

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

Team ID	PNT2022TMID44353
Project Name	Project - Traffic and capacity analytics for major ports.

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	Location Tracking	Location of Ships and Trains are monitored via GPS
FR-4	Historical Data	The information of past record is necessary
FR-5	Reporting Requirements	The requirements of the project should be met
FR-6	Testing	Applying algorithms on the test data set

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The traffic rate is analyzed using graphs and a record is maintained clearly for future use.
NFR-2	Security	No other persons can access this application except the team allotted for it.
NFR-3	Reliability	It is easy to access and control traffic.
NFR-4	Performance	The performance is fast and robust. Automatically schedules time for trains.
NFR-5	Availability	These projects are available for any authorized port that needs to reduce traffic.
NFR-6	Scalability	This project is applicable to small scale and large scale ports.