

EXPLORER

BE-INSPIRED-DRF-API

- > __pycache__
- > be_inspired_dr_api
 - > __pycache__
 - __init__.py
 - asgi.py
 - permissions.py
 - serializers.py M
 - settings.py M
 - urls.py
 - views.py
 - wsgi.py
- > comments
- > docs
- > followers
- > likes
- > likes_recommendations
- > posts
- > profiles
- > recommendations
- .gitignore
- 4
- db.sqlite3
- env.py
- manage.py

OUTLINE

TIMELINE

permissions.pyserializers.py Msettings.py M Xurls.pyviews.pywsgi.py

be_inspired_dr_api > settings.py > {} dj_database_url

```
1 """
2 Django settings for be_inspired_dr_api project.
3
4 Generated by 'django-admin startproject' using Django 3.2.17.
5
6 For more information on this file, see
7 https://docs.djangoproject.com/en/3.2/topics/settings/
8
9 For the full list of settings and their values, see
10 https://docs.djangoproject.com/en/3.2/ref/settings/
11 """
12
13 from pathlib import Path
14 import os
15 import re
16 import dj_database_url
17
18 if os.path.exists('env.py'):
19     import env
```

PROBLEMS 3OUTPUTTERMINALDEBUG CONSOLEPORTSFilter (e.g. text, **/*.ts, !**/)

> ! .gitpod.yml 3

gitpod main* 0 3 Shared

Ln 16, Col 23 Spaces: 4 LITE-8 IE Python 3.8.11 64-bit ('3.8.11': openv)



CI Python Linter

```

1  """
2  Django settings for be_inspired_dr_api project.
3
4  Generated by 'django-admin startproject' using Django 3.2.17.
5
6  For more information on this file, see
7  https://docs.djangoproject.com/en/3.2/topics/settings/
8
9  For the full list of settings and their values, see
10 https://docs.djangoproject.com/en/3.2/ref/settings/
11 """
12
13 from pathlib import Path
14 import os
15 import re
16 import dj_database_url
17
18 if os.path.exists('env.py'):
19     import env
20
21 CLOUDINARY_STORAGE = {
22     'CLOUDINARY_URL': os.environ.get('CLOUDINARY_URL')
23 }
24
25 MEDIA_URL = '/media/'
26 DEFAULT_FILE_STORAGE = 'cloudinary_storage.storage.MediaCloudinaryStorage'
27
28
29 # Build paths inside the project like this: BASE_DIR / 'subdir'.
30 BASE_DIR = Path(__file__).resolve().parent.parent
31
32 REST_FRAMEWORK = {
33     'DEFAULT_AUTHENTICATION_CLASSES': [(
34         'rest_framework.authentication.SessionAuthentication'
35         if 'DEV' in os.environ
36         else 'dj_rest_auth.jwt_auth.JWTCookieAuthentication'

```

Settings:



Results:

All clear, no errors found



CI Python Linter

```
2
3 The `urlpatterns` list routes URLs to views. For more information please see:
4   https://docs.djangoproject.com/en/3.2/topics/http/urls/
5 Examples:
6 Function views
7     1. Add an import:  from my_app import views
8     2. Add a URL to urlpatterns:  path('', views.home, name='home')
9 Class-based views
10    1. Add an import:  from other_app.views import Home
11    2. Add a URL to urlpatterns:  path('', Home.as_view(), name='home')
12 Including another URLconf
13    1. Import the include() function: from django.urls import include, path
14    2. Add a URL to urlpatterns:  path('blog/', include('blog.urls'))
15 """
16 from django.contrib import admin
17 from django.urls import path, include
18 from .views import root_route, logout_route
19
20 urlpatterns = [
21     path('', root_route),
22     path('admin/', admin.site.urls),
23     path('api-auth/', include('rest_framework.urls')),
24     path('dj-rest-auth/logout/', logout_route),
25     path('dj-rest-auth/', include('dj_rest_auth.urls')),
26     path(
27         'dj-rest-auth/registration/', include('dj_rest_auth.registration.urls')
28     ),
29     path('', include('profiles.urls')),
30     path('', include('posts.urls')),
31     path('', include('recommendations.urls')),
32     path('', include('comments.urls')),
33     path('', include('likes.urls')),
34     path('', include('likes_recommendations.urls')),
35     path('', include('followers.urls')),
36 ]
37
```

Settings:



Results:

All clear, no errors found



EXPLORER



admin.py

models.py

serializers.py

urls.py

views.py



BE-INSPIRED-DRF-API

> __pycache__

> be_inspired_dr_api

▼ comments

> __pycache__

> migrations

__init__.py

admin.py

apps.py

models.py

serializers.py

tests.py

urls.py

views.py

> docs

> followers

> likes

> likes_recommendations

> posts

> profiles

> recommendations

.gitignore

≡ 4

≡ db.sqlite3

env.py

> OUTLINE

> TIMELINE

comments > views.py > {} generics

```
1 from rest_framework import generics, permissions, filters
2 from django_filters.rest_framework import DjangoFilterBackend
3 from rest_framework.response import Response
4 from rest_framework.views import APIView
5 from .models import Comment
6 from .serializers import CommentSerializer, CommentDetailSerializer
7 from be_inspired_dr_api.permissions import IsOwnerOrReadOnly
8
9
10 class CommentList(generics.ListCreateAPIView):
11     """
12     Lists all the created Comments
13     """
14     serializer_class = CommentSerializer
15     permission_classes = [
16         permissions.IsAuthenticatedOrReadOnly
17     ]
18     queryset = Comment.objects.all()
19     filter_backends = [
```

PROBLEMS 3

OUTPUT

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PORTS

> ! .gitpod.yml 3



CI Python Linter

```
1 from django.db import models
2 from django.contrib.auth.models import User
3 from posts.models import Post
4 from recommendations.models import Recommendation
5
6
7 class Comment(models.Model):
8     """
9     Comment model
10    Related to User, Post and Recommendation
11    """
12    owner = models.ForeignKey(User, on_delete=models.CASCADE)
13    created_on = models.DateTimeField(auto_now_add=True)
14    updated_on = models.DateTimeField(auto_now=True)
15    content = models.TextField(blank=True)
16    post = models.ForeignKey(
17        Post,
18        on_delete=models.CASCADE,
19        default=None,
20        null=True,
21        blank=True
22    )
23    recommendation = models.ForeignKey(
24        Recommendation,
25        on_delete=models.CASCADE,
26        default=None,
27        null=True,
28        blank=True
29    )
30
31 class Meta:
32     """
33     Orders Comment objects in the order latest to old
34     """
35     ordering = ['-created_on']
```

Settings:



Results:

All clear, no errors for



CI Python Linter

```
1 from rest_framework import serializers
2 from django.contrib.humanize.templatetags.humanize import naturaltime
3 from .models import Comment
4
5
6 class CommentSerializer(serializers.ModelSerializer):
7     """
8     Class for CommentSerializer for Comment model
9     """
10    owner = serializers.ReadOnlyField(source='owner.username')
11    is_owner = serializers.SerializerMethodField()
12    profile_id = serializers.ReadOnlyField(source='owner.profile.id')
13    profile_image = serializers.ReadOnlyField(source='owner.profile.image.url')
14
15    created_on = serializers.SerializerMethodField()
16    updated_on = serializers.SerializerMethodField()
17
18    def get_is_owner(self, obj):
19        request = self.context['request']
20        return request.user == obj.owner
21
22    # shows how long ago was the comment created or updated
23    def get_created_on(self, obj):
24        return naturaltime(obj.created_on)
25
26    def get_updated_on(self, obj):
27        return naturaltime(obj.updated_on)
28
29    class Meta:
30        model = Comment
31        fields = [
32            'id', 'owner', 'is_owner', 'post', 'profile_id', 'recommendation',
33            'profile_image', 'created_on', 'updated_on',
34            'content', ]
35
```

Settings:



Results:

All clear, no errors



CI Python Linter

```
1 from rest_framework import generics, permissions, filters
2 from django_filters.rest_framework import DjangoFilterBackend
3 from rest_framework.response import Response
4 from rest_framework.views import APIView
5 from .models import Comment
6 from .serializers import CommentSerializer, CommentDetailSerializer
7 from be_inspired_dr_api.permissions import IsOwnerOrReadOnly
8
9
10 class CommentList(generics.ListCreateAPIView):
11     """
12     Lists all the created Comments
13     """
14     serializer_class = CommentSerializer
15     permission_classes = [
16         permissions.IsAuthenticatedOrReadOnly
17     ]
18     queryset = Comment.objects.all()
19     filter_backends = [
20         DjangoFilterBackend,
21     ]
22     filterset_fields = [
23         'owner',
24         'post',
25         'recommendation',
26     ]
27
28     def perform_create(self, serializer):
29         """
30         Associates the Comment with the user creating Comment
31         """
32         serializer.save(owner=self.request.user)
33
34
35 class CommentDetail(generics.RetrieveUpdateDestroyAPIView):
```

Settings:



Results:

All clear, no errors

EXPLORER

BE-INSPIRED-... [F] [E] [U] [C]

pycache

be_inspired_dr_api

comments

docs

followers

> _pycache_

migrations

> _pycache_

init.py

0001_initial.py

init.py

admin.py

apps.py

models.py

serializers.py

tests.py

urls.py

views.py

likes

likes_recommendations

posts

profiles

recommendations

.gitignore

OUTLINE

TIMELINE

admin.py

models.py X

serializers.py

urls.py

views.py

followers > models.py > {} models

```
1 from django.db import models
2 from django.contrib.auth.models import User
3
4
5 class Follower(models.Model):
6     """
7     Class for the Follower model.
8     'owner_following' is a User who is following another User.
9     'followed' is a User who is followed by the 'owner'.
10    The related_name attribute differentiates 'owner' and 'followed'
11    """
12    owner = models.ForeignKey(
13        User,
14        on_delete=models.CASCADE,
15        related_name='following'
16    )
17    followed = models.ForeignKey(
18        User,
19        on_delete=models.CASCADE,
```

PROBLEMS

3

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CI Python Linter

```
1 from django.db import models
2 from django.contrib.auth.models import User
3
4
5 class Follower(models.Model):
6     '''
7     Class for the Follower model.
8     'owner_following' is a User who is following another User.
9     'followed' is a User who is followed by the 'owner'.
10    The related_name attribute differentiates 'owner' and 'followed'
11    '''
12    owner = models.ForeignKey(
13        User,
14        on_delete=models.CASCADE,
15        related_name='following'
16    )
17    followed = models.ForeignKey(
18        User,
19        on_delete=models.CASCADE,
20        related_name='followed'
21    )
22    created_on = models.DateTimeField(auto_now_add=True)
23
24 class Meta:
25     # 'unique_together' avoids duplicates
26     ordering = ['-created_on']
27     unique_together = ['owner', 'followed']
28
29 def __str__(self):
30     return f'{self.owner} {self.followed}'
31
```

Settings:



Results:

All clear, no errors found



CI Python Linter

```

1 from rest_framework import generics, permissions
2 from be_inspired_dr_api.permissions import IsOwnerOrReadOnly
3 from .models import Follower
4 from .serializers import FollowerSerializer
5
6
7 class FollowerList(generics.ListCreateAPIView):
8     """
9     Class for the FollowerList generic API view
10    Allows users to follow each other
11    """
12    permission_classes = [permissions.IsAuthenticatedOrReadOnly]
13    queryset = Follower.objects.all()
14    serializer_class = FollowerSerializer
15
16    def perform_create(self, serializer):
17        """
18        Request saves to database
19        """
20        serializer.save(owner=self.request.user)
21
22
23 class FollowerDetail(generics.RetrieveDestroyAPIView):
24     """
25     Class for FollowerDetail
26     User will be able to Follow or Unfollow
27     """
28    permission_classes = [IsOwnerOrReadOnly]
29    queryset = Follower.objects.all()
30    serializer_class = FollowerSerializer
31

```

Settings:



Results:

All clear, no errors found

- BE-INSPIRED-DRF-API
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 - > __pycache__
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 - views.py
 - > likes_recommendations
 - > posts
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OUTLINE

TIMELINE

```
likes > views.py > {} generics
1  from rest_framework import generics, permissions
2  from be_inspired_dr_api.permissions import IsOwnerOrReadOnly
3  from likes.models import Like
4  from likes.serializers import LikeSerializer
5
6
7  class Likelist(generics.ListCreateAPIView):
8      """
9      A class for the Likelist generic API view
10     """
11     permission_classes = [permissions.IsAuthenticatedOrReadOnly]
12     serializer_class = LikeSerializer
13     queryset = Like.objects.all()
14
15     def perform_create(self, serializer):
16         serializer.save(owner=self.request.user)
17
18
19  class LikeDetail(generics.RetrieveDestroyAPIView):
```

> ! .gitpod.yml 3



CI Python Linter

Settings:



Results:

All clear, no errors

```
1 from django.db import models
2 from django.contrib.auth.models import User
3 from posts.models import Post
4 from recommendations.models import Recommendation
5
6
7 class Like(models.Model):
8     '''
9     Like model
10    Related to User, Post and Recommendation
11    '''
12    owner = models.ForeignKey(User, on_delete=models.CASCADE)
13    created_on = models.DateTimeField(auto_now_add=True)
14    post = models.ForeignKey(
15        Post,
16        on_delete=models.CASCADE,
17        related_name='likes',
18        default=None,
19        null=True,
20    )
21    recommendation = models.ForeignKey(
22        Recommendation,
23        on_delete=models.CASCADE,
24        related_name='likes',
25        default=None,
26        null=True,
27    )
28
29 class Meta:
30     '''
31     Orders Like objects in the order latest to old
32     'unique_together' for single selection of post/recommendation
33     '''
34     ordering = ['-created_on']
35     unique_together = ['owner', 'post'], ['owner', 'recommendation']
```



CI Python Linter








Settings:



Results:

All clear, no errors fo

```
1 from rest_framework import generics, permissions
2 from be_inspired_dr_api.permissions import IsOwnerOrReadOnly
3 from likes.models import Like
4 from likes.serializers import LikeSerializer
5
6
7 class LikeList(generics.ListCreateAPIView):
8     """
9     A class for the LikeList generic API view
10    """
11    permission_classes = [permissions.IsAuthenticatedOrReadOnly]
12    serializer_class = LikeSerializer
13    queryset = Like.objects.all()
14
15    def perform_create(self, serializer):
16        serializer.save(owner=self.request.user)
17
18
19 class LikeDetail(generics.RetrieveDestroyAPIView):
20     """
21     Class for the LikeDetail generic API view
22     Enables single like to be retrieved and deleted
23    """
24    permission_classes = [IsOwnerOrReadOnly]
25    serializer_class = LikeSerializer
26    queryset = Like.objects.all()
27
```

 admin.py M apps.py models.py X serializers.py urls.py views.pyposts >  models.py > {} models

```
1 from django.db import models
2 from django.contrib.auth.models import User
3
4
5 class Post(models.Model):
6     """
7     Post model
8     """
9     class Category(models.TextChoices):
10         """
11         A class for the age_group key
12         Contains different age ranges to choose from
13         """
14         BOOKS = 'Books',
15         MUSIC = 'Music',
16         ART = 'Art',
17         PERSON = 'Person',
18         PLACE = 'Place',
19         MOVIES = 'Movies',
```

PROBLEMS 3

OUTPUT

TERMINAL

DEBUG CONSOLE

PORTS

Filter (e.g. text, **/*.ts)

> ! .gitpod.yml 3



CI Python Linter

Settings:



Results:

All clear, no errors

```
1 from django.db import models
2 from django.contrib.auth.models import User
3
4
5 class Post(models.Model):
6     """
7     Post model
8     """
9     class Category(models.TextChoices):
10         """
11         A class for the age_group key
12         Contains different age ranges to choose from
13         """
14         BOOKS = 'Books',
15         MUSIC = 'Music',
16         ART = 'Art',
17         PERSON = 'Person',
18         PLACE = 'Place',
19         MOVIES = 'Movies',
20         EVENT = 'Event'
21
22     owner = models.ForeignKey(User, on_delete=models.CASCADE)
23     title = models.CharField(max_length=200)
24     category = models.CharField(
25         max_length=50,
26         choices=Category.choices
27     )
28     created_on = models.DateTimeField(auto_now_add=True)
29     updated_on = models.DateTimeField(auto_now=True)
30     description = models.TextField(blank=True)
31     image = models.ImageField(
32         upload_to='images/',
33         default='../default_post_ludaix',
34         blank=True
35     )
```



CI Python Linter

```
1 from rest_framework import serializers
2 from posts.models import Post
3 from likes.models import Like
4
5
6 class PostSerializer(serializers.ModelSerializer):
7     """
8     Class for PostSerializer for Post model
9     """
10    owner = serializers.ReadOnlyField(source='owner.username')
11    is_owner = serializers.SerializerMethodField()
12    profile_id = serializers.ReadOnlyField(source='owner.profile.id')
13    profile_image = serializers.ReadOnlyField(source='owner.profile.image.url')
14    comments_count = serializers.ReadOnlyField()
15    likes_count = serializers.ReadOnlyField()
16    like_id = serializers.SerializerMethodField()
17
18    def validate_image(self, value):
19        if value.size > 2 * 1024 * 1024:
20            raise serializers.ValidationError('Image size larger than 2MB!')
21        if value.image.height > 4096:
22            raise serializers.ValidationError(
23                'Image height larger than 4096px!'
24            )
25        if value.image.width > 4096:
26            raise serializers.ValidationError(
27                'Image width larger than 4096px!'
28            )
29        return value
30
31    def get_is_owner(self, obj):
32        request = self.context['request']
33        return request.user == obj.owner
34
35    def get_like_id(self, obj):
```

Settings:



Results:

All clear, no errors



EXPLORER

BE-INSPIRED-DRF-API

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 - views.py
- > recommendations
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- ≡ db.sqlite3
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OUTLINE

TIMELINE

admin.py

apps.py

models.py

serializers.py M x

urls.py

views.py

profiles > serializers.py > ProfileSerializer > Meta > fields

```
1 from rest_framework import serializers
2 from .models import Profile
3 from followers.models import Follower
4
5
6 class ProfileSerializer(serializers.ModelSerializer):
7     """
8     Serializer for Profile Model data
9     """
10    owner = serializers.ReadOnlyField(source='owner.username')
11    is_owner = serializers.SerializerMethodField()
12    following_id = serializers.SerializerMethodField()
13    posts_count = serializers.ReadOnlyField()
14    recommendations_count = serializers.ReadOnlyField()
15    followers_count = serializers.ReadOnlyField()
16    following_count = serializers.ReadOnlyField()
17
18    def get_is_owner(self, obj):
19        request = self.context['request']
```

PROBLEMS

3

OUTPUT

TERMINAL

DEBUG CONSOLE

PORTS

> ! .gitpod.yml 3



CI Python Linter

```
1 from django.db import models
2 from django.db.models.signals import post_save
3 from django.contrib.auth.models import User
4
5
6 class Profile(models.Model):
7     """
8     Profile model
9     Extends user model
10    """
11
12    class AgeGroup(models.TextChoices):
13        """
14        A class for the age_group key
15        Contains different age ranges to choose from
16        """
17        TEENAGER = 'Teenager (10 - 18)',
18        YOUNG_ADULT = 'Young Adult (19 - 25)',
19        ADULT = 'Adult (26 - 40)',
20        MIDDLE_AGED = 'Middle Aged (41 - 60)',
21        SENIOR = 'Senior (>61)',
22
23    owner = models.OneToOneField(User, on_delete=models.CASCADE)
24    name = models.CharField(max_length=200, blank=True)
25    age_group = models.CharField(
26        max_length=50,
27        choices=AgeGroup.choices
28    )
29    brief_bio = models.TextField(blank=True)
30    created_on = models.DateTimeField(auto_now_add=True)
31    updated_on = models.DateTimeField(auto_now=True)
32    # Default profile image
33    image = models.ImageField(
34        upload_to='images/', default='../default_profile_afxozd'
35    )
```

Settings



Results

All clear, no



CI Python Linter

```
1 from rest_framework import serializers
2 from .models import Profile
3 from followers.models import Follower
4
5
6 class ProfileSerializer(serializers.ModelSerializer):
7     """
8     Serializer for Profile Model data
9     """
10    owner = serializers.ReadOnlyField(source='owner.username')
11    is_owner = serializers.SerializerMethodField()
12    following_id = serializers.SerializerMethodField()
13    posts_count = serializers.ReadOnlyField()
14    recommendations_count = serializers.ReadOnlyField()
15    followers_count = serializers.ReadOnlyField()
16    following_count = serializers.ReadOnlyField()
17
18    def get_is_owner(self, obj):
19        request = self.context['request']
20        return request.user == obj.owner
21
22    def get_following_id(self, obj):
23        # checks if the logged in user is following any other profiles
24        user = self.context['request'].user
25        if user.is_authenticated:
26            following = Follower.objects.filter(
27                owner=user, followed=obj.owner
28            ).first()
29            return following.id if following else None
30        return None
31
32    class Meta:
33        """
34        Metadata for Profile Serializer
35        """
```

Setting



Results

All clear, no



EXPLORER

BE-INSPIRED-DRF-API

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 - > __pycache__
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 - 🔗 0001_initial.py
 - 🔗 __init__.py
 - 🔗 admin.py
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 - 🔗 models.py
 - 🔗 serializers.py
 - 🔗 tests.py
 - 🔗 urls.py
 - 🔗 views.py
 - 🔗 .gitignore

OUTLINE

TIMELINE

admin.py

apps.py

models.py x

serializers.py

urls.py

views.py M

recommendations > models.py > {} models

```
1 from django.db import models
2 from django.contrib.auth.models import User
3
4
5 class Recommendation(models.Model):
6     """
7     Recommendation model
8     """
9     class Category(models.TextChoices):
10         """
11         A class for the age_group key
12         Contains different age ranges to choose from
13         """
14         BOOKS = 'Books',
15         MUSIC = 'Music',
16         ART = 'Art',
17         PERSON = 'Person',
18         PLACE = 'Place',
19         MOVIES = 'Movies',
```

PROBLEMS

3

OUTPUT

TERMINAL

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PORTS

> ! .gitpod.yml 3



CI Python Linter

```
1 from django.db import models
2 from django.contrib.auth.models import User
3
4
5 class Recommendation(models.Model):
6     """
7     Recommendation model
8     """
9     class Category(models.TextChoices):
10         """
11         A class for the age_group key
12         Contains different age ranges to choose from
13         """
14         BOOKS = 'Books',
15         MUSIC = 'Music',
16         ART = 'Art',
17         PERSON = 'Person',
18         PLACE = 'Place',
19         MOVIES = 'Movies',
20         EVENT = 'Event'
21
22     class PriceCategory(models.TextChoices):
23         """
24         Price categories for the user to choose
25         """
26         FREE = 'Free',
27         CHEAP = 'Cheap (€)',
28         AVERAGE = 'Average (€€)',
29         ABOVEAVERAGE = 'Above Average (€€€)',
30         EXPENSIVE = 'Expensive (€€€€)',
31
32     owner = models.ForeignKey(User, on_delete=models.CASCADE)
33     title = models.CharField(max_length=200)
34     category = models.CharField(
35         max_length=50,
```

Settings:



Results:

All clear, no errors



CI Python Linter

```
1 from rest_framework import serializers
2 from .models import Recommendation
3 from likes.models import Like
4
5
6 class RecommendationSerializer(serializers.ModelSerializer):
7     """
8     Class for RecommendationSerializer for Recommendation model
9     """
10    owner = serializers.ReadOnlyField(source='owner.username')
11    is_owner = serializers.SerializerMethodField()
12    profile_id = serializers.ReadOnlyField(source='owner.profile.id')
13    profile_image = serializers.ReadOnlyField(source='owner.profile.image.url')
14    comments_count = serializers.ReadOnlyField()
15    likes_count = serializers.ReadOnlyField()
16    like_id = serializers.SerializerMethodField()
17
18    def validate_image(self, value):
19        if value.size > 2 * 1024 * 1024:
20            raise serializers.ValidationError('Image size larger than 2MB!')
21        if value.image.height > 4096:
22            raise serializers.ValidationError(
23                'Image height larger than 4096px!'
24            )
25        if value.image.width > 4096:
26            raise serializers.ValidationError(
27                'Image width larger than 4096px!'
28            )
29        return value
30
31    def get_is_owner(self, obj):
32        request = self.context['request']
33        return request.user == obj.owner
34
35    def get_like_id(self, obj):
```

Settings:



Results:

All clear, no errors found