PASSIVE SAFETY SYSTEMS

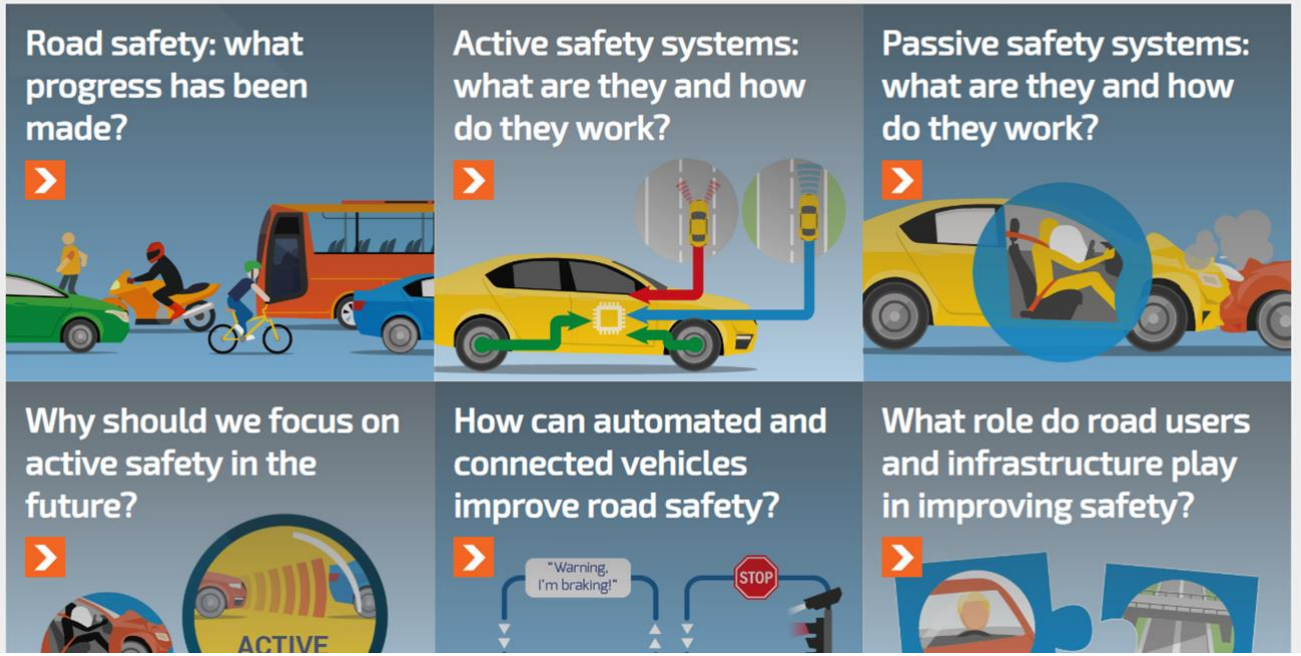
- Protect the occupants of a vehicle and other road users if a crash occurs
- Reduce the impact of an accident or the level of injury
- Mitigate the consequences of an accident **during and after impact**

Pre-tensioned seatbelts | Airbags | Deformation zones

ABOUT US | DOWNLOAD PDF

ROAD SAFETY FACTS .EU

FAQ: frequently asked questions about road safety



BETTER AND FASTER EMERGENCY CARE DURING VECHILE IMPACT

PROBLEM STATEMENT

Better and faster emergency care during accidents and vehicle impact

- The main aim is to create a system that reduces the amount of time wasted on accident sights that is the major cause that leads to deaths.

INTRODUCTION

PREVIOUS SYSTEM

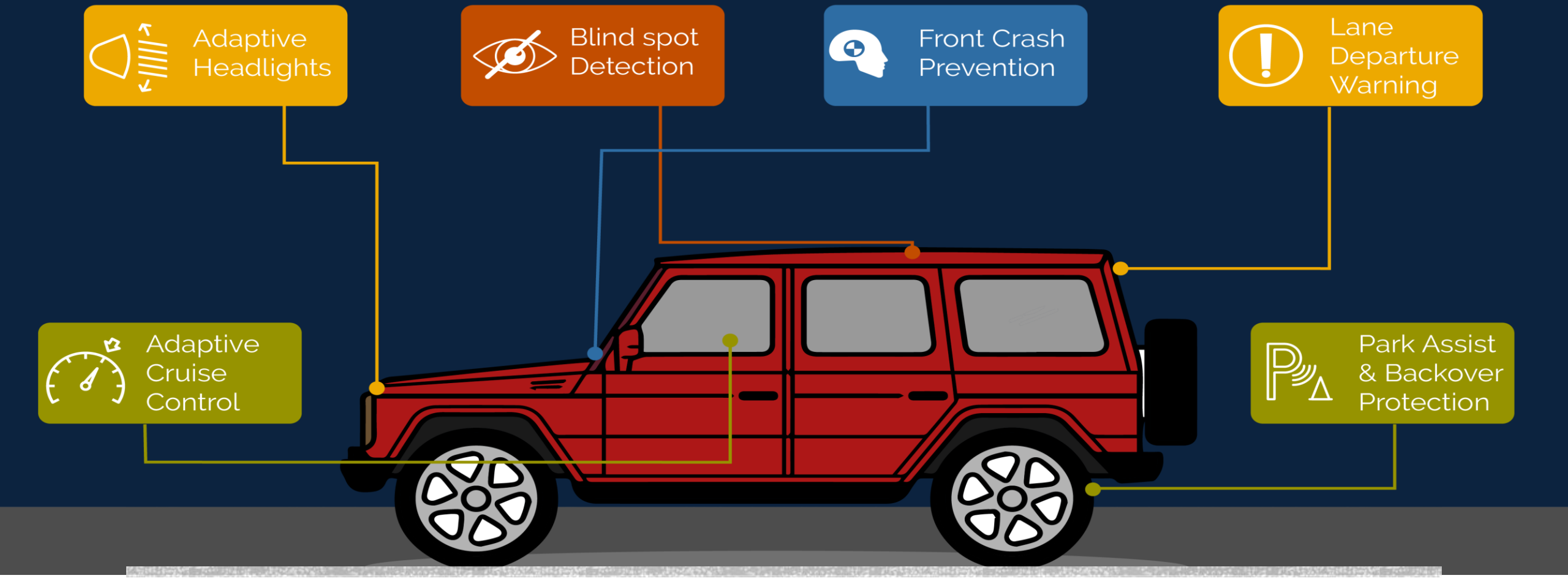
When an accident occurs the information is only sent through GSM, but it was very difficult to find the exact location

As a result of people eventually die just waiting for help but initially, the ambulance is unable to track them.

PROPOSED SYSTEM

- It comprises of developing an application that will effectively connect all the stakeholders that are involved during an accident **the driver, the hospital, and the ambulance.**

WHAT CAN MY CAR DO?



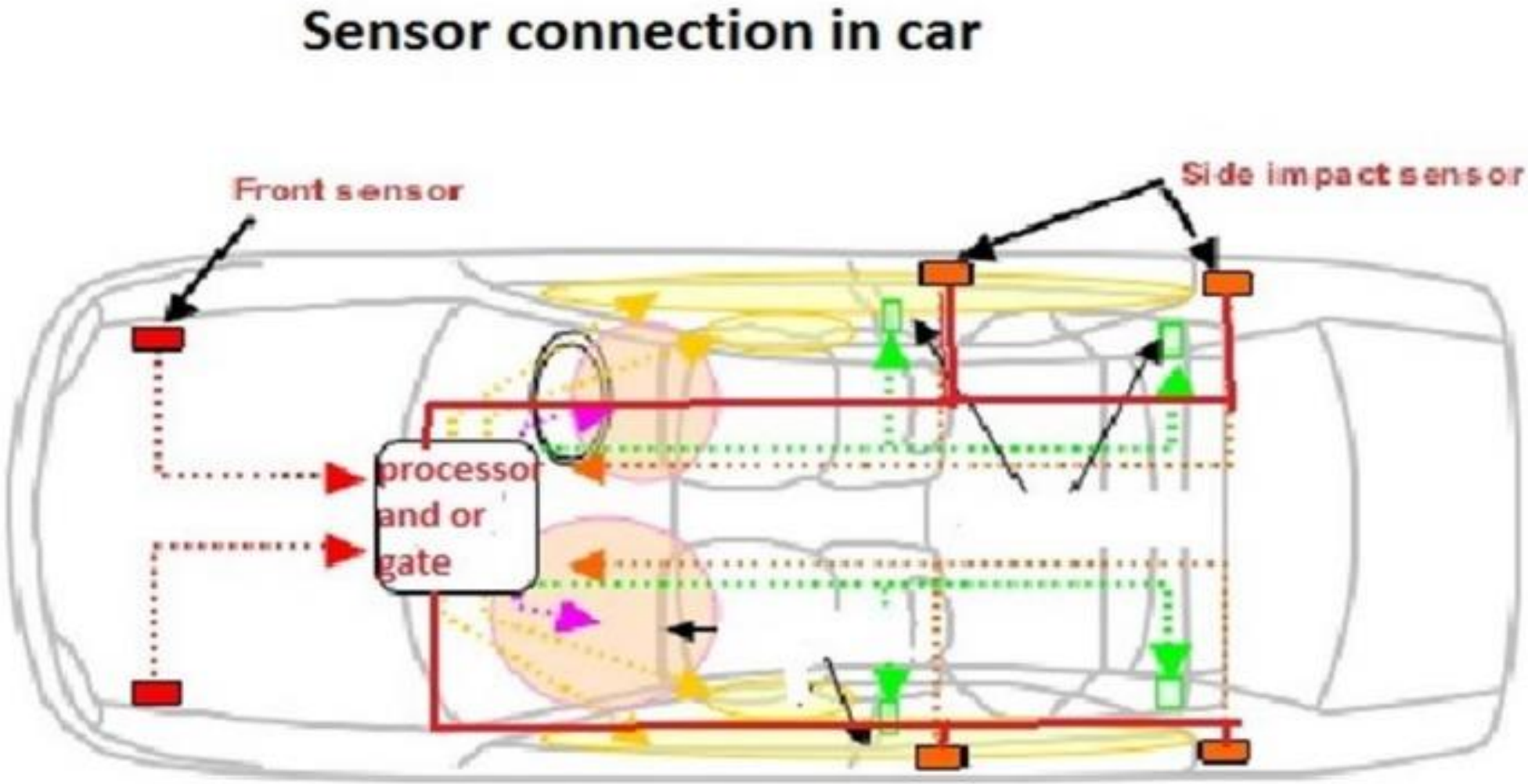
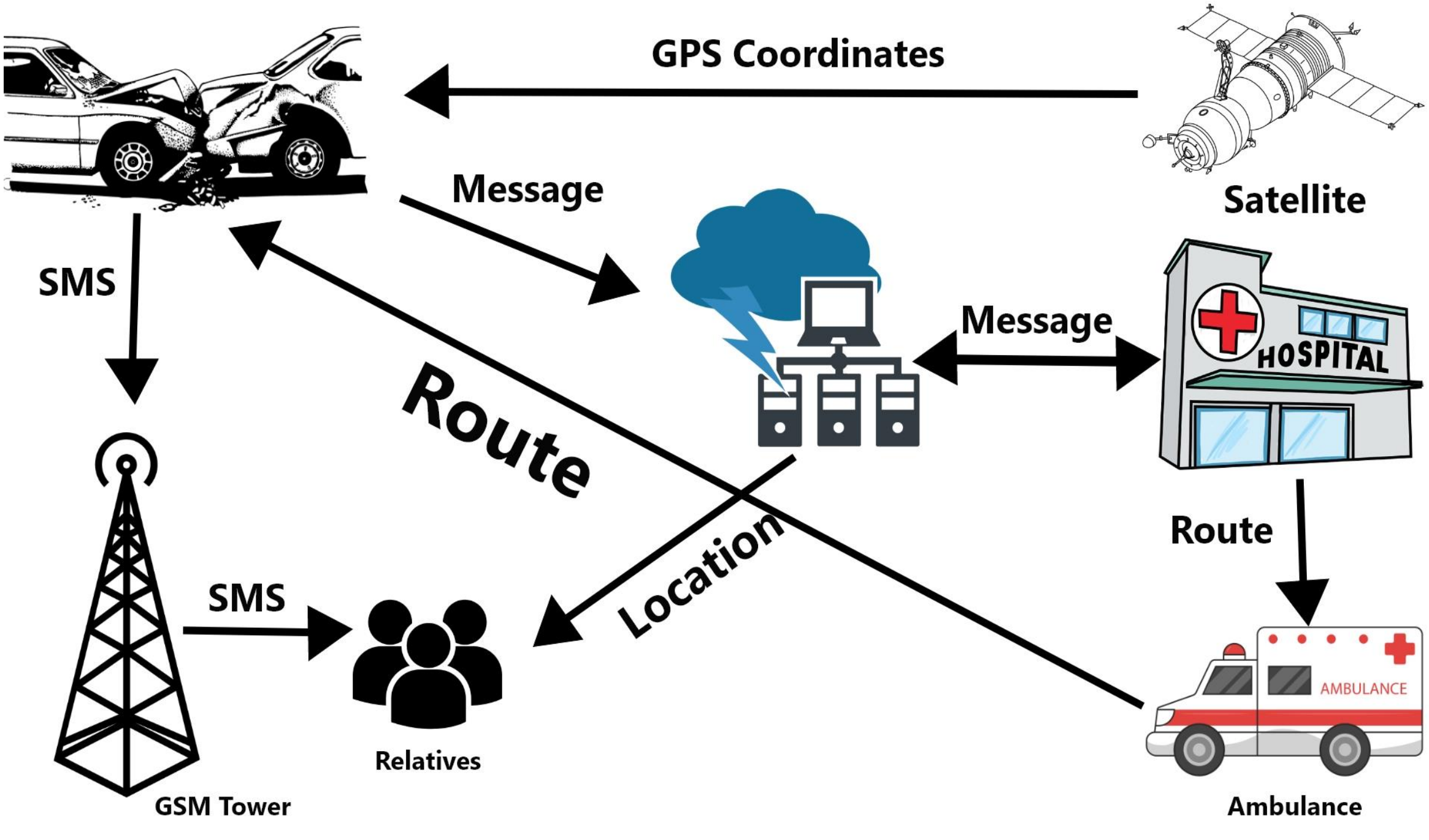


Figure 8 Shock sensors position on vehicle


GPS Coordinates
Satellite
Message
SMS
Message
HOSPITAL
Route
Route
Location
SMS
Relatives
GSM Tower
AMBULANCE
Ambulance

As soon as the accident occurs, the **ABS preinstalled** into the car will trigger a signal to the hardware module which is pre-installed in the car.

When the hardware module detects this signal, it fetches its **location using the GPS module** and sends these fetched coordinates to the server system.

Then the server will process this information sent from the accident site and then find and **allocate the nearby hospital.**

The available number of the ambulance, number of beds available, and the main doctor is available or not in the hospital and then sends this ambulance to the accident site using google map api which gives **the shortest path** which would be provided by the system itself.

The allotted ambulance will reach the accident site with the exact coordinates sent by the our embedded system in car and then admits the patient in the ambulance.

01

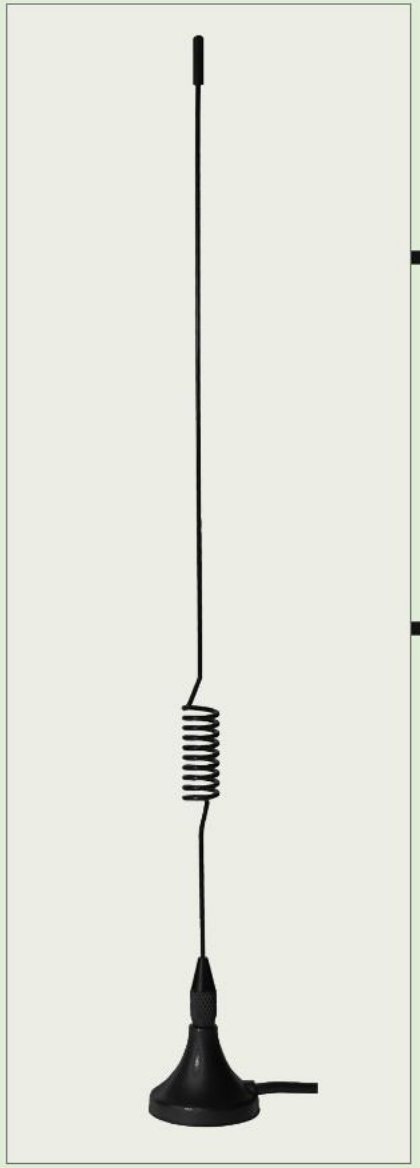
After admitting the patient in the ambulance, the attendant present will take the complete information of the condition of the patient and upload it to the ERP.

02

Once the information of the patient is uploaded the hospital will make the necessary arrangements to attend to the patient.

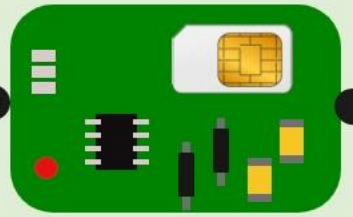
03

If the person meets with a small accident or if there is no serious threat to anyone`s life, then the alert message can be terminated by the driver by a switch provided to avoid wasting the valuable time of the medical rescue team.



Antena

Power Supply



GSM Modem

GPS

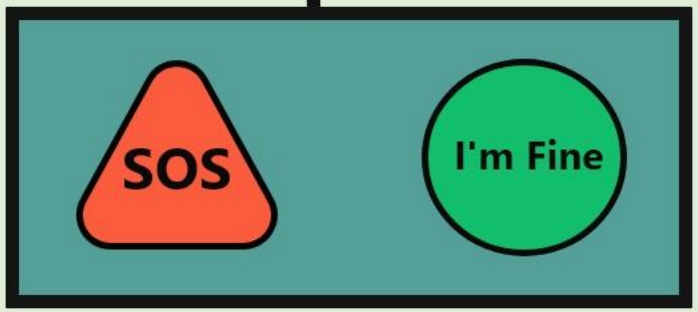
Main Circuit

LCD

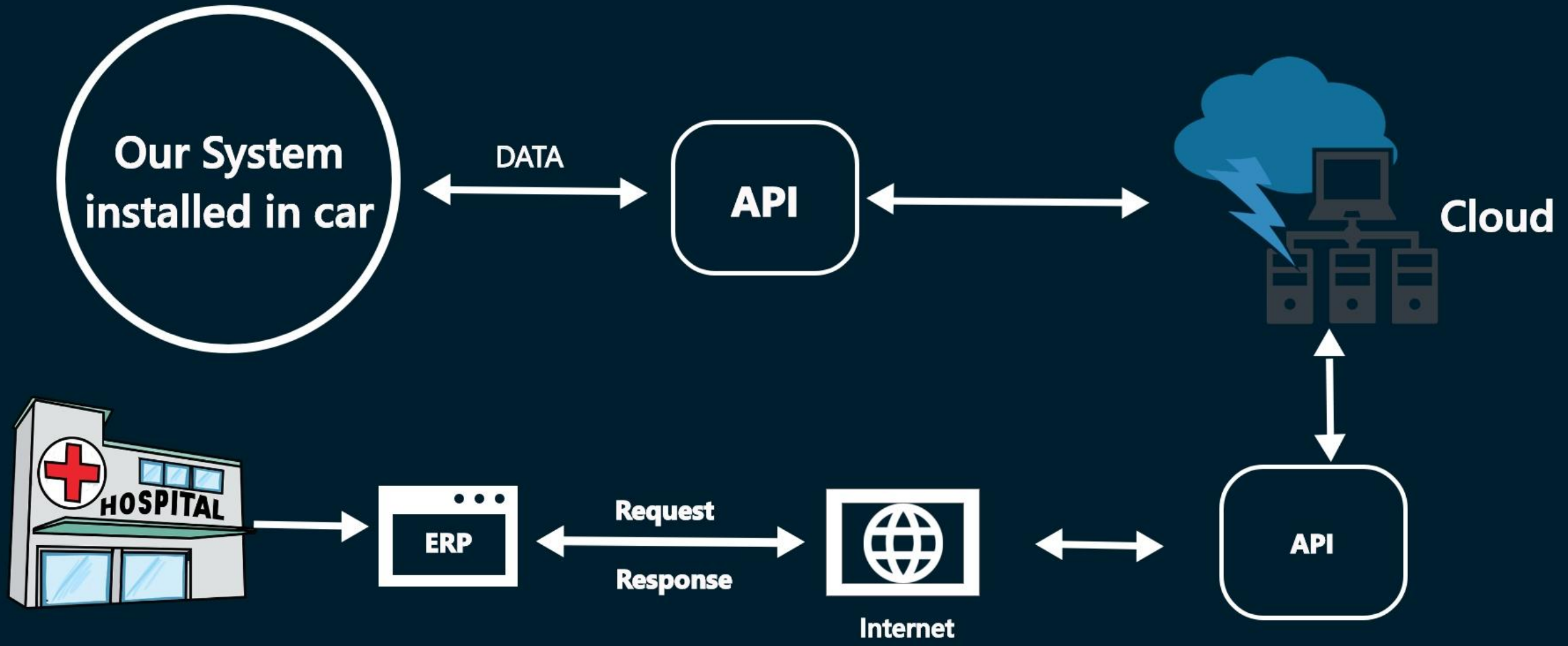
Vibration Sensor

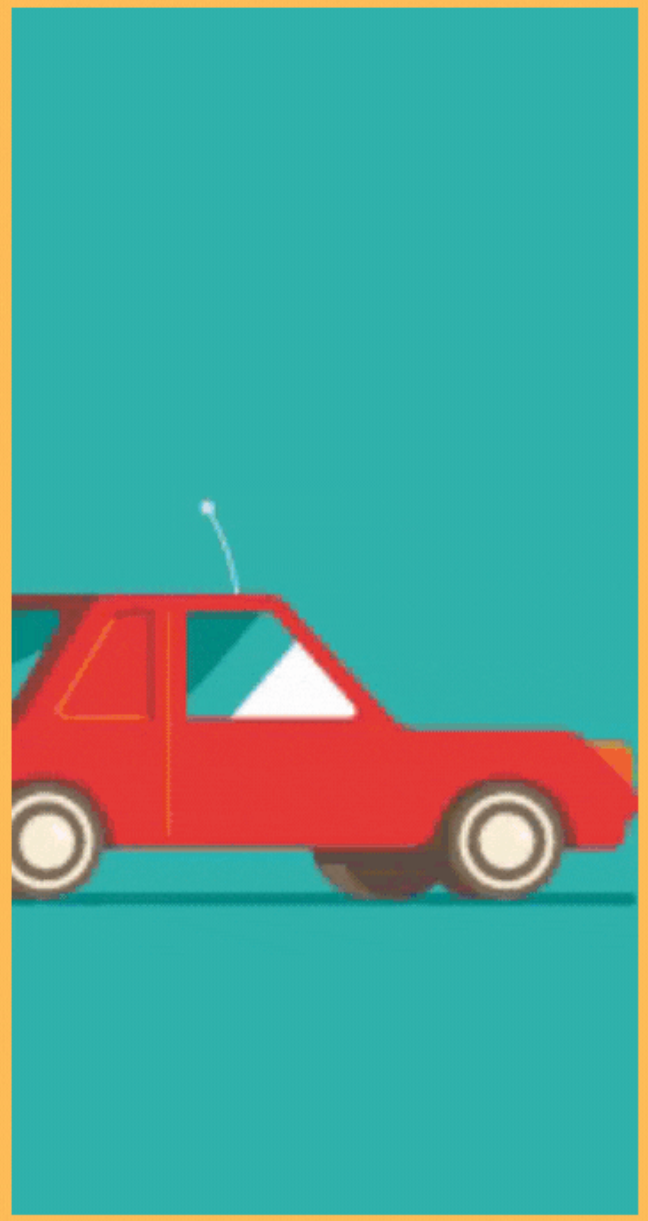
Flame Sensor

Grid Eye Sensor



How We Connect with Hospital





accelerometer sensor

Cloud

TECHNOLOGIES USED

- Google Maps API
- GSM module
- GPS Device
- SENSORS
- Cloud computing
- IOT

ADVANTAGES

- Cost Effective
- Assured Safety
- Victimim life can be saved quickly
- Low Power Consumption
- Better Accuracy
- Efficient Time Consumption
- Reduce the chance of human error.

NOT EVERYTHING IS FREE😗

- We will give our customers free one year accidental policy after that customer have to pay regular policy bill.
- We will tie up from other policy companies also so that we can act as a broker and get commission in return
- We will charge money on sim for outgoing and incoming internet services.
- We can also use the persons data and hospital data (not the confidential one only the basic data) to advertise our services.

CONCLUSION

- **The life of a person would get saved in just a few minutes. As of I don't think that anything would be much important than that.**

THANK YOU

TEAM
CODING JUNCTION