Topic: 12. Nested Serializers for Related Models Part 1

Speaker: Personal | Notebook: API Development using Django Framework

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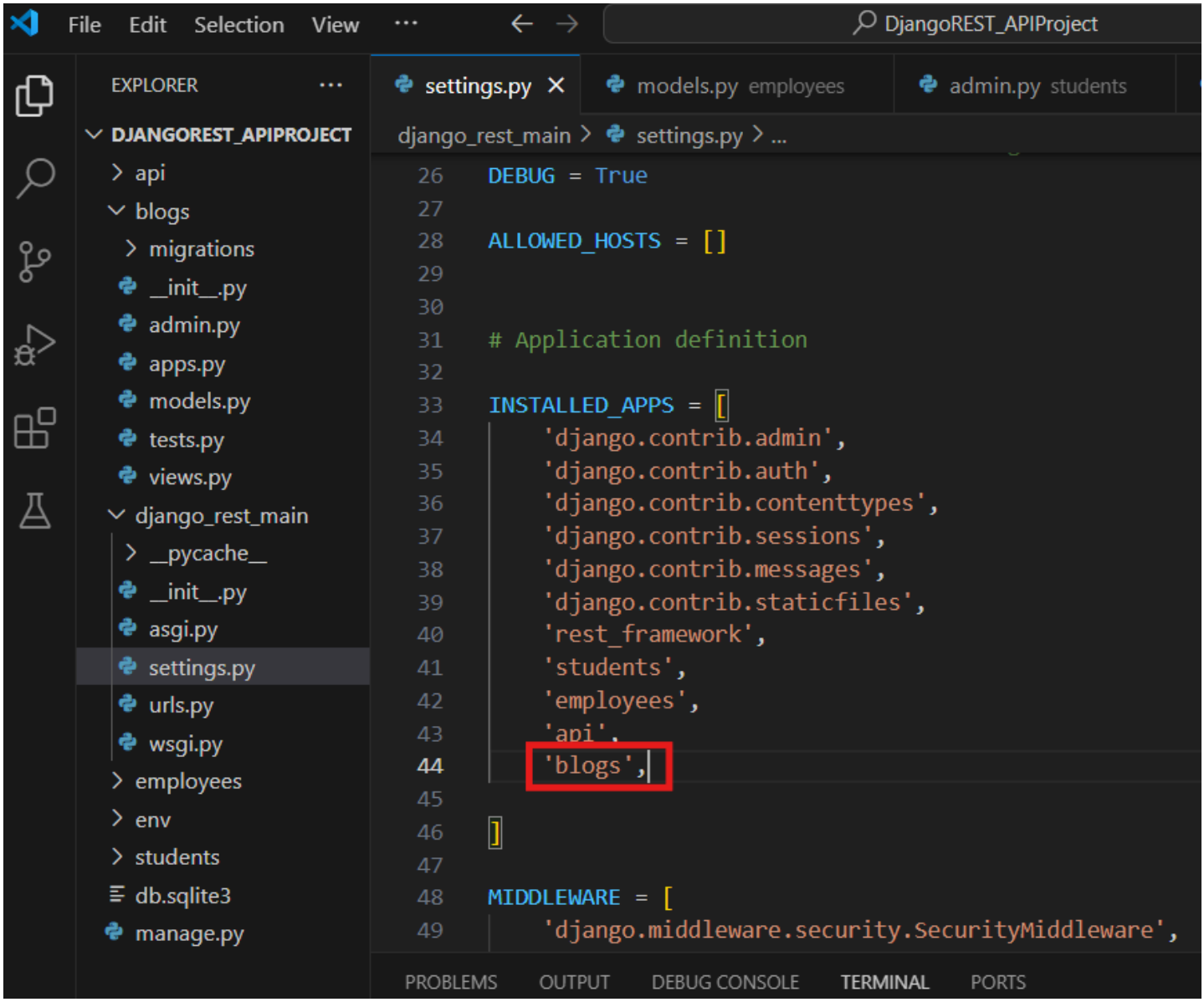
For additional reference, use RestAPI Documentation on nested serializer.

You can use the Online JSON Viewer to see/view the code or text.

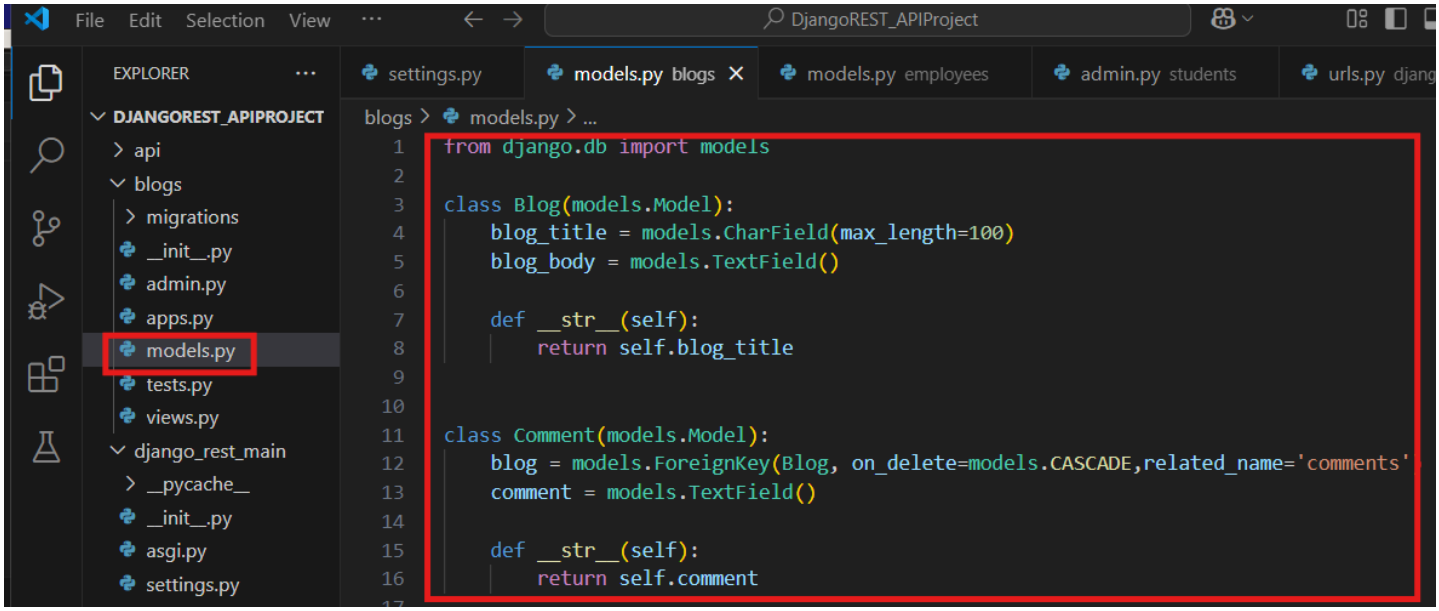
1. Create the new app BLOGS where each blog post may have several comments. In the terminal, use the create startapp command:

```
(env)
rosil@LearnCodeRepeat MINGW64 /c/Users/rosil/OneDrive/Documents/MyCodingCareer/Django Projects/API De
REST_APIProject
$ python manage.py startapp blogs
```

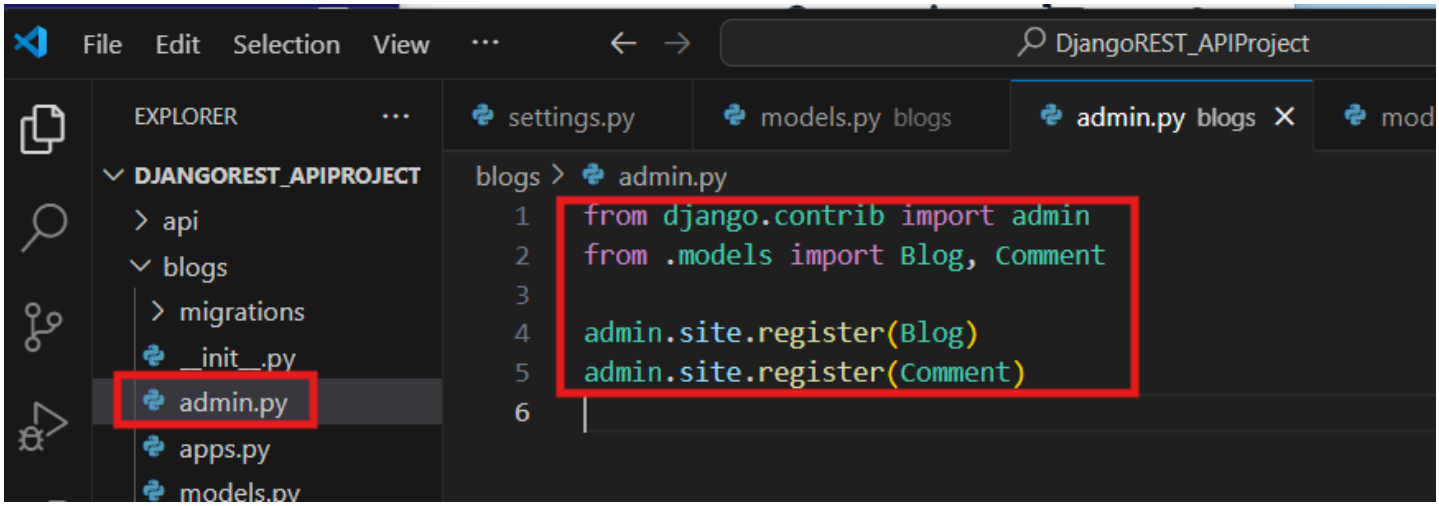
2. Register this new app in the SETTINGS.PY:



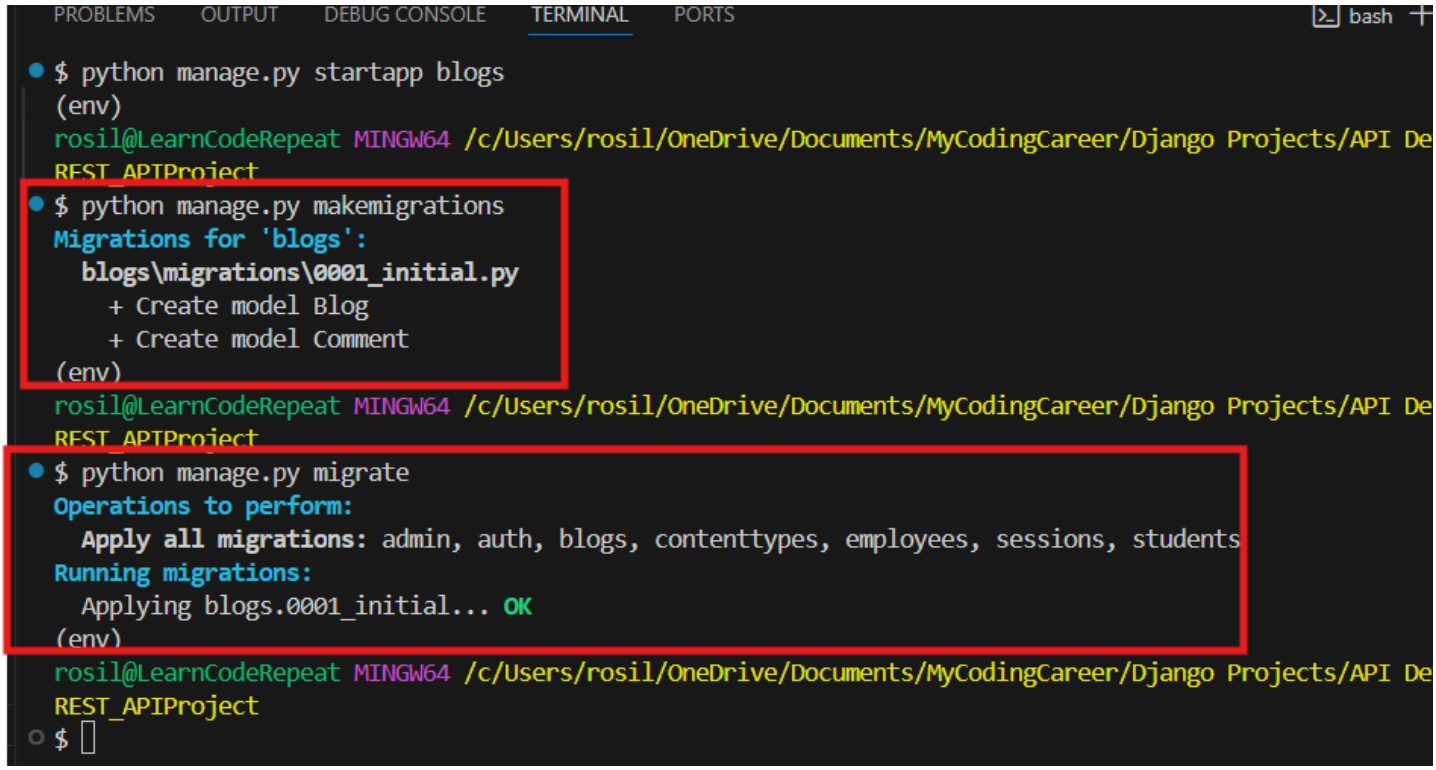
3. Create the models BLOG POST AND COMMENTS:



4. Register the models in ADMIN.PY:

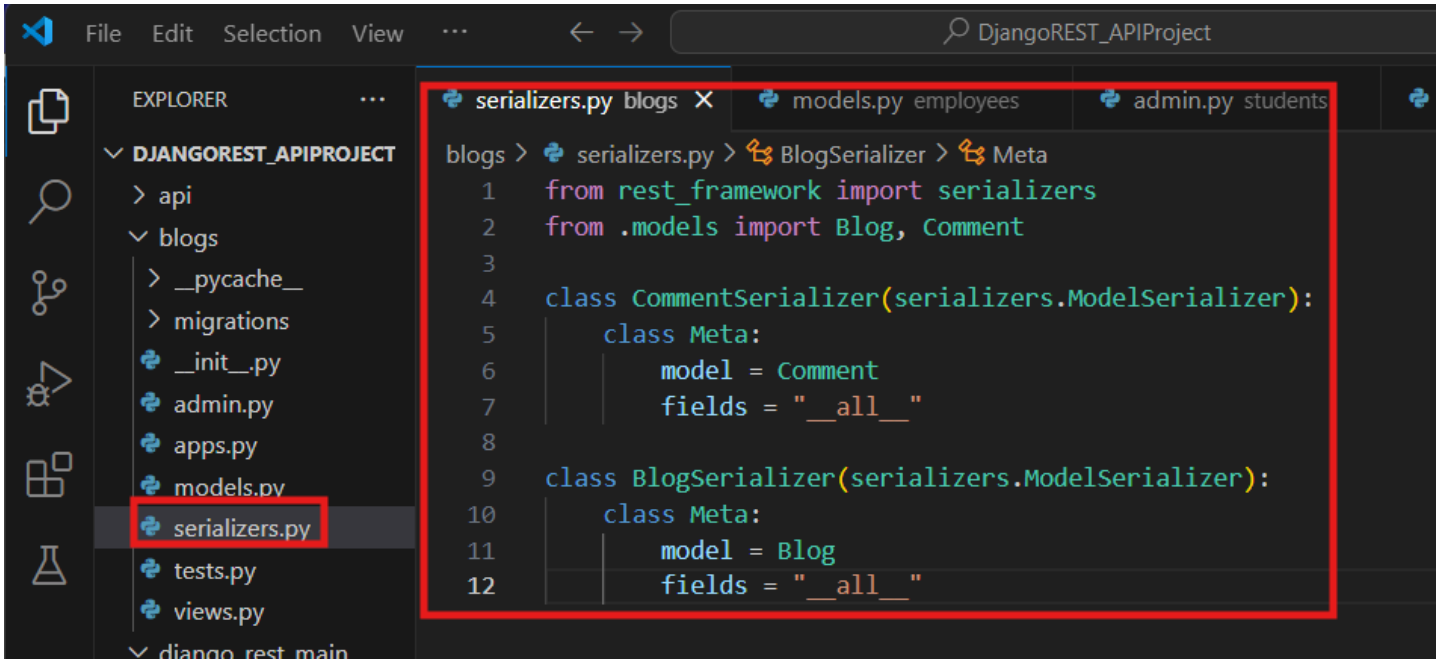


5. Make the migrations.

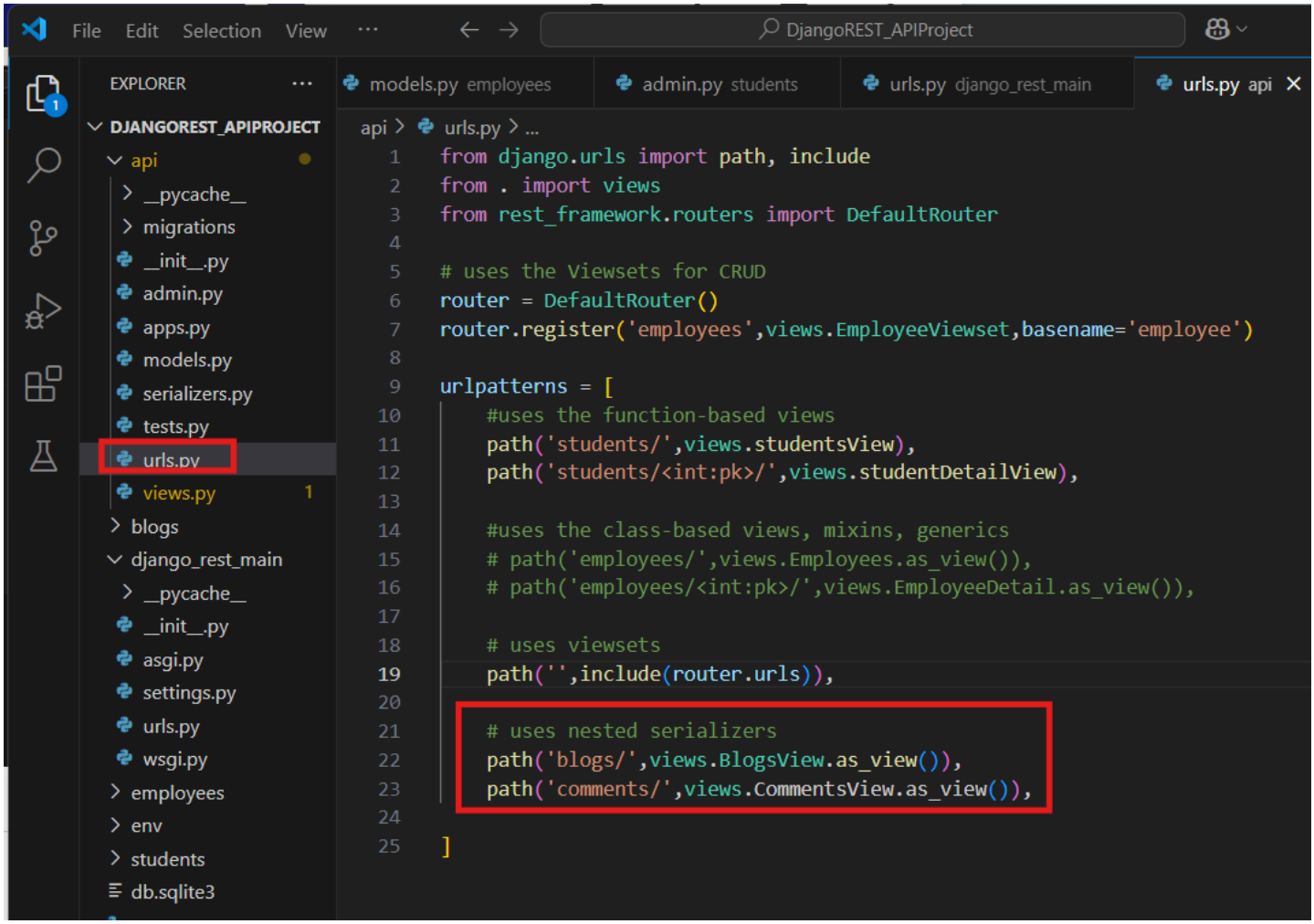


6. Use the admin dashboard to add a new record.

7. Create a new file SERIALIZER in the BLOG FOLDER. You may also use the serializer.py in the API folder. This may work so add the serializers.py where you want it. For organization, have it in the app you want to use the serializer with.

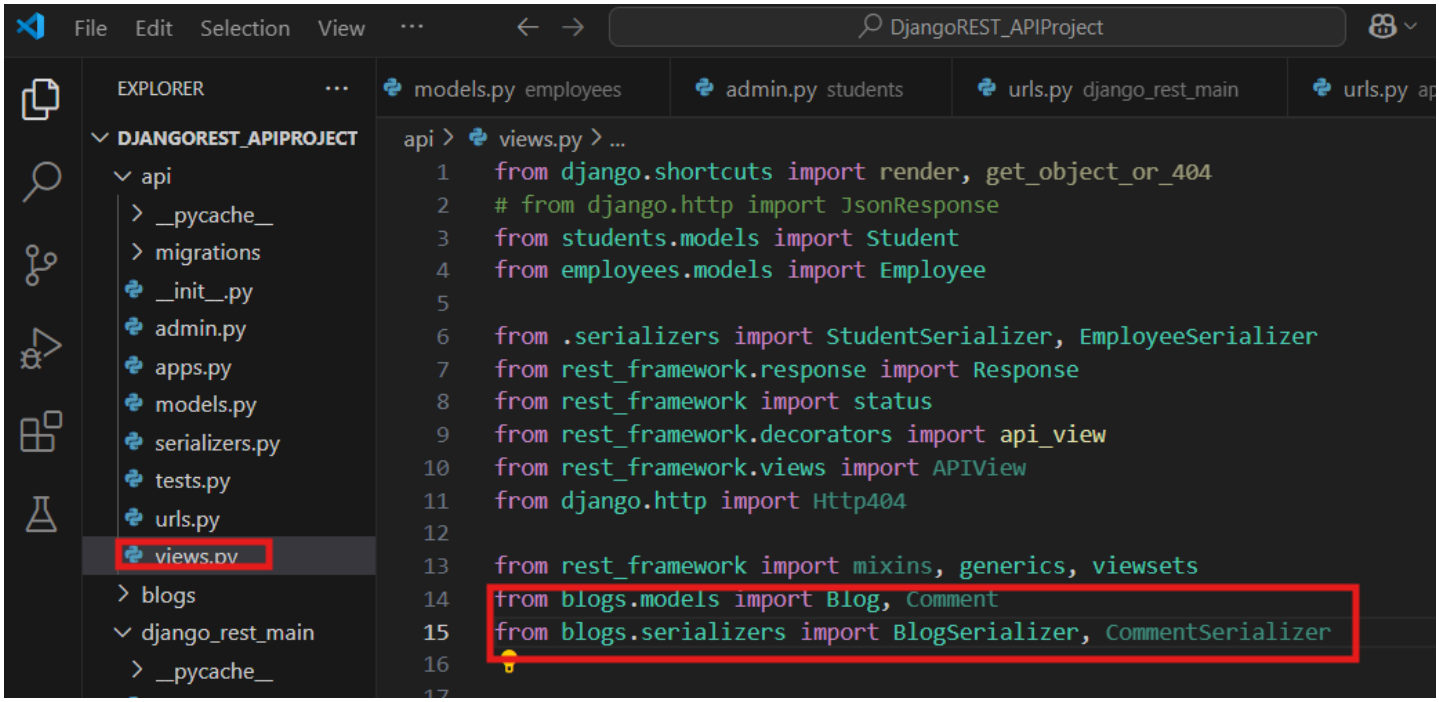


8. Create the path in the API\URLS.PY:

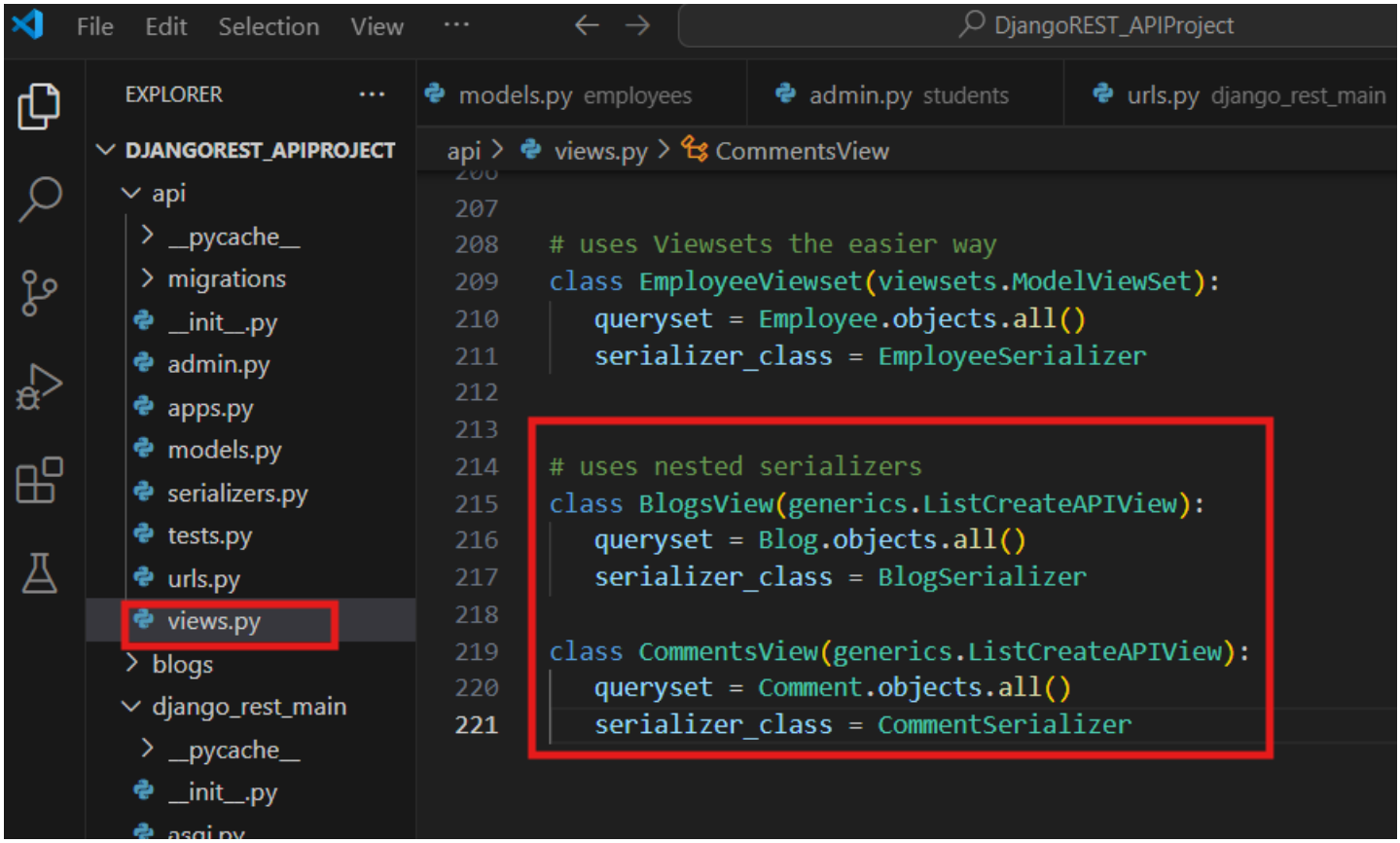


9. Update the VIEWS.PY.

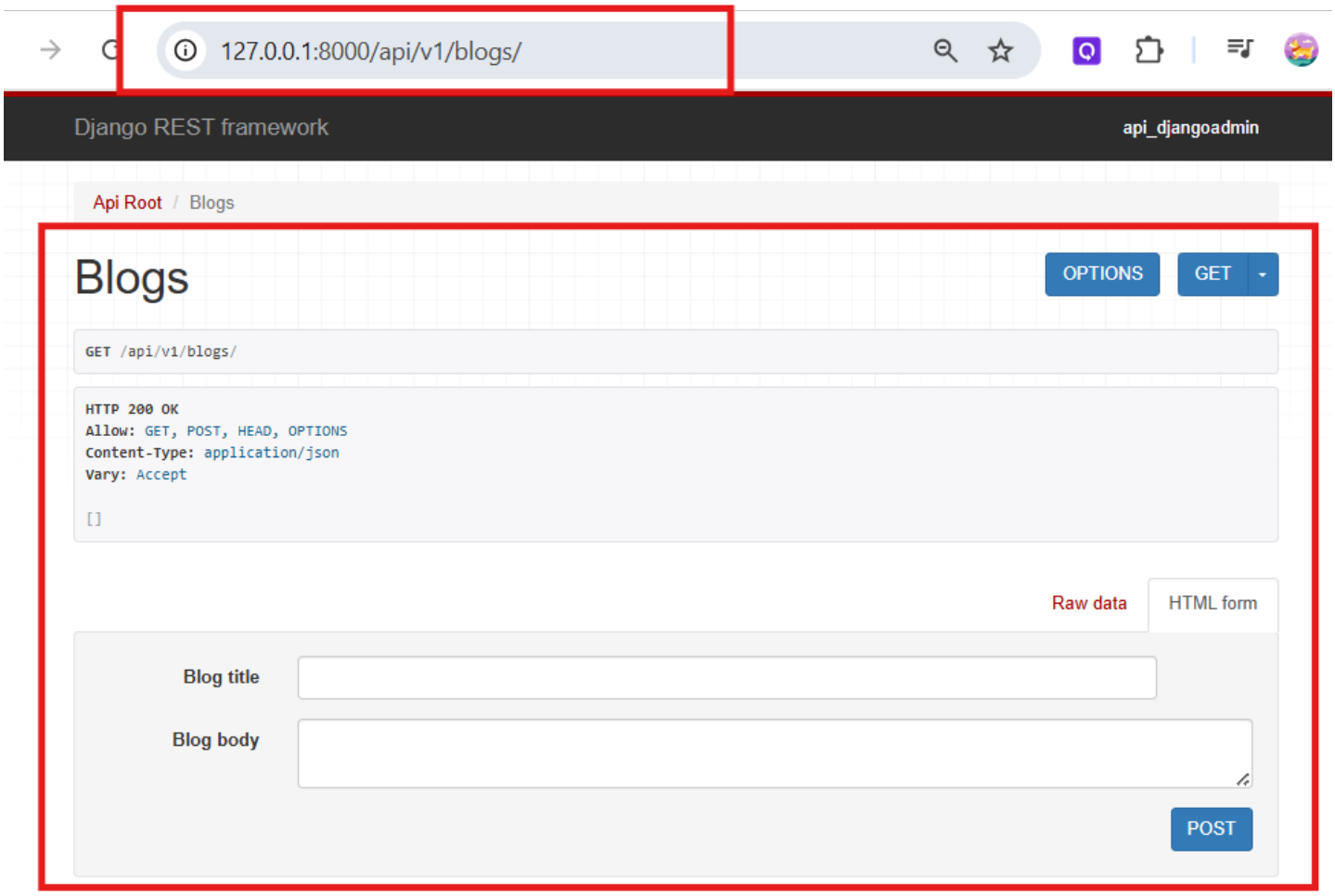
Add the models BLOG & COMMENT:

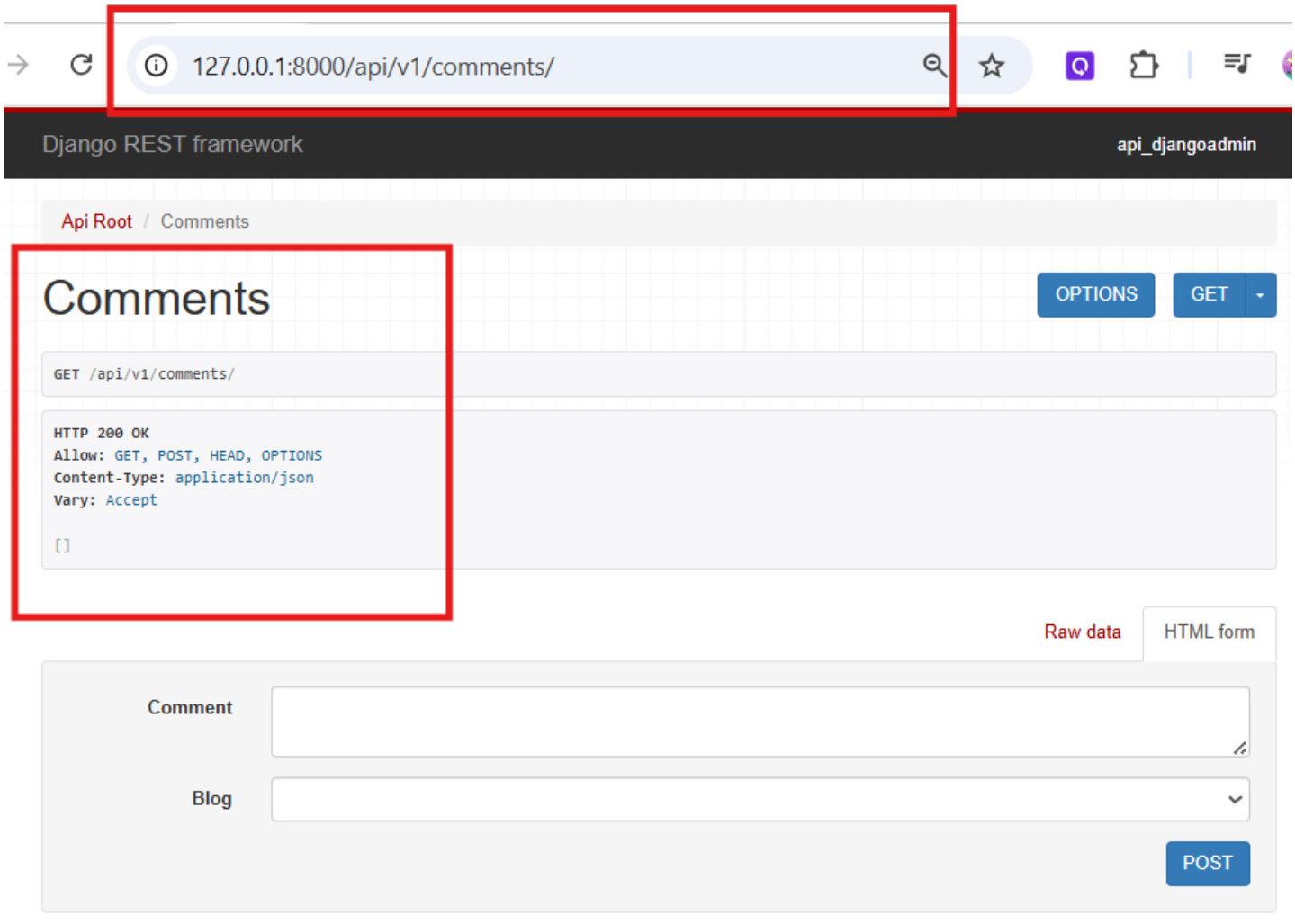


Create the classes in the VIEWS.PY:

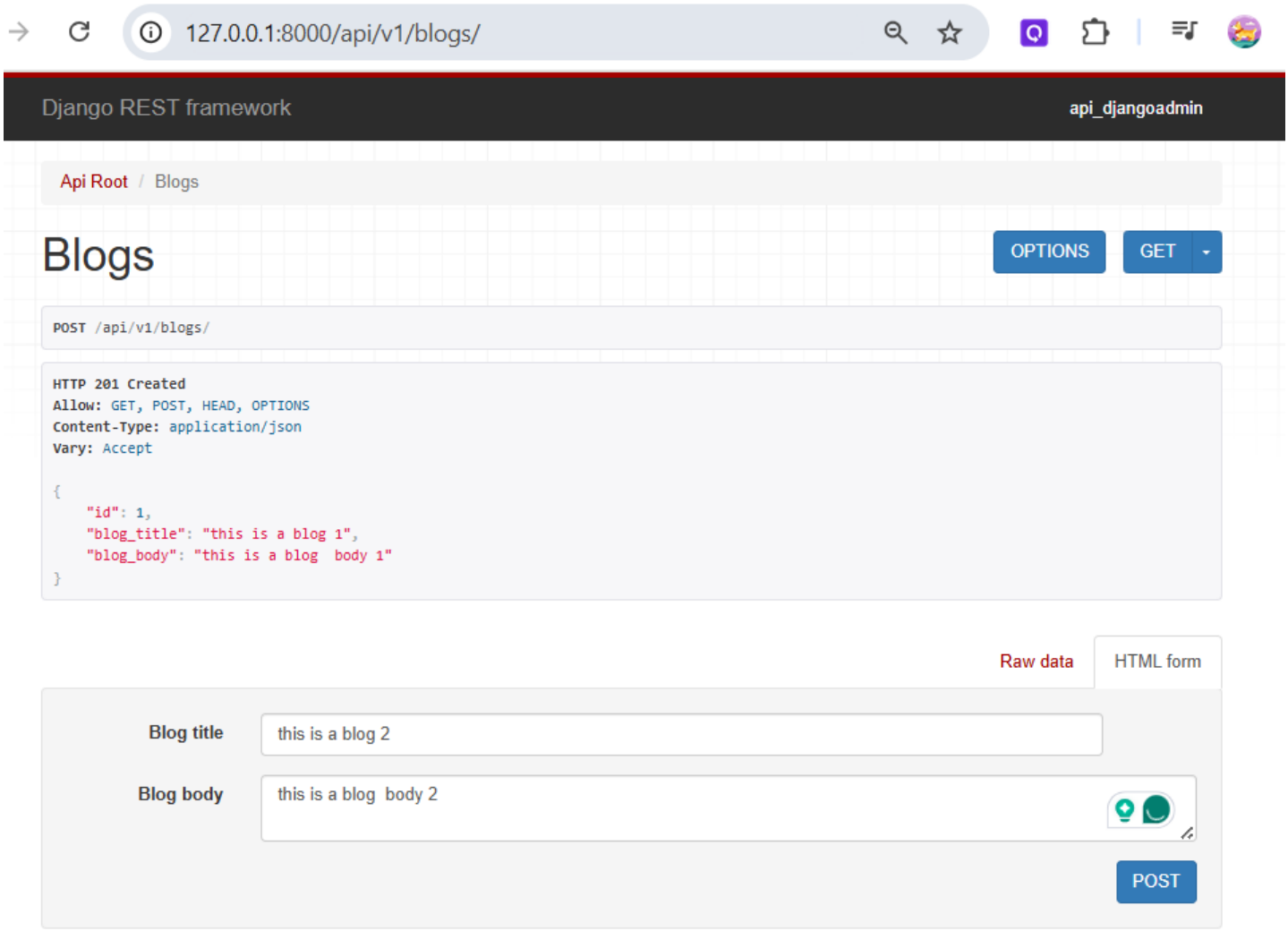


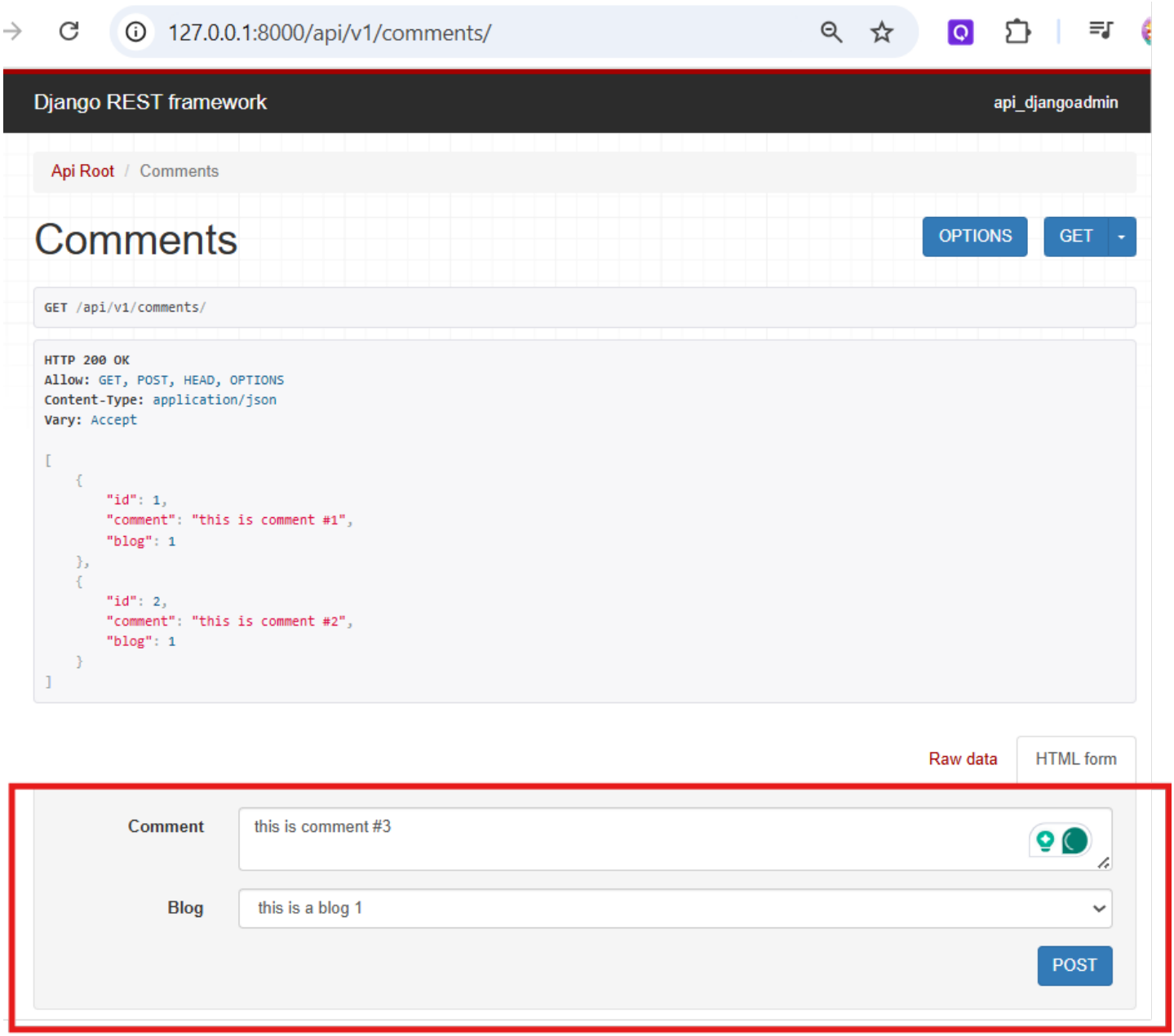
10. View the BLOG and COMMENT models:


127.0.0.1:8000/api/v1/blogs/
Django REST framework
api_djangoadmin
Api Root / Blogs
Blogs
OPTIONS
GET
GET /api/v1/blogs/
HTTP 200 OK
Allow: GET, POST, HEAD, OPTIONS
Content-Type: application/json
Vary: Accept
[]
Raw data
HTML form
Blog title
Blog body
POST

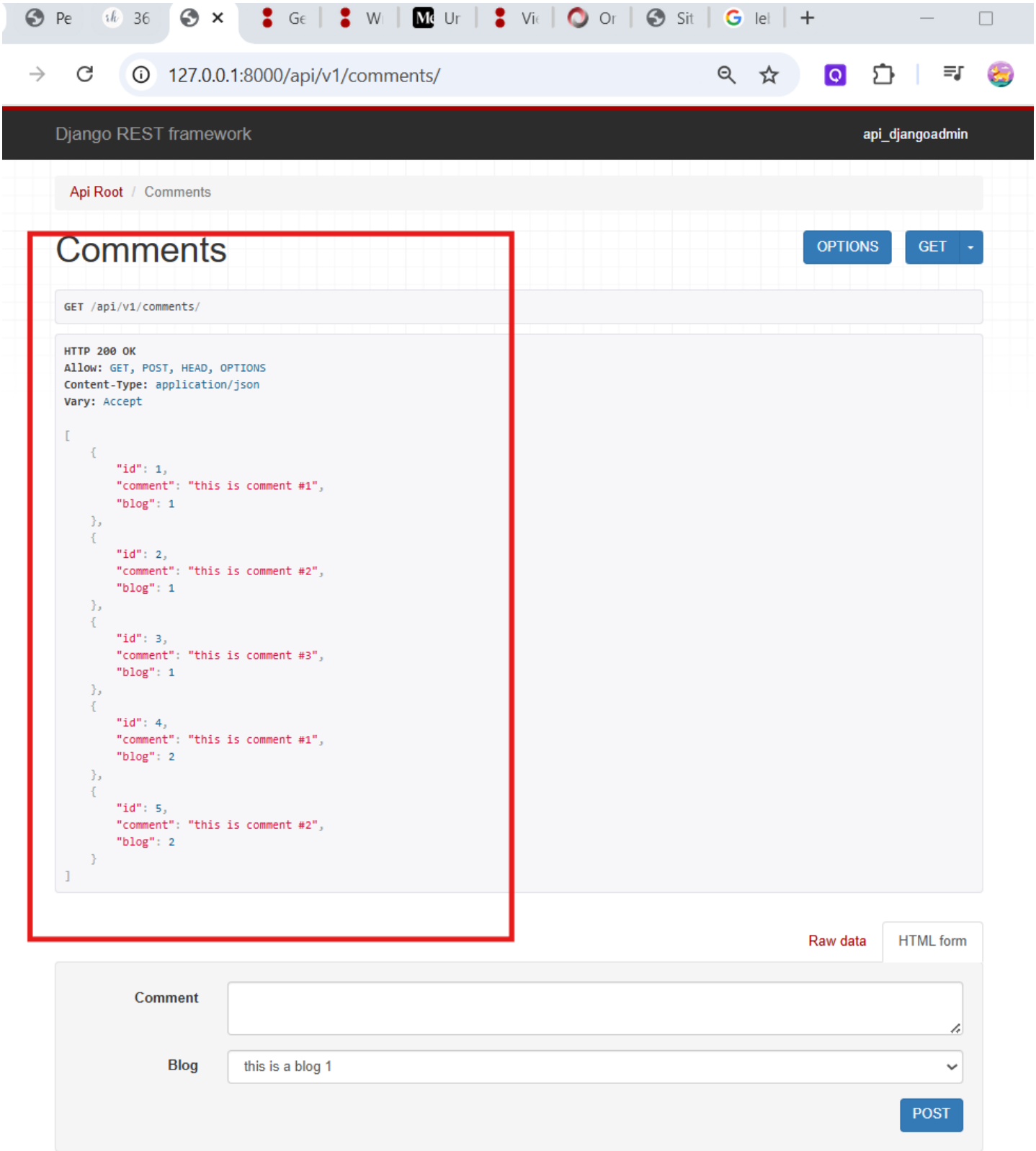

127.0.0.1:8000/api/v1/comments/
Django REST framework
api_djangoadmin
Api Root / Comments
Comments
OPTIONS
GET
GET /api/v1/comments/
HTTP 200 OK
Allow: GET, POST, HEAD, OPTIONS
Content-Type: application/json
Vary: Accept
[]
Raw data
HTML form
Comment
Blog
POST

11. Add new records.

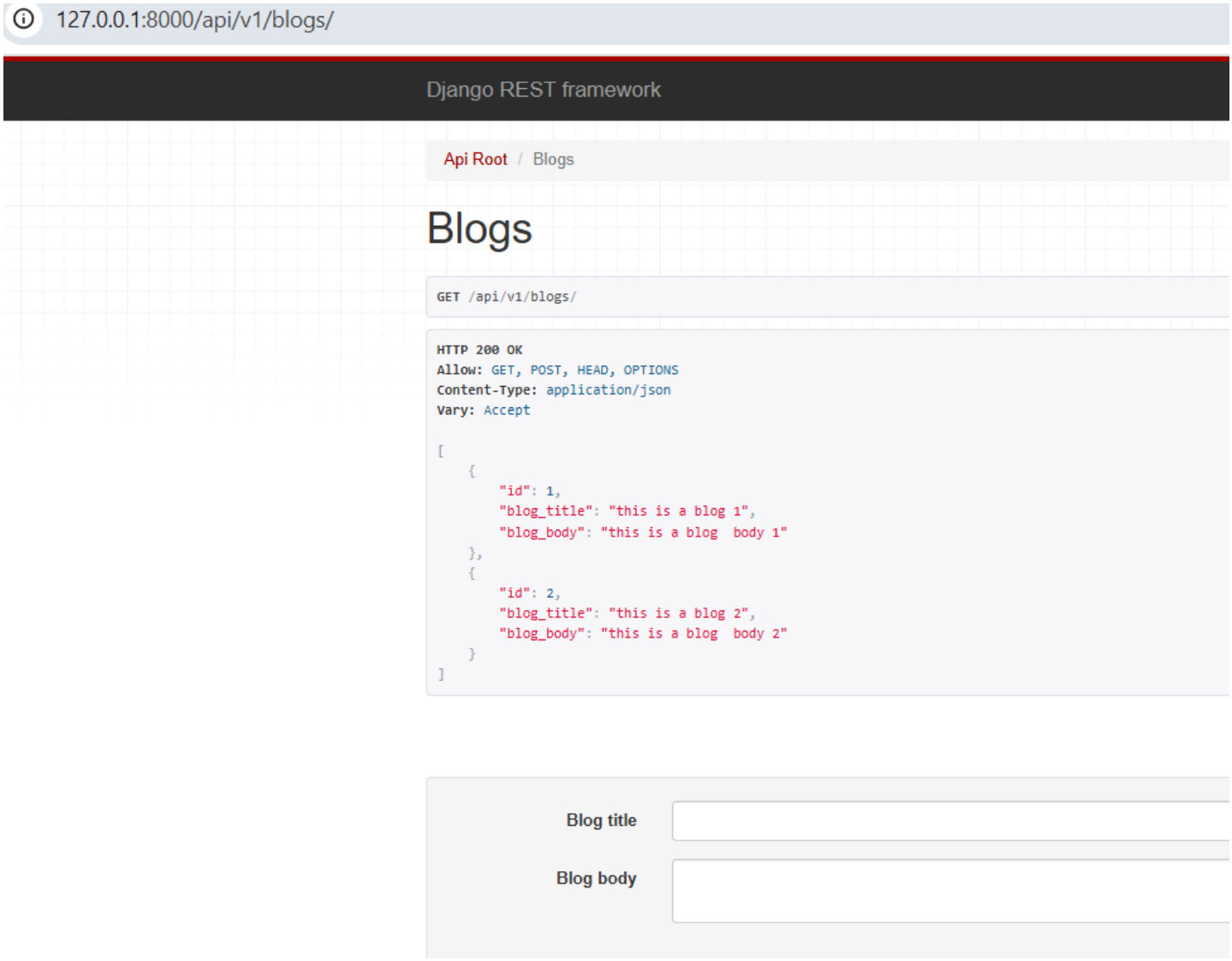




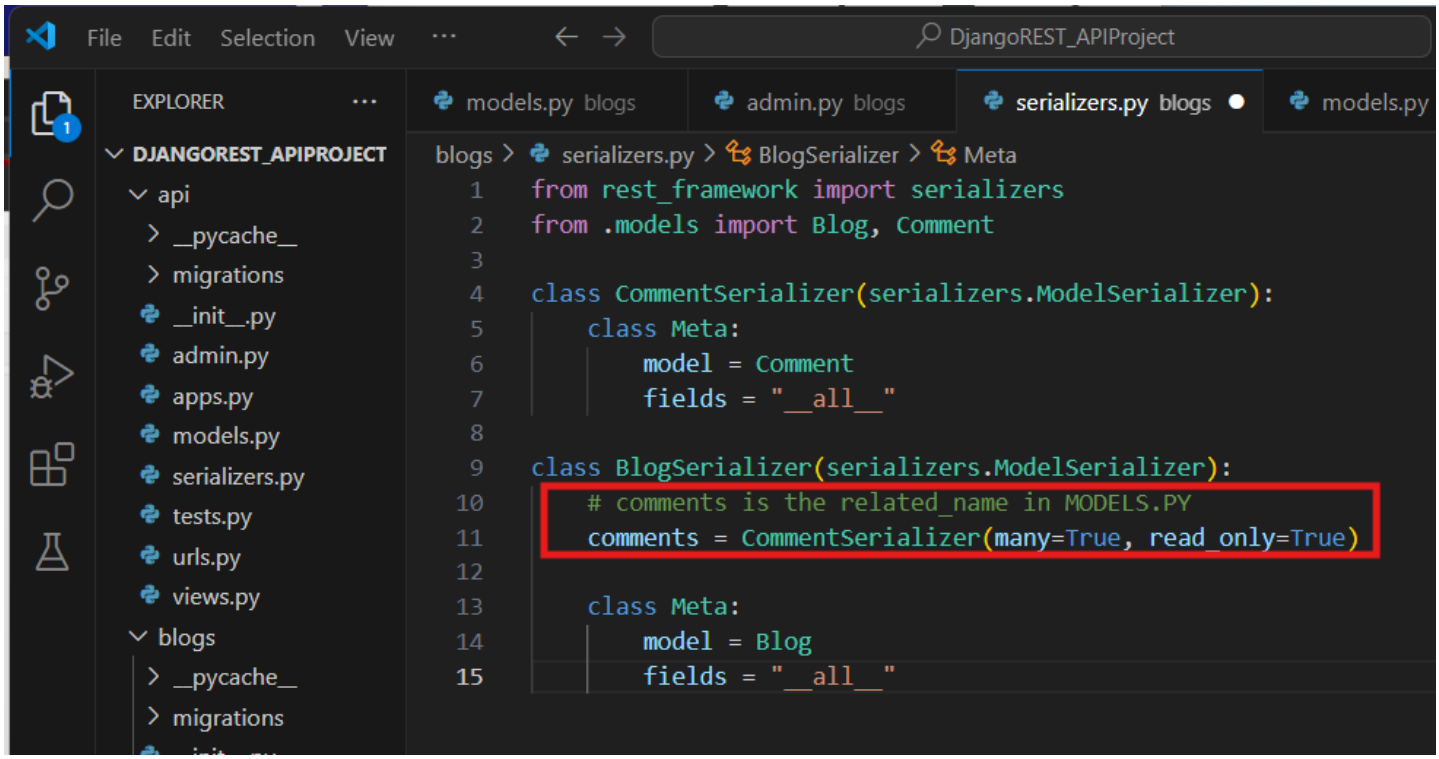
12. Our COMMENTS model shall be:



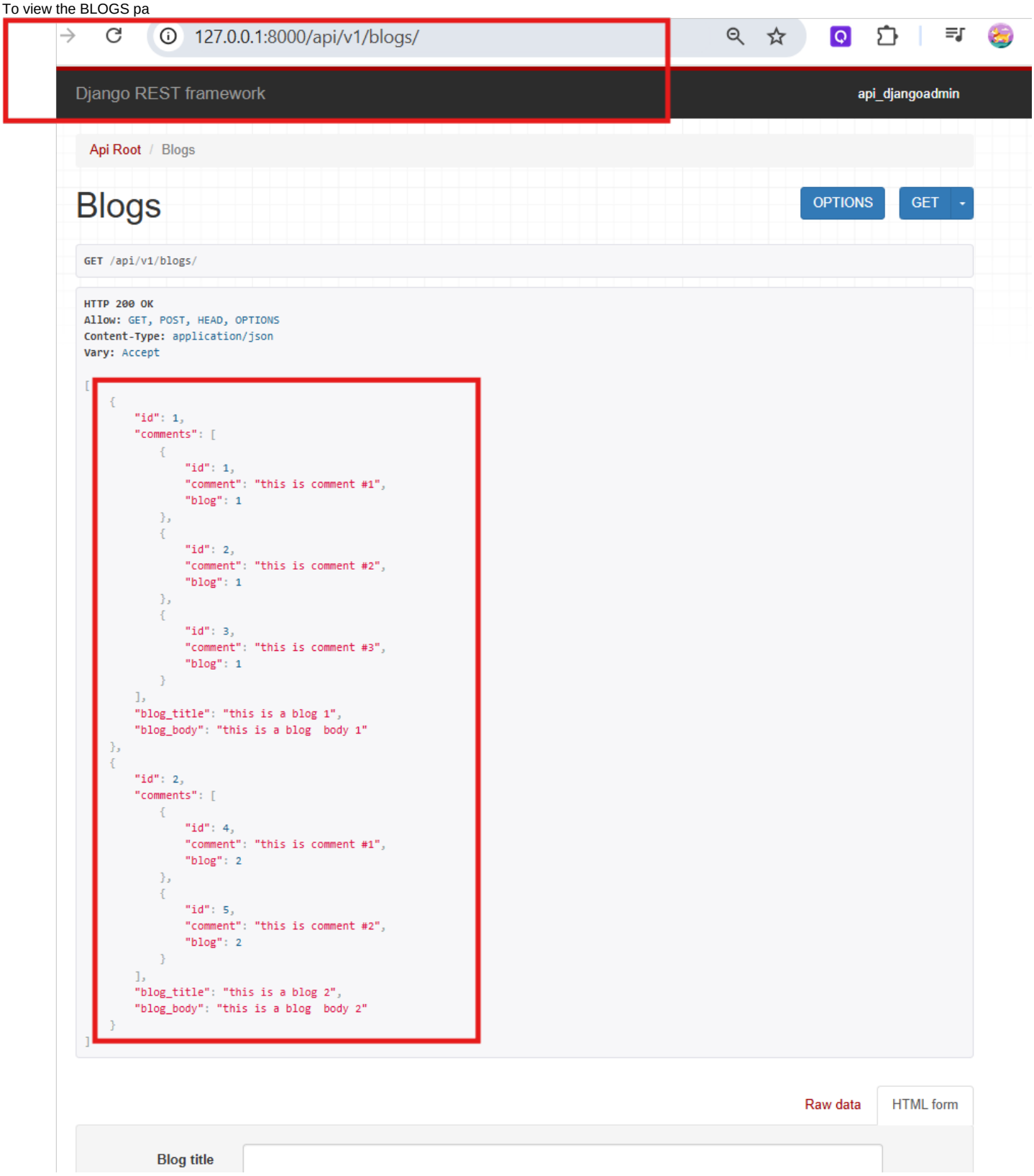
Our BLOGS shall be:



13. To also show the comments under BLOGS model, update the SERIALIZERS.PY:

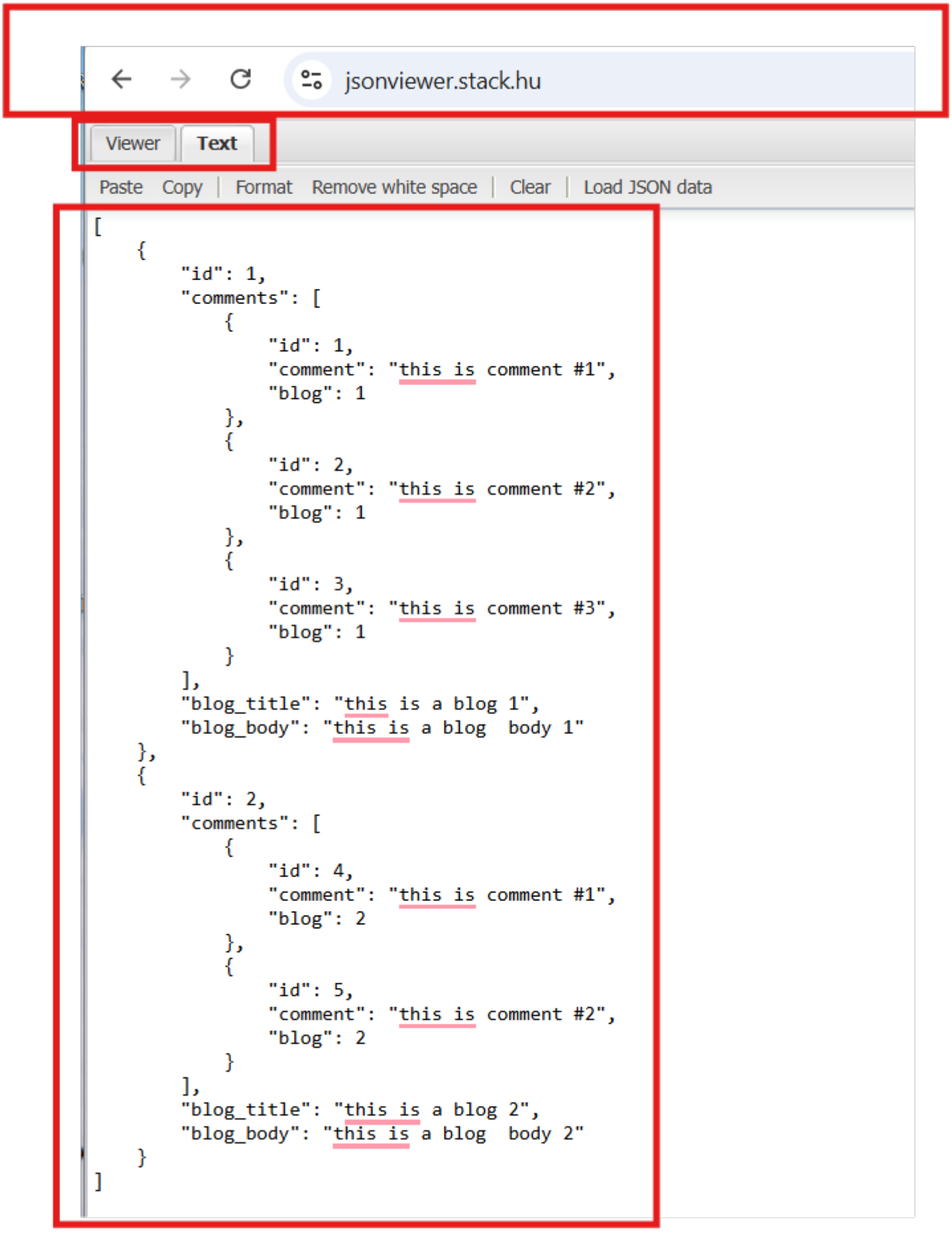


To view the BLOGS pa



14. So now, copy and paste the sample records to ONLINE JSON VIEWER:

TEXT MODE:


jsonviewer.stack.hu
Viewer
Text
Paste
Copy
Format
Remove white space
Clear
Load JSON data
[
{
"id": 1,
"comments": [
{
"id": 1,
"comment": "this is comment #1",
"blog": 1
},
{
"id": 2,
"comment": "this is comment #2",
"blog": 1
},
{
"id": 3,
"comment": "this is comment #3",
"blog": 1
}
],
"blog_title": "this is a blog 1",
"blog_body": "this is a blog body 1"
},
{
"id": 2,
"comments": [
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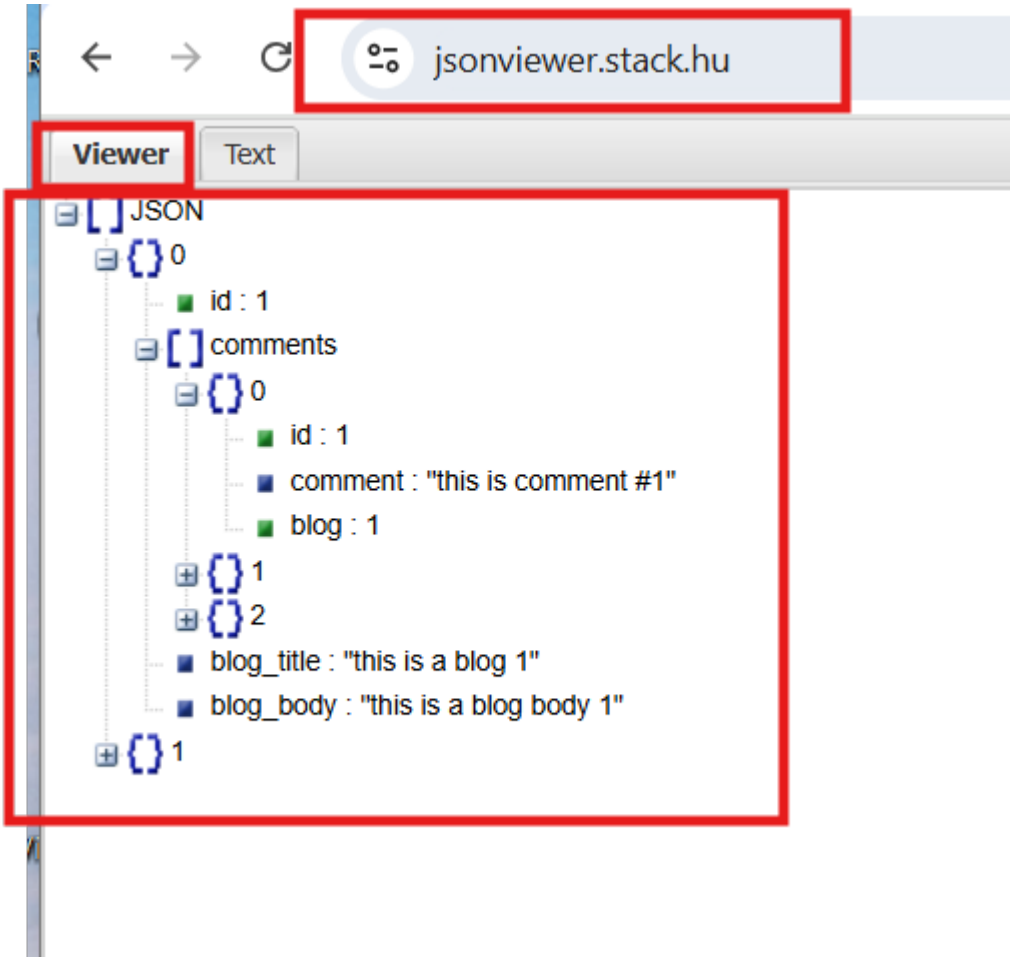
"id": 4,
"comment": "this is comment #1",
"blog": 2
},
{
"id": 5,
"comment": "this is comment #2",
"blog": 2
}
],
"blog_title": "this is a blog 2",
"blog_body": "this is a blog body 2"
}
]

VIEWER MODE:



15.

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