

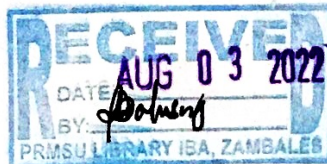


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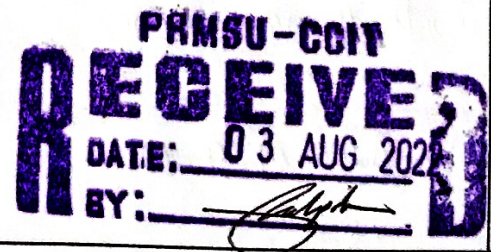
**DESIGN AND IMPLEMENTATION OF A GAME:
C'19 SURVIVAL RUN**

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Navarro, Sarah Jane M.**

**A Capstone Project
In partial Fulfillment of the Requirements
for the degree of Bachelor of Science in Information Technology
College of Communication and Information Technology
President Ramon Magsaysay State University
Iba, Zambales**



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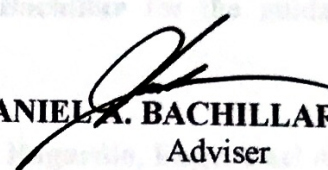


Republic of the Philippines
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APPROVAL SHEET

This study entitled "**Design and Implementation of a Game: C-19 Survival Run**" was prepared and submitted by **ROSE ANN B. HEBRON, LOREN D. MANALO, JOHN STEVE O. MANTES, AND SARAH JANE M. NAVARRO** in partial fulfillment of the requirements for the degree of **BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY** are hereby recommended for oral examination.


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Approved by the Panel of the Oral Examiners on February 3, 2022, with a grade of ____.


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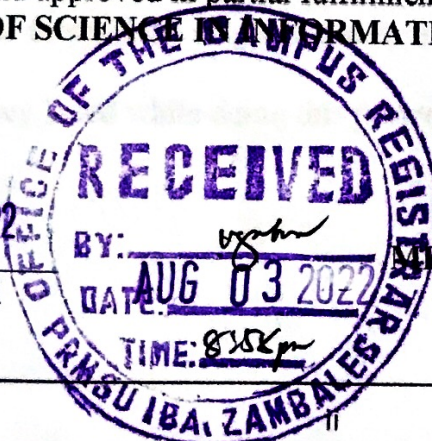

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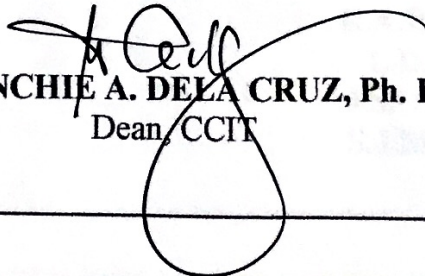

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02 AUG 2022

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EXECUTIVE SUMMARY

Coronavirus disease (Covid-19) has been declared as a pandemic by World Health Organization (WHO) since March 2020, as this disease brings a massive impact to the world, mostly here in the Philippines. The main objective of the study is to design and develop an effective and efficient game "C'19 Survival Run" that will give awareness and information about the Coronavirus disease (Covid-19) to the end-user. In this study, the researchers used the IPO model for the Conceptual Framework and Agile Methodology for the software development. Gathering data is the initial step before developing this game, the researchers interviewed a nurse to finalize the user requirements or the needs of the user which is the gameplay of the game. Construct 2 is the game engine used to develop the game and Apache Cordova is used in building its Android APK.

Based on the summary of the investigation, using ISO/IEC 25010:2011 for the software quality evaluation and test of the game "C'19 Survival Run" with 100 respondents using the weighted mean as a statistical tool. Wherein, the computed overall weighted mean on the evaluation on software quality of the game C'19 Survival Run as evaluated by respondents using the ISO/IEC 25010:2011 metrics as to Functional Suitability was 4.84 interpreted as "Excellent", as to Performance Efficiency was 4.77 interpreted as "Excellent", as to Usability was 4.81 interpreted as "Excellent", as to Maintainability was 4.95 interpreted as "Excellent", and as to Portability was 4.90 interpreted as "Excellent", as well as the APK of the game can successfully be installed in android devices.



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Based on the summary of the investigations, the researchers have offered the following recommendations: Further enhance the features and functionality of the game according to its specification; Enhance the resources used in the game C'19 Survival Run to meet the requirements when performing its functions; Maintain and update the game C'19 Survival Run, add levels and features about the update on Covid-19; Further enhance the portability of the game C'19 Survival Run to be able to install on IOS phones.

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