Project Design Phase-II
Data Flow Diagram & User Stories
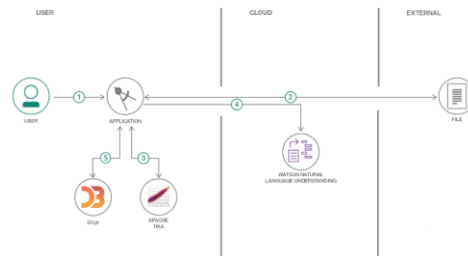
Date	03 October 2022
Team ID	PNT2022TMID53936
Project Name	Project – Crude Oil Price Prediction
Maximum Marks	4 Marks

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.
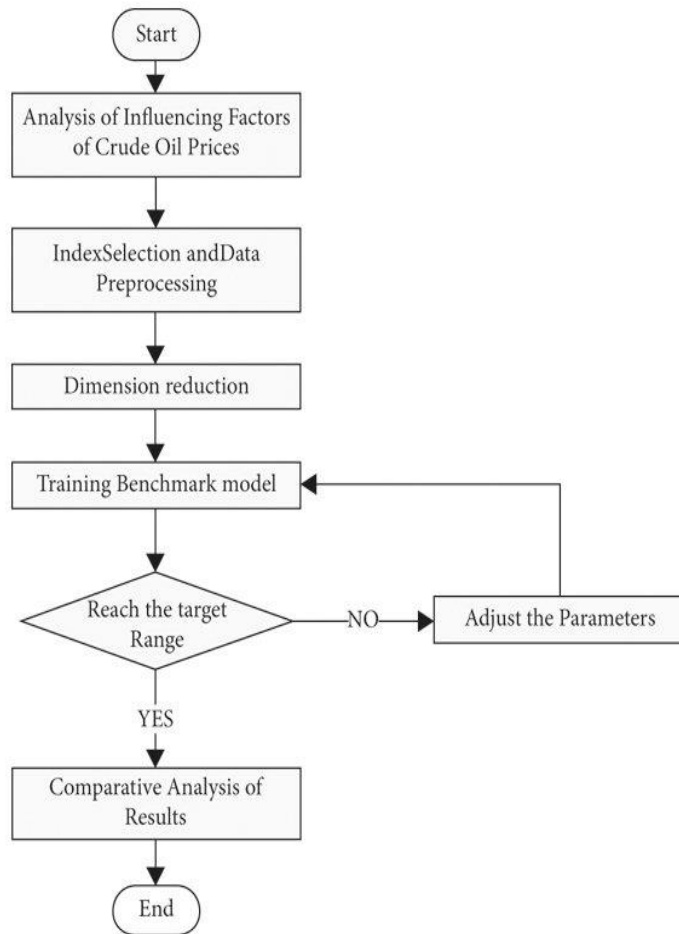
Example: [(Simplified)](#)

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.

Example: DFD Level 0 (Industry Standard)

Start

Analysis of Influencing Factors
of Crude Oil Prices

IndexSelection andData
Preprocessing

Dimension reduction

Training Benchmark model

Reach the target
Range

NO → Adjust the Parameters

YES

Comparative Analysis of
Results

End

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	Acceptance criteria	Priority	Release
Customer (Mobile user)	Application	USN-1	You can download the crude oil price by opening the Google Play Store app directly as a user.	I can access my account / dashboard	High	Sprint-1
	Available Products	USN-2	Users of the application may instantly update the energy and oil prices while using it because there are so many different products in the crude oil price app	I can receive confirmation email & click confirm	High	Sprint-1
	Additional Features	USN-3	Users can read the most recent news and see oil price charts. Major Energy Quotes User View The user may use many colour schemes.	I can register & access the dashboard with Facebook Login	Low	Sprint-2
	Expectations	USN-4	User Can Convert Currency and Exchange Rates	I can expect	Medium	Sprint-1
	Login	USN-5	Log in as a user without using your email address, username, or password.		High	Sprint-1
	Dashboard		View the overall status of crude oil pricing.			
Customer (Web user)			I can see the prices of crude oil as a consumer	I can view the price directly.	High	Sprint-1
Customer Care Executive			I am the user and I execute the pricing history.	I can accept the terms.	Medium	Sprint-1
Administrator			As a manager, it anticipates the results.	Show the result.	High	Sprint-1