Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	15 October 2022
Team ID	PNT2022TMID49608
Project Name	Project – Crude Oil Price Prediction
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form
FR-2	User Confirmation	Confirmation via SMS.
FR-3	Fetching input data	Give the model the input data.
FR-4	Generating Results	Prediction of Oil Prices.

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	People with no proper awareness about the regular change in price of crude oil can get to know, User interfaces are easy to use.
NFR-2	**Security**	Access permission for the local system must be given by the system's data administrator.
NFR-3	**Reliability**	The system will show the results regularly. Because there is very little variance from the prediction, the testing is highly dependable.
NFR-4	**Performance**	The front page will not exceed more than 2 seconds. Using LSTM networks gives highly performance.

NFR-5	**Availability**	The system is provided with the past ten days data.
NFR-6	**Scalability**	RNN (LSTM) network model works efficiently for large number of users.