Date	03 October 2022
Team ID	PNT2022TMID39434
Project Name	Project – Signs with smart connectivity for better road safety
Maximum Marks	4 Marks

Data flow diagram:
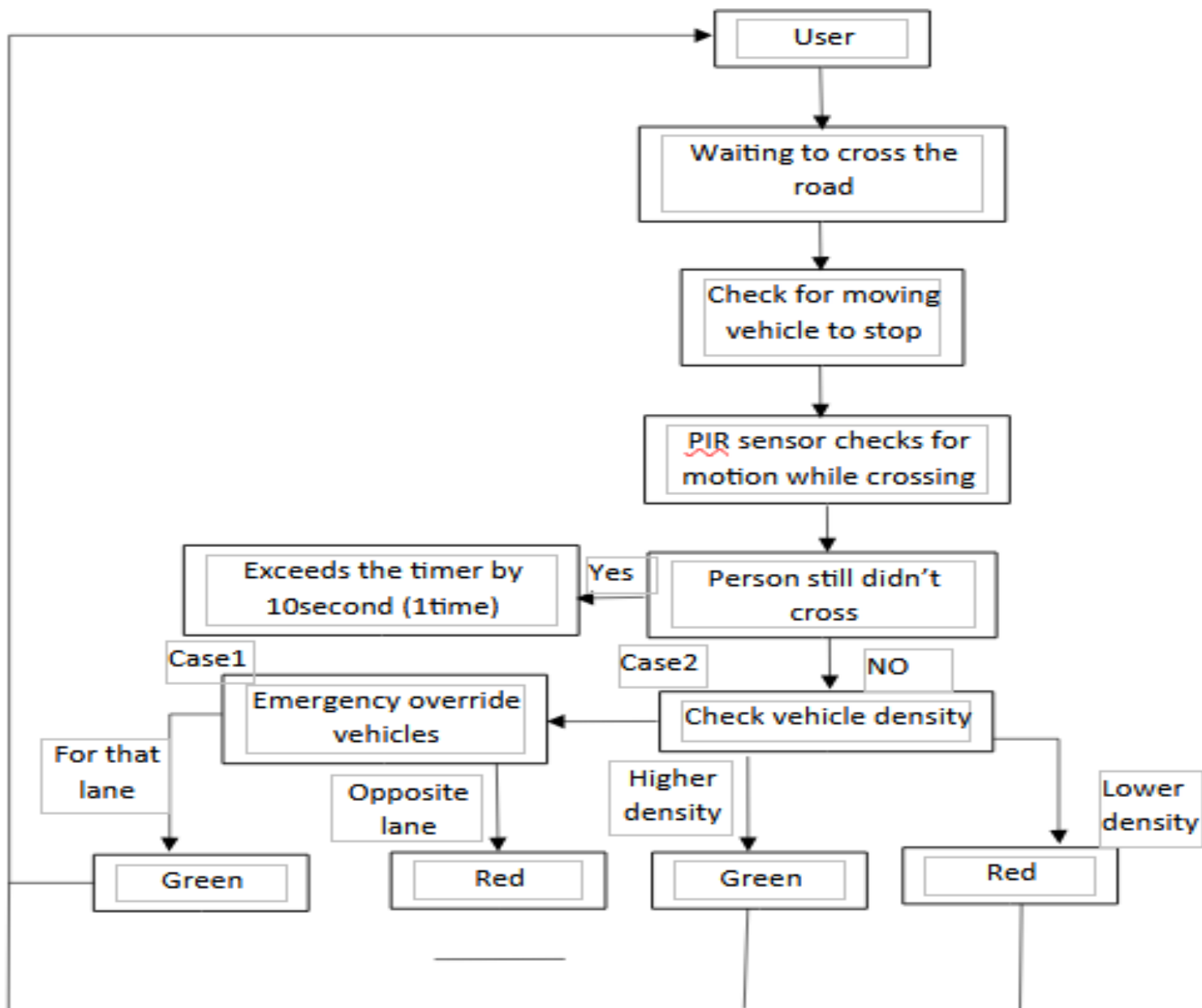
User Stories:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Pedestrian)	Pedestrian aspects	USN-1	The user trying to cross the road, and once he stands in pedestrian lane, it detects with pir sensor and if the density of vehicles is low the pedestrian signs go steady green and vehicles to be stopped for sometimes and the pedestrian sign starts flashing green for 10 seconds and by that time all have to cross and vehicles can move forward, by this monitoring ans sign connectivity, we can avoid non adherence of traffic rules and no congestion in cities.	The board can receive the detection of people presence in the lane and sent it to the sign board	High	Sprint-1
Emergency vehicles driver	Emergency rider aspects	USN-2	As a emergency responder, i need to know the accurate state of road, routes and schedule and to know the best possible or prioritized route to the incident and to hospitals.	I can able to know the best route to the hospital to fulfill my duty.	High	Sprint-1
Customer	Reporting and safety information aspects	USN-3	Who is operating the vehicle and that i can trust them, and if it is run by a human or by AI	I can sense the level of higher safety	Low	Sprint-2
Driver	Distractions and frustrations	USN-4	Drivers get distracted due to the long wait period in the red signal but the opposite lane is empty. This makes the person to feel frustrated. So, in our project we look after the vehicular density on each lane and based on that data we going to control the timings of the signal on each lane hence traffic control can be monitored efficiently.	I can travel in peaceful manner and reach the destination on time.	Medium	Sprint-1
Student and working persons	Reach on time	USN-5	Due to heavy congestion they cannot reach on time. In our project we maintained efficient traffic signaling system which reduces the heavy traffic.	I can reach the destination earlier	High	Sprint-1