DATA STRUCTURE: BINARY TREE SIMULATOR APPLICATION OF PRESIDENT RAMON MAGSAYSAY STATE UNIVERSITY MASINLOC CAMPUS

A Thesis
Presented to
The Faculty of the College of
Communication in Information Technology
President Ramon Magsaysay State University
Masinloc, Zambales

In Partial Fulfilment
Of the Requirements of the Degree
Bachelor of Science in Information Technology

By:
Arvin James E. Bautista
Christopher E. Quilon
Charlie M. Baylon,
Vince Andrei E. Elemento
John Andrew T. Rico
Vincent P. Enilo

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APPROVAL SHEET
Republic of the Philippines
College of Communication and Information Technology
President Ramon Magsaysay State University
Masinloc, Zambales

COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY

A research study presented to the faculty of the College of Communication and Information Technology in partial fulfilment of the requirement for the Degree Bachelor of Science in Information Technology:

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Has been prepared and submitted by Arvin James E. Bautista, Christopher E. Quilon, Charlie M. Baylon, Vince Andrei E. Elemento, John Andrew T. Rico, Vincent P. Enilo. Who are hereby recommended for oral examination on April 2019.
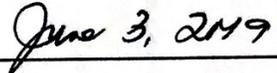
NERISSA L. JAVIER, MSCS
Adviser

Approved by the Committee of Oral Examiners:

MENCHIE A. DELA CRUZ, Ph. D.
Chairman

GEOFFREY S. SEPILLO, Ed. D.   **JOHN LENON E. AGATEP, Ed. D.**
Member   Member

Accepted as requirement for the Degree of Degree Bachelor of Science in Information Technology

MYRA LIZA O. VIZCARRA, Ed. D.
Campus Director

June 3, 2119

Date Signed

Abstract

The main problem of this study was the development of Binary Tree Simulator and to determine level of system quality and the level of acceptability among teachers and students. The respondents of this study were the students of President Ramon Magsaysay State University – Masinloc Campus. The researchers utilized convenience sampling. The survey questionnaire was utilized in this study to gather the necessary information and data. The first part of the questionnaire was used by the respondents to evaluate the application in terms of system quality using ISO 25010:2011. The second questionnaire was used to by the respondents to evaluate the application in terms of acceptability.

Based on the summary of the investigations conducted, the researchers have concluded that the instructor's evaluation on the level of system quality of the Data Structure: Binary Tree Simulator Application is interpreted as Excellent, the student's evaluation on the level of system quality of the Data Structure: Binary Tree Simulator Application is interpreted as Very Good, the instructor's perception on the level of acceptability of the Data Structure: Binary Tree Simulator Application is interpreted as Very Acceptable, the student's perception on the level of acceptability of the Data Structure: Binary Tree Simulator Application is interpreted as Acceptable and there is no significant difference on the respondents' evaluation on the system quality of the Data Structure: Binary Tree Simulator Application.

Based on the summary of the investigations and conclusions arrived at, the researchers have offered the following recommendations, maintain the system by

updating the content of the topic, enhance the security feature of the application by providing log-in mechanism to ensure that only the authorized person can access the system and expand for more topics that related to the study.