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

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|---|---|
| Date | 23 October 2022 |
| Team ID | PNT2022TMID27028 |
| Project Name | Project – Traffic and Capacity Analytics in Major Ports |
| 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 |
| FR-3 | User Input Acceptance | The dashboard accepts user input by means of selecting the location of the ports. |
| FR-4 | Options for User to filter location of ports | The user can use filter options to view ports by countries. |
| FR-5 | Visualization of ports. | The dashboard provides various visualization techniques to understand the flow. |
| FR-6 | Providing Delay Information of trains. | The dashboard is able to provide the user the information like delay of a particular train to the ports. |

**Non-functional Requirements:**

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

| FR No. | Non-Functional Requirement | Description |
|---|---|---|
| NFR-1 | **Usability** | The dashboard is able to provide the users the consistency and the aesthetic they expect. The user can constantly use the dashboard without any flaw in the visual quality. |
| NFR-2 | **Security** | The dashboard is much secured that the data of the users are kept confidential and also it is not prone to any kind of attacks. |
| NFR-3 | **Reliability** | The failure rate is minimal and the failure can easily be rectified using the measures. Thus this makes the dashboard much reliable. |
| NFR-4 | **Performance** | The dashboard gives better performance. It provides the user a convenient and flexible User Interface. |
| NFR-5 | **Availability** | The dashboard is always available to serve the users. The availability is ensured in such a way that the user can access the dashboard any time anywhere. |
| NFR-6 | **Scalability** | The dashboard is highly scalable. It can withstand any increase or decrease of loads. |