7.305 Automatic Schema Generation

**terminal**

workon advanced\_web\_dev

pip install pyyaml==5.3.1 uritemplate==3.0.1

cd bioweb

**terminal**

python manage.py generateschema --format openapi-json > bioweb\_schema.json

less bioweb\_schema.json

**terminal**

mv bioweb\_schema.json genedata/static

python manage.py runsever 127.0.0.1:8080

**bioweb/urls.py**

from rest\_framework.schemas import get\_schema\_view

urlpatterns = [

path('apischema/', get\_schema\_view(

title="Genedata",

description="API for interacting with gene records",

version="1.0.0"

), name='openapi-schema'),

]

VISIT http://127.0.0.1:8080/apischema

**7.306 Automatic documentation generation**

**Terminal**touch genedata/templates/genedata/swagger-docs.html

**swagger\_docs.html**

<!DOCTYPE html>

<html>

<head>

<link rel="stylesheet" type="text/css" href="//unpkg.com/swagger-ui-dist@3/swagger-ui.css" />

</head>

<body>

<div id="swagger-ui"></div>

<script src="//unpkg.com/swagger-ui-dist@3/swagger-ui-bundle.js"></script>

<script>

const ui = SwaggerUIBundle({

url: "{% url schema\_url %}",

dom\_id: '#swagger-ui',

presets: [

SwaggerUIBundle.presets.apis,

SwaggerUIBundle.SwaggerUIStandalonePreset

],

layout: "BaseLayout",

requestInterceptor: (request) => {

request.headers['X-CSRFToken'] = "{{ csrf\_token }}"

return request;

}

})

</script>

</body>

</html>

**bioweb/urls.py**

from django.views.generic import TemplateView

urlpatterns = [

# ...

# Route TemplateView to serve Swagger UI template.

# \* Provide `extra\_context` with view name of `SchemaView`.

path('swaggerdocs/', TemplateView.as\_view(

template\_name='genedata/swagger-docs.html',

extra\_context={'schema\_url':'openapi-schema'}

), name='swagger-ui'),

]

**Terminal**

python manage.py runsever 127.0.0.1:8080