

Topic: 16. DRF Searching

Speaker: Personal / Notebook: API Development using Django Framework

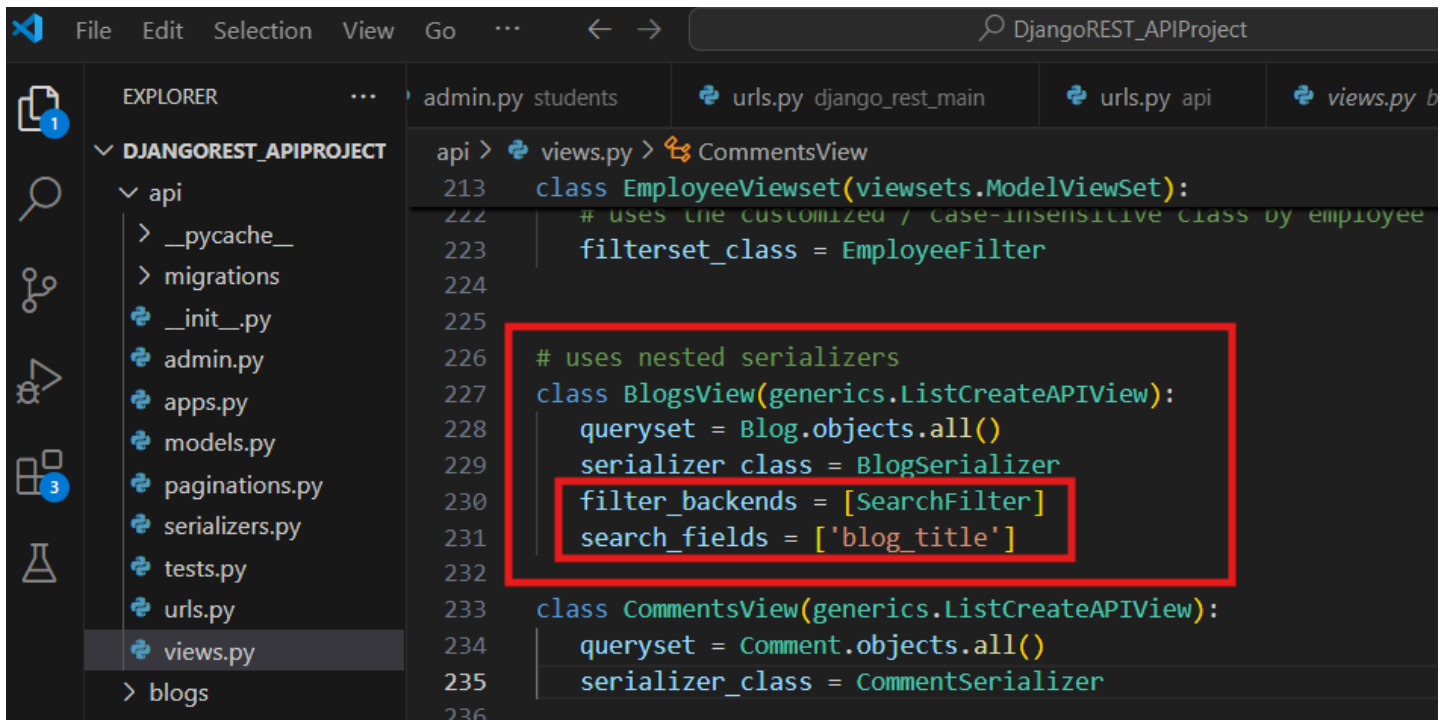


We can search through the database fields like BLOGS' title or comments.

1. Go to APIVIEWS.PY:

The screenshot shows a code editor with the Django REST API project structure on the left and the contents of `views.py` on the right. The Explorer panel on the left shows the project structure, with `views.py` selected under the `api` directory. The main editor area shows the code for `views.py`, which includes imports for Django, Django REST Framework, and various models and serializers. The line `from rest_framework.filters import SearchFilter` is highlighted with a red box.

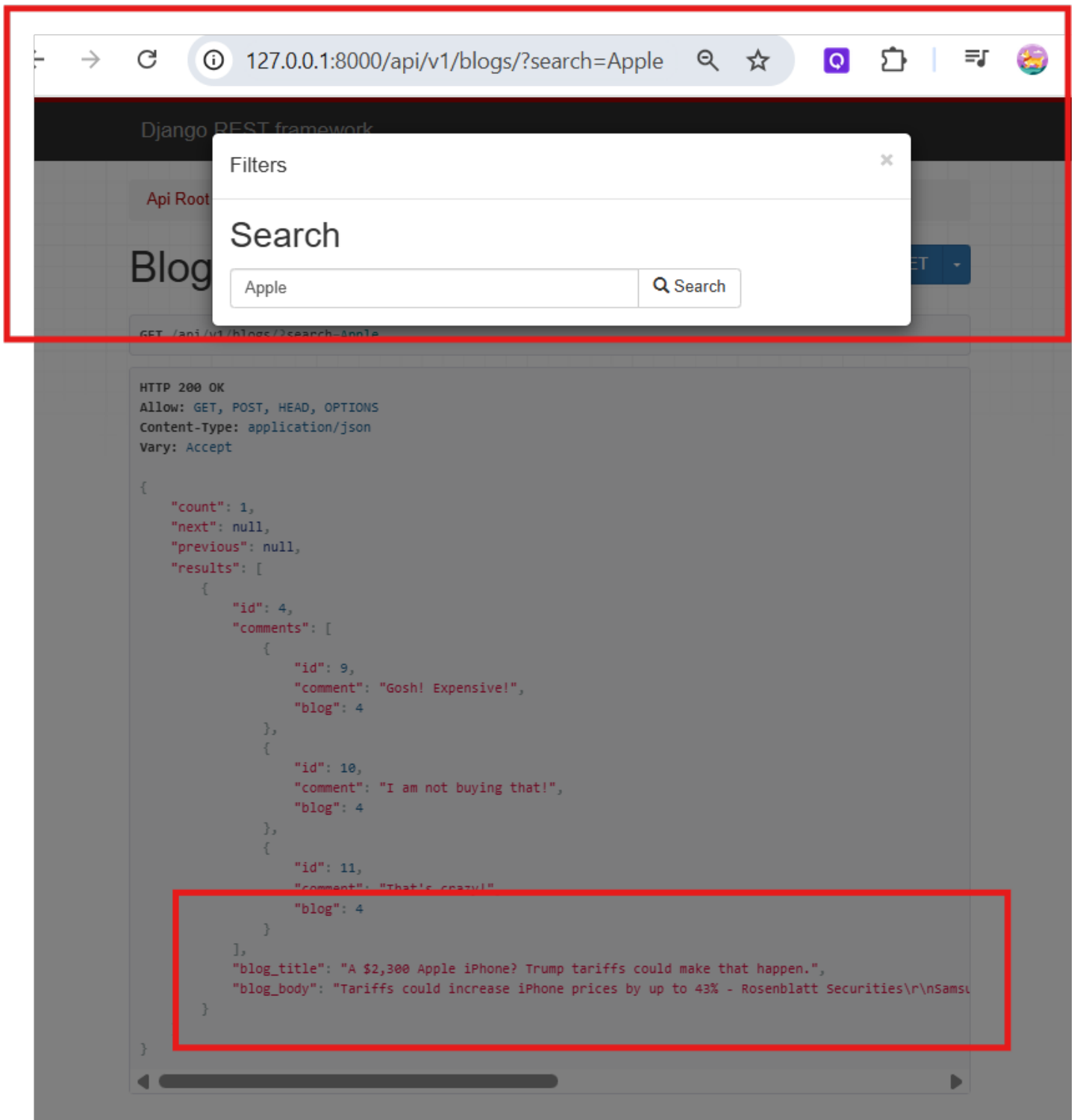
```
api > views.py > ...
1  from django.shortcuts import render, get_object_or_404
2  # from django.http import JsonResponse
3  from students.models import Student
4  from employees.models import Employee
5
6  from .serializers import StudentSerializer, EmployeeSerializer
7  from rest_framework.response import Response
8  from rest_framework import status
9  from rest_framework.decorators import api_view
10 from rest_framework.views import APIView
11 from django.http import Http404
12
13 from rest_framework import mixins, generics, viewsets
14 from blogs.models import Blog, Comment
15 from blogs.serializers import BlogSerializer, CommentSerializer
16 from .paginations import CustomPagination
17 from employees.filters import EmployeeFilter
18 from rest_framework.filters import SearchFilter
19
20
21
```



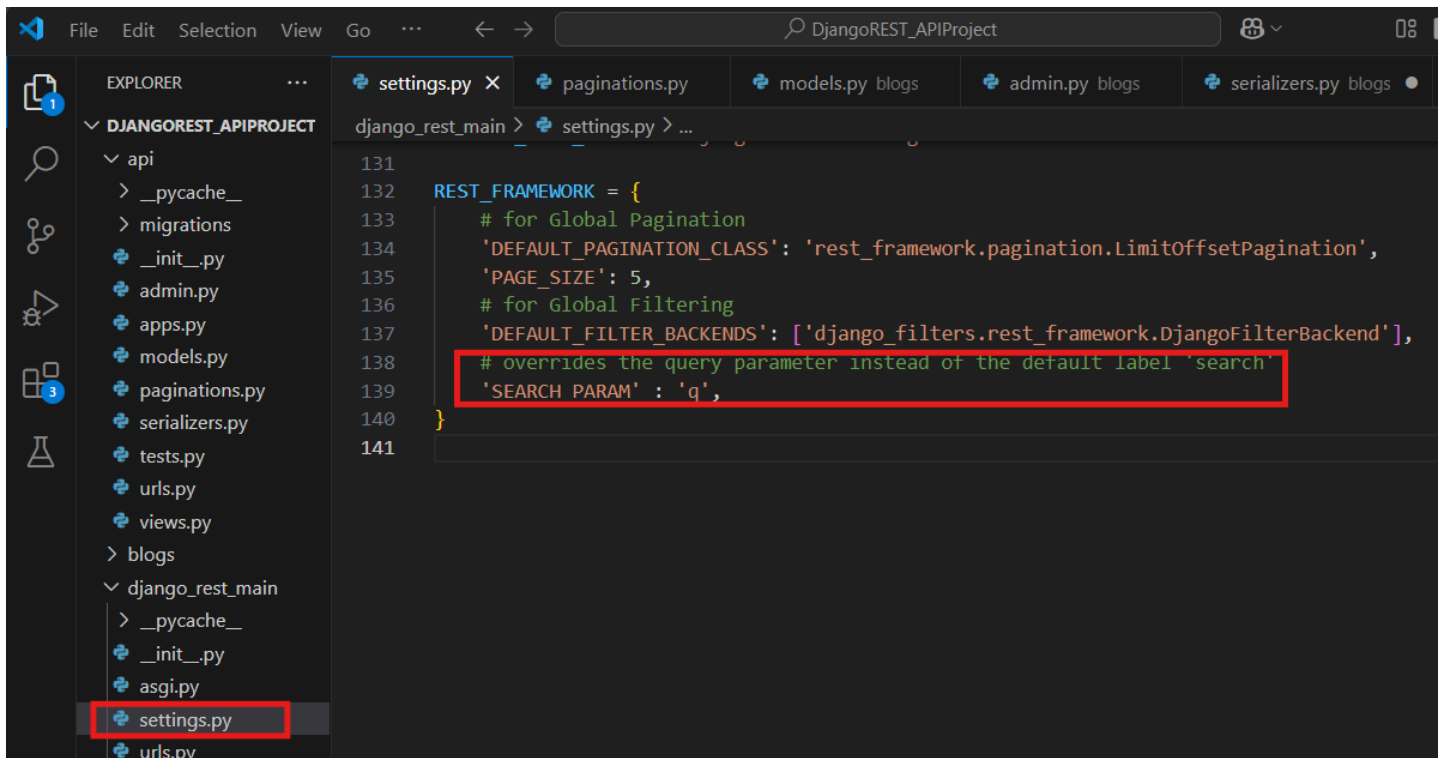
The screenshot shows a code editor with the Django REST API project open. The Explorer on the left shows the project structure, with the 'api' directory expanded. The main editor shows the 'views.py' file. The code defines two views: 'EmployeeViewSet' and 'BlogsView'. The 'BlogsView' class is highlighted with a red box, and its 'filter_backends' and 'search_fields' attributes are further highlighted with a red box.

```
213 class EmployeeViewSet(viewsets.ModelViewSet):
222     # uses the customized / case-insensitive class by employee
223     filterset_class = EmployeeFilter
224
225
226     # uses nested serializers
227     class BlogsView(generics.ListCreateAPIView):
228         queryset = Blog.objects.all()
229         serializer_class = BlogSerializer
230         filter_backends = [SearchFilter]
231         search_fields = ['blog_title']
232
233     class CommentsView(generics.ListCreateAPIView):
234         queryset = Comment.objects.all()
235         serializer_class = CommentSerializer
236
```

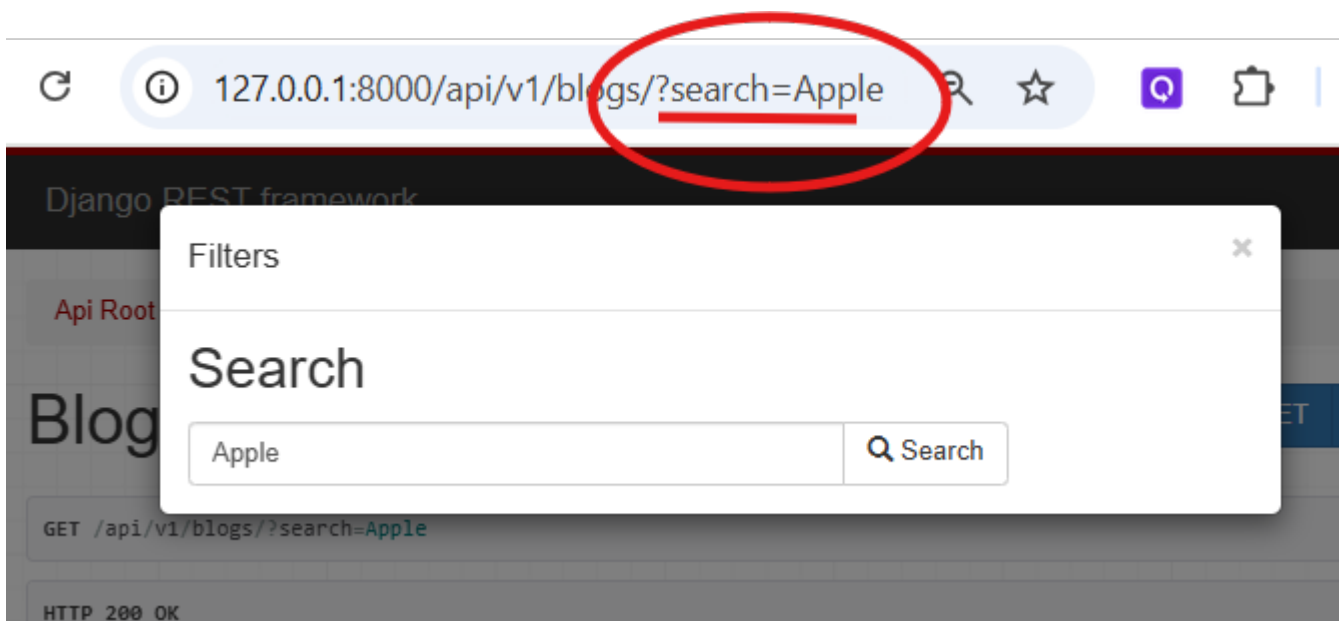
2. Now search thru BLOGS model:



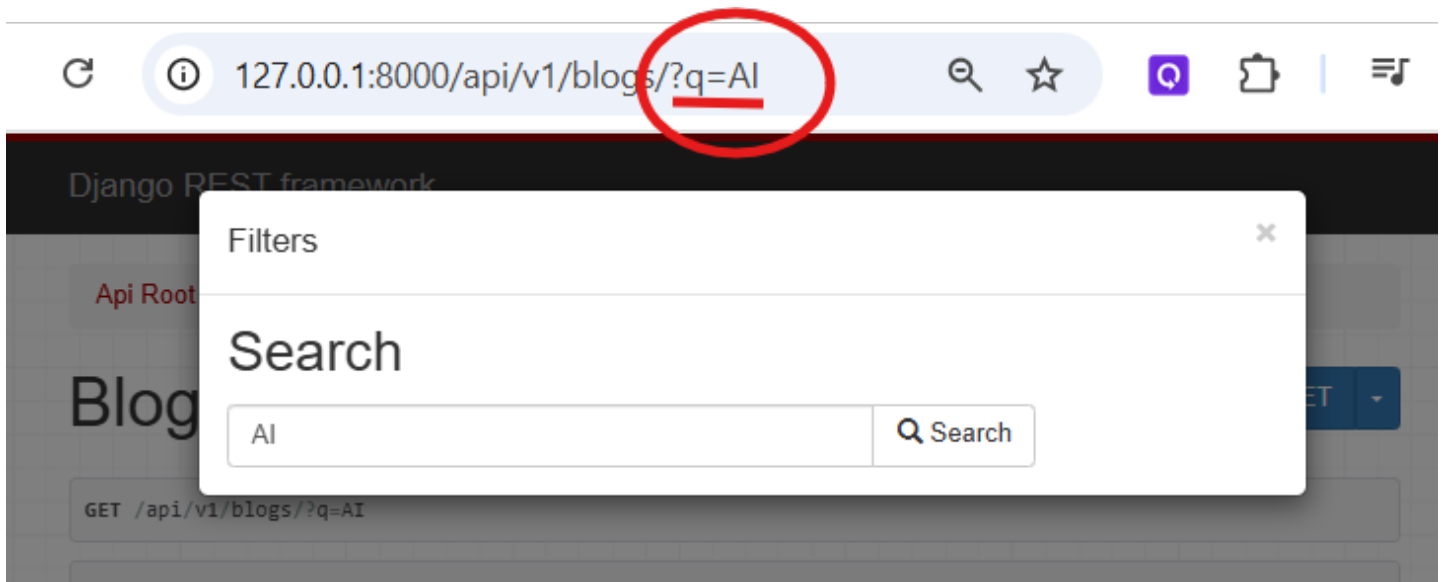
3. If you want to change the search keyword 'search' to 'q,' then update the SETTINGS.PY



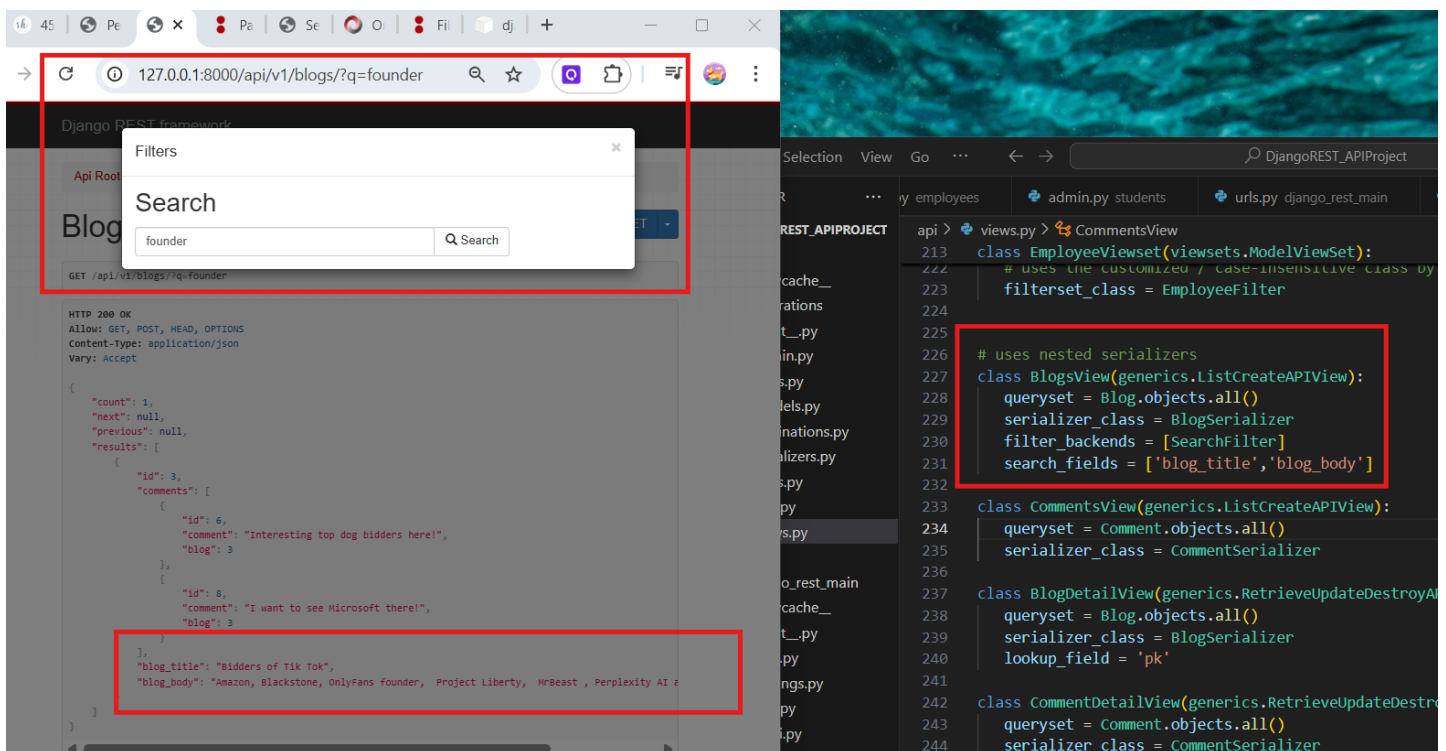
FROM:



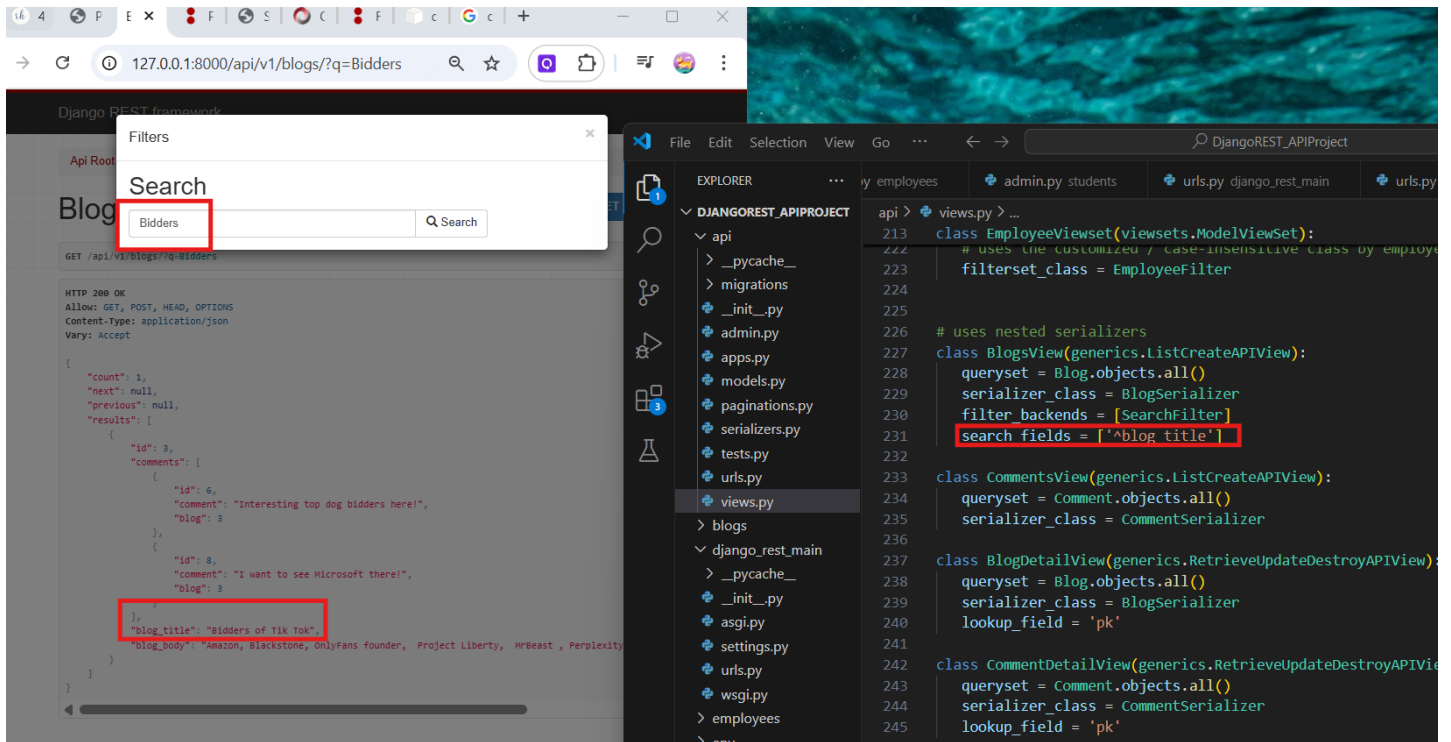
TO:



4. To search through the BLOG_BODY:



5. To search for a blog title that starts with a specific keyword, use the caret symbol (^).



But when you use a keyword, not the actual starting word, it won't show any result.

