Project Design Phase-II Technology Stack (Architecture & Stack)

Date	03 October 2022
TeamID	PNT2022TMID06168
Project Name	Crude Oil Price Prediction
Maximum marks	4 Marks

Technical Architecture:

The Crude oil price prediction includes the architectural diagram as below and the information as per the table 1 & table 2

Example: Price prediction for investors

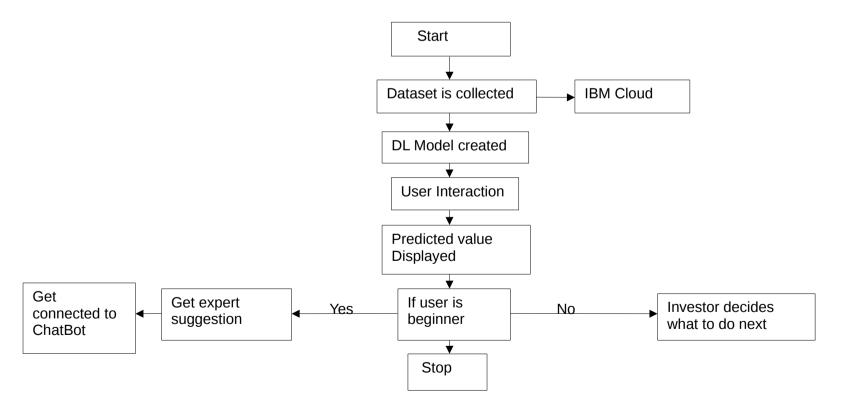


Table-1 : Components & Technologies:

S.NO	Component	Description	Technology
1.	User Interface	How investor interacts with application e.g. Web UI, ChatBot	HTML, CSS, JavaScript / Angular Js / Python Flask etc
2.	Application logic-1	DL Model for price prediction	LSTM Model
3.	Dataset collect	For predicting the prize of the crude oil need a dataset	Free resources for data collection
4.	User interact input	After train the model we give the input to the model	Trained model by RNN
5.	Data storage	The predicted values are used for display	IBM Cloud
6.	Display output	Prize list for display to the investor	Python Flask
7.	Expert suggestion	If the new investor visit the site give ideas	ChatBot
8.	ChatBot	Investor can interact and get knowledge for market shares	Watson AI

Table-2: Application Characteristics:

S.NO	Characteristics	Description	Technology
1.	Open source Data	Data for price predicting technology	Many open source websites
2.	Availability	The investor can get our service at anytime	Reverse proxy
3.	Performance	The user can get the data so quick even the users increases there won't be any loss of performance	