#### 上午课程核心内容

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- 2. 用户组数据管理
- 3. 管理员数据管理
  - 3.1 管理员数据获取
  - 3.2 管理员数据新增
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#### 下午课程核心内容

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# 上午课程核心内容

## 1. 权限数据管理

```
>>> from meiduo_admin.serializers.permissions import PermissionSerializer
>>> serializer = PermissionSerializer()
>>> serializer
PermissionSerializer():
    id = IntegerField(label='ID', read_only=True)
    name = CharField(max_length=255)
    codename = CharField(max_length=100, required=True)

→ content_type = PrimaryKeyRelatedField(queryset=ContentType.objects.all(), required=True)

class Meta:
    validators = [-UniqueTogetherValidator(queryset=Permission.objects.all(), fields=(content_type', 'codename'))>]
>>>
```

#### 相关内容:

```
class Permission(models.Model):
33
           """..."""
34
           name = models.CharField(_('name'), max_length=255)
56
57
           # 一对多关联的属性
           content_type = models.ForeignKey(
58
               ContentType,
               models.CASCADE,
60
               verbose_name=_('content type');
61
62
           codename = models.CharField(_('codename'), max_length=100)
63
           objects = PermissionManager()
65
66
67
           class Meta:
               verbose_name = _('permission')
68
                                                           content_type 和 codename 联合唯一
               verbose_name_plural = _('permissions')
69
               unique_together = (('content_type', 'codename'),)
70
               ordering = ('content_type__app_label', 'content_type__model',
                            'codename')
72
```

```
from django.contrib.auth.models import Permssion
obj = Permssion.objects.get(id=1)
# 和权限对象关联的权限类型对象
obj.content_type
```

## 2. 用户组数据管理

```
>>> from meiduo_admin.serializers.permissions import GroupSerializer
>>> serializer = GroupSerializer()
>>> serializer
GroupSerializer():
    id = IntegerField(label='ID', read_only=True)
    name = CharField(max_length=150, validators=[<UniqueValidator(queryset=Group.objects.all())>])
    permissions = PrimaryKeyRelatedField(many=True, queryset=Permission.objects.all(), required=False)
>>>
```

#### 相关内容:

```
from django.contrib.auth.models import Group
obj = Group.objects.get(id=1)
# 和用户组对象关联的权限对象数据
obj.permissions.all()
```

## 3. 管理员数据管理

## 3.1 管理员数据获取

```
>>> serializer = AdminSerializer()
>>> serializer
AdminSerializer():
    id = IntegerField(label='ID', read_only=True)
    username = CharField(help_text='Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only
.', max_length=150, validators=[<django.contrib.auth.validators.UnicodeUsernameValidator object>, <Unique
Validator(queryset=User.objects.all())>])
    email = EmailField(allow_blank=True, label='Email address', max_length=254, required=False)
    mobile = CharField(label='手机号', max_length=11, validators=[<UniqueValidator(queryset=User.objects.all())>])
    user_permissions = PrimaryKeyRelatedField(help_text='Specific permissions for this user.', many=True,
    queryset=Permission.objects.all(), required=False)
    groups = PrimaryKeyRelatedField(help_text='The groups this user belongs to. A user will get all permi
ssions granted to each of their groups.', many=True, queryset=Group.objects.all()) required=False)
```

#### 3.2 管理员数据新增

需要在 AdminSerializer 序列化器类中增加一个 password 字段:

```
class AdminSerializer(serializers.ModelSerializer):
        "管理员用户序列化器类"
    class Meta:
         fields = ('id', 'username', 'email', 'mobile', 'user_permissions', 'groups', 'password'
            # 客户錦不传 password 参数或传递的 password 为 '', 都设置默认密码'password': {
                 'write_only': True,
                 'required': False, # 可传可不传
     def validate_mobile(self, value):
          # 手机号格式是否正确
        if not re.match(r'^1[3-9]\d{9}$', value):
           raise serializers.ValidationError('手机号格式不正确')
    def_create(self, validated_data):
       validated_data['is_staff'] = True
       # ① 保存新增管理员的数据
       user = super().create(validated_data)
      #② 判断是否设置默认密码,并且要实现密码加密保存
password = validated_data.get('password')
       # 密码为 None 或 密码为 ''
password = '123456abc'
        # 家孤加家保左
         user.set_password(password)
         user.save()
        # 返回 user
```

### 3.3 指定管理员数据修改

```
def update(self, instance, validated_data):

password = validated_data.pop('password', None)

# ① 特效管理局用产的数据 (排除password)

super().update(instance, validated_data)

# ② 再来判断密码是否需要特效
    if password:
        instance.set_password(password)
        instance.save()

return instance
```

# 下午课程核心内容

# 1. 权限检查设置 - permission\_required 装饰器

在 Django 中,可以通过 permission\_required 给每个 API 接口添加指定的权限检查设置。某个 API 使用 permssion\_required 指定了对应的权限检查之后,当用户来访问该 API 时,permission\_required 方法内部会先检查访问用户是否有对应的权限,如果有权限则 API 会被正常调用,如果没有权限则会抛出 PermissionDenied 异常。

```
# 给普通用户信息获取的 API 接口去添加权限检查的设置
@method_decorator(permission_required(*users.view_user_api*, raise_exception=True))
def get(self, request, *args, **kwargs):
    return super().get(request, *args, **kwargs)
```

## 2. 后台整体总结 - DRF 框架核心背记知识点

参考 DRF 框架核心背记知识点.pdf 文档.

## 3. 项目部署课程 - Nginx 服务器

#### Nginx 服务器在项目部署时的作用?:

1) 作静态 Web 服务器:提供静态页面

python -m http.server 8080

npm run dev

2) 作反向代理服务器, 实现负载均衡

#### 检查 Nginx 配置文件命令:

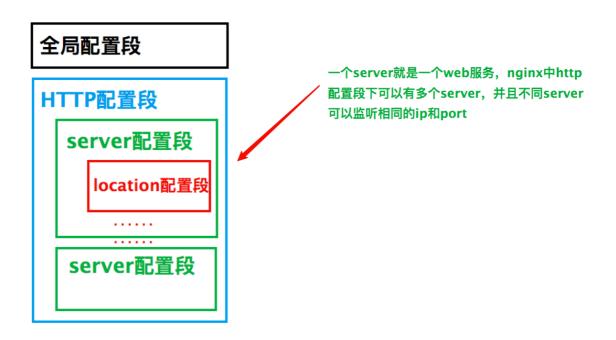
nginx -t

root@itcast:~# nginx -t
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
nginx: configuration file /etc/nginx/nginx.conf
test is successful
root@itcast:~#

### Nginx 配置核心目录:

配置目录: /etc/nginx 日志目录: /var/log/nginx

### Nginx 配置文件结构:



nginx.conf 是 nginx 的主配置文件, nginx.conf 配置文件中只有 全局配置段 和 HTTP 配置段, server 配置段和 location 配置段是从其他文件中包含过来的。

```
##
# Virtual Host Configs
##

include /etc/nginx/conf.d/*.conf;
include /etc/nginx/sites-enabled/*;

}
```

Nginx 访问的基本原理:

1. 根据IP和PORT找到对应的server

# Welcome to nginx server {

If you see this page, the nginx web serve working. Further configuration is required

For online documentation and support ple Commercial support is available at nginx.

Thank you for using nginx.

2. 根据访问的url地址来匹 配server中的location配

置,此处为/地址

```
Default server configuration
  listen 80 default_server;
listen [::]:80 default_server;
  # SSL configuration
  # listen 443 ssl default_server;
     listen [::]:443 ssl default_server;
  # Note: You should disable gzip for SSL traffic.
     See: https://bugs.debian.org/773332
    Read up on ssl_ciphers to ensure a secure configuration.
     See: https://bugs.debian.org/765782
    Self signed certs generated by the ssl-cert package Don't use them in a production server!
     include snippets/snakeoil.conf;
                                 注:当访问路径未指明访问的文件时,会根据index
  root /var/www/html;
                                 设置进行内部重定向到指定目录下查找默认文件返回
  # Add index.php to the list if you are using PHP index index.html index.htm index.nginx-debian.html;
  server_name _;
  location / {
       # First attempt to serve request as file, then
# as directory, then fall back to displaying a 404.
try_files $uri $uri/ =404;
```