PASCKATHON - 2.0

TEAM NAME - ALPHA

MEMBERS :

- Kanika Agrawal
- Pragati Joshi
- Ranjana Jeysree
- Shubham Arora
- Jasnain Singh Obhan

INTRODUCTION

OBJECTIVE :

- Instant help for the accident victim .
- Increase in the current survival rate .
- More reliable aid mechanism .

PROBLEM STATEMENT :

Technological Advancement For The Aid Of Accident Victims

NHTSA estimates that the combination of an airbag along with a seat belt reduces the risk of death by 61% only. So how newer technologies can help increase this value and notify the nearest hospital and police station simultaneously in case an accident occurs , especially at a secluded spot or at such a time where there are no people around for help .

PROPOSED SOLUTION

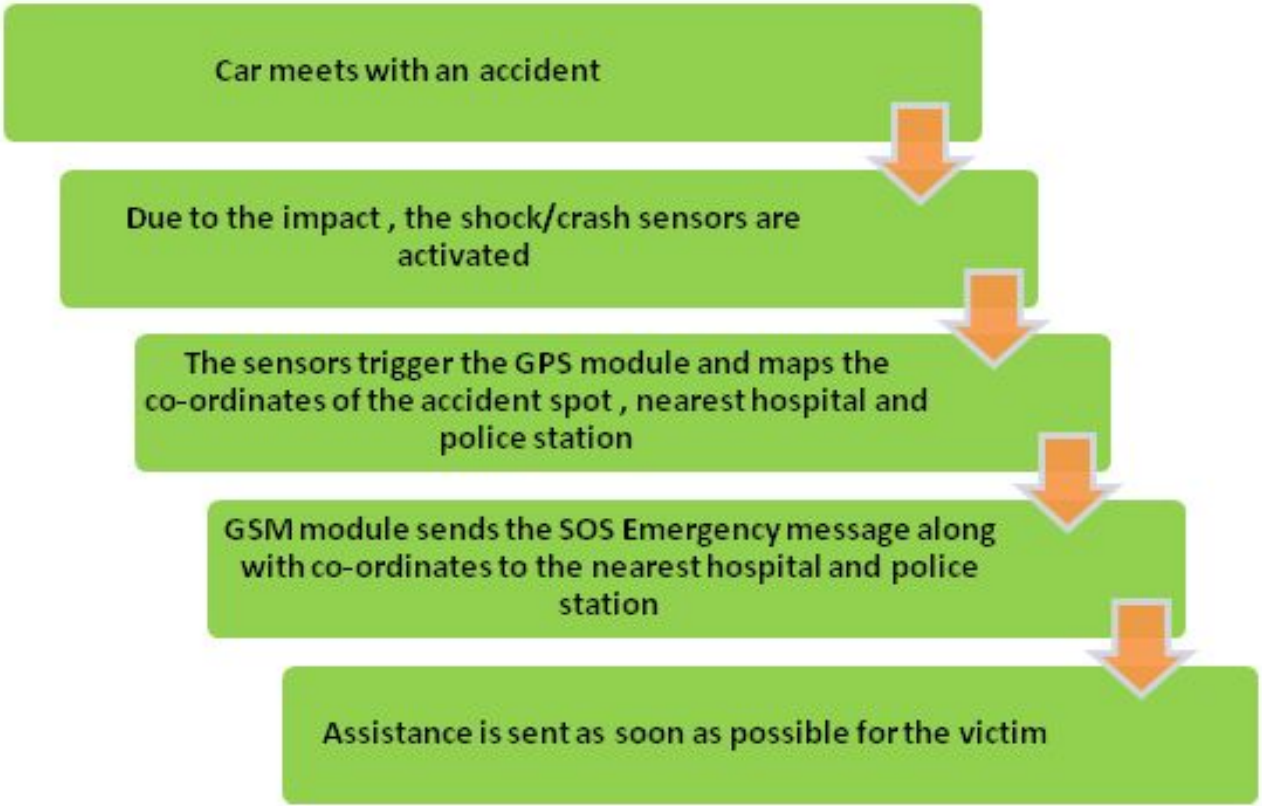
With the help of new technology under the domain IoT (Internet of Things) we can design a device which can be installed in a vehicle at a particular safe place like close to the airbag sensors so that it is intact during a harmful impact .

This device will have a sensor which , as soon as the vehicle collides such that the impact of the collision are preset within the given parameters so it can send a SOS Signal to the nearest hospital and police station along with the location of the accident spot using the GPS Module .

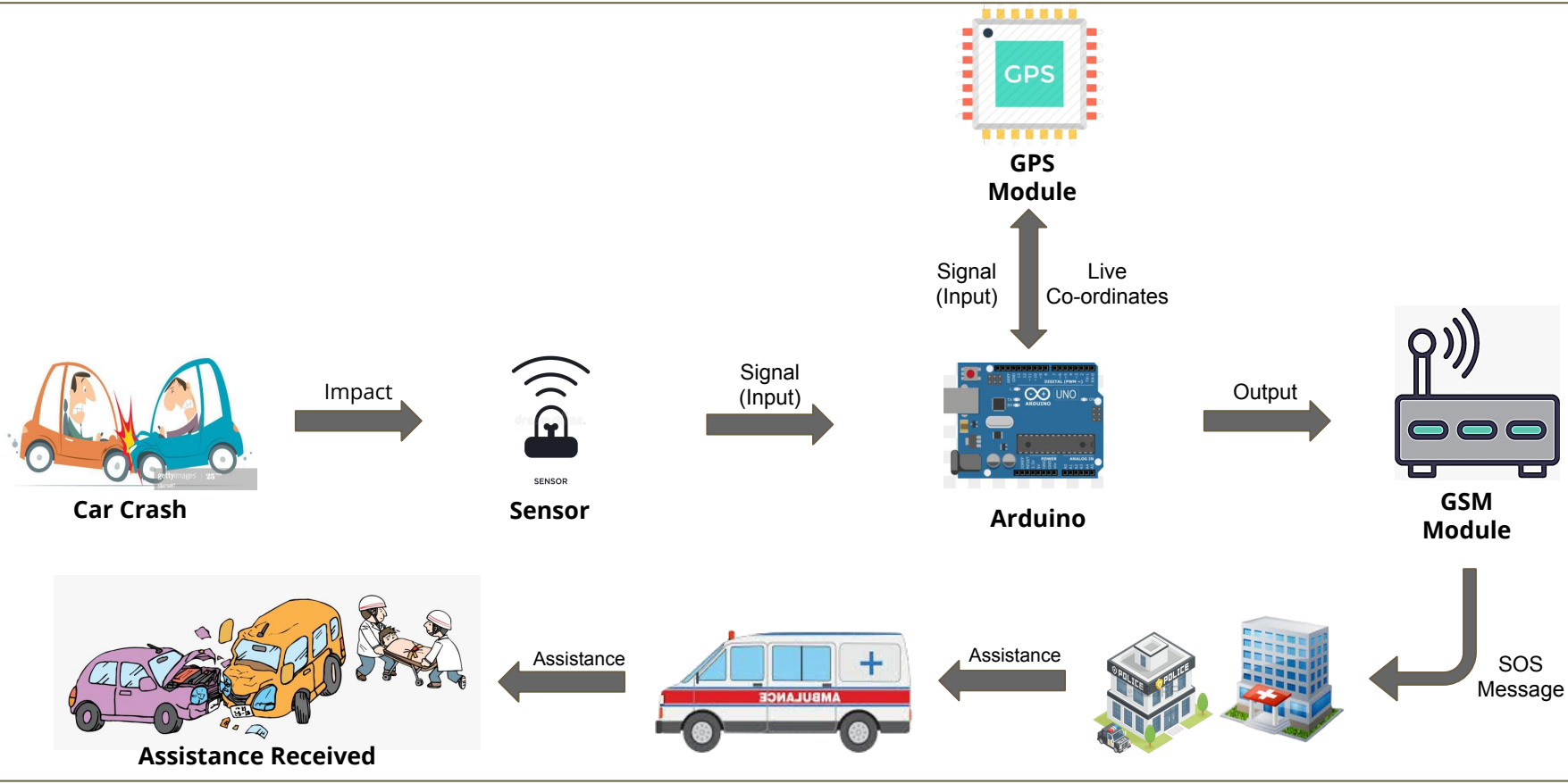
TECHNOLOGY STACK :

- IoT
- GPS Module
- Arduino
- Shock/ Crash Sensors
- GSM Module

FLOWCHART


Car meets with an accident
Due to the impact , the shock/crash sensors are activated
The sensors trigger the GPS module and maps the co-ordinates of the accident spot , nearest hospital and police station
GSM module sends the SOS Emergency message along with co-ordinates to the nearest hospital and police station
Assistance is sent as soon as possible for the victim

USE CASE


GPS
GPS Module
Signal (Input)
Live Co-ordinates
Car Crash
Impact
SENSOR
Sensor
Signal (Input)
UNO
Arduino
Output
GSM Module
SOS Message
POLICE
Assistance
AMBULANCE
Assistance
Assistance Received