# Use Case for Grad Program

## Overview and Business Purpose/Scope

Currently there are proactive and reactive updates made to Legacy Database by the External teams and Batch interfaces. These updates could result in an Address ID being deleted, details in an existing Address ID being modified or an Address ID being replaced.

The misaligned addresses between Legacy Database and Other Systems are causing Business orders to fallout requiring manual intervention to correct the address and re-process the order.
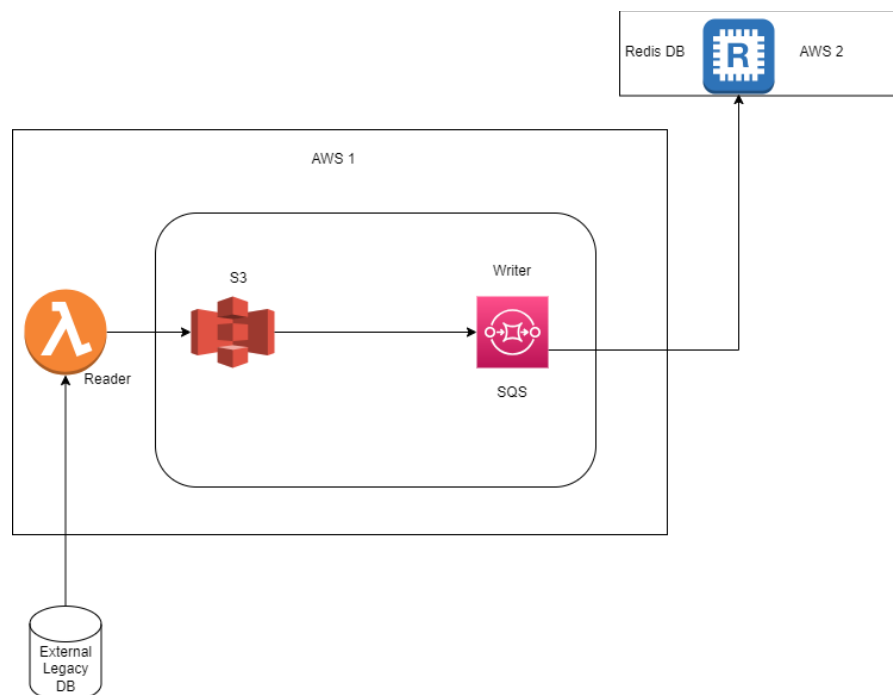
## Scope

This solution seeks to align address details in Telstra systems when an address change is made.

- Where the Address ID has been modified, the address details displayed in client systems which stores a copy of address locally need to be updated to reflect the new textual address.
- Where the Address ID has been deleted and replaced, an update will be required to appropriately cascade the new Address ID to the various downstream systems and to update the associated textual address details in client systems.

Consider Below Schema



Consider Below Technical Architecture

Flow will be considered working if any address updates happen in Legacy Database of any choice, if needed please use any DB of your choice for External Legacy DB. Once address is updated in the External Legacy DB, real time synchronization happens, and Lambda fetches the updated data and pushes to S3. Once the Data is pushed to S3, a trigger happens and SQS published this data to a Redis IMDB (In memory DB) which is in a different AWS tenant.

Definition of Done

1. Code saved in SCM tool such as Gitlab with proper readme file.
2. Build composed of application in a Docker Image wherever possible. Exception may include Lambda etc.
3. Above 90% Code Coverage in SonarQube [Any equivalent code scanning tools]
4. 100% Automation Test Case Written [This is stretched goal]
5. No Security Vulnerability Identified when scanned through Coverity.
6. Working Build and Deployment Model over CICD.
7. Project should accomplish a Working End to End Flow.