Assignment ___ 02

9. Decide the problem which will be solve & detail story about why the problem happens:

Problem:— The accident happens in huge amount in the worldwide through the driving.

Why the problem happens?

The accidents happen due to combination of factors,

Including human error, environmental condition, & also by

the mechanical failures.

for example:— Human error can happen by the individual or due to the alcohol of drugs. It also happens due to poor road or workplace condition. Mechanical failures can also happen due to sudden occurences like animals crossing the road, unexpected obstacles.

- Why you decided this problem?
 We decided this problem because when the accident happens the person is not able to go to the hospital immediately. His / her life may go in danger & people do not help the person they click the photos / videos unnecessarily, then the humanity comes infront.
- · How your throughts to solve the identified problem of accident?

When addressing the problem of accidents, its crucial to consider both preventation & responsive measures.

At Preventative measures:

if Improved safety standards.

if Technology integration

Date

B) Responsive measures:

1) Emergency Response plan.

11) Accident investigation.

11) Support system.

* Solution on the problem.

Due to human errors like alcoholic driver we can detect it through the software technology.

In involves a combination of sensors, data analysis.

There are some solution through the we can detect the person.

The drivers must blow into the breathalyzer, & if alcohol is detected above the legal limit. The vehicle will not start up modern system can transmit the data to a manitoring app or central database for real-time

tracking.

The cameras & AI:—

The cameras equipped with AI algorithms can monitor with drivers behaviour & detect the signs of impairment.

Steering wheel sensors:

Sensors embedded in the steering wheel can measure the drivers sweat for alcohol content. If alcohol is detected the system can alert the drivers of prevent the vehicle from operating.

• The best solution with Justification.

The best solution to solve problem is (Automative accident detection & notification) through the software, vehicle-to-everything (vex) communication.

In the event of an accident, V2X - equipped vehides can automatically get alert emergency services with precise location data & details about the severity of the incident & it also help to reach the accident site & hospitals faster.

Justification about solution :-

The Ultimate result is reduced response times, improved patient outcomes, & a more efficient emergency medical system.

· The Prototype Model

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• Accident occurs . •

The alert is automatically generated, including GPS co-ordinates & severity.

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• Emergency Notification •

The system receives the alert & dispatches an ambulance.

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Traffic Management.

Traffic lights on the ambulance's route are synchronized to turn green ensuring minimal stops.

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• Ambulance En-Route .• Nearby vehicles are notified to dear the path.

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• Hospital Prepareness.•

Medical staff should prepare the necessary equipment & personal to receive the patient immediately.