Busitema University
Faculty of Engineering
Department of Computer Engineering
Pursuing Excellence

FINAL YEAR PROJECT REPORT

TITLE: REAL-TIME NOTIFICATION SYSTEM FOR CLASS ACTIVITES IN BUSITEMA UNIVERSITY

BY

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ABSTRACT

In recent years, resourceful technology and innovation advancement has occurred in the area of web applications development, especially with advance integration of smart embedded systems (SES) which has contributed immensely to the collaborations between web applications and embedded system developers. Several challenges have been experienced in adopting computerized system for activities such as scheduling of work, time-tabling, lecture notes preparation and distribution, power point slide, results preparations and notifications of events in most institutions of higher learning, colleges, industries, banks and others. In this report, the author developed a real time notification system for class activities in Busitema University, Uganda. The proposed system utilizes the bulk Web-SMS service to send real time messages to students. The web application was developed using MySQL database with python as the web scripting server side language.

DECLARATION

I, **MUWEREZA GRACE,** Reg. No **BU/UG/2017/55** declare that this project proposal is original, completely based on my research and has never been published/submitted to any other university or institution of higher learning for any academic award.

Signature: **……**

Date: **……**

DEDICATION

I dedicate this report to my beloved parents Mr. Isabirye Samuel and Mrs. Isabirye Rose, my supervisor Mr. Arinaitwe Joshua and all my beloved lecturers for Computer Engineering Department by whom I have had a successful academic journey since 2017. You are part of my success story. May the Almighty God reward you abundantly.

Above all, I Dedicate to my personal Lord and Savior Jesus Christ.

ACKNOWLEDGEMENT

I thank the almighty God for the wisdom, understanding and knowledge that has helped me through my research.

I render my heart-felt thanks to my beloved supervisor, Mr. Arinaitwe Joshua for the guidance given to me to bring out the best out of my research.

I give some extra credit to the Department of Computer Engineering at large for the guidance and insight into concepts of research and project management as well as technical knowledge applicable in the design of the system.

I appreciate my classmates for their support and encouragement throughout this journey of accomplishing my degree.

Finally, I thank my beloved parents for having been there for me, especially in terms of the financial provision that has propelled me to accomplish it with ease.

APPROVAL

This is to certify that the project titled "**Real-Time Notification System for Class Activities in Busitema University**" has been under my supervision and is now ready for examination.

Sign**: ……. …..**

Date: **…….……**

Mr. Arinaitwe Joshua

Department of Computer Engineering

LIST OF ACRYNOMS

SMS: Short Message Service

LMS: Learning Management System

GSM: Global System for Mobile

CDMA: Code Division Multiple Access

AMPS: Advanced Mobile Phone Service

HTC: High-throughput computing

LAMP: Linux, Apache, MySQL, and PHP

USSD: Unstructured Supplementary Service Data

MMS: Multimedia Messaging Service

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