IJARSCT
ISSN (Online) 2581-9429
International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)
Volume 2, Issue 5, June 2022
Impact Factor: 6.252

College Ballot System

Mrs. N. Nithya[1], Ms. Sherli Margreat S[2], Ms. Vidhya S[3]
Assistant Professor, Department of Information Technology[1]
Final Year Students, Department of Information Technology[2,3]
Nirmala College for Women, Red fields, Coimbatore, TamilNadu, India

Abstract: *This project is Entitled as "COLLEGE BALLOT SYSTEM". Online Ballot System is a web-based voting system that will help you to manage your elections easily and securely. This voting system can be used for casting votes during the elections held in colleges and it minimizes the errors of vote counting. The individual votes are submitted in a database which can be counted to get the highest number of votes of the candidates for a given post. The system computes the election result for all the posts and provides report for the entire election process. The main objective of this system is to design, develop and implement an efficient and interactive web based student voting system. This project is titled as "COLLEGE BALLOT SYSTEM" and was developed using PHP as front end and MYSQL as back end.*

Keywords: College ballot, Online voting, Electronic Voting.

I. INTRODUCTION

This project is designed to cast the vote through a web page using online voting methodology and is mainly designed for college students.

The two major login options designed as 'Admin' and 'Students' takes the control of registering the candidates as well as restricting the duplicate voting.

Initially the students can register themselves by giving their Register number, Name, Aadhar number, Department, Date of birth, Photo, Mail id, Age , Gender and Password.

After registration, the Users can login by their username and password. After logging-in election candidate list can be viewed and the list contains candidate name with their symbols approved by the election . Users can select their candidate from the list and then can submit their vote. After submitting user's vote is automatically stored in database and it will be taken for count.

In the administrator part, administrator has to login by using their administrator's unique username and password.

After logging the administrator can edit and delete the Nominees and voters details. The administrator can view the user's vote details. In that the candidates vote will be automatically counted and listed.

1.1 Problem Statement

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 high security and user friendly.

1.2 Research Objective

The main objective of this study is an important step towards streamlining this effort is to develop a framework and identify necessary properties that a secure and trusted online voting system must satisfy to reduce discovery redundancy. Such a framework will allow us to evaluate as well as compare the merits of existing and future candidate online voting schemes. System should support multi-user environment. System should be fully automated. System should provide concrete security features like creating users and assigning privileges to users of the system. System should be capable to keep track of all the detailed descriptions of the client and the whole details of services offered by the client organization. Various outputs (reports) should be available online any time. System should be able to handle extremely large volumes of data

IJARSCT
ISSN (Online) 2581-9429
International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)
Volume 2, Issue 5, June 2022
Impact Factor: 6.252

1.3 Scope of Study

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.

II. LITERATURE REVIEW

2.1 Background

This software is being developed for use by everyone with a simple and self explanatory GUI. This is software that can be used by people to vote in an election. All the user must do is login and click on his favourable candidates to register his vote. The development and testing is done on Ethernet. While online voting system has been an active area of research in recent years, the use of insecure Internet, well documented cases of incorrect implementations reported recently. These challenges are to be resolved so that public should cast their vote in secure and convenient way. Proposed online voting system is a voting system by which any Voter can use his/her voting rights from anywhere in country. Online voting system contains:

1. Voter's information in database.
2. Voter's Names with ID and password.
3. Voter's vote in a database.
4. Calculation of total number of votes. Various operational works proposed in the system are: Recording information of the Voter in database. Checking of information filled by voter. Discard the false information. Each information is sent to election commission

2.2 Existing System

The existing system is a paper-based voting system which is highly manual. In most of the Universities, voters usually use their identity cards for the verification of the voter, there is no any form of registration of voters prior to the election date. An election date is usually set by the election committee inside the college administration. After that , the voter goes ahead to pick the ballot paper which contains the name of the candidate name, symbol and sometimes, their photos. The voter will drop the ballot paper physically inside the ballot box one by one to cast their vote, then election committee will open the box and count the vote by collecting all the ballot paper nominee wise. Finally, the results will be announced by the election committee.

2.3 Proposed System

In the proposed voting system, everything is systematic oriented. The registration of voters by Reg number, Phone number, Photo, Year, Mail id, Aadhar no, Age, Date of birth etc., by done using computers. Counting of votes, Registration of nominee, voting and counting of votes is done by the online system itself. The password will generated-automatically during the user registration, which will be major validation for duplicate voting. The system will be a web-based information system that enables the individuals to cast their vote only once. All the information provided during the registration is stored in a database, the counting will be done automatically by the system and result will be announced within an hour.

2.4 Product Functions

It has a server back end that will authenticate the users and maintain the data structures

2.5 Overview of Data Requirements

The internal memory requirement will be constant or linearly dependent on the number of users depending on the provision of changing the vote at a later time. The external data about the candidates (with photographs) and the posts or the poll questions and the answers will be given as input only at the server end.

2.6 Constraints

Login and password is used for unique ID for users.

IJARSCT
ISSN (Online) 2581-9429
International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)
Volume 2, Issue 5, June 2022
Impact Factor: 6.252

III. SALIENT FEATURE

Online voting is software system through which a voter can give votes through registering themselves on the voting website. all the information in sites which has been entered are stored in database for each page in the website have its own database table. It deals with design, build and test a online voting system that facilitates user (the person who is eligible for voting), candidate (Candidate are the users who are going to stand in elections for their respective party), Election Commission Officer (Election Commission Officer who will verify whether registered user and candidates are authentic or not) to participate in online voting. This online voting system is highly secured, and it's design is very simple, ease of use and also reliable.

3.1 Home

It is the welcome page of the website, having all the feature options of the website

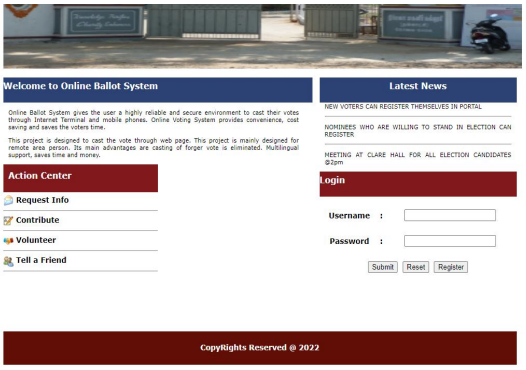
3.2 Registration

This is the register page, where the voter, candidate and can register themselves. They all have to enter basic information best of their known.

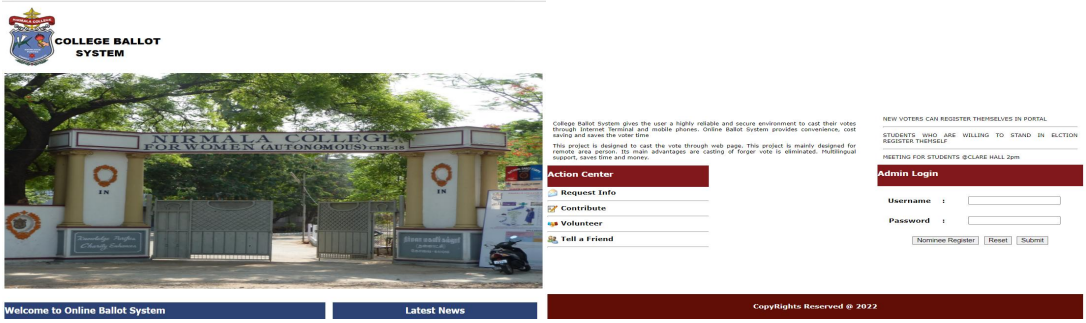
3.3 Login

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 through registration.

IJARSCT
ISSN (Online) 2581-9429
International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)
Volume 2, Issue 5, June 2022
Impact Factor: 6.252



Admin Login: Admin is a predefined unique user name and password. This module maintains the login details of admin. They are the authorized persons to access this voting process and only they can add the different nominees through this web application.



Voting Page: In this module a user can view the participant details using the can put a vote using their image with a separate login id. Users are easy to view the nominees and select their favorite candidate in this application. Users can put a vote at once duplicate votes cannot be casted.

Winner Details:
In this module, the user can view the winning candidate details which will be published by the administrator. The user can also view the list of all candidates along with their vote details.

IJARSCT
ISSN (Online) 2581-9429
International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)
Volume 2, Issue 5, June 2022
Impact Factor: 6.252

IV. FUTURE ENHANCEMENT

Nothing will be useful until it is update & enhanced timely just like IT field.
In such a way that this software can have more future enhancement such as

- Authentication on administrator side can be moved over to biometrics for more secure access
- Database used has limited storage, which can be switched to SQL etc.
- It can be enhanced according to the client user's convenient.
- The online ballot system is a web application software which can be made into a mobile application which is used for easy access in portable devices

V. CONCLUSION

It was a wonderful and learning experience for me while working on this project. The **"COLLEGE BALLOT SYSTEM"** has been designed and developed to meet the current requirements of the project. Also, the system is protected from any unauthorized access. All the necessary validation is carried out in this project. Hence the system can be maintained successfully without much work. Some special features of this project are

- It reduces the manpower to some extent
- It reduces the time and cost
- It avoids redundancy of data

REFERENCES

[1]. Christian Schaupp, L., & Carter, L. (2005). E-voting: from apathy to adoption. Journal of Enterprise Information Management, 18(5), 586–601.
[2]. Pawar, B. M., Patode, S. H., Potbhare, Y. R., & Mohota, N. A. (2020). An Efficient and Secure Students Online Voting Application. 2020 Fourth International Conference on Inventive Systems and Control (ICISC).
[3]. Usmani, Z. A., Patanwala, K., Panigrahi, M., & Nair, A. (2017). Multi-purpose platform independent online voting system. 2017 International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS).