AMBULANCE SERVICES APP DEVELOPMENT

A PROJECT REPORT

Submitted by,

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Under the guidance of,

Dr. SRINIVASAN T. R.

in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND TECHNOLOGY (DEVOPS)

At

GAIN MORE KNOWLEDGE
REACH GREATER HEIGHTS

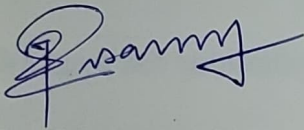**PRESIDENCY UNIVERSITY**

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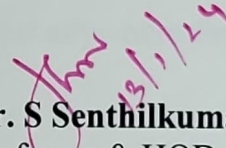**JANUARY 2024**

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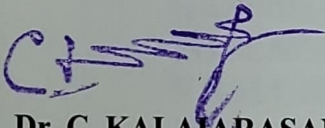## SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the project report **"AMBULANCE SERVICES APP DEVELOPMENT"** being submitted by "Balu Ashok Kumar Reddy, Kasumurthy Vamsi, Potlapati Babi Reddy, V Sai Charan" bearing roll number(s) "20201CDV0036, 20201CDV0034,20201CDV0028,20201CDV0015" in partial fulfilment of requirement for the award of degree of Bachelor of Technology in Computer Science and Technology(DevOps) is a bonafide work carried out under my supervision.
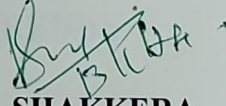
Dr. Srinivasan T. R.
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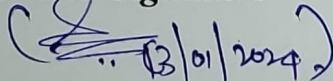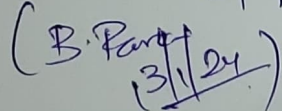Associate Dean
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2) B. PARKAVI (B. Par 13/1/24)

PRESIDENCY UNIVERSITY

SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

DECLARATION

We hereby declare that the work, which is being presented in the project report entitled **AMBULANCE SERVICES APP DEVELOPMENT** in partial fulfilment for the award of Degree of **Bachelor of Technology in Computer Science and Technology (DevOps)**, is a record of our investigations carried under the guidance of **DR. SRINIVASAN T. R., PROFESSOR**, School of Computer Science and **Engineering, Presidency University, Bengaluru.**

We have not submitted the matter presented in this report anywhere for the award of any other Degree.

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ABSTRACT

This android application provides a user-friendly interface for users to view ambulance services. By leveraging location-based services, the application can identify the nearest available ambulance services, providing users with real-time information. Booking an ambulance becomes seamless, with users able to track their booking details and the ambulance's current location in real time. The app's user-friendly design and straightforward features enhance its utility as a valuable tool for individuals requiring immediate medical assistance.

This research focuses on the design and development of a cutting-edge Ambulance Services App, aimed at revolutionizing emergency response systems. The proposed mobile application leverages advanced technologies such as real-time geolocation tracking, the seamless communication channels to improve the efficiency and effectiveness of ambulance services.

The app aims to address key challenges in current emergency response systems, including delayed dispatch, inefficient routing, and lack of accurate patient information. By integrating geospatial data, the app ensures swift ambulance deployment by identifying the shortest and fastest routes to the incident location. The AI-driven dispatch system optimizes resource allocation, considering factors like traffic conditions and proximity to healthcare facilities.

Furthermore, the Ambulance Services App prioritizes user-friendly interfaces for both emergency callers and healthcare professionals. The app also facilitates seamless communication between emergency personnel, hospitals, and dispatch centres through secure channels.

Through a comprehensive user testing process, the research evaluates the app's usability, responsiveness, and overall effectiveness. The results demonstrate the potential of the Ambulance Services App to significantly enhance emergency medical services, reducing response times and improving patient outcomes. This research contributes to the ongoing efforts to harness technology for the betterment of public health and emergency response systems.

ACKNOWLEDGEMENT