

ONLINE VOTING PLATFORM USING MOBILE PHONE GPRS

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ABSTRACT

Internet voting can use remote locations (voting from any Internet capable computer) or can use traditional polling locations with voting booths consisting of Internet connected voting systems. [1][2][3][4]

In 2002, in the United States, America Vote Act mandated that one handicapped accessible voting system be provided at polling place, which have chosen to satisfy with the use of DRE voting machines, some switching entirely over to DRE.

Online voting has been an issue for some peoples. They believe that online voting cannot be trusted due to uncertainty in the integrity of the machines. On the other hand, people acknowledge that paper solutions are significantly outdated. People's believed that offline voting i.e. paper voting is not safe for election. U.S. voting systems have historically responded to technological innovations. Experts generally agree that American elections will eventually employ online voting to some degree.

INTRODUCTION

Looking far into the future, online voting might even change the face of governance itself. It could make true direct democracy for people through online voting. In this period of COVID-19 virus online voting can be very easy and helpful for voters in the future. It will reduced gathering of people's at the voting place in such condition of COVID-19. People can vote from there residence

Through mobile phone GPRS .Online based voting theoretically offers cost effective, inclusive, and efficient solutions to persistent voter access problems.

ONLINE VOTING SYSTEM IS VERY MUCH HELPFUL IN FUTURE WORK

Online voting system with bio-metric authentication is a voting system which helps and make use of the uniqueness of the details of the human fingerprint to further enhance the level of trust and confidentiality of the voters.

It is expected to solve the two critical issues facing staff elections conducted within the University of Ibadan community which serves as the project case study.

Online voting system has the ability to achieve a high success rate in the use for conducting elections as it will able to stamp multiple registrations by voters through the combined use of both the unique voter identification number and their unique fingerprints.

BENEFITS

Online voting technology intends to speed the counting of ballots, reduce the cost of paying staff to count votes manually and can provide improved accessibility for disabled voters. Also in the long term, expenses are expected to decrease. [6] Results can be reported and published faster. [7] Voters save time and cost by being able to vote independently from their location. This may increase overall voter turnout. The citizen groups benefiting most from electronic elections are the ones living abroad, citizens living in rural areas far away from polling stations and the disabled with mobility impairments. [8][6]

OBJECTIVES OF THE STUDY

The main purpose of online voting system includes:

Provision of improved voting services to the voters through fast, timely and convenient voting. Reduction of the costs incurred by the Kenyan Electoral commission during voting time in paying the very many clerks employed for the sake of the success of the manual system. Check to ensure the members who are registered are the only ones to vote. Cases of “Dead People” voting are also minimized. Online voting system will require being very precise or cost cutting to produce an effective election management system. Therefore, crucial points that this emphasis on are listed below:

- Require less number of staff during the election.
- This system is a lot easier to independently moderate the Elections and subsequently reinforces its transparency and fairness.
- Less capital, less effort, and less labor intensive, as the primary cost and effort will focus primarily on creating, managing, and running a secure online portal.
- Increased number of voters as individual will find it easier and more convenient to vote, especially those abroad.

LITERATURE SURVEY

3.1. Endurance: 7 benefits of online voting system

Increasing the level of participation

The online voting system maximize the user participation, by allowing them to vote from anywhere and allowing access from different mobile systems and from any device that has an internet connection. Organizations and governments have explored voting mechanisms that do not require a physical presence, such as, voting by mobile using gores.

3.2 Security

International researchers have conducted extensive studies into online voting security, drawing on online elections held in countries including Estonia and Australia. One key finding pointed to the network connections linking voters’ devices to the servers used to register and store votes. The objective of online voting is reliability and accuracy in recording electors’ votes to make the voting process fair. Neumann (1993) suggests that online voting systems should follow some vital requirements in order to achieve the integrity of the election process.

3.3 Accessibility

Voting on the Internet provides a safe and private channel that allows all users to participate on equal terms. Increased accessibility for residents from abroad and for the persons who have difficulties in travelling. Online voting have the accessibility of voting from different places and it's easy and convenient for voters.

3.4 Auditability

In Civility’s (citizen’s participation platform) voting technology whole voting process has ability of online voting. This is the secure, cloud based voting technology for users to select the best one and put them to citizen’s vote. The design of the system allows administrators to guarantee users that their votes are correctly issued and accounted for according to the intention to vote. In addition, a voting receipts issued for each user.

3.5 Efficiency

The reduction in organizational and implementation costs significantly increases the efficiency of election management compared to traditional paper voting. Online voting saves time, money and energy.

3.6 Precision

The online voting correct errors in manual count, which brings an accurate, quick and easy publication of results, with the receipt for every voter's after their vote is cast.

3.7 Reliability

The use of online voting system has gained attention in the developed countries. It has reduced the problem of double voting, double counting and manipulation of results. Online voting's provide voters with a comfortable and secure voting experience and allow election organizers to save resources in planning their next election.

RESEARCH TECHNOLOGIES USED

5.1. Online Voting System using Cloud

CLIENT MODULE UI comprises of a login name and special secret word utilizing which he/she can login into the web based casting a ballot framework. This will be provided by the manager to the client. When the client has signed in, he has the benefit to see the names of the hopefuls recorded by the executive, see the outcomes after the end date of the race. The client module comprises just a single sub module:

USER REGISTRATION This encourages of voter see the register structure are enter the subtleties lastly present the subtleties inside check the subtleties in manager so your specific subtleties are genuine acknowledge the enrollment. Generally cross check the subtleties, this subtleties are false quickly dismiss your enrollment.

LOGIN Every voter is furnished with one of a kind username and secret key physically by the chairman. The voter utilizes the username and secret key for login and exercise the crucial right of casting a ballot. In the event that mistaken username and secret word entered, the entrance to be denied to the client. And furthermore voter is permitted to cast a ballot just once. This is the security include given against outer access of the framework. After login the voter enters the voter landing page, which gives the connections.

VOTE This gives the voter a rundown of hopeful with in his/her body electorate alongside determination choice (radio catch) to choose the favored competitor from the rundown. In the event that the casting a ballot date is before end date, the vote goes legitimate else goes invalid

RESULTS This gives graphical and easy to understand portrayal of the votes acquired by every applicant. It incorporates the level of the votes got by every applicant. Yet, the outcome can be seen simply after the end date of the race.

OVERSEER MODULE Manager Interface comprises of a login name and interesting secret key utilizing which administrator can login into the web based casting a ballot framework. Manager has the fundamental control of the framework. By signing into the page it can play out the accompanying undertakings.

ADDING CONSTITUENCY Here the race to be directed is chosen. To include a decision the voting demographic ought to be chosen and end date of race ought to be indicated

VOTER LIST Here we can see the voters list. Every voting demographic will have separate voters list.

CANDIDATE LIST The rundown of competitors partaking in the race can be seen. It incorporates the competitors name, party name and gathering image.

MODULES OVERVIEW

Registration

This is the register page, where the voter, candidate and election commission officer can register themselves. They all have to enter basic information best of their known. All the information registered in the website are saved in the respective database. The Election Commission officer has authority to accept eligible user and suitable candidate, otherwise he/she has right to reject their registration.

User Login

After registering into the website, this information is saved to the database and sent to the election commission. The user can Login to the website with his unique

USERNAME and PASSWORD generated through registration. There is an option for FORGOT PASSWORD, in case user forget his password then he/she can go with option of forgot password.

Candidate Login: After registration candidate can see his/her profile and can edit his/her profile. The candidate has facilitated with all the latest news update regarding election.

Election commission officer login:

After login election commission officer will verify whether user and candidate is authentic or not.

SOURCES OF DATA

Online Voting System is developed using PHP, CSS, and JavaScript. The project is an interesting, useful project. This project contains the admin side and user side where a user can vote for their favorite candidate. While the admin can add candidates, see voting results, and so on.

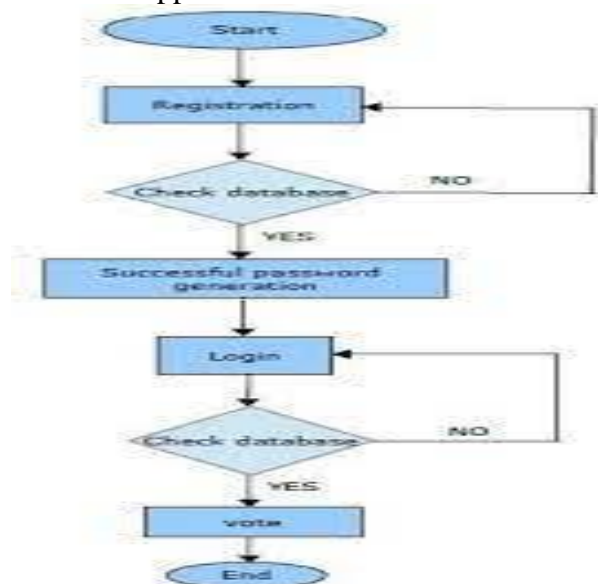
About System

Talking about the features of this system, the admin can manage the candidates, view results, and check feedback. While the user can simply vote for all the available candidates by giving some Basic Details of oneself. This system is An Interactive Way to Solve Conventional Voting.

The voters can also easily vote for their favorite person without having to go to the voting area. Also, the admin can easily view voting status. The design of this project is very simple so that the user won't find any difficulties while working on it.

CONCLUSION AND FUTURE WORK

In the recent days, offline voting is not possible due to covid-19 situation, so it's easy to use the online voting system using mobiles. and because of these applications everyone is do their rights. and give the votes to their favorable one. in case there is offline voting in covid -19 situation there is change to get contact of many peoples and because of these many peoples are get positive or home quarantine. to avoid these situations online voting system is most favorable application used in these situations and its useful in recent years



FUTURE WORK CAN BE DONE

Our online portal gives voter a chance to cast his vote via internet without going to Voting booth. This system gives fast access, more security levels, high flexibility and Efficiency. It also eliminates the chances Fake person casting vote or bogus voting. It also reduces man power and unwanted Elections which are completely accurate. Our system focuses on reducing the time and paper work. Hence the online voting System make all the voting process fast and Give security to the votes. [1]

The scope of the project is that it will use The ID and password created by user to register Him/her in the voting site, through this all the Details of voter are saved in database advanced technology: It is an advanced technology used now a day. It increases the internet knowledge of the users which is very necessary for current generation. [2] [3]

In online voting system platform can be made more secure by using some methods:-

- Fingerprinting
- Password changing
- Cornea detection

In the future user can be given the privilege of changing password.so its help to increase the security of online voting system. And next is fingerprinting so it will avoid the users privilege to cast the vote at their fingerprint. But it can guarantee that fake voting will be impossible. And many more security and changes will occur in future to increase the security of system. [4]

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