**PROBLEM STATEMENT**

Better and faster emergency care during accidents and vehicle impact

**WHAT GENERALLY HAPPENS**

As being an honorable citizen of INDIA, I feel proud to announce that in my country helping the needy comes at a secondary place whereas the video gets viral at the very first moment.

So, the main reason to go for this project is to make an effort towards mankind. **“JUST TO SAVE A LIFE ON TIME”,** as it won't get lost in making videos and other stuff.

**SOLUTION**

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

Our system will have the potential to connect the car of the driver with the cloud serves that will help to connect the car with the ambulances and hospitals. We aim to use as much fewer components to integrate our product into the car and the mobile phone to save the lives of people who might have lost their lives because of the small lack of concentration error of the driver.

The idea 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. The application will comprise of three operating modes namely **the Driver, Ambulance and Hospital**. All those who have subscribed to this system will have to register in the application and then the following task will take place.

**DATA FLOW**

1. 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.
2. When the hardware module detects this signal, it fetches its **location using the GPS module** and sends these fetched coordinates to the server system.
3. Then the server will process this information sent from the accident site and then find and **allocate the nearby hospital.**
4. After selecting the hospital, it then selects **the available number of the ambulance, number of beds available, and the main doctor is available or not of the hospital** and then sends this ambulance to the accident site using **the shortest path** which would be provided by the system itself.
5. The allotted ambulance will reach the accident site with the exact coordinates sent by the hardware and then admits the patient in the ambulance.
6. 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 database.
7. Once the information of the patient is uploaded the hospital will make the necessary arrangements to attend to the patient.
8. Further, we will classify things based on **pre-crash and post-crash measures** so that the chances of any mishappening become very low.
9. 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.
10. An automatic alarm device for vehicle accidents is introduced in this project. This design is a system that can detect accidents in significantly less time and sends the basic information to the first aid center within a few seconds covering geographical coordinates, the time and angle in which a vehicle accident had occurred.

**TECHNOLOGIES USED**

* Machine Learning
* Google Maps API
* Java
* Mysql
* GSM module
* GPS Device.
* CCTV
* SENSORS
* AWS or Cloud computing
* IOT

**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.**