



COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY

# **ZAMBALES AMBULANCE EMERGENCY RESPONSE APPLICATION**

A Thesis  
Presented to the Faculty of the  
College of Communication and Information Technology  
President Ramon Magsaysay State University  
Iba, Zambales

In Partial Fulfillment of the Requirements for the Degree  
Bachelor of Science in Information Technology

by

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COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY

**CERTIFICATION**

This thesis entitled **Zambales Ambulance Emergency Response Application**, prepared and submitted by **Ian Carlo F. Dadural, Archieval V. Gajudo, Egeril C. Morales** and **Patrick S. Trinidad** in partial fulfillment of the requirements for the degree of **Bachelor of Science in Information Technology**, has been examined and recommended for Oral Examination.

  
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**APPROVAL SHEET**

Approved by the PANEL OF EXAMINERS on Oral Examination on May 3,  
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**Bachelor of Science in Information Technology**

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ECM  
PST  
ACFD  
AVG





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**CERTIFICATE OF ORIGINALITY**

This is to certify that the research work presented in this thesis entitled **"ZAMBALES AMBULANCE EMERGENCY RESPONSE APPLICATION"** for the award of **Bachelor of Science in Information Technology** from the President Ramon Magsaysay State University, Iba Zambales embodies the result of original and scholarly work carried out by the undersigned. This thesis does not contain words or ideas taken from published sources or written works by other persons which have been accepted as basis for the award of any degree from other higher education institutions, except where proper referencing and acknowledgement were made.

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### ABSTRACT

The Zambales Ambulance Emergency Response Application that can be efficiently use by people affected within responsible area. This Android based mobile application project will totally change the native way of calling an ambulance and it will be more efficient and reliable for the Emergency Medical Services (EMS). This app will help the user to get any available ambulance without calling the hospitals to check for the ambulance availability. The app reacts with just one tab on the button and it will send the notification of user's details and location via GPRS to nearby ambulance control centre.

The researchers used the Input-Process-Output Model to conceptualize the flow of proceedings of the study. The input consist of the development of the game based on the software quality and level of acceptability with the given criteria. While in the process define the development of the application with the help of Rapid Application Development methodology, FireBase software and JAVA Programming to construct the application. Also evaluation of the application was given to provide assessment on the study. The output was a developed and evaluated Zambales Ambulance Emergency Response Application.

The evaluation of the respondents on the Zambales Ambulance Emergency Response Locator was Very Good in terms of the software quality of the application. The evaluation of respondents on The Zambales Ambulance



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Emergency Response Locator was Acceptable and in the level of acceptability of the application.

There is no significant difference between the evaluation of the Staff and Residents in the software quality in terms of functional suitability, performance efficiency, compatibility, usability, reliability, security, maintainability and portability. There is no significant difference between the evaluation of the Staff and Residents in the level of acceptability in terms of functionality while in performance there is a significant difference.