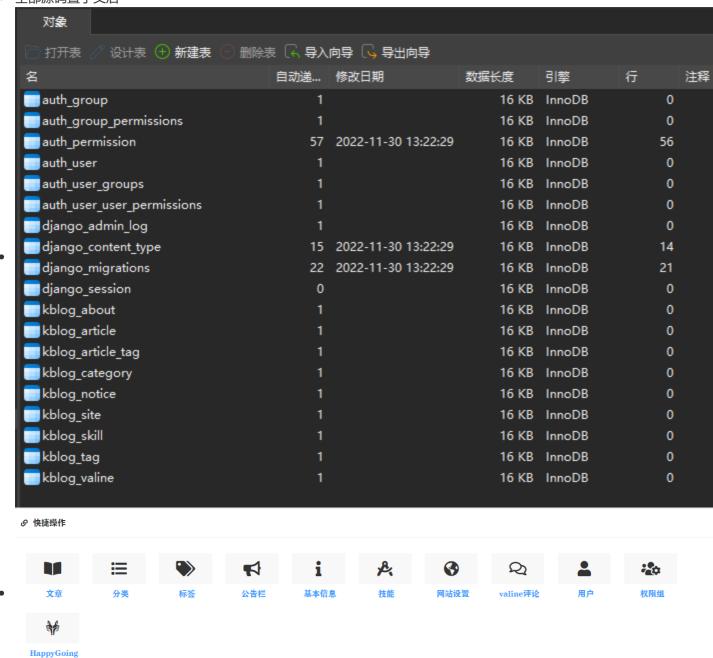
KylinBlog源码讲解-Part1

数据库模型的设计与建立

models.py

- models.py是DjangoMVC设计模式中最为关键的"M"层面,实现了与数据库的模型交互以及数据表的设计建立
- 上层APP_NAME为 kblog, 因此所创建的数据表的前缀名称为 kblog_
- 全部源码置于文后



文章分类模型Category

- 对应数据表-kblog Category
- 实现了文章分类这一功能

```
class Category(models.Model):
    '''文章分类'''
    name = models.CharField(max_length=20, verbose_name='分类名称')
    index = models.IntegerField(default=1, verbose_name='分类排序')
```

```
add_menu = models.BooleanField(default=False, verbose_name='添加到导航栏')
icon = models.CharField(max_length=30, default='fas fa-home', verbose_name='导航图标')

class Meta:
    verbose_name_plural = verbose_name = '分类'

# 统计分类对应文章数,并放入后台
    def get_items(self):
        return len(self.article_set.all())

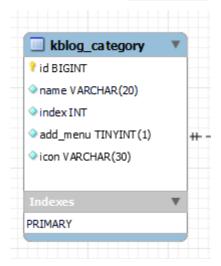
get_items.short_description = '文章数' # 设置后台显示表头

# 后台图标预览
    def icon_data(self): # 引入Font Awesome Free 5.11.1
        return format_html('<hl><i class="{}"></i></i></i></i></i>
icon_data.short_description = '图标预览'

def __str__(self):
    return self.name
```

- 各有实际意义字段解释如下:
 - o name:分类名称
 - o index:分类排序
- 定义了统计函数 get_items() 和后台图标预览规格化HTML函数 icon_data()

•





文章标签模型Tag

KylinBlog

- 对应 kblog_tag 数据表
- class Tag(models.Model):

```
name = models.CharField(max_length=20, verbose_name='标签名称')

class Meta:
    verbose_name = '标签'
    verbose_name_plural = verbose_name

# 统计分类对应文章数,并放入后台

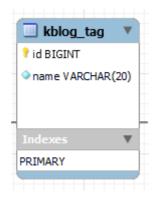
def get_items(self):
    return len(self.article_set.all())

get_items.short_description = '文章数' # 设置后台显示表头

def __str__(self):
    return self.name
```

- 只有一个字段 name -标签名称
- 实现了统计分类对应文章数函数 get_items()

•





文章模型Article

• 对应 kblog_article 数据表

```
# 文章更新时间。参数 auto_now=True 指定每次数据更新时自动写入当前时间
update_time = models.DateTimeField(auto_now=True, verbose_name='更新时间')
category = models.ForeignKey(Category, blank=True, null=True, verbose_name='文章分类',
on_delete=models.CASCADE) # 此处设置为一个文章只能属于一个类
tag = models.ManyToManyField(Tag, blank=True, verbose_name='文章标签')

class Meta:
    verbose_name = '文章'
    verbose_name_plural = verbose_name
    ordering = ('-add_time',) # 以创建时间倒序排列

def cover_preview(self):
    return format_html('<img src="{}" width="200px" height="150px"/>', self.cover, )

cover_preview.short_description = '文章封面预览'

def __str__(self):
    return self.title # 将文章标题返回
```

• title: 文章标题 CharField

● author:文章作者 默认值为李欢欢 CharField

desc: 文章描述 CharField

● cover:文章封面 URLField预览

● content: 文章详细内容 MDTextField 实现Markdown编写模式

• click_count: 文章阅读量活跃整型字段

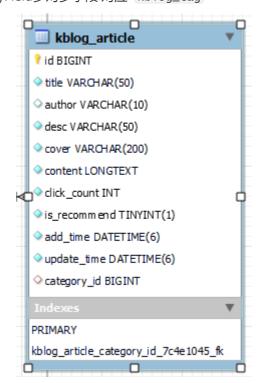
• is_recommend 是否为推荐文章 BooleanField

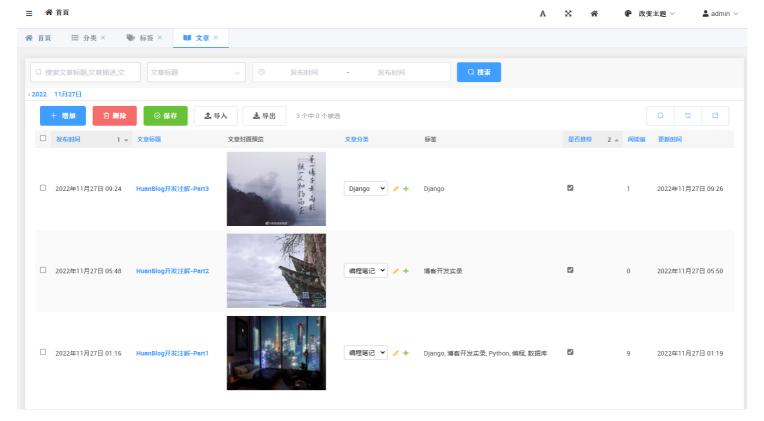
• add_time:文章创建时间 DateTimeField 默认取值为datetime.now

● update_time: 文章最后更新时间

• category: 文章对应分类名称 ForeignKey 对应 kblog_category

• tag:文章对应标签名称 ManyToManyField多对多字段 对应 kblog_tag





公告栏目Notice

• 对应 kblog_notice 数据表

```
class Notice(models.Model):
    '''公告栏'''
    title = models.CharField(max_length=30, verbose_name='公告栏标题')
    content = models.TextField(max_length=500, verbose_name='公告内容')
    icon = models.CharField(default='far fa-lightbulb', max_length=50, verbose_name='公告图标')

class Meta:
    verbose_name = verbose_name_plural = '公告栏'

def icon_data(self):
    return format_html('<hl><i class="{}"></hl>', self.icon) # 转化为<i class="{self.icon}"></i>
    icon_data.short_description = '图标预览'

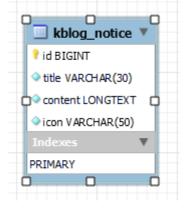
def __str__(self):
    return self.title
```

• title:公告栏标题 CharField

• content: 公告内容 TextField

• icon: 公告图标 CharField

•





文章评论模型Valine

• 对应 kblog_valine 数据表

Valine Valine

• 文章评论的功能通过使用 valine 富文本评论库实现

```
**Class Valine(models.Model):

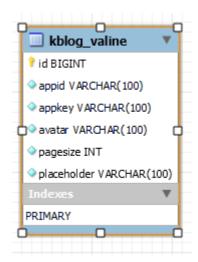
'''valine评论'''

appid = models.CharField(max_length=100, verbose_name='appId')
appkey = models.CharField(max_length=100, verbose_name='appKey')
avatar = models.CharField(default='', blank=True, max_length=100, verbose_name='avatar')
pagesize = models.IntegerField(default='10', verbose_name='pagesize')
placeholder = models.CharField(max_length=100, verbose_name='placeholder')

class Meta:
    verbose_name = 'valine评论'
    verbose_name = plural = verbose_name
```

• 分别对应配置申请好的 appid 和 appkey

•



•



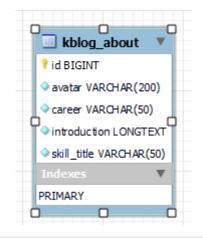
个人介绍模型About

```
class About(models.Model):
    '''关于'''
    avatar = models.URLField(verbose_name='头像')
    career = models.CharField(max_length=50, verbose_name='事业')
    introduction = models.TextField(verbose_name='介绍')
    skill_title = models.CharField(default='技能', max_length=50, verbose_name='技能标题')

class Meta:
    verbose_name_plural = verbose_name = '关于'

def avatar_admin(self):
    return format_html('<img src="{}" width="50px" height="50px" style="border-radius: 50%;"
/>', self.avatar, )

avatar_admin.short_description = '头像预览'
```





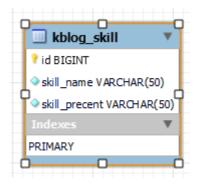
技能模型Skill

```
class skill(models.Model):
    """关于页技能"""
    skill_name = models.CharField(max_length=50, verbose_name='方向名')
    skill_precent = models.CharField(default='%', max_length=50, verbose_name='百分比')

class Meta:
    verbose_name_plural = verbose_name = '技能'

# 后台图标预览
def icon_data(self):
    return format_html('<h1><i class="{}"></i></h1>', self.social_icon)

icon_data.short_description = '图标预览'
```









站点页面配置Site

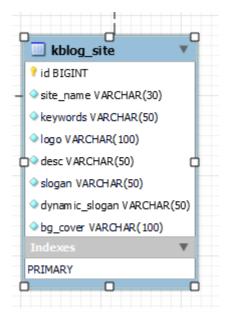
```
class Site(models.Model):
    """站点配置"""
    site_name = models.CharField(default='KylinBlog', max_length=30, verbose_name='网站名字')
    keywords = models.CharField(default='Keyword', max_length=50, verbose_name='网站关键词')
    logo = models.URLField(default='https://jwt1399.top/favicon.png', max_length=100,
verbose_name='网站logo')
    desc = models.CharField(max_length=50, verbose_name='网站描述')
    slogan = models.CharField(max_length=50, verbose_name='网站标语')
    dynamic_slogan = models.CharField(max_length=50, verbose_name='动态标语')
    bg_cover = models.URLField(default='http://119.23.243.154/image/Covteam-hack.jpg',
max_length=100,
                              verbose_name='背景图片')
    class Meta:
       verbose_name = '网站设置'
       verbose_name_plural = verbose_name
    def logo_preview(self): # logo预览
        return format_html('<img src="{}" width="40px" height="40px" alt="logo" />', self.logo)
```

```
logo_preview.short_description = 'logo预览'

def bgcover_preview(self): # 背景图片预览
    return format_html('<img src="{}" width="100px" height="80px" alt="bgcover" />',
self.bg_cover)

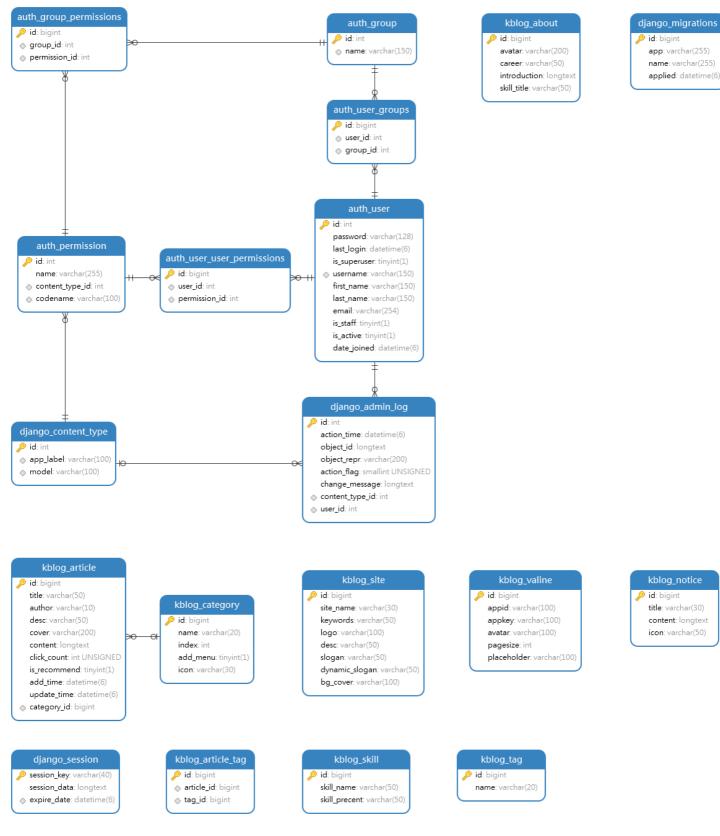
bgcover_preview.short_description = '首页背景预览'

def __str__(self):
    return self.site_name
```









完整源码

```
class Category(models.Model):
   '''文章分类'''
   name = models.CharField(max_length=20, verbose_name='分类名称')
   index = models.IntegerField(default=1, verbose_name='分类排序')
   add_menu = models.BooleanField(default=False, verbose_name='添加到导航栏')
   icon = models.CharField(max_length=30, default='fas fa-home', verbose_name='导航图标')
   class Meta:
       verbose_name_plural = verbose_name = '分类'
   # 统计分类对应文章数,并放入后台
   def get_items(self):
       return len(self.article_set.all())
   get_items.short_description = '文章数' # 设置后台显示表头
   # 后台图标预览
   def icon_data(self): # 引入Font Awesome Free 5.11.1
       return format_html('<h1><i class="{}"></i></h1>', self.icon) # 转化为<i class="{self.icon}">
</i>
   icon_data.short_description = '图标预览'
   def __str__(self):
       return self.name
1.1.1
文章标签模型
1.1.1
class Tag(models.Model):
   !!!标答!!!
   name = models.CharField(max_length=20, verbose_name='标签名称')
   class Meta:
       verbose_name = '标签'
       verbose_name_plural = verbose_name
   # 统计分类对应文章数,并放入后台
   def get_items(self):
       return len(self.article_set.all())
   get_items.short_description = '文章数' # 设置后台显示表头
   def __str__(self):
       return self.name
1.1.1
文章模型
1.1.1
class Article(models.Model):
   '''文章'''
   title = models.CharField(max_length=50, verbose_name='文章标题')
   author = models.CharField(max_length=10, verbose_name='作者', default='李欢欢', blank=True,
null=True)
```

```
desc = models.CharField(max_length=50, verbose_name='文章描述')
   cover = models.URLField(max_length=200, default='https://happygoing.oss-cn-
beijing.aliyuncs.com/img/Apartment-rain.png',
                          verbose_name='文章封面')
   content = MDTextField(verbose name='文章内容')
   click_count = models.PositiveIntegerField(default=0, verbose_name='阅读量')
   is_recommend = models.BooleanField(default=False, verbose_name='是否推荐')
   # 文章创建时间。参数 default=datetime.now 指定其在创建数据时将默认写入当前的时间
   add_time = models.DateTimeField(default=datetime.now, verbose_name='发布时间')
   # 文章更新时间。参数 auto_now=True 指定每次数据更新时自动写入当前时间
   update_time = models.DateTimeField(auto_now=True, verbose_name='更新时间')
   category = models.ForeignKey(Category, blank=True, null=True, verbose_name='文章分类',
on_delete=models.CASCADE) # 此处设置为一个文章只能属于一个类
   tag = models.ManyToManyField(Tag, blank=True, verbose_name='文章标签')
   class Meta:
       verbose_name = '文章'
       verbose_name_plural = verbose_name
       ordering = ('-add_time',) # 以创建时间倒序排列
   def cover_preview(self):
       return format_html('<img src="{}" width="200px" height="150px"/>', self.cover, )
   cover_preview.short_description = '文章封面预览'
   def __str__(self):
       return self.title # 将文章标题返回
...
公告栏目
class Notice(models.Model):
   !!!公告栏!!!
   title = models.CharField(max_length=30, verbose_name='公告栏标题')
   content = models.TextField(max_length=500, verbose_name='公告内容')
   icon = models.CharField(default='far fa-lightbulb', max_length=50, verbose_name='公告图标')
   class Meta:
       verbose_name = verbose_name_plural = '公告栏'
   def icon_data(self):
       return format_html('<h1><i class="{}"></i></h1>', self.icon) # 转化为<i class="{self.icon}">
</i>
   icon_data.short_description = '图标预览'
   def __str__(self):
       return self.title
评论模型 使用valine系统框架
1.1.1
# 评论模型的实现 使用valine系统调度完成
# 在后台配置Valine的appkey和appid
```

```
class Valine(models.Model):
    '''valine评论'''
   appid = models.CharField(max_length=100, verbose_name='appId')
   appkey = models.CharField(max_length=100, verbose_name='appKey')
   avatar = models.CharField(default='', blank=True, max_length=100, verbose_name='avatar')
   pagesize = models.IntegerField(default='10', verbose_name='pageSize')
   placeholder = models.CharField(max_length=100, verbose_name='placeholder')
   class Meta:
       verbose_name = 'valine评论'
       verbose_name_plural = verbose_name
1.1.1
作者介绍
1.1.1
class About(models.Model):
    111关于111
   avatar = models.URLField(verbose_name='头像')
   career = models.CharField(max_length=50, verbose_name='事业')
   introduction = models.TextField(verbose_name='介绍')
   skill_title = models.CharField(default='技能', max_length=50, verbose_name='技能标题')
       verbose_name_plural = verbose_name = '关于'
    def avatar_admin(self):
        return format_html('<img src="{}" width="50px" height="50px" style="border-radius: 50%;"
/>', self.avatar, )
   avatar_admin.short_description = '头像预览'
. . .
技能模型
class Skill(models.Model):
   """关于页技能"""
   skill_name = models.CharField(max_length=50, verbose_name='方向名')
   skill_precent = models.CharField(default='%', max_length=50, verbose_name='百分比')
   class Meta:
       verbose_name_plural = verbose_name = '技能'
   # 后台图标预览
   def icon_data(self):
        return format_html('<h1><i class="{}"></i></h1>', self.social_icon)
   icon_data.short_description = '图标预览'
1.1.1
站点页面配置数据表模型
```

```
class Site(models.Model):
   """站点配置"""
   site_name = models.CharField(default='KylinBlog', max_length=30, verbose_name='网站名字')
   keywords = models.CharField(default='Keyword', max_length=50, verbose_name='网站关键词')
   logo = models.URLField(default='https://jwt1399.top/favicon.png', max_length=100,
verbose_name='网站logo')
   desc = models.CharField(max_length=50, verbose_name='网站描述')
   slogan = models.CharField(max_length=50, verbose_name='网站标语')
   dynamic_slogan = models.CharField(max_length=50, verbose_name='动态标语')
   bg_cover = models.URLField(default='http://119.23.243.154/image/Covteam-hack.jpg',
max_length=100,
                              verbose_name='背景图片')
   class Meta:
       verbose_name = '网站设置'
       verbose_name_plural = verbose_name
   def logo_preview(self): # logo预览
       return format_html('<img src="{}" width="40px" height="40px" alt="logo" />', self.logo)
   logo_preview.short_description = 'logo预览'
   def bgcover_preview(self): # 背景图片预览
       return format_html('<img src="{}" width="100px" height="80px" alt="bgcover" />',
self.bg_cover)
   bgcover_preview.short_description = '首页背景预览'
   def __str__(self):
       return self.site_name
```