

These are the commands for the follow-along exercises in Lesson 7.4.

## 7.402: OpenAPI clients

### **terminal**

```
apt-get install swagger-codegen
swagger-codegen generate \
  -i http://127.0.0.1:8080/apischema \
  -l python \
  -o ./python_client
```

### **terminal**

```
cd python_client
pip install .
```

### **terminal**

```
workon advanced_web_dev
cd bioweb
python manage.py runserver
```

### **terminal**

```
cd bioweb/scripts
touch openapi_client.py
```

### **openapi\_client.py**

```
from __future__ import print_function
from pprint import pprint
import time
import swagger_client
```

```
configuration = swagger_client.Configuration()
configuration.host = 'http://127.0.0.1:8080'
api_instance =
swagger_client.DefaultApi(swagger_client.ApiClient(configuration))

pprint(dir(api_instance))
```

## 7.403: Build client for the above server (openapi-python-client)

### **openapi\_client.py**

```
from swagger_client.rest import ApiException

# pprint(dir(api_instance))

try:
    gene_list = api_instance.list_genes()
```

```
        pprint(gene_list)
except ApiException as e:
    print("Exception when calling DefaultApi->list_genes: %s\n" %
e)
```

#### **openapi\_client.py**

```
for gene in gene_list:
    print("Getting Gene ID:" + str(gene.id))
    try:
        api_response = api_instance.retrieve_gene(gene.id)
        pprint(api_response)
    except ApiException as e:
        print("Exception when calling DefaultApi->retrieve_gene:
%s\n" % e)
```