



APPLICATIONS

This application is made for accident detection. When someone is involved in an accident it detects the impact through accelerometer (shock sensor). After the detection of accident. It sends notifications and location to the nearby ambulance and police through database connectivity. Both the ambulance and patient can track each other values. In Emergency if a patient wants to call a nearby hospital for the assistance he can do that at any time. RAD ensures peace of mind by leveraging advanced technologies for rapid accident identification and immediate emergency response. Drive confidently, knowing that RAD is your vigilant companion on the road, dedicated to enhancing your journey.

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RAPID ACCIDENT DETECTION

RAD

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INTRODUCTION

RAD is a safety feature that's available on a safety app helping to protect you and your loved ones. It's able to sense when you've been in a car accident, either as a driver or passenger, and will quickly notify emergency services, and could also alert your family members. Main thing is to monitor the vehicle with fully automated system & GPS satellite tracker.

for them to take immediate actions. This Application aids in having a better coordination and keeps all the concerned bodies and authorities informed and alerts them quickly which also saves time in rescuing an accident patient. When a person meets an accident, he is usually not in a condition to interact with an application on his phone and ask for help in such situation accident is detected automatically through RAD app based on sound reading and sensor reading, RAD continuously sense for such accidents.

FEATURES

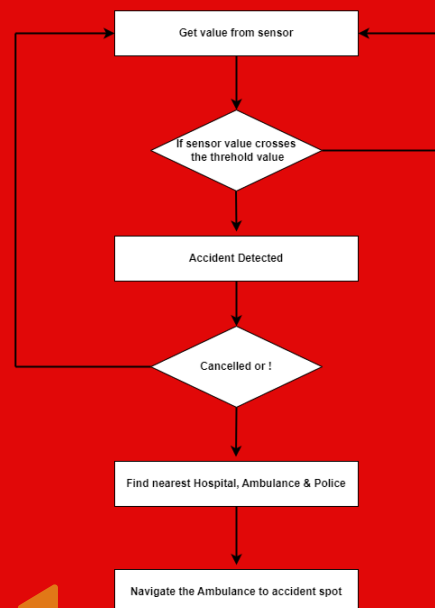
This system has great scope which can be implemented on a large scale by medical: team and police authorities together to address and handle accident cases more efficiently. Our system will provide the location and alert the nearby hospitals by detecting the impact of the accident through sensors. Our system provides an interactive and entertaining application for the Android/iOS marketplace.

OBJECTIVES

Project's main objective is to develop a software which can detect vehicle crashes as soon as it occurs depending on speed parameters and direction.

- RAD aims to reduce number of deaths of people.
- RAD helps people to get rid of serious road injuries.
- RAD strikes to improve the safety of the people

BLOCK DIAGRAM



HOW IT WORKS?

The system includes a sensor, sound meter, GPS and GSM module. The sensors will detect the accident & sound meters will trigger an alarm. The GPS will track location coordinates and the GSM will send an alert notification to the nearby hospital & police authorities. Thus, this system will send an instant alert to the nearby rescue team & hospital facility to notify them of the accident occurred

TOOLS & TECH

Android Studio

VS Code

Jupyter Notebook

React Native

MySQL

