Import FHIR Resource to GCP Healthcare API Guide

Prerequisite:
1. gcp-credential.json ([Authenticating to the API | Cloud Healthcare API | Google Cloud](#))
2. Create Project in GCP
3. Create Google Cloud Storage Bucket GCP -> Cloud Storage -> Name your bucket

4. Create Dataset in Healthcare API

5. Create Datastore in Healthcare API

Steps as follow:

1. Download Script in [cortexcloud/fhir-resource-on-cloud (github.com)](#)

2. Place CSOP xml files in [fhir-resource-on-cloud](#)/tree/main/uploads/csop (only support bill transaction and bill dispense)
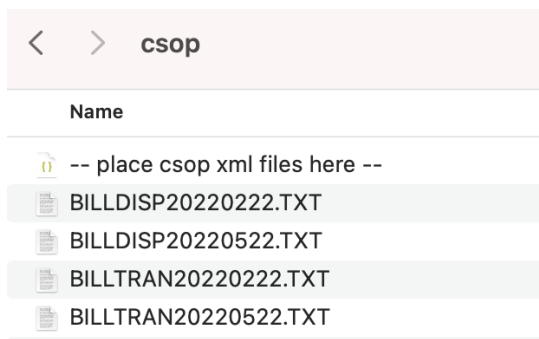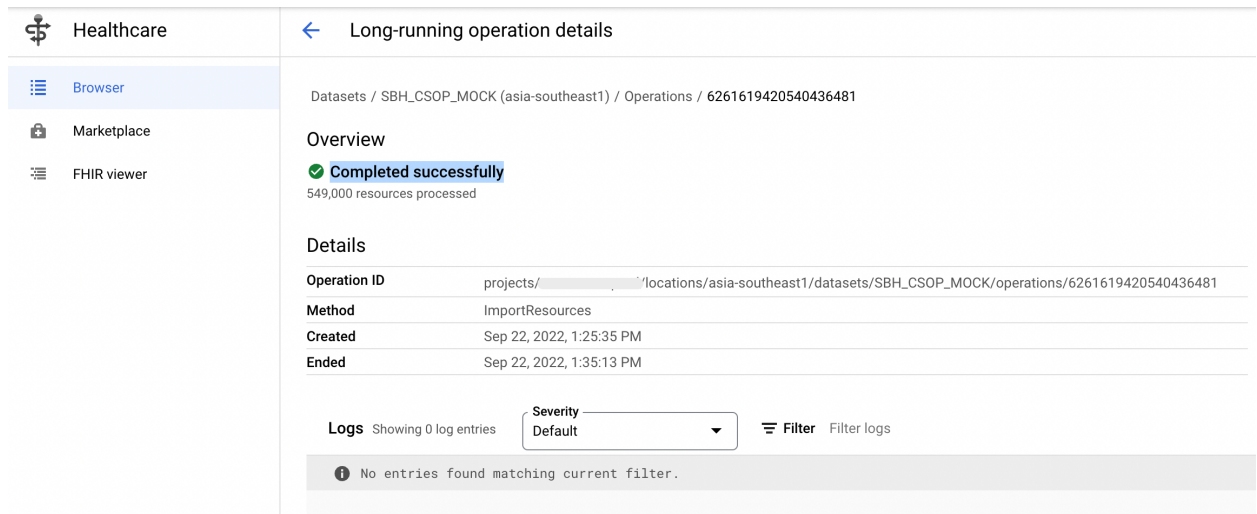
3. Place Your gcp-credential.json in [fhir-resource-on-cloud](#)/credential

4. Configure .env file (sample file -> .env.example)
    a. project_id (replace with your GCP Project ID)
    b. location (replace with the parent dataset's location)
    c. dataset_id (replace with the parent dataset's ID)
    d. fhir_store_id (replace with the fhir store ID)
    e. version (replace with type of FHIR store)
    f. gcp_bucket_name (replace with a cloud storage bucket name)
    g. gcp_bucket_folder (replace with folder name in bucket)
    h. credential_path (replace with gcp credential)
5. pip install -r requirement.txt

```
≡ requirements.txt
1    google-api-core==2.10.1
2    google-api-python-client==2.63.0
3    google-auth==2.12.0
4    google-auth-httplib2==0.1.0
5    google-cloud-core==2.3.2
6    google-cloud-storage==2.5.0
7    google-crc32c==1.5.0
8    google-resumable-media==2.3.3
9    googleapis-common-protos==1.56.4
10   python-dotenv==0.21.0
11   requests==2.27.1
12   webencodings==0.5.1
13   xmltodict==0.13.0
14
15
```

6. run command: python __main__.py
    a. script will transform xml in folder uploads/csop to JSONs
    b. JSONs file will push into Google Cloud Storage
    c. then script will import FHIR resource to GCP healthcare (FHIR server)

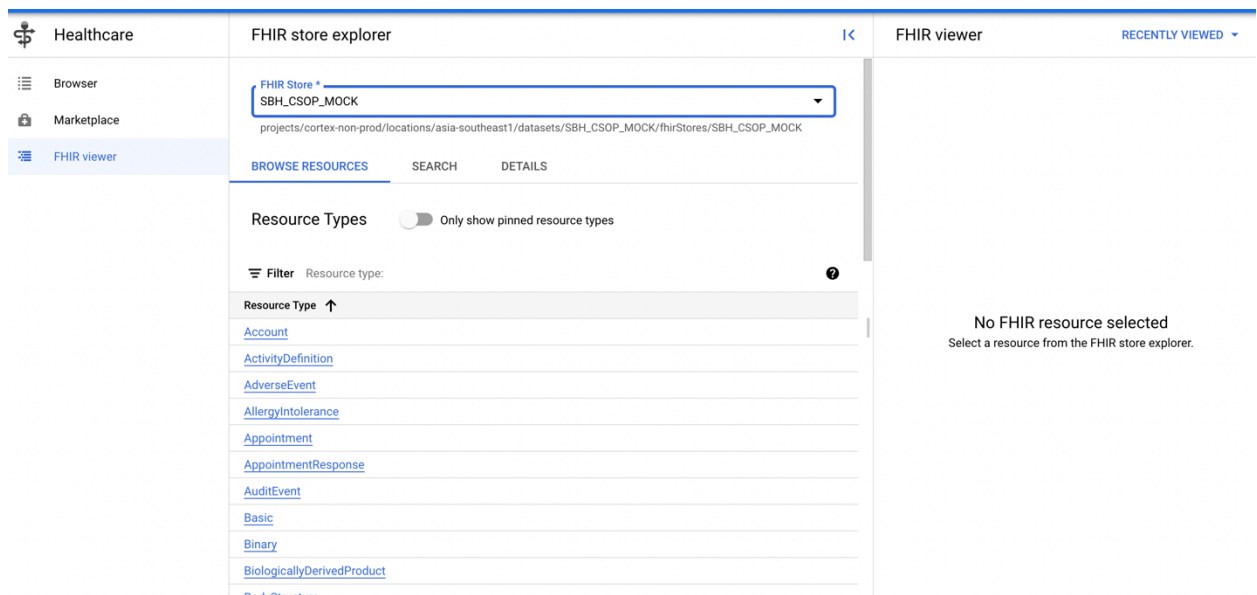7. Check the progress on Healthcare GCP -> Browser -> Operation

8. For Searching the resource: Click FHIR viewer -> Choose FHIR Store -> Search -> Open Query Builder

9. Select a FHIR resource and Search Parameter to get the result

10. Result Example