Project Title: Project – Crude Oil Prediction **Project Design Phase-I - Solution Fit Template** **Team ID: PNT2022TMID10046**

Define CS, fit into CC

1. CUSTOMER SEGMENT(S) CS

Oil Producer, Oil Importer, and Trader who wants to predict the Future Crude Oil Prices

6. CUSTOMER CONSTRAINTS CC

Network connection, Availability of devices, No power to devices and unavailability of data

5. AVAILABLE SOLUTIONS AS

The developed system of using RNN and LSTM will be a good solution in predicting the crude oil prices, Using backup resources and internet, using data from data sources, using other sources of devices and internet sources are available solutions if there is problem with the developed system.

Explore AS, differentiate

Focus on J&P, tap into BE, understand RC

2. JOBS-TO-BE-DONE / PROBLEMS J&P

1. There is no effective and accurate method to predict the Crude oil prices, in which it will be more useful to the Oil Producers, Traders and Importers.

9. PROBLEM ROOT CAUSE RC

There are no effective and accurate methods which predicts the crude oil prices which is the Problem Root Cause

7. BEHAVIOUR BE

The user can go to the dashboard and enter the previous data and predict the future crude oil prices and if any problem arises in the system he/she can contact the support team of the developed system.

Focus on J&P, tap into BE, understand RC

Identify strong TR & EM

3. TRIGGERS

TR

By seeing the other oil producers, importers and traders using the developed system to predict the crude oil prices.

4. EMOTIONS: BEFORE / AFTER

EM

Before using this product the users are more confused about predicting crude oil prices but after this system users can easily predict the crude oil prices.

10. YOUR SOLUTION

SL

The solution is based on using Deep Learning models like RNN and LSTM which helps in predicting the future Crude Oil Prices effectively and accurately.

8. CHANNELS of BEHAVIOUR

CH

The user can go to the website dashboard online and enter the previous crude oil prices and then predict the future crude oil prices using RNN and LSTM in backend.

Identify strong TR & EM