COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY

ESTABLISHMENTS' REAL TIME MAPPING AND LOCATOR OF IBA, ZAMBALES

A Thesis presented

to the faculty of the College of Communication and Information Technology

Ramon Magsaysay Technological 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 "**ESTABLISHMENTS REAL TIME MAPPING AND LOCATOR OF IBA, ZAMBALES**", prepared and submitted by **Ruby May P. Aledo, Cherrie Mae B. Galvan** and **Justine Contaoi** 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

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ABSTRACT

The Establishments Real Time Mapping and Locator of Iba, Zambales is a web – based and android – based system that provides efficient and accurate information about the establishment's availability of parking slots and its time schedule. The system/application would require a stable internet connection.

The study aimed to determine the perception of the respondents on the software quality of the proposed Establishments Real Time Mapping and Locator of Iba, Zambales in terms of functionality, reliability, usability, efficiency, maintainability and portability. It also aimed to determine the respondent's perception on the level of acceptability in terms of content, accuracy, ease of use, and timeliness. Lastly, it also aimed to determine the respondents' perception on the degree by which they will recommend the acquisition and implementation of the proposed system.

The researchers made use of descriptive method of research in this study with questionnaire checklist as the main tool in gathering data.

The respondents were 75 non – resident from outside Iba, Zambales and 25 residents from Iba, Zambales. Random sampling technique was used in choosing the respondents of this study.

The study shows that most of the respondents were Non – Residents. The respondents' perception on the software quality of the proposed system in terms

\ of functionality perceived as Excellent with a weighted mean of 4.68; reliability perceived as Excellent with a weighted mean of 4.60; usability perceived as Excellent with a weighted mean of 4.58; efficiency perceived as Excellent with a weighted mean of 4.58; maintainability perceived as Excellent with a weighted mean of 4.63; portability perceived as Excellent with a weighted mean of 4.58. Generally, respondents perceived the system as Excellent with a grand mean of 4.61. The respondents' perception on the level of acceptability of the proposed system in terms of content perceived as Highly Accepted with a weighted mean of 4.59; accuracy perceived as Highly Accepted with a weighted mean of 4.62; ease of use perceived as Highly Accepted with a weighted mean of 4.64; timeliness perceived as Highly Accepted with a weighted mean of 4.73. Generally, respondents perceived the system as Highly Accepted with a grand mean of 4.65. The respondents' perception on the degree by which they will recommend the acquisition and implementation of the proposed system as Highly Recommended with a frequency of 65 or 65%.

In the view of the findings and conclusions, the researchers offers the following recommendations: There should be an implementation of the proposed Establishments Real Time Mapping and Locator of Iba, Zambales. The maintenance and continuous development of the system be done to help it adapt to the constantly changing trends of information technology.

The researchers recommends fast internet connection for better usage of the system/application. The researchers strongly recommends an automatic

detection of parking spaces for fast viewing of parking spaces. Strongly recommends that the system must develop a guide to the location that the user wants to go. The system must sort the establishments by category (e.g. Food Chain, Mall, beach resort etc.) and the system must display the establishments quickly upon search.