

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

Date	25 October 2022
Team ID	PNT2022TMID47359
Project Name	Smart solution for railways based on IoT
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	256MB RAM	Select the entry in board menu
FR-2	LED	Rated input power of LED luminary efficiency
FR-3	GPS	Data received from multiple GPS satellite
FR-4	Infrared source	Radiation sensitive opto electronic

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Evaluation of the railway self service terminal interface
NFR-2	<b>Security</b>	"Armed force of the union" Protection Force Act,1957
NFR-3	<b>Reliability</b>	Vromans (2005) defines reliability as the percentage of trains arriving within a certain margin from the scheduled
NFR-4	<b>Performance</b>	Indian Railways constantly strive to provide better facilities to its vast set of customers
NFR-5	<b>Availability</b>	Current Availability is the availability and booking of tickets only
NFR-6	<b>Scalability</b>	Algorithm for scheduling bidirectional railway lines (both single- and multi-track)