### STATUS REPORT DATE: 7/12/2023

### CURRENT TECH LEAD: Praveen Sannareddy

# Progress/accomplishments since last check-in

* Working on a reference table service, to better store data about providers. Made a great deal of progress on this service and pushed code to our team gitlab. The code checks Provider data coming in from another service, gets the relevant information such as Provider\_id,, affiliation, network directory, panel, etc.

The main flow of the code is to Persist the data by checking if the Provider object (specific information about one provider) exists or is new information. It will then use an “addOrReplace” method to either create a new provider reference or replace an existing one with the updated version. Ultimately it will persist the provider data to a new type of reference table that the team is using. It also iterates through existing providers and purge their Md5, Npi1, and Taxid data as we will generate new ones.

* I have been working with other team members such as Anil to deploy the above service, and we are working to fix some issues with deployment.
* Still working on the Lookup API, which retrieves information about provider info to send more information to orchestration team such as information about the counties that the providers are based in, what their specialties are, languages they operate in, information about affiliation between providers and governments, and payors, etc..

I am adding some functionality for lookup to be able to generate bulk requests as well as individual requests for practitioner specialties as that wasn’t in the service yet. I am writing unit tests for this also.

* CONTINUING: Successfully worked with Benyam on the creation of a new service called resync-api which will do the actual job of recalculating MD5 hash as well as updating any relationships such as contracts (relationship between payors such as medica and providers) which reference certain updated providers, we need to make sure that the contracts reflect this change.
* Testing out our API endpoint by using Postman and Metavance, and Unit Tests:
  + Postman: Send HTTP requests to add a Provider to the system, update Provider details, and see if anything goes wrong
  + Unit Tests: Mock the service using test classes in Java and running it to see if changing providerID, taxID, address for a provider changes its MD5 hash code which is calculated from all those things and which needs to update when those things change.
  + Using metavance which is a dedicated health insurance software that allows to work with a large number of variables to create provider information, address, phone, panel, affiliations between providers, contracts, etc and see how changing one or more of these will be handled by the code.
  + Using all of these methods together will insure that the service is ready for QA where they will try to break the code even more and make sure it is ready for deployment.
* Continuing Work on: Ensure that Provider (doctors, location providers such as clinics) data gets updated when its constituent fields (providerID, taxID, address) change. This is because we use all these fields to calculate a unique MD5 hash code to identify each provider in the system. If the constituent fields change then we would need to update and recalculate this MD5 hash. I will be writing code to:
  + Search existing provider
  + Not found /first time provider/
  + Proceed
  + Found /Provider was existing/
  + Check if tax Id changed
  + Check if address md5 changed
  + Either taxIds or address md5 changed
  + Create re-synch notification topic message for the provider
  + Proceed
* Refactoring code to streamline process of mapping fields from regular Objects represented as java classes in model package to Data Transfer Objects.
* PI6 User Stories
* Writing unit tests for eds-load service. Understanding more about eds-load and how it persists data to Cosmos DB.
* Going over JSON to AVRO conversion.
* Working with Oracle database.
* Debugging different scenarios (empty provider data, or affiliation where one provider is null).
* I have access to more Dean services now:
  + Task:            VersionOne  
    Checkout:        GitLab ✓  
    Dev:            Java ✓  
    Build:            Gradle ✓  
    Local Server:  
    Push:            GitLab  
    Build:            Jenkins ✓  
    Check Issues:    Sonar Qube ✓  
    Deploy:            UrbanCode ✓  
    Server:            Kuberneties ✓  
    Env:            Devx
* Continuing to work with Benyam for EDS-load work prep.
* Continuing with standups for new team. (2 Standups: Multiple teams (Big10/Orca/H2F), and a singular team standup with SM and PO (Anthony and Jackie) where we discuss progress and work going forward). We also do mid sprint reviews, retros, work agreement review, etc.
* Continuing KT for Kafka, Streams, Java API for new team
  + Table joins, parsing through data, sorting, grouping, converting to JSON format
* Continuing with daily multiple work sessions with Anil, Neelima, and several others etc.
  + Retrieve data, merge data, transformation API, expose RESTful endpoints for access in Cosmos DB. I am in the merge data part of the project to provide java solutions for mapping and putting together info (Address, and other models and service classes using kafka streams to merge data)

# Planned/assigned work moving forward

* Finishing my user story and making sure that synchronization of provider data is functional.
* Continuing with unit tests if needed.

# Bragging Opportunity – share what you’re doing above & beyond

* Working hard to review code outside my area to ensure that everything fits together.
* Shadowing in on more meetings to see what the rest of the team is working on.
* Reviewing diagrams to get a better understanding of the project that Big10 team is working on from Metavance all the way to CosmosDB data persisting.
* Getting into the SQL to understand more about how information is retrieved from metavance.
* Continuing to learn about KStreams including by going over the documentation of the methods and fields associated with it (Interface KStream<K,V> and methods such as flatMap, forEach, etc.) because it is an additional framework built on top of java.

# Roadblocks, Issues, or Concerns

# My Tech Stack – tools I’m using & progress towards proficiency

|  |  |  |  |
| --- | --- | --- | --- |
| Technology | Specific module/area (if applicable) | Proficiency (1-10) 1-newbie 3-still learning  5-good 8-parity w/ peers  10-rockstar | Notes |
| GitLab | Repos | 10 | Very confident |
| IntelliJ | Development Environment | 10 | No worries here |
| Apache Kafka / Java | Streams | 10 | Gotten very good at this Important for understanding the data merge process from tables and the java necessary to achieve that. |
| ADO | Accessing work items | 10 | Everything’s great |
| DeanHealth Tools | Jenkins, Kafdrop etc. | 10 | Very adept at this now |

# Other Goals / Continuing Education

*e.g. Udemy coursework, working independently, communication, networking with peers – discuss Udemy & goal ideas with your Delivery Director*

* Udemy and communication with peers is helping me learn more.
* Anthony and Jacquelyn have really helped me integrate into the team and get started quickly. Andrew Schwaffel has helped with KT as well.

# Upcoming PTO

* N/A

# Questions for your Genesis10 Delivery Director?

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