

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

|               |                                      |
|---------------|--------------------------------------|
| Date          | 15 October 2022                      |
| Team ID       | PNT2022TMID14370                     |
| 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.

| NFR No. | Non-Functional Requirement | Description  |
|---------|----------------------------|--|
| NFR-1   | <b>Usability</b>           | user interfaces are easy to use.   |
| NFR-2   | <b>Security</b>            | Sensitive data is protected.   |
| NFR-3   | <b>Reliability</b>         | Because there is very little variance from the prediction, the testing is highly dependable. |
| NFR-4   | <b>Performance</b>         | Using LSTM networks gives highly performance.  |
| NFR-5   | <b>Availability</b>        | The system tested with 4 datasets and the system operating properly.                         |
| NFR-6   | <b>Scalability</b>         | LSTM network model works efficiently for large number of users.                              |