

Emergency And Essential Service

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Abstract - This paper presents the development of an Android application designed to provide immediate access to nearby emergency services and enable swift communication with family members during crises. Leveraging GPS technology, the application identifies the user's location and offers a list of nearby emergency facilities, including hospitals, police stations, and fire departments. A prominent panic button feature allows users to alert pre-selected family members and relatives instantly, providing their current location. The application's customizable contact list and real-time updates ensure efficient communication and accurate assistance. By streamlining emergency response and fostering community support, this application aims to enhance safety and security in critical situations, ultimately contributing to saving lives and promoting peace of mind among users and their loved ones.

Key Words: Android application, emergency services, essential service, panic button, safety and security, emergency application.

1.INTRODUCTION

In an ever-evolving digital landscape, the necessity for immediate access to emergency services and essential day-to-day assistance has become increasingly apparent. This introduction unveils an innovative Android application project poised to address these fundamental needs comprehensively. Leveraging GPS technology, the application swiftly identifies the user's location and seamlessly offers a curated list of nearby emergency facilities, encompassing hospitals, police stations, and fire departments. This proximity-based approach ensures rapid response and access to crucial services in times of distress.

Moreover, the application integrates a prominent panic button feature, empowering users to alert preselected family members and relatives instantly, while providing real-time updates of their current location. This not only facilitates swift communication during emergencies but also engenders a sense of security and support within the user's social network. The application's customizable contact list and real-time updates ensure efficient communication and accurate assistance Additionally, recognizing the importance of everyday assistance, the application includes a comprehensive directory of essential services such as

plumbers, mechanics, and other necessary contacts, readily accessible at users' fingertips.

By seamlessly merging proximity-based emergency assistance with a robust network of essential service providers, this application project aims to revolutionize emergency response and everyday assistance in the digital age. Through its customizable contact list and real-time updates, the application endeavors to ensure efficient communication and accurate assistance, ultimately enhancing safety, security, and peace of mind in critical situations.

2.Working

An Android application for emergency services and essential services operates by allowing users to register and authenticate themselves, create user profiles with personal information, and initiate emergency requests or service requests. When users require immediate assistance, they can get exact and updated details related to emergency service needed and the service details update as per location to get the nearest service to help you and the app utilizes the device's GPS or location services to pinpoint the user's exact location. In the case of emergencies, the app alerts and sends location data to contact number given by users. A panic button provided for user that can send device details and location in case of emergency to there family member. Users can send real-time updates and notifications to there family member and relative. Using our application user can also get day-to-day basic services like plumber, mechanic, electrician etc. Data security measures ensure the app is user-friendly and data remains secure, creating a seamless experience for those in need of emergency or essential services.

3.Emergency Application Development

This application harnesses several key features of users' mobile devices to deliver its functionality seamlessly. Leveraging the device's calling feature, users can initiate emergency calls directly from the application, ensuring swift access to assistance in critical situations. Additionally, the texting feature enables users to send instant messages containing pertinent emergency and location details, facilitating efficient communication with emergency responders or designated contacts. The integration of GPS technology further enhances the application's capabilities by accurately retrieving the user's exact location in emergencies, enabling prompt assistance and intervention.

Furthermore, the application leverages Firebase by Google as a robust Backend-as-a-Service (BaaS) platform to securely store users' login credentials, including names, numbers, emails, and passwords. This ensures the confidentiality and integrity of user data, fostering trust and confidence among users. Additionally, the application utilizes the Postman API platform to access and retrieve information about the nearest service providers based on the user's location. This dynamic feature enhances user convenience by presenting relevant service options tailored to their immediate needs and geographical proximity.

In terms of development, the application's user interface is meticulously crafted using XML language, ensuring a visually appealing and intuitive experience for users. The programming logic and functionalities of the application are implemented using Java, a versatile and widely-used programming language renowned for its reliability and performance. Android Studio serves as the Integrated Development Environment (IDE) for application development, providing a comprehensive



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toolkit for designing, coding, testing, and debugging the application effectively.



Fig -1: Interface Of Application

Emergency services Your Address: FR8M+JWW, Vadgaon Budruk, Pune, Maharashtra 411041, India, Here Nearer To You:-**Lions Club Hospital** Address: FVW3+XHR, Parvati Paytha, Pune **Opening Hours: Unknown** RATING: 4.0 Matoshri Ramabai Ambedkar Prasutigriha Address: GV32+522, B Block, Municipal Colony, Pune **Opening Hours: Unknown** RATING: 2.6 Srujan Maternity & Nursing Home Address: near Sahawas Society, Vibhawari Apartment, Karve Nagar, near Sahawas Society, Pune **Opening Hours: Closed** RATING: 4.2

Fig -2: List Of Nearest Hospital To Contact

4. Advantages :

Immediate Assistance: Users can swiftly access emergency services with just a few taps on their mobile devices, reducing response times and potentially saving lives in critical situations.

Enhanced Safety: The panic button feature allows users to alert pre-selected contacts about their emergency situation, providing reassurance and support during distressing events.

Convenient Access to Essential Services: The integration of essential service directories ensures users can easily find and contact service providers for everyday needs such as plumbing, mechanics, and electricians, enhancing convenience and efficiency.

Accurate Location Retrieval: Utilizing GPS technology, the application accurately pinpoints the user's location in emergencies, enabling responders to provide targeted assistance promptly.

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5. CONCLUSIONS

In this report, we discussed all aspects regarding Emergency Service Application, This will give all information about it, as Android Application development, working and advantages.

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