Project Overview

I had been working for a fintech client which is a universal bank and their business includes customer banking and a top tier, global corporate and investment bank.

I was a part of a wealth processing team where high-level working was data processing. We used to get lot of trades and balance data from the upstream. We must process the data and provide it to internal consumers. These consumers consume this data for their business. For ex: selling trade positions, for disclosure purposes, for FATCA regulatory. So, all trade positions get settled up from data processing and for next business date the client could see the settled values from the trades.

My responsibility was to create new services/update services to bring data from different sources using API and load them into landing table and create new API’s for the consumer to consume processed data.

Main Challenges: One of the challenges was to ensure parsing of xml data and ensure objects get successfully created and loaded into tables.

Overview: We get one sort of trade data which we receive through xml. In this data, we have attributes like ISIN, event name, RIC no., basket constituents. XML parser should ensure that is a file contains basket constituent object or whether it contains list of basket constituents xml attributes, it should be parsed in such manner that we get different java trade objects created for each basket constituent.

So, earlier we did not had a mechanism to create multiple trade objects if we get list of basket constituents instead of a single basket constituent. Thus, single trade objects used to get created whenever a xml file contains such a list.

So, we used unmarsheller to parse data correctly and in order to create multiple objects we used cloning and set the attributes for each trade object from a list we receive from an xml.