BUSITEMA UNIVERSITY FACULTY OF ENGINEERING

DEPARTMENT OF COMPUTER ENGINEERING

ANDROID PUBLIC PARTICIPATION IN PARLIAMENTARY DEMOCRACY

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DECLARATION.

I, Nantamu John, hereby declare that this project is completely based on my research work except for citations
and quotations which have been specifically acknowledged. It has not been submitted to any other examining
body or academic institution for any academic award.
Signature:
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APPROVAL

This is to certify that the project proposal under title" **Android Application for Legislative Democracy**" has been done under my supervisor and is now ready for examination.

Signature
Date:
MR PINYI OTHIENO ERIA
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LIST OF ACRONYMS

App: Application.

CEEDU: Citizens Coalition on Electrical Democracy.

E-democracy: Electronic Democracy.

E-parliament Electronic parliament.

ID: Identification.

MP: Member of Parliament.

NIN: National Identification Number.

UGMP: Uganda Governance Monitoring System.

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ABSTRACT

In the prevalent days, the parliament collects public hearing and voting on certain debate that require public voting by democracy through manual ways. This is done by sending back the members of parliament to their respective constituencies to go down in the public and make meetings and rallies to gather the people, the MPs have to note down the views and the number of those who oppose together with the number of those who support, these means leave many people un attended to and others don't participate due to chaos while others are busy at work.

The android public participation in parliamentary democracy has adopted simple and quick means of gathering public votes concerned on the motions and debates in the parliament that need public votes. The public has to just install the application on their android phones, register which creates an account for them in the system. The parliament system administrator posts the motions in the application and the system user has to login and vote on any motion according to their minds and at their convenient time without going to gather on rallies and meetings.

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CHAPTER ONE INTRODUCTION

1.1 BACKGROUND.

According to the recent saga in Uganda about the age limit bill where the parliament of Uganda required the views of the public, survey conducted by civil society organizations has indicated that 85 per cent of Ugandans do not support the proposed constitutional amendment to lift caps on the presidential age. The study, titled: 'Citizen's Perceptions on the Proposed Amendment of Article 102(b) of the Constitution' was commissioned by Citizens Coalition on Electoral Democracy (CEEDU) and Uganda Governance Monitoring Plat [1] form (UGMP). It sampled 50,429 citizens in 80 constituencies across the country. It covered 22,926 females and 27,503 male respondents. During public consultations, where the members of the legislature are required to seek public opinions, MPs complain of not being given enough support and security for consultations whereas others say they are not given enough time to prepare for the consultations. When members of the legislature try to reach their people to hear their opinions about the amendments in some articles of the constitution, there is a lot of barriers to listen to everyone's view because of the large number of people and it is said that a lot people make chaos due to biasness of the debate. Some MPs sample on a small group of people and other don't go to the field completely [2]. Some members of parliament were really scared and decided to give the feedback basing on the demands of their political party and their consciences [3]. The consultations are not about convincing people. Some MPs paid money to people [4]. This project therefore is aimed at using an Android based application designed to minimize on the effects caused by parliamentary public consultations, to obtain clarity on when public hearings should be held, to develop a clear feedback mechanism and minimize on the cost incurred and to save time during parliamentary public consultations and to allow increased participation of citizens and during public consultations. The system will record and analyze and post back the statistics of the participants from the constituency level, district level and regional level both in figures and graphs.

Every Ugandan citizen with a national ID and has access to an android device such as a smartphone, tablet and tablet computer is able to create his or her citizen voting account by the help of his NIN printed on the national ID and create a password for him or herself. through

REFERENCES

- [1] "constitutional amendment," the observer, 2017.
- [2] o. eyotaru, "constitutional amendments," the observer, 2017.
- [3] Olive Eyotaru, "age limit bill," *the observer*, no. constitutional amendment, october, 25,2017.
- [4] O. Eyotaru, "public consultations," *The Observer*, no. some members of the parliament were really scared and decided to give the feedback basin on their political consciences, 2017.
- [5] NIN, National Identification Management Commission, 2016.
- [6] "world e-prliament conference 2018," *ipu.org*, no. innovation, 2018.
- [7] D. Villier, "Democracy," 2001, p. 23.
- [8] Bekker, "democracy," 1996, p. 90.
- [9] "democracy," in *UN resolution*, cambridge.
- [10] "e-parliament," Dictionary.cambridge.org., cambridge.
- [11] IPU, "e-parliament," Stellenbosch University https://scholar.sun.ac.za 12.
- [12] techopedia, "mobile application," 2018.
- [13] techopedia, "android app," google, 2017.
- [14] C. B.-S. 3.0, database design, wikipedia.
- [15] wiwkipedia.
- [16] cambridge: Dictionary.cambridge.org.]..
- [17] mockup designs, Behance, 2015.
- [18] the oberver, 2017.