

Project Design Phase-II

Data Flow Diagram & User Stories

Date	14 October 2022
Team ID	PNT2022TMID08315
Project Name	Project – Crude Oil Price Prediction
Maximum Marks	4 Marks

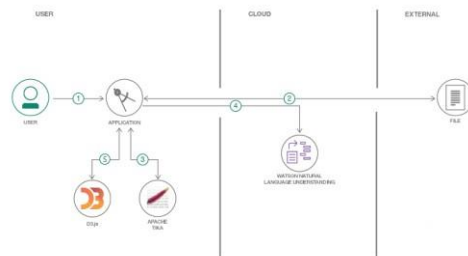
Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

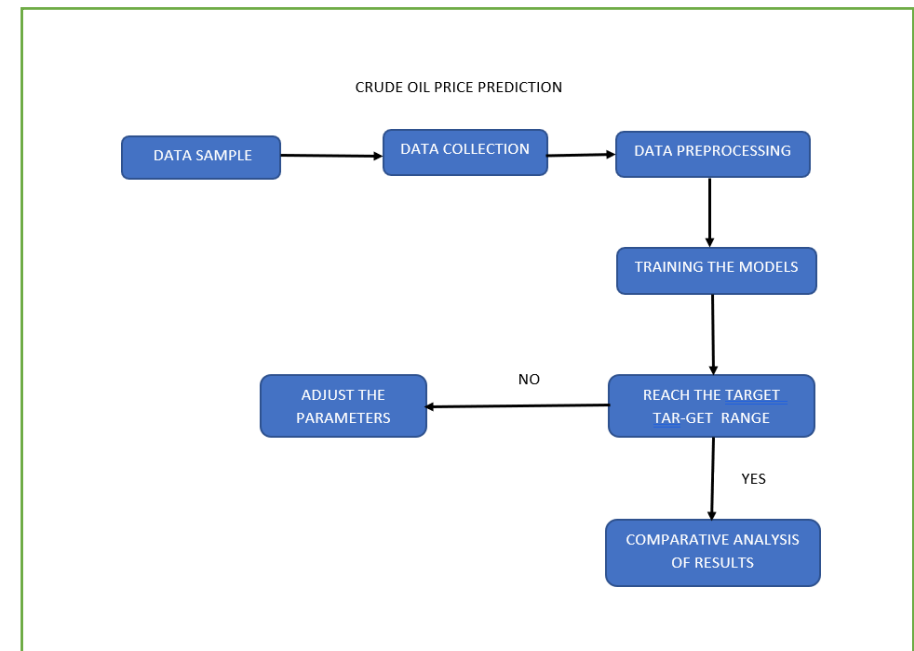
Example: [Simplified](#)

Example: DFD Level 0 (Industry Standard)

Flow



1. User configures credentials for the Watson Natural Language Understanding service and starts the app.
2. User selects data file to process and load.
3. Apache Tika extracts text from the data file.
4. Extracted text is passed to Watson NLU for enrichment.
5. Enriched data is visualized in the UI using the D3.js library.



User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task
Predictors (made prediction for future use)	Data Analysis and Collection	USN-1	As a user, I can analysis of influencing factors of crude oil prices through various web pages.
		USN-2	Data samples were collected from famous websites like Kaggle etc..
		USN-3	The collected data will be processed to remove the raw data from the datasets.
	Pre-processing	USN-4	The pre-processed data will be put in, for the training and splitting of the models.
	Training models	USN-5	The trained data will be checked for the target range that is set by the user
		USN-6	If User range is not yet meet. again the data is put in for training.
		USN-7	Attempt is made until the range is reached.
	Predicted value	USN-8	Once the range is reached will be compared with previous results to obtain the correct predicted value