

CI Python Linter

```
Django settings for be_inspired_dr_api project.
Generated by 'django-admin startproject' using Django 3.2.17.
For more information on this file, see
https://docs.djangoproject.com/en/3.2/topics/settings/
For the full list of settings and their values, see
https://docs.djangoproject.com/en/3.2/ref/settings/
from pathlib import Path
import os
     rt re
import dj_database_url
if os.path.exists('env.py'):
    import env
CLOUDINARY_STORAGE = {
    'CLOUDINARY_URL': os.environ.get('CLOUDINARY_URL')
}
MEDIA_URL = '/media/'
DEFAULT_FILE_STORAGE = 'cloudinary_storage.storage.MediaCloudinaryStorage'
# Build paths inside the project like this: BASE_DIR / 'subdir'.
BASE_DIR = Path(__file__).resolve().parent.parent
REST_FRAMEWORK = {
    'DEFAULT_AUTHENTICATION_CLASSES': [(
        'rest_framework.authentication.SessionAuthentication'
        if 'DEV' in os.environ
```

else 'di rest auth.iwt auth.lWTCookieAuthentication'

Settings:







Results:

All clear, no errors found

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```
The `urlpatterns` list routes URLs to views. For more information please see:
        https://docs.djangoproject.com/en/3.2/topics/http/urls/
    Examples:
    Function views
        1. Add an import: from my_app import views
        2. Add a URL to urlpatterns: path('', views.home, name='home')
    Class-based views
        1. Add an import: from other_app.views import Home
        Add a URL to urlpatterns: path('', Home.as_view(), name='home')
    Including another URLconf
        1. Import the include() function: from django.urls import include, path
        Add a URL to urlpatterns: path('blog/', include('blog.urls'))
    from django.contrib import admin
    from django.urls import path, include
    from .views import root_route, logout_route
20 -
    urlpatterns = [
        path('', root_route),
        path('admin/', admin.site.urls),
        path('api-auth/', include('rest_framework.urls')),
        path('dj-rest-auth/logout/', logout_route),
        path('dj-rest-auth/', include('dj_rest_auth.urls')),
        path(
            'dj-rest-auth/registration/', include('dj_rest_auth.registration.urls')
        path('', include('profiles.urls')),
        path('', include('posts.urls')),
        path('', include('recommendations.urls')),
        path('', include('comments.urls')),
        path('', include('likes.urls')),
        path('', include('likes_recommendations.urls')),
        path('', include('followers.urls')),
```

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Settings:





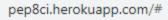


Results:

All clear, no errors found

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CI Python Linter

```
from django.db import models
from django.contrib.auth.models import User
from posts.models import Post
from recommendations.models import Recommendation
class Comment(models.Model):
    Comment model
    Related to User, Post and Recommendation
    owner = models.ForeignKey(User, on_delete=models.CASCADE)
    created_on = models.DateTimeField(auto_now_add=True)
    updated_on = models.DateTimeField(auto_now=True)
    content = models.TextField(blank=True)
    post = models.ForeignKey(
        Post,
        on delete=models.CASCADE,
        default=None,
        null=True,
        blank=True
    recommendation = models.ForeignKey(
        Recommendation,
        on_delete=models.CASCADE,
        default=None,
        null=True,
        blank=True
    class Meta:
        Orders Comment objects in the order latest to old
        ordering = ['-created_on']
```

Settings:



Results:





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```
from rest_framework import serializers
from django.contrib.humanize.templatetags.humanize import naturaltime
from .models import Comment
class CommentSerializer(serializers.ModelSerializer):
    Class for CommentSerializer for Comment model
    owner = serializers.ReadOnlyField(source='owner.username')
    is owner = serializers.SerializerMethodField()
    profile_id = serializers.ReadOnlyField(source='owner.profile.id')
    profile_image = serializers.ReadOnlyField(source='owner.profile.image.url')
    created_on = serializers.SerializerMethodField()
    updated_on = serializers.SerializerMethodField()
    def get_is_owner(self, obj):
        request = self.context['request']
        return request.user == obj.owner
    # shows how long ago was the comment created or updated
    def get_created_on(self, obj):
        return naturaltime(obj.created on)
    def get updated on(self, obj):
        return naturaltime(obj.updated_on)
    class Meta:
        model = Comment
        fields = [
            'id', 'owner', 'is_owner', 'post', 'profile_id', 'recommendation',
            'profile image', 'created on', 'updated on',
            'content',
```

Settings:



Results:



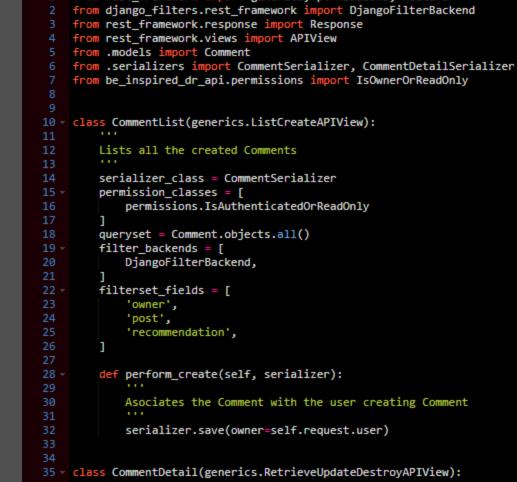
CI Python Linter

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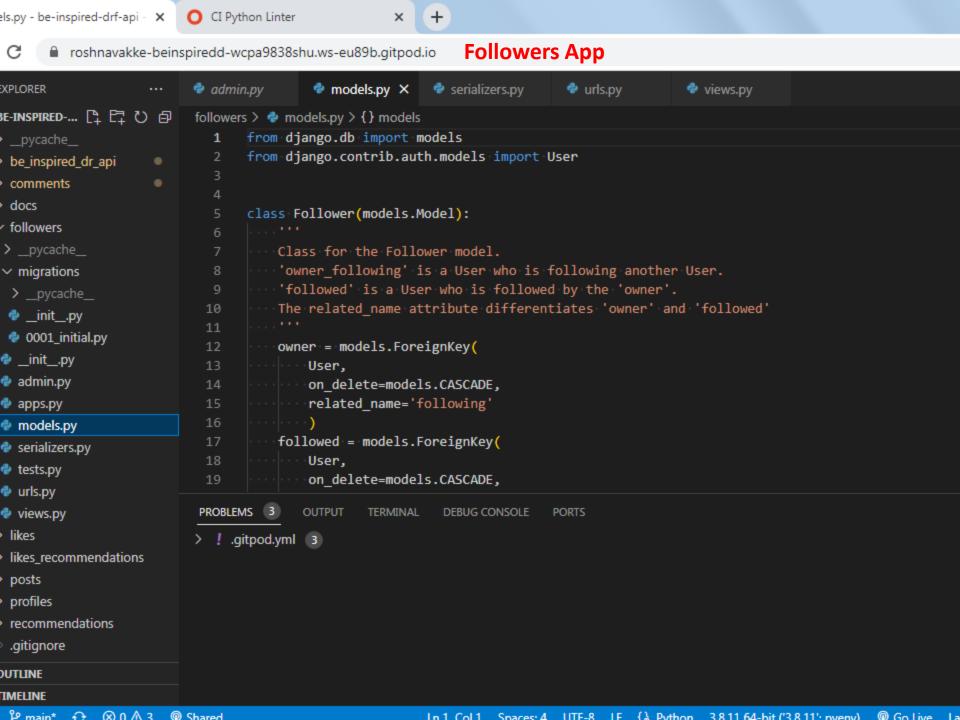


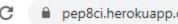
Results:

All clear, no erro



1 from rest_framework import generics, permissions, filters







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```
from django.db import models
from django.contrib.auth.models import User
class Follower(models.Model):
    Class for the Follower model.
    'owner_following' is a User who is following another User.
    'followed' is a User who is followed by the 'owner'.
    The related_name attribute differentiates 'owner' and 'followed'
    owner = models.ForeignKey(
        on delete=models.CASCADE,
        related_name='following'
    followed = models.ForeignKey(
        on_delete=models.CASCADE,
        related_name='followed'
    created_on = models.DateTimeField(auto_now_add=True)
    class Meta:
        # 'unique_together' avoids duplicates
        ordering = ['-created on']
        unique_together = ['owner', 'followed']
    def __str_ (self):
        return f'{self.owner} {self.followed}'
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CI Python Linter

```
from rest_framework import generics, permissions
from be inspired dr api.permissions import IsOwnerOrReadOnly
from .models import Follower
from .serializers import FollowerSerializer
class FollowerList(generics.ListCreateAPIView):
    Class for the FollowerList generic API view
    Allows users to follow each other
    permission_classes = [permissions.IsAuthenticatedOrReadOnly]
    queryset = Follower.objects.all()
    serializer_class = FollowerSerializer
    def perform_create(self, serializer):
        Request saves to database
        serializer.save(owner=self.request.user)
class FollowerDetail(generics.RetrieveDestroyAPIView):
    Class for FollowerDetail
    User will be able to Follow or Unfollow
    permission_classes = [IsOwnerOrReadOnly]
    queryset = Follower.objects.all()
    serializer_class = FollowerSerializer
```

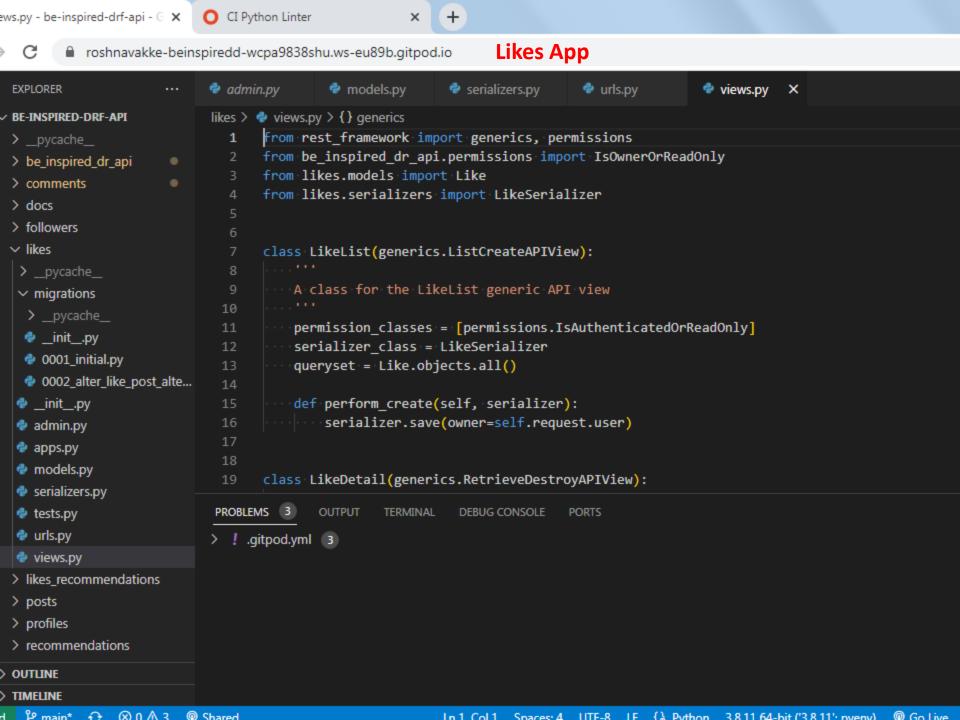
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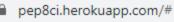




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CI Python Linter

```
from django.db import models
from django.contrib.auth.models import User
from posts.models import Post
from recommendations.models import Recommendation
class Like(models.Model):
    Like model
    Related to User, Post and Recommendation
    owner = models.ForeignKey(User, on_delete=models.CASCADE)
    created_on = models.DateTimeField(auto_now_add=True)
    post = models.ForeignKey(
        Post.
        on_delete=models.CASCADE,
        related_name='likes',
        default=None,
        null=True,
    recommendation = models.ForeignKey(
        Recommendation,
        on_delete=models.CASCADE,
        related_name='likes',
        default=None,
        null=True,
    class Meta:
        Orders Like objects in the order latest to old
        'unique_together' for single selection of post/recommendation
        ordering = ['-created_on']
        unique_together = ['owner', 'post'], ['owner', 'recommendation']
```

Settings:



Results:

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CI Python Linter

```
from rest_framework import generics, permissions
from be_inspired_dr_api.permissions import IsOwnerOrReadOnly
from likes.models import Like
from likes.serializers import LikeSerializer
class LikeList(generics.ListCreateAPIView):
    A class for the LikeList generic API view
    permission_classes = [permissions.IsAuthenticatedOrReadOnly]
    serializer_class = LikeSerializer
    queryset = Like.objects.all()
    def perform_create(self, serializer):
        serializer.save(owner=self.request.user)
class LikeDetail(generics.RetrieveDestroyAPIView):
    Class for the LikeDetail generic API view
    Enables single like to be retrieved and deleted
    permission_classes = [IsOwnerOrReadOnly]
    serializer_class = LikeSerializer
    queryset = Like.objects.all()
```

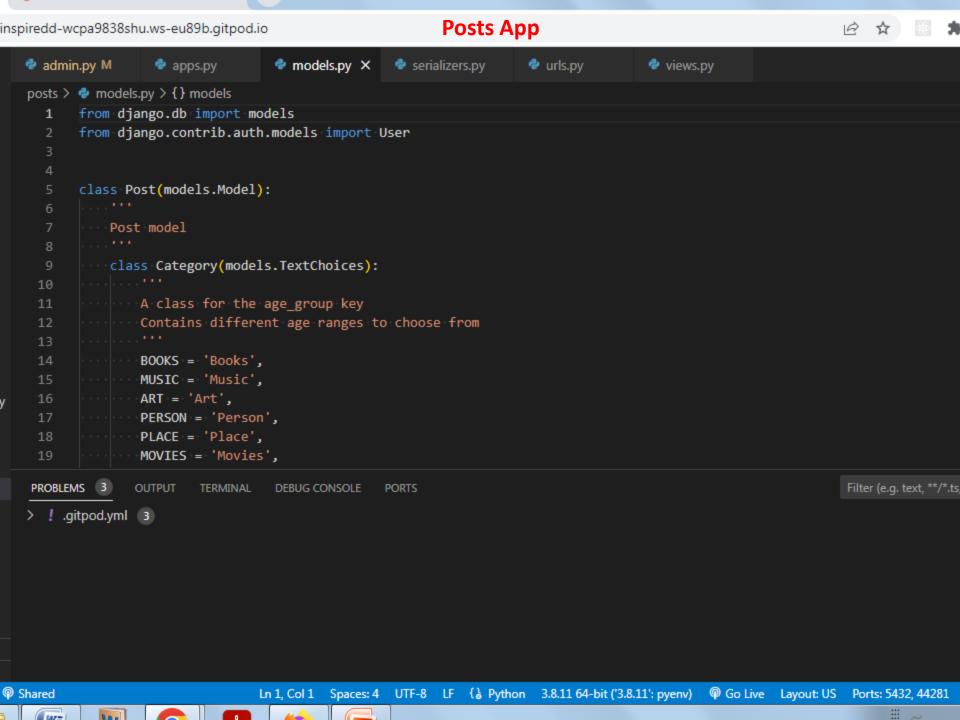
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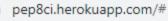


Results:











```
from django.db import models
from django.contrib.auth.models import User
class Post(models.Model):
    Post model
    class Category(models.TextChoices):
        A class for the age group key
        Contains different age ranges to choose from
       BOOKS = 'Books',
       MUSIC = 'Music',
        ART = 'Art',
        PERSON = 'Person',
       PLACE = 'Place',
       MOVIES = 'Movies',
        EVENT = 'Event'
    owner = models.ForeignKey(User, on_delete=models.CASCADE)
    title = models.CharField(max length=200)
    category = models.CharField(
        max_length=50,
        choices=Category.choices
    created_on = models.DateTimeField(auto_now_add=True)
    updated_on = models.DateTimeField(auto_now=True)
    description = models.TextField(blank=True)
    image = models.ImageField(
        upload_to='images/',
        default='../default_post_ludaix',
        blank=True
```

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Results:

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Posts App – serializers.py

code

CI Python Linter

```
from rest_framework import serializers
from posts.models import Post
from likes.models import Like
class PostSerializer(serializers.ModelSerializer):
    Class for PostSerializer for Post model
    owner = serializers.ReadOnlyField(source='owner.username')
    is_owner = serializers.SerializerMethodField()
    profile_id = serializers.ReadOnlyField(source='owner.profile.id')
    profile_image = serializers.ReadOnlyField(source='owner.profile.image.url')
    comments_count = serializers.ReadOnlyField()
    likes_count = serializers.ReadOnlyField()
    like_id = serializers.SerializerMethodField()
    def validate_image(self, value):
        if value.size > 2 * 1024 * 1024:
            raise serializers.ValidationError('Image size larger than 2MB!')
        if value.image.height > 4096:
            raise serializers. ValidationError(
                 'Image height larger than 4096px!'
        if value.image.width > 4096:
            raise serializers.ValidationError(
                 'Image width larger than 4096px!'
        return value
    def get_is_owner(self, obj):
        request = self.context['request']
        return request.user == obj.owner
    def get_like_id(self, obj):
```

Settings:



Results:

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```
from django.db import models
from django.db.models.signals import post_save
from django.contrib.auth.models import User
class Profile(models.Model):
    Profile model
    Extends user model
    class AgeGroup(models.TextChoices):
        A class for the age_group key
        Contains different age ranges to choose from
       TEENAGER = 'Teenager (10 - 18)',
       YOUNG_ADULT = 'Young Adult (19 - 25)',
       ADULT = 'Adult (26 - 40)',
       MIDDLE_AGED = 'Middle Aged (41 - 60)',
       SENIOR = 'Senior (>61)',
    owner = models.OneToOneField(User, on_delete=models.CASCADE)
    name = models.CharField(max_length=200, blank=True)
    age_group = models.CharField(
        max_length=50,
        choices=AgeGroup.choices
    brief_bio = models.TextField(blank=True)
    created_on = models.DateTimeField(auto_now_add=True)
    updated_on = models.DateTimeField(auto_now=True)
    # Default profile image
    image = models.ImageField(
        upload_to='images/', default='../default_profile_afxozd'
```

Settino





Results

All clear, no









```
from rest_framework import serializers
from .models import Profile
from followers.models import Follower
class ProfileSerializer(serializers.ModelSerializer):
    Serializer for Profile Model data
    owner = serializers.ReadOnlyField(source='owner.username')
    is_owner = serializers.SerializerMethodField()
    following id = serializers.SerializerMethodField()
    posts_count = serializers.ReadOnlyField()
    recommendations_count = serializers.ReadOnlyField()
    followers_count = serializers.ReadOnlyField()
    following_count = serializers.ReadOnlyField()
    def get_is_owner(self, obj):
        request = self.context['request']
        return request.user == obj.owner
    def get_following_id(self, obj):
        # checks if the logged in user is following any other profiles
        user = self.context['request'].user
        if user.is_authenticated:
            following = Follower.objects.filter(
                owner=user, followed=obj.owner
            ).first()
            return following.id if following else None
        return None
    class Meta:
        Metadata for Profile Serializer
```

Settino





Results

All clear, no

dels.py - be-inspired-drf-api - X O CI Python Linter + × roshnavakke-beinspiredd-wcpa9838shu.ws-eu89b.gitpod.io **Recommendations App** apps.py models.py X views.py M **EXPLORER** admin.py serializers.py urls.py recommendations > @ models.py > {} models BE-INSPIRED-DRF-API From django.db import models from django.contrib.auth.models import User > be_inspired_dr_api comments > docs class Recommendation(models.Model): > followers > likes Recommendation model > likes_recommendations class Category(models.TextChoices): > posts > profiles A class for the age group key 11 recommendations 12 Contains different age ranges to choose from 13 migrations BOOKS = 'Books', MUSIC = 'Music', ART = 'Art', __init__.py PERSON = 'Person', 17 0001_initial.py PLACE = 'Place', __init__.py MOVIES = 'Movies', admin.py OUTPUT PROBLEMS 3 **TERMINAL DEBUG CONSOLE PORTS** apps.py models.py > ! .gitpod.yml 3 serializers.py tests.py urls.py views.py М .gitignore OUTLINE TIMELINE P main* ↔ 🐼 0 Å 3 @ Shared In 1 Col 1 Spaces: 4 LITE-8 LE (Puthon 3.8.11.64-bit (3.8.11): pyeny)









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```
from django.db import models
from django.contrib.auth.models import User
class Recommendation(models.Model):
    Recommendation model
    class Category(models.TextChoices):
        A class for the age_group key
        Contains different age ranges to choose from
        BOOKS = 'Books',
        MUSIC = 'Music',
        ART = 'Art',
        PERSON = 'Person',
        PLACE = 'Place',
        MOVIES = 'Movies',
        EVENT = 'Event'
    class PriceCategory(models.TextChoices):
        Price categories for the user to choose
        FREE = 'Free',
        CHEAP = 'Cheap (€)',
        AVERAGE = 'Average (€€)',
        ABOVEAVERAGE = 'Above Average (€€€)',
        EXPENSIVE = 'Expensive (€€€€)',
    owner = models.ForeignKey(User, on_delete=models.CASCADE)
    title = models.CharField(max_length=200)
    category = models.CharField(
        max_length=50,
```

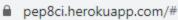
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code

CI Python Linter

```
from rest_framework import serializers
from .models import Recommendation
from likes.models import Like
class RecommendationSerializer(serializers.ModelSerializer):
    Class for RecommendationSerializer for Recommendation model
    owner = serializers.ReadOnlyField(source='owner.username')
    is_owner = serializers.SerializerMethodField()
    profile_id = serializers.ReadOnlyField(source='owner.profile.id')
    profile_image = serializers.ReadOnlyField(source='owner.profile.image.url')
    comments_count = serializers.ReadOnlyField()
    likes_count = serializers.ReadOnlyField()
    like_id = serializers.SerializerMethodField()
    def validate_image(self, value):
        if value.size > 2 * 1024 * 1024:
            raise serializers.ValidationError('Image size larger than 2MB!')
        if value.image.height > 4096:
            raise serializers. ValidationError(
                'Image height larger than 4096px!'
        if value.image.width > 4096:
            raise serializers.ValidationError(
                'Image width larger than 4096px!'
        return value
    def get_is_owner(self, obj):
        request = self.context['request']
        return request.user == obj.owner
    def get_like_id(self, obj):
```

Settings:



Results: