

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

Date	03October 2022
Team ID	PNT2022TMID06168
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	Data Description	Consider the sampling period(number of days or months or years)
FR-2	Training set	Take more number of observations
FR-3	Test set	Evaluate the accuracy of prediction
FR-4	Model	Model is preferred for the sensitive analysis of the given data
FR-5	Model construction	LSTM Model has three layers which is input,hidden and output layer have to be constructed
FR-6	Experiment	The constructed layer compare the difference between the predicted value and the real value

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Investors can easily plan their investments regarding crude oil
NFR-2	Security	Dataset of future economic status ,supply and demand are protected
NFR-3	Reliability	ANN model can access many data without any failure and result more accuracy
NFR-4	Performance	Effectively capture the changing pattern of prices
NFR-5	Availability	Dataset always provide sufficient data to forecast oil price
NFR-6	Scalability	Feature of web app provide easy access to the investors