Project Design Phase-II
Data Flow Diagram & User Stories

Date	30 October 2022
Team ID	PNT2022TMID21659
Project Name	Signs with smart connectivity for better road safety
Maximum Marks	4 Marks

Data Flow Diagram:
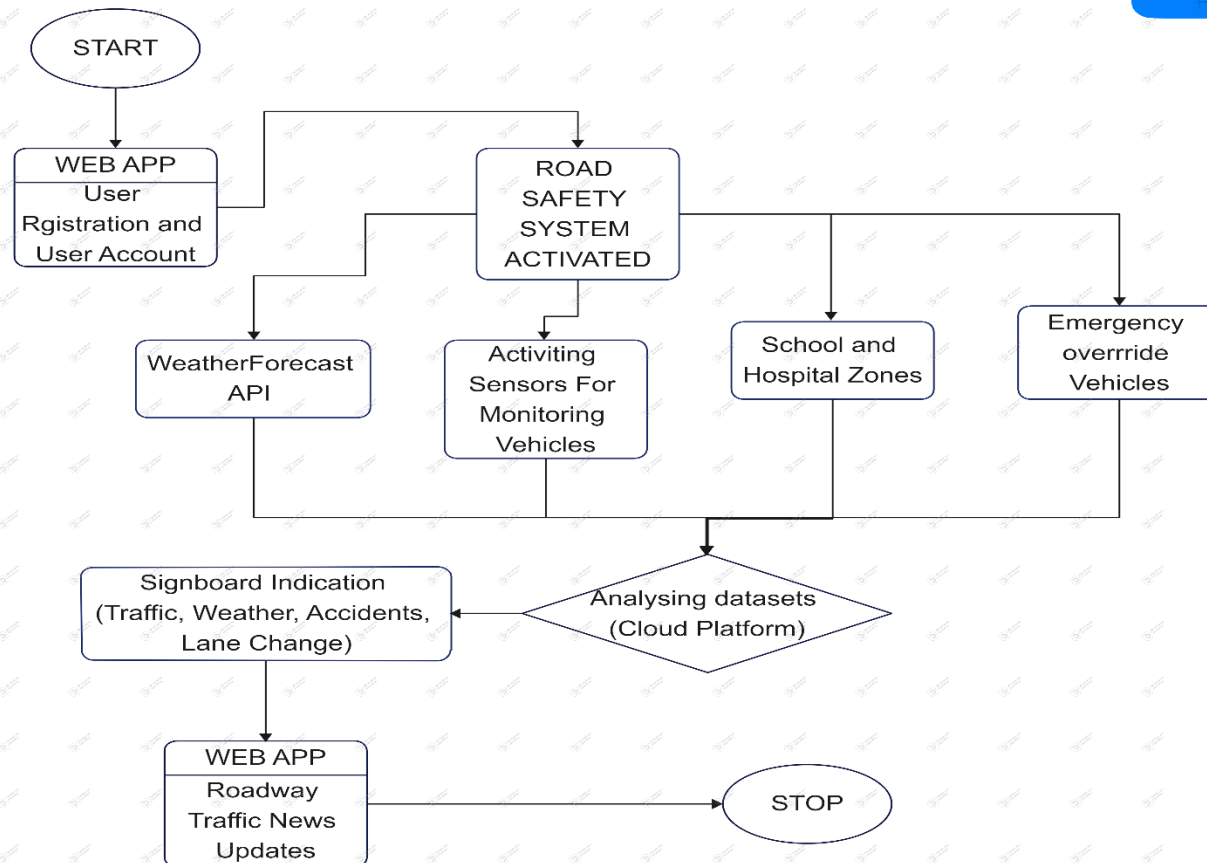
User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Pedestrian	Pedestrian Aspects	USN-1	The system should detect the pedestrian trying to cross the road using sensors and changes the signs based on the number of pedestrians and the vehicles on the road.	The board can receive the detection of people presence in the lane and sent it to the sign board	High	Sprint-1
Driver	Driving Aspects	USN-2	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. We monitor the vehicular density and change the signs for lane change according to it.	I can travel in peaceful manner and reach the destination on time.	Medium	Sprint-1
Passenger	Travelling Aspects	USN-3	Passengers gets frustrated due to waiting for a long time in traffic. Our system monitors the vehicles and changes the traffic signs according to the rush hours to avoid traffic congestions	Passengers should experience a pleasant journey	Medium	Sprint-2
Emergency vehicles driver	Emergency Mission aspects	USN-4	As an 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 fulfil my duty.	High	Sprint-1
Students	School Zones	USN-5	There will be a lot of traffic during the school opening and closing hrs in school zones. I need to cross the school zone by diverting to other roads without causing an incident with the walking students.	Students will be prevented from accidents.	High	Sprint-1
Customer (App User)	Reporting and safety information aspects	USN-6	Reporting information and feedback about traffic, accidents, speed limit, road safety.	I can sense the level of higher safety	Low	Sprint-2