COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY

ONLINE READING APPLICATION WITH VOICE ASSISTANT

FOR GRADE 3 STUDENTS

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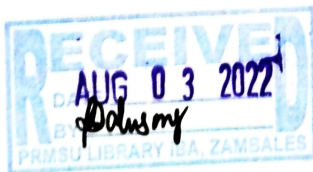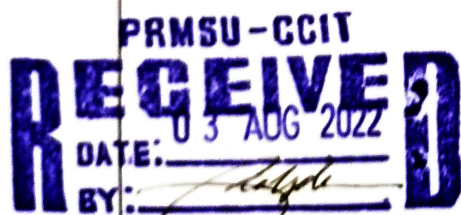**Molino, Jenie M.**

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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President Ramon Magsaysay State University

Iba, Zambales

College of Communication and Information Technology

APPROVAL SHEET

This, study entitled **"Online Reading Application with Voice Assistant for Grade 3 Students"** prepared and submitted by Mary Rose G. Crystal, Rosario Marie A. Decano, May Ann A. Ejanda, Jinky D. Jacosalem, and Jenie M. Molino in partial fulfillment of the requirements for the degree of **BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY** are hereby recommended for oral examination.

ISRAEL M. CABASUG, MSCS
Adviser

Approved by the Panel of the Oral Examiners on February 03, 2022 with a grade of _____.

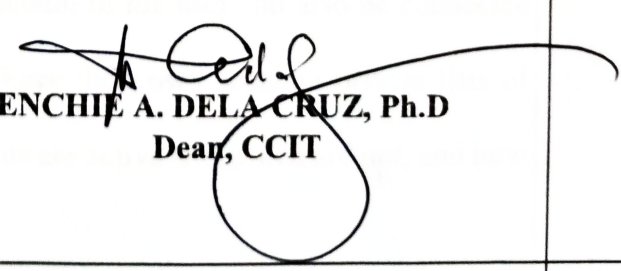**GEOFFREY S. SEPILLO, Ed.D**
Chairman

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WALTER G. LARA, MSCS
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Accepted and approved in partial fulfillment of the requirements for the degree of **BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY.**

0 3 AUG 2022

Date Signed

MENCHIE A. DELA CRUZ, Ph.D
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COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY

EXECUTIVE SUMMARY

The Online Reading Application with Voice Assistant is a mobile-based application designed for Grade 3 Students where they can read, practice their pronunciation, improve their reading skills, and learn new words. This application is called "Read and Learn". It has a voice assistant that serves a guide on how to pronounce the words correctly. The method that we used to finished this project is the Flutter Visual Studio Code because it is a free and open-source UI framework from Google for building native mobile applications. Flutter's official programming language is Dart. The result of the overall evaluation of the parents - respondent software quality of using ISO/IEC 25010:2011 in terms of functional suitability, performance efficiency, usability, reliability, security, maintainability, and portability is "Very Good" and in terms of Compatibility is "Good". On the other hand, the overall evaluation of the teachers – respondents in terms of functional suitability, reliability, security, portability, and compatibility are "Excellent" and in terms of performance efficiency and usability is "Very Good". The researchers wanted to recommend that the application could also be applicable to iOS devices, PCs or laptops and should add more features such as quizzes in each story and messaging; and students should have the opportunity to hear their voice recordings after reading a story. Also, since the application has the ability to continue to Gmail account to be able to login immediately, the researchers recommend that the Facebook account of the user can also be connected for easy access to the entire app. The teachers have their own separate private lists of students for then to easily determine which students are active and which are not, and how many of them are in the class.