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Emergency Application for Emergency Services in Critical Condition

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Abstract: ***Emergency calling is fundamental and critical for devices because they must work for Android users while satisfying various carrier and regulatory requirements all over the world. Emergencies can happen anywhere and at any time. The very nature of an emergency is unpredictable and can change in scope and impact. Being prepared and planning ahead is critical to protecting lives, the environment, and property. To overcome problems while facing emergency situations we need a simple and easy application. For this, we create an application that has automatic call and location-sharing services in an emergency situation. This will help us to share the location with our family and nearby hospitals or OPDs and also be useful to the automatic message sending & SOS. For this, we select some famous emergency applications and study them. But some applications are region-based applications And every application has different features. Due to this, it is difficult to use an emergency application in emergency situations. To overcome this problem we develop an application that is not region- based, consists of all features, and is easy to use in any condition.***

Keywords: Connecting to Emergency Services, ICE, First Aid, SOS

I. INTRODUCTION

Modern apps are more than just useful or fun enhancements for your mobile phone. In fact, some are nothing short of life-saving. Whether you or a loved one are experiencing a sudden medical emergency or find yourself in an unsafe situation, emergency applications have been specially developed to make sure that help will quickly be on its way. Emergency calling is fundamental and critical for devices because they must work for Android users while satisfying various carrier and regulatory requirements all over the world. The Android framework provides users with a fast and safe emergency calling experience.

Android Emergency Location Service (ELS) is a supplemental service that sends enhanced location directly from Android handsets to emergency services when an emergency call is placed.

In today's world, there are many emergency applications are developed by Google and other companies for immediate actions in critical conditions. But sometimes we are unable to use the application in that emergency situation. For this we will create a sensor-based application to call an emergency call, sending the location and SOS automatically in critical condition.

For this we need to study mobile inbuilt sensors, emergency call application features, google policies about the application and how will we manage to give our automatic emergency action feature to people.

For this we conduct a task in which we download some famous emergency applications :

American Red Cross Siren GPS Zello Walkie Talkie Features of these applications :

Sr.No.	American Red Cross	Siren GPS	Zello Walkie Talkie
1	Variety of alerts for critical situations.	Identifies you and your location to first responders in real-time.	useful during natural disasters like hurricanes or earthquakes.
2	built-in flashlight, strobe light, audible alarm, and a map of nearby Red Cross shelters.	To identity and location, you can list pertinent information you want to share with first responders	Call alert.
3.	Android Wear support.	can warn you of danger as you approach a threat, steering you away, toward safety.	The app supports chat rooms with up to 6,000 people simultaneously.

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4	Monitor the people and places you care about with real-time local alerts	helps keep you safe with a panic button right on your phone,	supports things like Bluetooth headsets.

II. SOLUTION

We found that every emergency application has different features and every application works differently and sometimes it's difficult to choose the best app for emergency services. So we decided to create an application that will be easy to use and will use everywhere by people in every emergency situation.

Features of our Emergency application:

1) Simple UI for easy handling.
2) Automatic Location Sharing in an Emergency situation.
3) Automatic Call function to call emergency services in an Emergency situation. Medical ID for ICE (In Case of Emergency) information.
4) First aid and emergency tips for all kinds of situations. Automatics SOS sending function.

III. MATERIAL & METHODS

A. *To Develop an Emergency Application*

1) Collect the information about the sensor which is useful for automatic actions.
2) To check some applications which are related to emergency applications.
3) Collect data about how to add location services, call services, and Medical ID in the application.
4) To Study how to create an application.
5) Create an application with selected features and check it on any device which supports android services.
6) To add information on first aid and emergency tips in languages that are preferred by people of every region.

B. *Material*

The material requires to create an emergency application is,

1) Brief study about Android development and required programming knowledge.
2) Android Device for testing the application.
3) Android studio or any other software for android application development.

IV. RESULT & DISCUSSION

This application helps us to overcome emergency situations. The application contains a medical ID, an Automatics call & location system, and first aid & emergency tips. The simple UI was helpful to understand how to use this application in emergency situations. It provides us with service in the best way. It will always be helpful in emergency situations.

V. CONCLUSIONS

Hence we can easily overcome the emergency situation by using this application.

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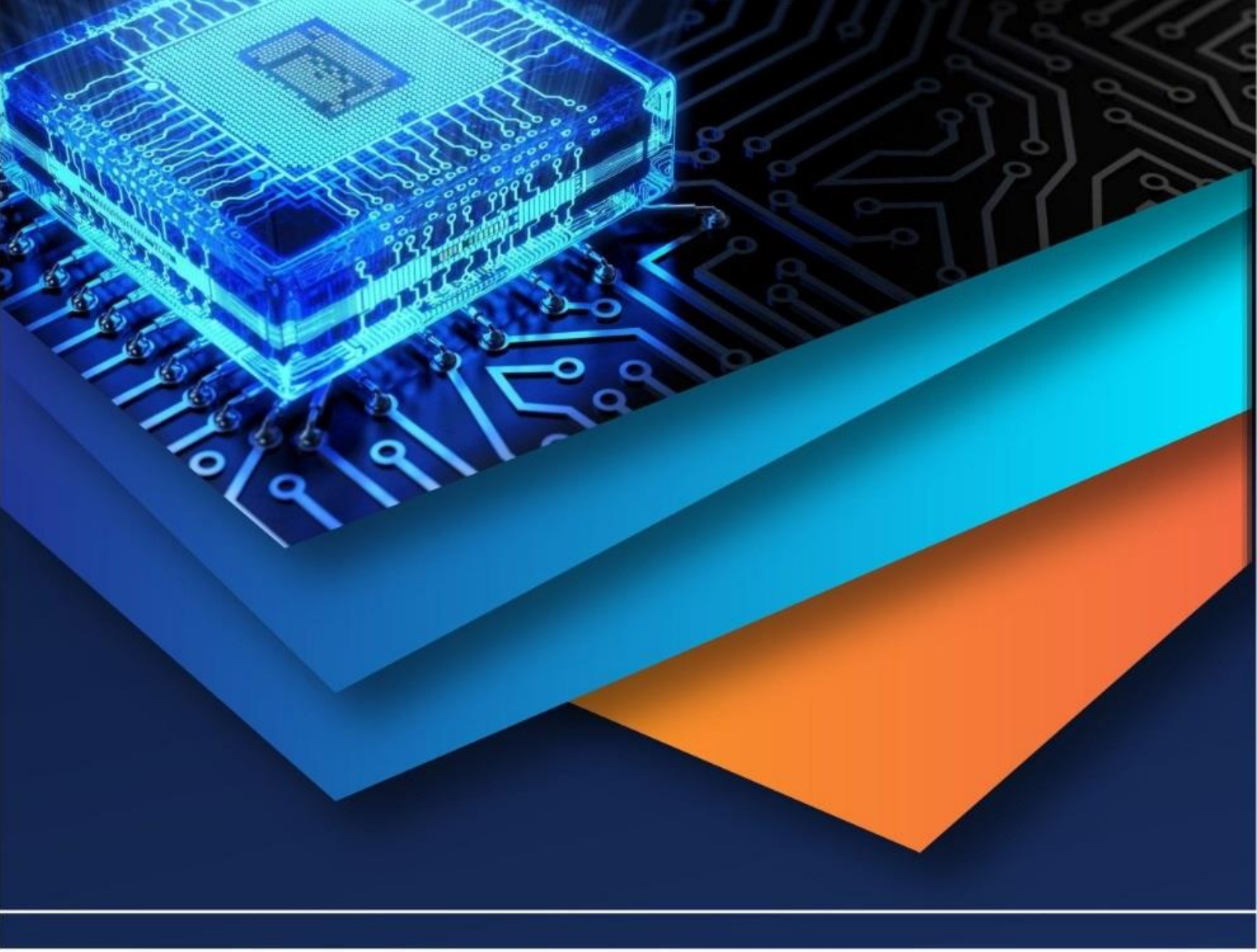

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