

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

| | |
|---------------|--------------------------------------|
| Date | 03 October 2022 |
| Team ID | PNT2022TMID43298 |
| 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 Email |
| FR-3 | User login | Login via user credentials |
| FR-4 | Primary specifics | The user has to specify the location from where crude oil is to be purchased and the date of purchase. |
| FR-5 | Additional requirements | User must have proper internet connection. |

Non-functional Requirements:

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

| FR No. | Non-Functional Requirement | Description |
|---------------|-----------------------------------|---|
| NFR-1 | Usability | The user is provided with better user interface so that they can access the application effectively. |
| NFR-2 | Security | Certain encryption algorithms are used to securely maintain user's data. |
| NFR-3 | Reliability | Users review and feedback are taken and is used to maintain reliability. |
| NFR-4 | Performance | The accuracy of the prediction will be good irrespective of the size of dataset and number of users. |
| NFR-5 | Availability | The application is available to all users at any time. |
| NFR-6 | Scalability | As the model is trained with huge data, it is capable of handling growing data without affecting performance. |