Mobile Application Voting System: A Means to Achieve a Seamless Election Process in Developing Countries

- Conference paper
- First Online: 20 April 2022
- pp 505–518
- Cite this conference paper

Emerging Technologies for Computing, Communication and Smart Cities

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Part of the book series: Lecture Notes in Electrical Engineering ((LNEE,volume 875))

Abstract

Voting is a concept used to describe the part of the election process. It is a means by which the citizens choose who to lead them for a designated period. There is various type of manual and electronic voting processes currently in use. Manual voting processes have become a tool by which government bodies in Nigeria and other African countries at considerable take advantage of to push unworthy people into power. The Nigeria voting system is a typical example of this misfortune, where voters are subjected to long queues before they can perform their legal duty as a citizen. This existing system is faced with numerous challenges such as hooliganism where glorified thugs snatch ballot boxes and disrupt the peace and tranquillity of the voting process. Therefore, a loyal citizen who is bound to vote is unable to perform their legal duty, leading to the manipulation of results and other voting crises. This research proposed a mobile voting platform to deal with the challenges as mentioned earlier associated with a manual voting system that is ineffective and inconvenient for citizens. The proposed system will improve how the election is being conducted in Nigeria and other countries that are faced with similar challenges in the voting process. The scheme aims to allow eligible voters with registered voters card (PVC) in Nigeria and diaspora to cast their votes in their respective places of residence as long as the mobile application is accessible on their mobile devices which will be available on various versions such as Android, iOS, Windows operating system. Each voter's details will be secure through the use of various cryptographic techniques and verified with the use of one-time password during the voting process. This process will make the election process flawless, efficient, convenient, secured and timely in the area of result compilation and final verdict. Also, the system will eliminate violence and result in manipulation.

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Adeniyi, A.E., Ogundokun, R.O., Misra, S., Oluranti, J., Ahuja, R. (2022). Mobile Application Voting System: A Means to Achieve a Seamless Election Process in Developing Countries. In: Singh, P.K., Kolekar, M.H., Tanwar, S., Wierzchoń, S.T., Bhatnagar, R.K. (eds) Emerging Technologies for Computing, Communication and Smart Cities. Lecture Notes in Electrical Engineering, vol 875. Springer, Singapore. https://doi.org/10.1007/978-981-19-0284-0_37

Download citation

- .RIS
- .ENW
- .BIB

- DOIhttps://doi.org/10.1007/978-981-19-0284-0_37
- Published20 April 2022
- Publisher NameSpringer, Singapore
- Print ISBN978-981-19-0283-3
- Online ISBN978-981-19-0284-0
- eBook PackagesEngineeringEngineering (R0)

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