

# DATA PLATFORM

# BUSINESS PROBLEM

## INEFFICIENT TRADE EXECUTION AND SETTLEMENT



Alex is a hedge fund manager who relies on a prime brokerage service to execute and settle trades on behalf of the fund's clients. However, Alex has been facing a persistent business problem related to inefficient trade execution and settlement processes. The issue's like execution delays, settlement errors, lack of transparency and inadequate support leads to several negative consequences for Alex and the hedge fund.

Alex understands the severity and decides to involve ecosystem partner to leverage the power of data, governance and management of data to improve business value.

Alex sends out the Request for proposal to IBM partner for the Business problem to expedite the process.

# REQUEST FOR PROPOSAL (RFP)

No	Description	MosCow	Rating
1	Ability to read and ingest data from on-premise source applications.	M	4
2	Provide an interactive user interface to define business and technical metadata, define criticality, assign roles and categorization, and other related supporting information	M	4
3	Data assets can be segmented into custom categories defined by users e.g., owned/not owned, data classification (Internal, Confidential, Personal Information, Highly Protected)	M	4
4	Perform sanity check and validation on data quality rules, includes remove unused data quality rules, remove duplications, resolve conflicting and misaligned data quality rules, etc.	M	4
5	Able to search for linked or related assets	S	3
6	Able to identify duplicate or similar data assets across the catalogue	S	3
7	Ability to present upstream and downstream impacts of attribute changes	M	4
8	Able to automatically mark assets and associated downstream objects for issues, e.g failed ELT loads, decommissioned object	M	4

# SCOPING A POC

No	Scenario	Data	Activities	Expected results
1	Ability to read and ingest data from on-premise source applications.	Connect to on-prem database	i. Use the connected database and export the tables in DataStage using asset browser.	i. The data residing in the on-prem database should reflect in asset browser when selected.
2	Provide an interactive user interface to define business and technical metadata, define criticality, assign roles and categorization, and other related supporting information	Prepare two table structures –  A customer data that consists of, customer name, address, email, social security number  A Pending trade data consists of quantity, class, price of traded security(bond/cash/stock)	i. Create business and technical metadata using the interface provided for both datasets above. ii. Assign data consumers and data producers for each dataset and assign criticality for each data element. iii. Assign categorization of data elements based on pre-build data categorization iv. Define new data categorization v. Assign categorization of data elements based on custom data categorization	i. Easiness to use the user interface to perform all activities using the tool  ii. Have any guidance or pre-build functionalities to support the execution of the activities above.  iii. Show how business and technical data is created OTB
3	Data assets can be segmented into custom categories defined by users e.g., owned/not owned, data classification (Internal, Confidential, Personal Information, Highly Protected)	Use the above created tables itself #customer data #trade data	i. Create categories and sub-categories as needed ii. Create Internal, Confidential, PI, Highly Protected classification on WKC and add them to the category	i. Easiness to use OTB features to define categories and classifications  ii. Support for hierarchical model while defining categories
4	Perform sanity check and validation on data quality rules, includes remove unused data quality rules, remove duplications, resolve conflicting and misaligned data quality rules, etc.	Use metadata created	Create duplicated data quality rules and use the tool to detect the duplication and resolve duplication.	Whether the tool can effectively detect duplication of data quality rules, especially the conflicting rules.  Whether the tool can provide useful information to help resolving the duplication in data quality rules.
5	Able to search for linked or related assets	Use the above created tables	i. Import knowledge accelerator for finance domain.	You have the view of business terms, data classes, profiled data.

# REFERENCE ARCHITECTURE

