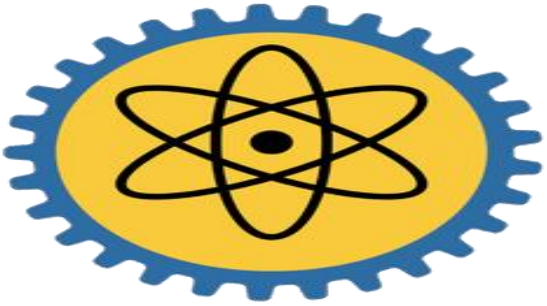

FACULTY OF ENGINEERING

DEPARTMENT OF COMPUTER ENGINEERING

A FINAL YEAR PROJECT REPORT

WIRELESS HYBRID WITH MOBILE BASED MONITORING AND ALERT SYSTEM

BY

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A final year project report submitted to the Faculty of Engineering department of computer engineering in partial fulfilment of the requirements for the award of a Bachelor's degree in Computer Engineering from Busitema University.

January 2022

DECLARATION

I, **BABISE KEVIN MICHEAL Reg. No BU/UG/017/14** hereby declare that this project proposal is my original work except where explicit citation has been made and it has not been presented to any institution of higher learning for any academic award.

Signed ……..... Date……/……...../.....

APPROVAL

I certify that the project proposal entitled "**WIRELESS HYBRID MOBILE BASED MONITORING AND ALERT SYSTEM**" has been drafted under my supervision and is submitted to the board of examiners with my approval.

Signature ……

MR. LUSIBA BADRU

Date……/……. …../…….

Department of Computer Engineering

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First and foremost, I would like to thank the Almighty God for the gift of life and for getting me through my studies and making this project idea a reality.

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ABSTRACT

Cardiovascular patients admitted in hospital are more likely to die from avoidable conditions and situations, whether due to complications from a heart attack or other serious health issues. This is because optimal treatment and patient monitoring is not ensured for all patients in government hospitals on a 24-hour 7-days basis except for those in Intensive Care Unit (ICU). This is as a result of reduction in staff for night and weekend shift reducing the capacity of the available staff and also the fact that during those times, physical and cognitive abilities of medical and paramedical staff may be, in addition, impaired due to sleep deprivation especially during night-time. This has resulted in avoidable deaths occurring mostly at night and during weekends. Therefore, a new system is required that will allow one medical work to effectively monitor multiple cardiovascular patients at once and also alert the medical worker whenever there is an issue via a mobile phone. This system should be able to be used on patients in private and public wards.

LIST OF ACRONYMS

CVDs	Cardiovascular diseases
LCD	Liquid Crystal Display
ECG	Electrocardiogram
CSS	Cascading Style Sheet
PHP	Hypertext Pre-processor
WHO	World Health Organisation
ICU	Intensive Care Unit
HTML	Hypertext Mark-up Language
SQL	Structured Query Language
DFD	Data Flow Diagram
Wi-Fi	Wireless Fidelity

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