Final project proposal

I would like to use AWS to build a simple implementation of a setup I have at work, which is currently in google cloud.

This would be a nosql implementation of smart on fhir data, retrievable though api gateway, with dynamodb as the storage solution, and a regular auth +id flow.

Dynamodb would also be used to index sample patient data (which lives within fairly large documents) to easily search patients within facilities by keys within the documents.

Cognito would be used for the oauth2 + open id connect flow.

Lambda functions would provide the api handler logic if any is needed, when api service proxies can’t.

The sample connection would be:

connect to api → redirect to oauth endpoint → auth flow → api handler (direct api or api service proxy or lamba function as needed) → connect to dynamo db for data (document or index)

A sample patient request would contain the following:

<https://www.hl7.org/fhir/patient.html>

and would be indexed on name (last,first), facility the patient is in, bed the patient is in, type (inpatient or outpatient), and doctor.