Business Requirement Document (BRD)

Title - A Prediction Model

Stackholder's Panel

- Person ABC, Property Agent, Delhi
- Person DEF, Jeweller, Pune
- Person GHI, Sports Consultant, Jaipur
- Person JKL, Stock Consultant, Gujarat

Summary

This is based upon the requirements which the consumer needs in the model. Here, we will have the metadata and we will sort it, and load it to evaluate the perfect output which is needed. Later, we will train the data to provide a monthly output of the dataset in a visualised format which is easier to understand.
As there are some possibilities that we have been provided with bulky data so it can be difficult for us to train but we will be soon exempting this issue by using some of the algorithms.

Problem Statement

- ETL tools break down data silos and make it easy for your data scientists to access and analyze data, and turn it into business intelligence.
- ETL tools are the first essential step in the data warehousing process that eventually lets you make more informed decisions in less time.
- Visualizing our entire data flow pipeline which helps businesses taking critical business decisions.
- Transactional databases cannot answer complex business questions that can be answered by ETL.
- It provides a method of moving the data from various sources into a data warehouse.
- As data sources change, the Data Warehouse will automatically update.
- These processes can perform complex transformations and require the extra area to store the data.
- This helps to Migrate data into a Data Warehouse. Convert to the various formats and types to adhere to one consistent system.
- It is a predefined process for accessing and manipulating source data into the target database.
- It offers deep historical context for the business.

Needs/ Interview Overview

Considering all the needs of the stakeholders we can conclude some of the points:

- Need of an application/ interface where they can have the details related to their business.
- All the changes in the business or their dataset must be reflected in that.
- A method where they can get a predictor for their business in just a single click.
- An alert which intimates them any high or low in their business.

Approach

Now we are ready with the requirements, so here is the time when we can work on our approach to move further,

- We will move further with a framework called **ETL (Extract, Transform & Load).**
- Looking into the ETL framework, we can follow an approach which is completely python based.
- Here, we will be extracting the metadata from the scripts.
- Later, we will transform it into pre-validated source data using pre-validation rules.
- Now, we are ready with the data to work upon so we will be working on it to meet our requirements.

Advantages of using this Approach

- Configurable ETL framework
- Usage of inbuilt and open source libraries
- Platform independent
- Historical data maintenance
- Both pre and post validations will happen once the data is available from source thus avoiding any dependency of other tiers (like SQL).

Project Scope

It's all about the features which our project will include,

- It will contain all the required metadata for the business.
- It will have a prediction model where the stakeholder will be able to view the future prediction on a single click.
- It will also contain an alert system which will notify the user at the time of any high or low of the business.

Technology Used

- **Basic Language -** Python
- **FrameWork -** ETL