

College Online Voting System

R.Divakar Subbram¹, V.Kowsika², K.Girinath³, K.Karthick⁴

^{1,2,3,4} *Master of Computer Applications, M.Kumarasamy College of Engineering*

*Email : divakarsubbram@gmail.com¹, kousivelu23@gmail.com²,
girinath905@gmail.com³, karthick852395@gmail.com⁴*

Abstract : *College Online Voting System is a web-based system, it automates the running of elections and surveys online. Users are individually interacting with the system. All user interaction is performed remotely through the user's browser. Before voting user should fill registration form and provide their details, that details are compared with details in college database, if data's are match then user request form is accepted and provided by username and password, otherwise entry is going to be cancelled by administrator. Users using their username and password log in into this system and vote on that date of election only. In this system contains two level of user's, one is administrator level and another one is voter level.*

Keywords: *College,, Voting,Online,Elections*

1.INTRODUCTION

The aim of College Online Voting is to supply a gaggle of protocols that allow voters to vote cast ballots while a group of authorities collects votes and output the ultimate Tally. Voting makes many of us to believe that voting application is the perfect application for current technology, but actually applying its hard. College Online Voting System may be a web-based system that easier the running of elections in online. This system has been developed to simplify the method of organizing elections and make it fitting in well voters needs to vote remotely from home computers or mobile phones with the help of internet connectivity while taking into consideration security, anonymity and providing auditioning.

2.EXISTING SYSTEM

- The existing system is a manual and the paper based voting system, which is voted on paper and counted manually.
- There are no specific websites dedicated to colleges who can participate voting from any location.
- There are many applications on e-voting for political parties, but there are only few web applications

which are used for voting, or general questions or college-related topics questions.

- The main problem with existing system was time-consuming which wants to take lot of your time for voting.

DISADVANTAGES

- In early the voting system is based on the paper based system. Because of this the paper and paper cost is wasted.
- Students are all come to college for vote, so the cost is wasted for travelling.
- All the students must be form a line for vote; it takes more time to vote.
- Loss of voting documents and miscounted votes.

3.PROPOSED SYSTEM

- Voting process is in online. Administrator manages both the voter and the candidate information and details in database.
- Remove the passed out Batch student's information every year.
- Administrator provides Username and password for individual users.
- Analyzing the results is made straightforward and accurate. No physical effort and paperwork are needed.
- In this system Advanced HTML Framework BOOTSTRAP 4 is used.

ADVANTAGES

- It prevents loss of voting documents and miscounted votes.
- Elimination of Paper at a great cost and time savings.
- No waiting for results.
- Automated result counts.
- A voter can vote only once on that date of election, so, it is Secure.

4.PROBLEM DEFINITION

College Online Voting System provides the online registration form for the users before voting and makes the users to cast their vote online. The system is to be developed with security and user-friendly.

5.OVERVIEW OF THE PROJECT

The project "College Online voting System" is software system through which a voter can give votes through this system registering their details. It deals with design, test and build an online voting system that facilitates user and candidate. All the information in sites which have been entered by users that is stored in database, for each page on the website has its own database table. Administrator verifies whether the registered user's details are acceptable or deleted to participate in online voting. Administrator provides username and password for individual users, users using their username and password to vote on that date of election. This online voting system is secured, reliable and its design is simple.

6. MODULE DESCRIPTION

There are five modules for registration, voting and analyzing results.

MODULES USED

- Candidate
- User (Voter)
- Registration
- Login
- Results

CANDIDATE

In this Module the Admin will manage the profile of candidate. First, the admin will collect the details of candidates then the admin will register candidates by filling up the details of candidates. These details will display at the voter site for knowing the details and voting the candidate.

USER (VOTER)

User can visit the site, if the user wants to vote registration then voter enters to registration interface and filling up the form from this can make a request to the admin. The request will be goes to Admin. The User has to wait up to verification completed by administrator. After Verification has done, by user interface voter login using their username and password and make vote for required candidate on particular election Date.

REGISTRATION

The user should provide their Entire information such as Full name, surname, Email-id, password, Branch, Class, Batch, Contact no, Date of Birth, Roll-no and Gender. User should upload their image and Idcard image at the time of registration. Admin will verify and maintain the above details in the database.

LOGIN

In this Module the voter can log in into their account by username and password, after login the voter can give vote to candidate if there is an election scheduled on that date.

RESULTS

By the admin can know entire details about voter and different candidate details and the results announced by administrator. Calculation of the election results are automatically. The candidate having the highest count will be winner of election.


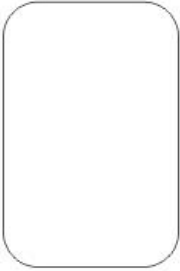


7. DATA FLOW DIAGRAM

Data flow diagram informs the flow of components of a software or project. The process flow will be represented in the graph format.

Data flow Symbols

Data flow diagram includes four properties such as

- Entity
- Processing
- Storage
- Flow of data

Symbol	Description
	Entity : Source or Destination
	Processing of the system.
	Storage area of data
	Flow of data

8. SYSTEM TESTING

System testing is a testing of hardware and software. Knowledge of logic is unnecessary for system testing.

UNIT TESTING

Unit testing deals with components of a software. It is a small part of testing. Developers are involved in unit testing. It includes functions, interfaces, and classes as a part of software for unit testing.

VALIDATION TESTING

Validation testing is the process of checking whether the software specification satisfies the customer need.

USER ACCEPTANCE TESTING

User acceptance testing is a client side testing. The user validates the software whether it meets their requirements. This is a final testing it performed before the deployment of the software.

BLACK BOX TESTING

Black-box testing is a high level testing and it is a method of testing that the internal structure of the software is not known to the tester.

WHITE BOX TESTING

White-box testing is a lower level of testing method, whereas the internal structure of the software must known to the user.

SYSTEM IMPLEMENTATION

The system has been tested with live information and has proven to be error free and user friendly. After the approval of the system by each user and management the system was implemented.

9.CONCLUSION

In this project, we tried to understand the paper-based voting system in colleges and not the least the drawbacks of the system. There are several advantages and disadvantages. The system proposed in this project will not just convert the current manual system to a College Online voting system. Student will be able to cast votes through their Mobile phones or home PC with the help of internet connectivity. This College Online Voting System provides the features such as Security, cost-effectiveness, and confidentiality and easy accessibility.

10.FUTURE ENHANCEMENT

A better database maintenance and the process of casting vote using finger print and Face Detection and Recognition will further help us to fulfil our purpose.

11.REFERENCES

- [1] Vanithamani.S, “Categorization of vehicle and motion analysis us-ing vehicle features”,International Journal of Engineering and Technology,Vol.7,pp.184-186,2018.
- [2] Vanithamani.S, “Segmentation in video image using seeded region growing”,International Journal of Applied Engineering Re-search,Vol.13,pp.6805-6807,2018.
- [3] S.Kayathri,S.Girija,S.Meena, “Vehicle Speed Tracking Using Gps in Android Smart Phone”, International Journal of Engineering & Technology,Vol.7,pp.59-61,2018.
- [4] S.Meena,S.Girija,S.Kayathri, “Financial Management System”, International Journal of Engineering & Technology,Vol.7,pp.71-72,2018.
- [5] P. Pandiaraja and J. Manikandan, "Web proxy based detection and protection mechanisms against client based HTTP attacks," 2015 International Conference on Circuits, Power and Computing Technologies [ICCPCT-2015], 2015, pp. 1-6, doi: 10.1109/ICCPCT.2015.7159344.
- [6] P. Pandiaraja and S. Parasuraman, "Applying secure authentication scheme to protect DNS from rebinding attack using proxy," 2015 International Conference on Circuits, Power and Computing Technologies [ICCPCT-2015], 2015, pp. 1-6, doi: 10.1109/ICCPCT.2015.7159255.
- [7] Pandiaraja, P., Priya, L.T., Pooja, D., Prasath, M., Swathi, D., A survey on machine learning and text processing for pesticides and fertilizer prediction ,Turkish Journal of Computer and Mathematics Education, Volume 12 Issue No 2, pp.2295–2302,2021.
- [8] S.Kayathri,S.Girija,S.Meena, “Green Computing Initiatives to Reduce the Hazardous Effect on the World”, International Journal of Engineering & Technology,Vol.7,pp.224-226,2018.
- [9] S.Girija,S.Kayathri,S.Meena, “Retrieving System Performance”, International Journal of Engineering & Technology,Vol.7,pp.222-223,2018.
- [10] S.Girija,S.Kayathri,S.Meena, “Analysis of Shortest Path Routing for Large Multi-Hop Wireless”, International Journal of Engineering & Technology,Vol.7,pp.59-61,2018.
- [11] Vanithamani.S, “Impact of Threshold in Gray Level Slicing and Seeded Region Growing Segmentation”, International Journal of Engineering & Technology,Vol.7,pp.227-229,2018.
- [12] S. Deepika and P. Pandiaraja, "Ensuring CIA triad for user data using collaborative filtering mechanism," 2013 International Conference on Information Communication and Embedded Systems (ICICES), 2013, pp. 925-928, doi: 10.1109/ICICES.2013.6508262.
- [13] S. Saravanan, T. Abirami and P. Pandiaraja, "Improve Efficient Keywords Searching Data Retrieval Process in Cloud Server," 2018 International Conference on Intelligent Computing and Communication for Smart World (I2C2SW), 2018, pp. 219-223, doi: 10.1109/I2C2SW45816.2018.8997131.

- [14] S.Kayathri,S.Girija,S.Meena, “Green Computing to Reduce the Harmful Impact of Technology on the Earth”, International Journal of Applied Engineering Research ,Vol.13,pp. 9965-9968,2018
- [15] S.Kayathri,S.Girija,S.Meena, “Identity Recognition in network security using LASER pumer technology and Fingerprint”, International Journal Of Control Theory And Applications,Vol.11,pp.1-3,2018.
- [16] S.Ramya,S.Kayathri,S.Meena, “Enhancing the Graphical Password with Sound Signature”, International Journal of Emerging Trends in Science and Technology ,Vol.3,pp. 1-3,2019
- [17] [10] S.Meena,S.Kayathri,S.Ramya, “Mobile Phone Application To Provide A Safe Driving Using Global Positioning System”, International Journal of Scientific & Technology Research ,Vol.9,pp. 1518-1519,2020
- [18] P Pandiaraja, P Shivani, K Saranya, M Priyadharashini, B Chinnasamy , A Scrutiny on COVID-19 Detection using Convolutional Neural Network and Image Processing , Annals of the Romanian Society for Cell Biology , Volume 25 , Issue 4, 3831–3843,2021.
- [19] P Pandiaraja, S Dhivya , A Review on Energy Efficient Improved Stable Election Protocol for Iot Applications , Annals of the Romanian Society for Cell Biology , Volume 25 , Issue 4, 16358-16372,2021.
- [20] Pandiaraja, P. , Aravinthan, K., Lakshmi Narayanan, R., Kaaviya, K.S.,Madumithra, K , “ Efficient cloud storage using data partition and time based access control with secure aes encryption technique” International Journal of Advanced Science and Technology, 2020, 29(7), pp.1698-1706.
- [21] P.Rajesh Kanna ,P.Pandiaraja, An Efficient Sentiment Analysis Approach for Product Review using Turney Algorithm , Procedia Computer Science , Volume 165 , Issue 2019 , 356-362 , 2019.
- [22] Pandiaraja, P, Sharmila, S., “Optimal routing path for heterogeneous vehicular adhoc network”, Journal of Advanced Science and Technology, 2020, 29(7), pp.1762-1771.
- [23] S.Kayathri,S.Ramya,S.Meena, “Detecting And Preventing of Malware Spread”, International Journal of Scientific & Technology Research ,Vol.9,pp. 1463-1465,2020
- [24] S.Ramya,S.Kayathri,S.Meena, “Life Blood Contribution Using Android Application To Avoid Blood Donation Problems”, International Journal of Scientific & Technology Research ,Vol.9,pp. 6480-6482,2020
- [25] Vanithamani.S, “Decision Tree Implementation Using J48 and Random Tree Algorithm”, Journal of Critical Reviews ,Vol.7,pp.1777-1780,2020.
- [26] Vanithamani.S, “Tracking User’s Currency From Ip Address For E - Commerce Websites”, International Journal of Future Generation Communication and Networking,Vol.13,pp. 2439–2442,2020.
- [27] S.Meena,S.Vanithamani, “Student Course Selection System”, International Journal of Future Generation Communication and Networking,Vol.13,pp. 2443–2445,2020.

- [28] S.Kayathri,S.Ramya,S.Meena, “Effective Web Data Presentation and Extraction Using XML Technologies”, International Journal of Emerging Trends in Science and Technology ,Vol.6,pp. 33-36,2020