

**Solution Requirements (Functional & Non-functional)**

Date	08 October 2022
Team ID	PNT2022TMID00308
Project Name	Project - Traffic and capacity Analytics for 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 Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
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	<b>Usability</b>	The dashboard is able to provide the user the consistency and the aesthetic they expect. The user can constantly use the dashboard without any flow in the visual quality.
NFR-2	<b>Security</b>	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	<b>Reliability</b>	The failure rate is minimal and the failure can easily be rectified using the measures. Thus this makes the dashboard much reliable.
NFR-4	<b>Performance</b>	The dashboard gives better performance. It provides the user a convenient and flexible user interface.
NFR-5	<b>Availability</b>	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	<b>Scalability</b>	The dashboard is highly scalable. It can withstand any increase or decrease of loads.