**Project Design Phase-II**

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

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| Date | 03 October 2022 |
| Team ID | PNT2022TMID00825 |
| 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.

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| **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.

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| **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. |