

WEB DEVELOPMENT

Lesson 14



related_name attribute in models

instead of product_set



Get products of selected category

```
def get_queryset(self):
    try:
        category = Category.objects.get(id=self.kwargs['pk'])
    except Category.DoesNotExist:
        raise Http404
    return category.product_set.all()
```



Create product with category

category_id = serializers.IntegerField(write_only=True)



Get category with its products

- 1. StringRelatedField
- 2. PrimaryKeyRelatedField
- 3. Nested objects



Create category with it's products

```
def create(self, validated_data):
    products = validated_data.pop('product_set')
    category = Category.objects.create(**validated_data)
    bulk = [Product(category=category, **product) for product in products]
    Product.objects.bulk_create(bulk)
    return category

def create(self, validated_data):
    products = validated_data.pop('product_set')
    category = Category.objects.create(**validated_data)
    for product in products:
        Product.objects.create(category=category, **product)
    return category
```





Filtering against the current user



Filtering against query parameters



Django Filters



Django Filters - Installation

```
1) pip install django-filter
2)
INSTALLED_APPS = [
    'django_filters',
]
```

Setting filter backends

```
REST_FRAMEWORK = {
    'DEFAULT_FILTER_BACKENDS': (
     'django_filters.rest_framework.DjangoFilterBackend',
    )
}
```



Equality-based filtering

```
filterset_fields = ('name',)
```

FilterSet

```
filter_backends = (DjangoFilterBackend,)
filter_fields = ('name',)
filter_class = (ProductFilter)
```

http://url?name=text



SearchFilter

```
filter_backends = (filters.SearchFilter,)
search_fields = ('name',)
```

http://url?search=text



OrderingFilter

```
filter_backends = (filters.OrderingFilter)
ordering_fields = ('name',)
ordering = ('-name',)
```

http://url?ordering=name





- 1. PageNumberPagination
- 2. LimitOffsetPagination

```
REST_FRAMEWORK = {
    'DEFAULT_PAGINATION_CLASS': 'rest_framework.pagination.PageNumberPagination',
    'PAGE_SIZE': 10
}
```



pagination_class = LimitOffsetPagination



Questions?

