PROJECT DESIGN PHASE- II

FUNCTIONAL REQUIREMENTS

TEAM ID	PNT2022TMID03947
PROJECT NAME	Signs with Smart Connectivity for Better Road Safety

The functional requirements of the proposed solution are :-

1. Requirements	Static sign boards will be replaced with digitalized sign board using IoT
2. Operating Environment	Operating System: Windows 8 , Processor: Intel I3 or Higher , Memory: 4GB or more
3. Design and Implementation Constraints	Control Side and Vehicle side units , Bluetooth transmitter and receiver , GPS
4. System feature : Alerts	This system will alert the driver about the speed limits in specific areas by reducing the speed of the vehicles in sensitive public zones without any interference of the drivers where controls are taken automatically by the use of a wireless local area network.

The Non-functional requirements are :-

1. Quickness	System should be fast enough for getting alerts
2. Failure Handling	In case of failures due to unavoidable reasons, the system should be able to recover quickly
3 Detection and Response Time	Must be high
4. Throughput	Model has to be updated periodically