

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

|               |                                     |
|---------------|-------------------------------------|
| Date          | 03October 2022                      |
| Team ID       | PNT2022TMID25121                    |
| 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<br>Registration through Gmail |
| FR-2   | User Confirmation             | Confirmation via Email<br>Confirmation via OTP          |
| FR-3   | Graph                         | Showing graph by obtaining the data from the dataset    |
| FR-4   | Support                       | Providing answers for the queries asked by users.       |
| FR-5   | News                          | Information of the oil prices will be updated by admin  |
| FR-6   | Notification                  | Notification will be sent for the users price alert     |
| Fr-7   | Database                      | Information of the User will be stored                  |

**Non-functional Requirements:**

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

| FR No. | Non-Functional Requirement | Description  |
|--------|----------------------------|--|
| NFR-1  | <b>Usability</b>           | It can use by wide variety of client as it is very simple to learn and not complex to proceed.                     |
| NFR-2  | <b>Security</b>            | We are using login for the user and the information will be hashed so that it will be very secure to use.          |
| NFR-3  | <b>Reliability</b>         | It will be reliable that it can update with very time period so that the accuracy will be good.                    |
| NFR-4  | <b>Performance</b>         | It will be perform fast and secure even at the lower bandwidth.  |
| NFR-5  | <b>Availability</b>        | Prediction will be available for every user but only for premium user news,database and price alert will be alert. |
| NFR-6  | <b>Scalability</b>         | It is scalable that we are going to use data in kb so that the quite amount of storage is satisfied.               |