MOBILE AND WEB APPLICATION-BASED EMERGENCY CALL INTEGRATION

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ABSTRACT

This study aims to develop a web and mobile-based emergency application that facilitates submitting emergency assistance requests to law enforcement, fire departments, and hospitals via the Internet. The application is designed to facilitate the quick and efficient sending of emergency help requests by leveraging Next.js technology as the web development framework, Kotlin for mobile application development, and location-based services to track and send user positions. The system has been meticulously designed to address functional and non-functional requirements, ensuring data security, high performance, ease of use, availability, and scalability. This application is anticipated to enhance the response and operational efficiency of relevant agencies while fostering a sense of security within the community. The research comprehensively evaluates needs analysis, system design, implementation, and application performance assessment.

Keywords: Emergency Application, Web and Mobile,Ppolice, Fire Department, Hospital, Kotlin, Next.js, Location-Based Services.