Online Voting System using Cloud

Ramya Govindaraj,
School of Information Technology and Engineering,
VIT,Vellore-632014,
Tamil Nadu, India,
ramya.g@vit.ac.in[1]

Kumaresan P,
School of Information Technology and Engineering,
VIT,Vellore-632014,
Tamil Nadu, India,
pkumaresan@vit.ac.in[2]

K.Sree harshitha,
School of Information Technology and Engineering,
VIT,Vellore-632014,
Tamil Nadu, India,
kapulurusree.harshitha 2015@vit.ac.in[3]

2020 International Conference on Emerging Trends in Information Technology and Engineering (ic-ETITE) 978-1-7281-4142-8/20/$31.00 ©2020 IEEE 10.1109/ic-ETITE47903.2020.245

***Abstract*—In this research work. Voting is commonly related to politics and is finished with often exploitation and manual approach where voters stand to vote for his or her decisions. Manual voting may lead to malpractices sometimes.so there is a need to implement online voting system. This is for expand the technology from manual voting system to digital voting system. In this specific research our idea is to implement online voting system with features like the schemes that the specific party has implemented, based on the features we are going to vote. The main reason we need to shift from normal voting system to online voting system is that we can consume our time and can vote from anywhere through online. We have implemented this by using C# as a programming language, Microsoft SQL server 2012 and Microsoft azure as a cloud.**

Keywords*— M*icrosoft azzure, sql server, igital voting, ballot.

I. INTRODUCTION

Before days there was voting system with papers. Now, this electronic system has no need of ballot papers etc. All the authorized and eligible persons can register through online and can vote by logging into their own systems. There is no time consuming for the users. The major advantage in this system is that the user has no need of coming to the voting halls, as they can vote from anywhere. It has more features as compared to the normal voting system. By this way most the people can cast their votes without missing.

In the new period of trend setting innovation where online framework supports work speed, lessens botches and advances the age of exact outcomes, having manual race framework turns into an incident. An open decision framework comprises the foundation of a majority rules system where the general population need to choose their state's head. India presently utilizes a manual race framework, which causes a few sorts of issues. Because of this paper tally based race framework, a few issues are looked by voters previously or amid races and others are looked by the organization when the casting a ballot. An online framework, which includes strategies like enlistment of voters, vote throwing, vote checking, and pronouncing results would establish a decent answer for supplant current framework and the proposed framework in this proposition will be useful for the voters by utilizing any assets like their very own framework or orchestrated by Government. Additionally, the proposed framework will likewise diminish the hazard for defilement. The framework is proposed in the wake of talking authorities of two offices, the Nation Database and Registration Authority India (NADRA) and the Election Commission of India (ECP). NADRA has an online database of the residents of India, and is giving the Computerized National Identity Cards (CNIC) and furthermore supporting distinctive associations with their online framework. In this way, by utilizing NADRA's framework it turns out to be anything but difficult to enlist all voters of the age 18 or above, and besides to check and verify their information.

II. LITERATURE SURVEY

You choose a citizen authentication methodology and transfer an inventory of eligible voters. If you would like facilitate or area unit during a rush you contact our fast Support department and one in all our representatives can hold your hand through the method (as a premium service, we will even lookout of everything on your behalf. Before option begins you pay any applicable fees and optionally transfer a mass-email. Voters gain your branded pick web site and evidence their identity. If authentication was palmy, the elector are going to be conferred with an inventory of any in progress elections. If the elector hasn't however voted, the elector might click on the election and a tamper-proof electronic ballot can seem. When the elector submits a ballot, the results square measure encrypted and unbroken anonymous. The elector is issued a receipt and is currently blocked from pick for this election once more. Once vote has concluded the results area unit instantly tabulated. You can read the leads to the Election Manager together with varied reports on vote

978-1-7281-4142-8/$31.00 ©2020 IEEE

activity before commercial enterprise them. Once printed, the results area unit created available to the general public on your vote web site and anyone are ready to verify the results by downloading a file containing votes and receipt codes, As said by Lauretta O.Osho.

Mohan Reddy Paluggulla says that, During the 1960s, few could have anticipated the effect that an undesired scholarly system of four centralized computer PCs, living at various colleges and research focuses, would have on the eventual fate of interchanges. This was the forerunner to the present web, which at present has around 2.8 billion clients around the world.Fast web associations are presently being seen as a fundamental item in the worldwide urban just as country showcase, and are treated as a key monetary pointer. This paper presents another innovation and operational show for Information Systems (IS), distributed computing what's more, electronic casting a ballot is presented as a basic component for improving resident joint effort through expanding resident investment in the basic leadership process. Electronic casting a ballot frameworks give some trademark not the same as the customary casting a ballot procedure, and furthermore it gives improved highlights of casting a ballot framework over conventional casting a ballot framework, for example, exactness, accommodation, adaptability, protection, unquestionable status and versatility. However, it experiences different downsides, for example, Time devouring, Consumes extensive volume of pare work, No direct job for the higher authorities, Damage of machines because of absence of consideration, Mass refresh doesn't permits clients to refresh and alter numerous thing at the same time. These downsides are overwhelmed by Online Voting Framework. Cloud use over the conventional electronic casting a ballot framework will advance into another idea of incorporated approach for casting a ballot framework for better precision and less number of weakness of the votes in the decision.

This paper manages configuration, fabricate and test a web based casting a ballot framework that encourages client (the individual who is qualified for casting a ballot), competitor (Candidate are the clients who are going to remain in decisions for their particular gathering), Election Commission Officer (Election Commission Officer who will check whether enrolled client and hopefuls are credible or not) to partake in web based casting a ballot. This web based casting a ballot framework is very verified, and it's configuration is straightforward, convenience and furthermore dependable. The proposed programming is created and tried to take a shot at Ethernet and permits web based casting a ballot. It additionally makes and oversees casting a ballot and a race detail as every one of the clients must login by client name and secret key and snap on his great contender to enroll vote. This will expand the casting a ballot rate in India. By applying high security it will diminish false votes, As said by Ankit Anand and Pallavi Divya.

Pankaj Kumar Malviya says that, The E-casting a ballot framework utilizing cloud is presented recently for Indian casting a ballot situation in this paper. The proposed model is more verified for recognizing the voter. All security passwords of voters is endorsed with the fundamental database of E-casting a ballot Commission of India then after Authentication of the voter he/she will ready to cast a ballot to the balloter .In this model voter can cast a ballot from anyplace any voting public of India. The primary concern of this proposed model is to give a security level by level. In this model votes tallying will be done consequently. This framework salvage an enormous time and E-casting a ballot official of India effectively expose the outcome inside a couple that is all.

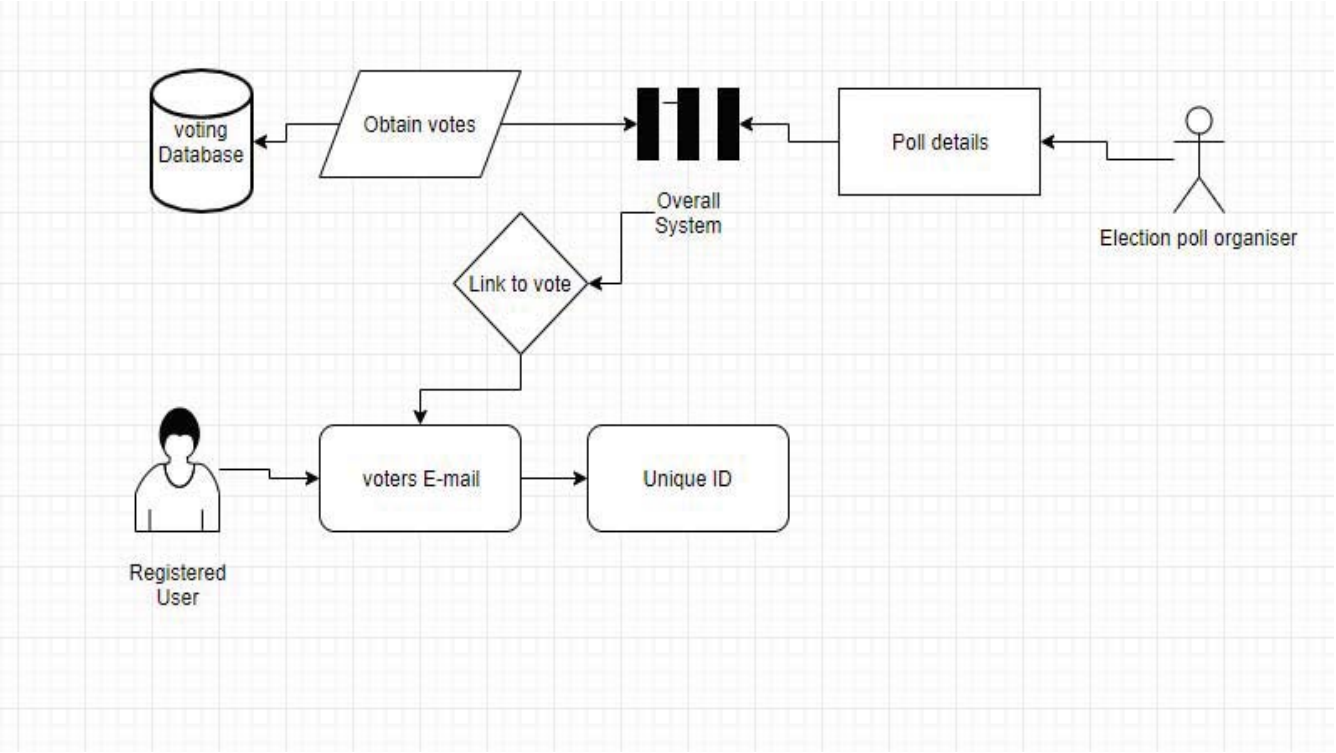
Distributed computing is utilized for information putting away in circulated condition and these information can be gotten to effectively from anyplace whenever. E Voting can be thought of as Good Governance in India. Current E-Voting framework has a few issues of including votes,fraud in making sham votes and pool of security. In any case, to settle such issues distributed computing offers quantities of chances, yet the advancements of distributed computing advances are still at diaper days organize. In this paper, we speak to the overview of distributed computing, survey of various techniques utilized for cloud based E-Voting framework over the aadhar-card, SMS and Traditional System. The primary point of this paper is to discover the difficulties looked in current E-Voting framework and protection issues, which are vital part of E-Voting, As mentioned by Ms.Bhargabi Jadav and Ms.Aneri Desai.

III. PROJECT DESCRIPTION

The important objective of this paper is to develop online voting system which is a need these days. The online system should satisfy the basic requirements like the software used should be trusted and secure. This is an automated system. It will be secure system because user can vote only once as the database will not accept more than one vote per user as all the details of the eligible people will be stored in the database. This system should have large database support. This online voting system is very easy to use and it is very efficient. This system does not require many efforts as compared to normal voting system. Once the system is understandable to everyone then this will be best form to vote. Across all these features it also has some drawbacks like software issues, internet problems etc.

IV. SOFTWARE DESIGN

A. FLOWCHART



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 is 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.

B. PROJECT RESULTS

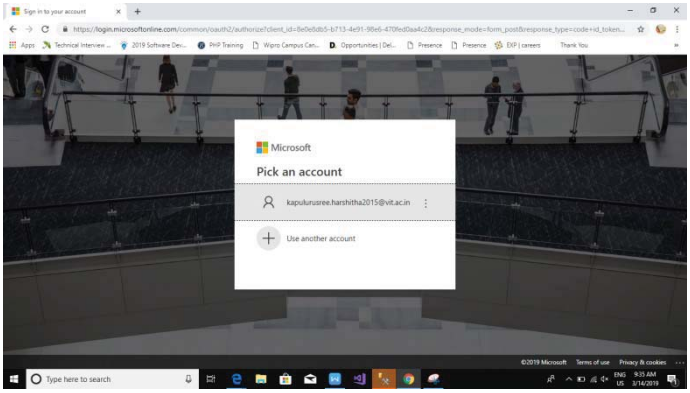


Fig. 1 Microsoft login page

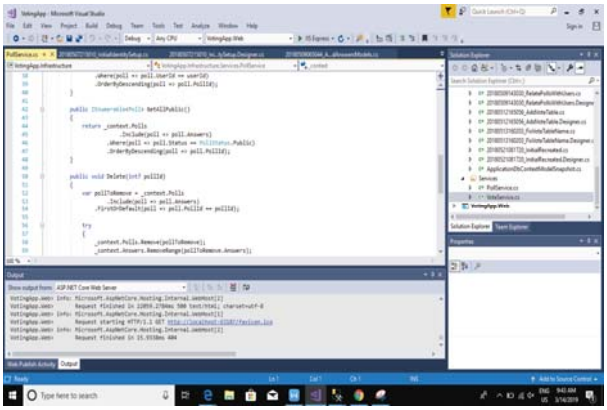


Fig. 2 Sample Code

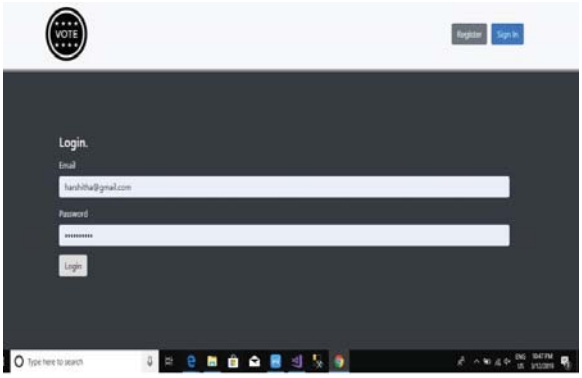


Fig.3 Sample Page

C. RESULTS AND DISCUSSIONS

By doing this undertaking I had the capacity to bring another framework for online national voting in favor of our nation. With incoming of innovation and Internet in our everyday life, we had the capacity to offer propelled casting a ballot framework to voters both in the nation and outside through our web based casting a ballot framework.

V. CONCLUSION

The Online Voting Platform offers clever tickets, brilliant agenda highlights, vote counting, classification and revealing. These capacities are programmed and don't should be doled out to faculty in-house. Furthermore, it enables heads to make decides on polls with the goal that voters can't cast invalid votes, nor do they should be checked while tallying. The Online Voting Platform offers the least demanding and most helpful technique for directors and voters alike. For directors, the way toward setting up a ticket and leading a decision is basic and sensible.

VI. REFERENCES

[1] Buchsbaum, T. M. (2004). E-casting a ballot: International improvements and exercises learnt. Electronic ballot in Europe Technology, Law, Politics and Society, 31−34.

[2] Asp SQL Code Examples. (n.d.). Retrieved April 25, 2016, from http://asp.happycodings.com/sql/

[3] D. A. Kumar, T. Ummal, and S. Begum, “A novel design of electronic voting system using fingerprint,” 2011.

[4] Rabinadnan kishor,”Implementation of cloud for online election system”,International journal of advance research in computer science and management studies,vol.3, March 2015.

[5] Tadayoshi kohno, Adam stubblefied,“Analysis of an Electronic Voting System”,IEEE computer society press, July 2003.