

HACKMSIT 2019

Team New Wave

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Theme: Health

AmbuLens

Idea:

In case of a medical emergency, every moment is critical in saving a patient's life. Ambulances play a pivotal role in the golden hour, as the responsibility of the initial treatment and also transporting the patient to the hospital lies with them.

We must be sensitive about giving way to the ambulance. The moment we *hear the siren* of the ambulance, the motorist should start moving to a side and *give way* to it.

But with the *increasing traffic* on roads, giving way isn't as easy as it seems. So we plan to *notify the drivers in advance* that an ambulance is on its way and that the motorists must start moving their vehicles to the left. This *will help* the *ambulance in finding a free passage* as all motorists would be aware of the oncoming ambulance a bit early and provide the *patient* with an even better shot at *being saved*.

We plan to sensitize people to the fact that every second count in a medical emergency, which is why it is vital for people to give way when an ambulance approaches. It may mean the difference between life and death.

Plan of Action:

- Build an app (AmbuLens) that tracks all active Ambulances (carrying patients) and gives their detailed route.
- The app will notify all drivers that are driving on the route being taken by an ambulance. This will help drivers to start making way for the ambulance in advance.
- The app would require location permission but we intend to inform all drivers in the vicinity, even those who have turned their GPS off.
- The notification alert will be a voice message so that the driver is informed and hence can respond accordingly.
- To maintain User Privacy an array of path locations of the ambulance will be sent to all users. Matching will then be done which will decide whether to alert a user or not.

Technologies that will be used:

- Android: Android development using java will be used for frontend so as to provide user interface and logic.
- Firebase: All the backend and ambulance location will be processed using firebase.

Conclusion:

With our app we hope to raise awareness and sensitize people regarding the value of *Time* and *Human Life*.

Every Second Counts