

Topic: 17. DRF Ordering / Sorting

Speaker: Personal / Notebook: API Development using Django Framework



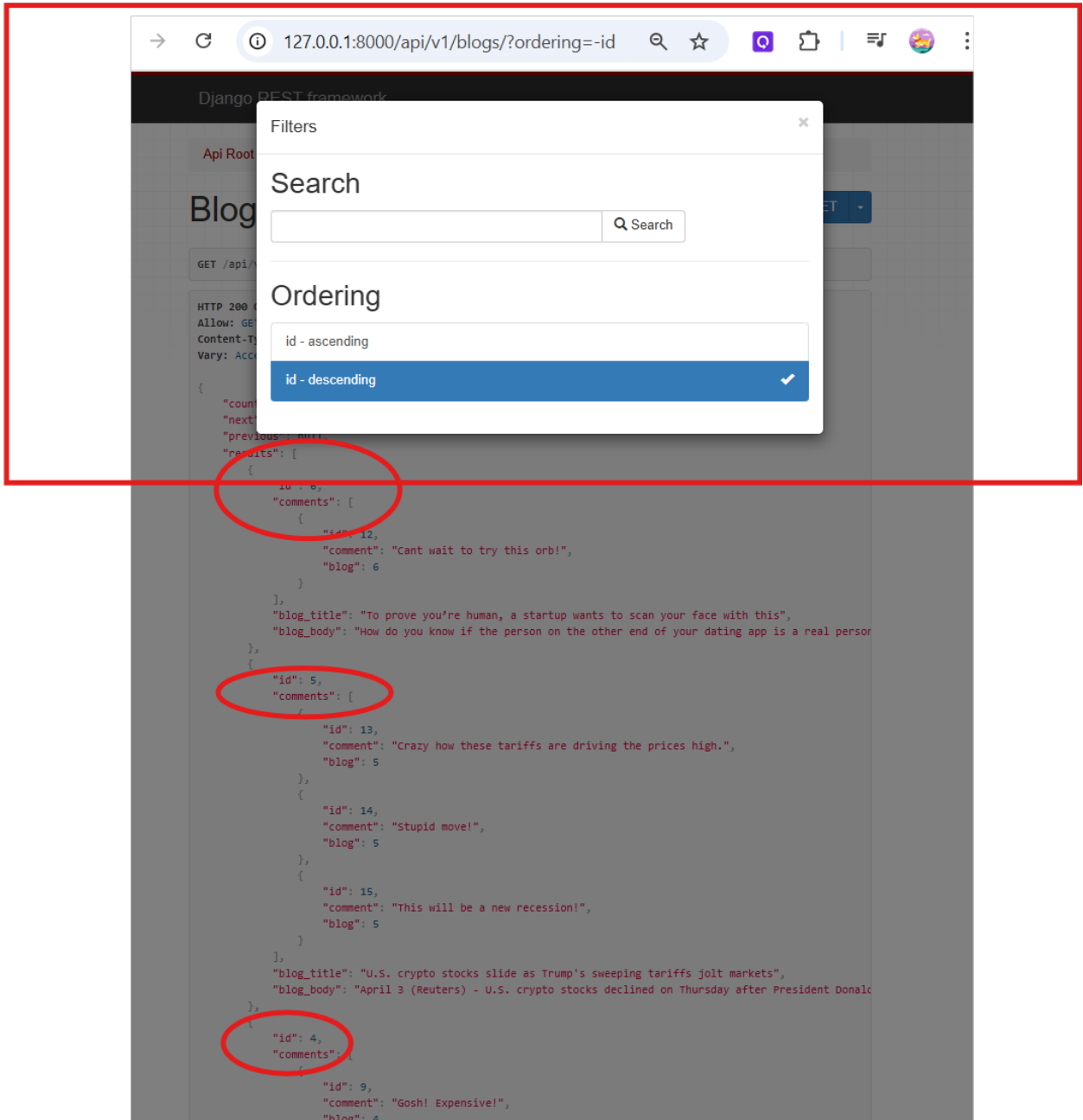
1. This comes from the `REST_FRAMEWORK.FILTERS`. Update the `APIVIEWS.PY` as:

```
File Edit Selection View Go ... DjangoREST_APIProject
EXPLORER
  DJANGOREST_APIPROJECT
    api
      > __pycache__
      > migrations
      > __init__.py
      > admin.py
      > apps.py
      > models.py
      > paginations.py
      > serializers.py
      > tests.py
      > urls.py
      > views.py
      > blogs
  > django_rest_main
  > __pycache__
  > employees
  > admin.py
  > students
  > urls.py
  > django_rest_main
  > urls.py
  > api
  > views.py
  > ...
  > 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, OrderingFilter
  > 19
  > 20
  > 21
  > 22 #Function-based views
  > 23
  > 24 @api_view(['GET', 'POST'])
  > 25 def studentsView(request):
```

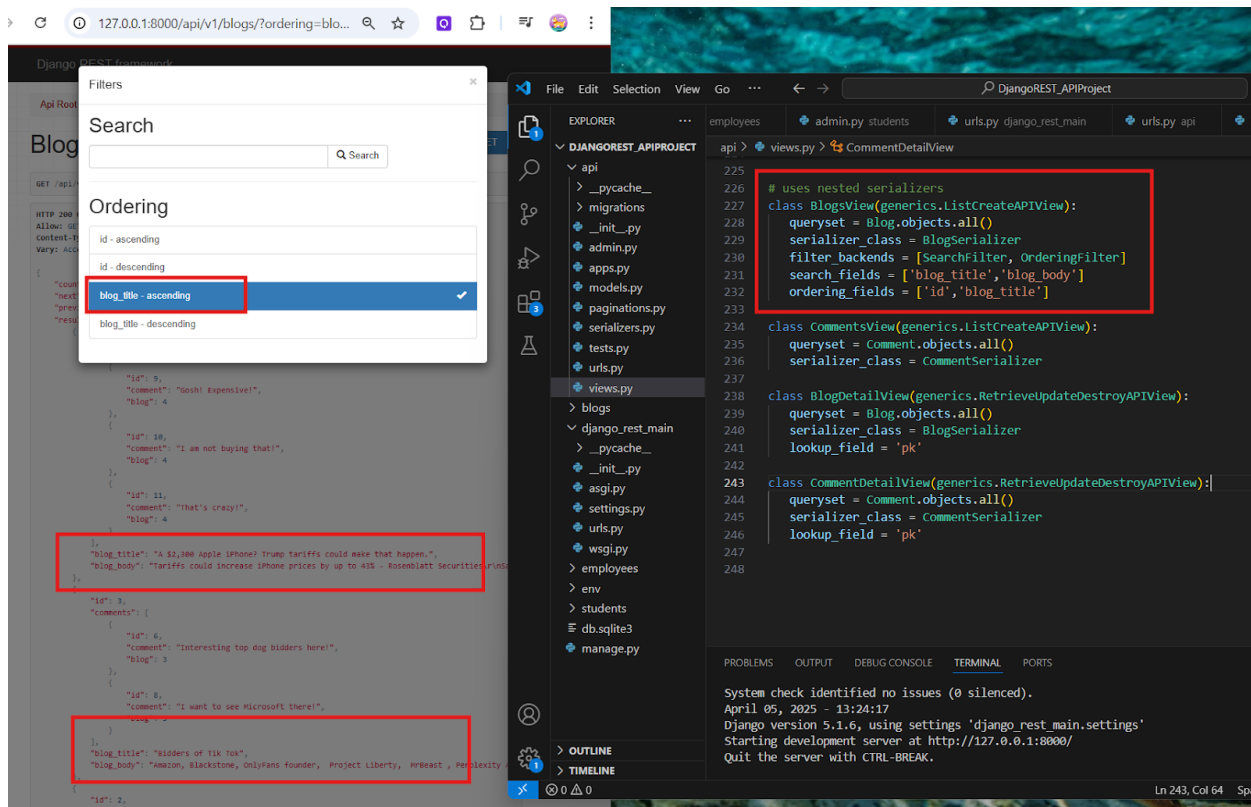
Update the `BlogsView` class:

```
File Edit Selection View Go ... DjangoREST_APIProject
EXPLORER
  DJANGOREST_APIPROJECT
    api
      > __pycache__
      > migrations
      > __init__.py
      > admin.py
      > apps.py
      > models.py
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      > views.py
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  > django_rest_main
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  > urls.py
  > django_rest_main
  > urls.py
  > api
  > views.py
  > ...
  > 225
  > 226 # uses nested serializers
  > 227 class BlogsView(generics.ListCreateAPIView):
  > 228     queryset = Blog.objects.all()
  > 229     serializer_class = BlogSerializer
  > 230     filter_backends = [SearchFilter, OrderingFilter]
  > 231     search_fields = ['blog_title', 'blog_body']
  > 232     ordering_fields = ['id']
  > 233
  > 234 class CommentsView(generics.ListCreateAPIView):
  > 235     queryset = Comment.objects.all()
  > 236     serializer_class = CommentSerializer
  > 237
  > 238 class BlogDetailView(generics.RetrieveUpdateDestroyAPIView):
  > 239     queryset = Blog.objects.all()
  > 240     serializer_class = BlogSerializer
  > 241     lookup_field = 'pk'
```

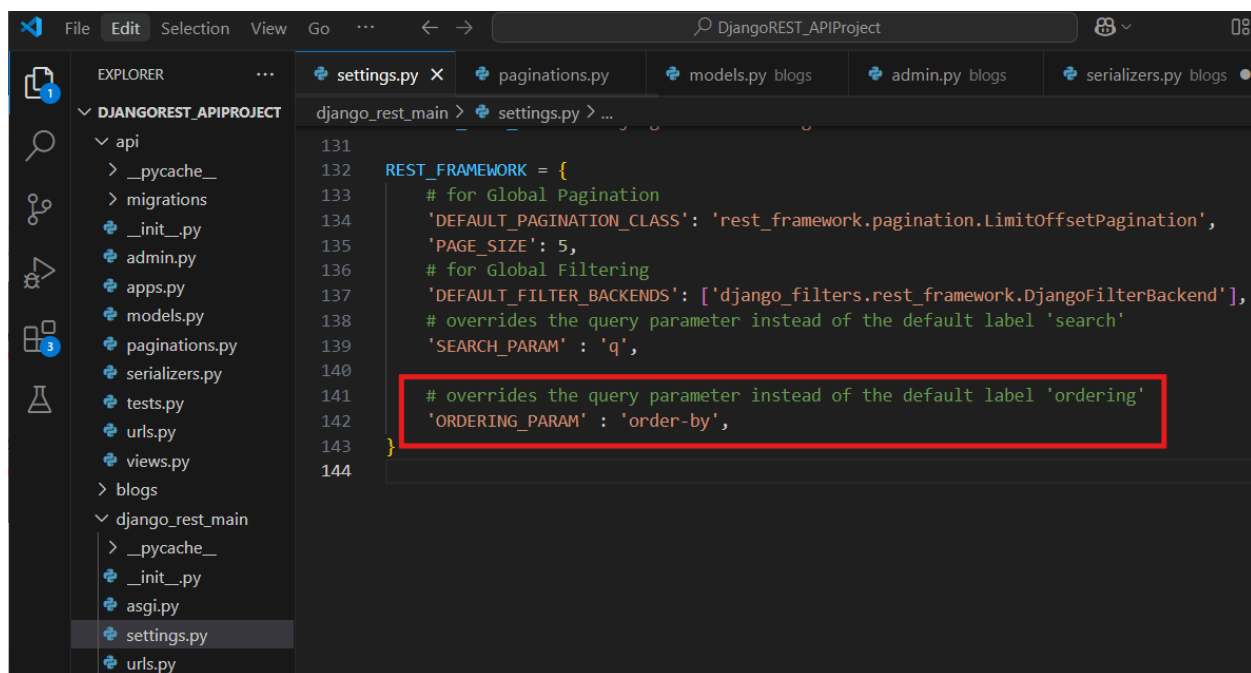
2. Run your browser and you can view the IDs in ascending or descending order.



3. You can also sort by `blog_title`:



4. Just like the SEARCH_PARAM where we override it with our own label, we can do the same thing for ordering, we use the ORDERING_PARAM. Add this in our SETTINGS.PY:



127.0.0.1:8000/api/v1/blogs/?order-by=-blog_title

Django REST framework

Api Root / Blogs

Blogs

GET /api/v1/blogs/?order-by=-blog_title

HTTP 200 OK

Allow: GET, POST, HEAD, OPTIONS
Content-Type: application/json
Vary: Accept

```
{
  "count": 5,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 5,
      "comments": [
        {
          "id": 13,
          "comment": "Crazy how these tariffs are driving the prices high.",
          "blog": 5
        },
        {
          "id": 14,
          "comment": "Stupid move!",
          "blog": 5
        },
        {
          "id": 15,
          "comment": "This will be a new recession!",
          "blog": 5
        }
      ],
      "blog_title": "U.S. crypto stocks slide as Trump's sweeping tariffs jolt markets",
      "blog_body": "April 3 (Reuters) - U.S. crypto stocks declined on Thursday after President Donald Trump's latest round
    },
    {
      "id": 6,
      "comments": [
        {
          "id": 12,
          "comment": "Cant wait to try this orbi!",
          "blog": 6
        }
      ],
      "blog_title": "To prove you're human, a startup wants to scan your face with this",
      "blog_body": "How do you know if the person on the other end of your dating app is a real person or AI? That's exactl
    },
    {
      "id": 2,
```

Filters

Search

Ordering

id - ascending

id - descending

blog_title - ascending

blog_title - descending

