EXERCISES

Tutorial name: **ODS API Suite: FHIR ODS Lookup API**

The FHIR ODS Lookup API exposes information about Organisations that are registered with the Organisation Data Service (ODS). See https://digital.nhs.uk/organisation-data-service/APIs#FHIR%20compatible%20API for further information.

This exercise explores querying different parts of the ODS Record from a client perspective.

The API can be called using any REST API client. The exercises below should be carried out using Postman available from https://www.getpostman.com/.

A Postman collection of statements is available from https://www.getpostman.com/collections/9fdd6cf8a06a6c876611.

The Implementation Guide for this API is available at: https://developer.nhs.uk/apis/ods/

The endpoint for this API is: http://connectathon.directory.spineservices.nhs.uk/STU3

1. **Getting familiar with an ODS record**

   - Search for a single ODS record e.g. Leeds Teaching Hospitals NHS Trust, RR8

     This can be achieved in several ways:

     o   http://connectathon.directory.spineservices.nhs.uk/STU3/Organization/RR8

     o   http://connectathon.directory.spineservices.nhs.uk/STU3/Organization?_id=RR8

     o   http://connectathon.directory.spineservices.nhs.uk/STU3/Organization?identifier=https://fhir.nhs.uk/Id/ods-organization-code|RR8

     o   http://connectathon.directory.spineservices.nhs.uk/STU3/Organization?identifier=RR8

   - Return the record in an alternative format

     The default format for return is JSON, add the format parameter:

     o   &_format=xml

2. **Return a bundle of ODS records**

   - Search to return all the ODS records for GP practices in Manchester

     o   Retrieve the CodeSystem in order to find the code for a GP practice

     The CodeSystem can be retrieved as below:

     ▪   http://connectathon.directory.spineservices.nhs.uk/STU3/CodeSystem/ODSAPI-OrganizationRole-1

     The code for a GP Practice is 76

     o   Search for ODS records with a role code for GP practice and an address city of Manchester

This can be achieved in several ways:

- http://connectathon.directory.spineservices.nhs.uk/STU3/Organization?ods-org-role=76&address-city:exact=MANCHESTER

- http://connectathon.directory.spineservices.nhs.uk/STU3/Organization?ods-org-role=http://connectathon.directory.spineservices.nhs.uk/STU3/CodeSystem/ODSAPI-OrganizationRole-1|76&address-city:exact=MANCHESTER

This search returns a bundle with 195 ODS records

- Are all these records currently active?

  Add the active parameter:

  - &active=true or &active=false

  Of the 195 ODS records returned, 177 are active and 18 are inactive

- Is a GP practice a primary role?

  Add the primary role parameter:

  - &ods-org-primaryRole=true

  GP practice is not a primary role as 0 ODS records are returned with the addition of this parameter

3. **Return a count of matching records**

   - How many ODS records are available?

   Retrieve a count of all ODS records:

   o http://connectathon.directory.spineservices.nhs.uk/STU3/Organization?_summary=count

   There are 187,868 ODS records

   o How many are inactive?

   Add the active parameter:

   - &active=false

   There are 48,060 inactive ODS records

   - How many active ODS records are there in London?

   Amend the active parameter, and add the address-city parameter:

   o &active=true

   o &address-city:exact=LONDON

   There are 10,827 active ODS records in London