# ABSTRACT

The project is mainly aimed at providing a secured and user friendly Online Voting System. The problem of voting is still critical in terms of safety and security. This system deals with the design and development of a webbased voting system using fingerprint and aadhaar card in order to provide a high performance with high security to the voting system. The proposed Online Voting System allows the voters to scan their fingerprint, which is then matched with an already saved image within a database that is retrieved from aadhaar card database of the government. The voting system is managed in a simpler way as all the users must login by aadhaar card number and click on his/her favorable candidates to cast the vote By using biometric fingerprint it provides enough security which reduces the dummy vote

# PROBLEM STATEMENT/DESCRIPION

## Problem Statement: -

The Existing System of Election is running manually. The Voter has to Visit to Booths to Vote a Candidate so there is. wastage of Time. The Voter has to manually register into the Voter List. Also Vote counting has to be done manually. All the Information of the Voter or Candidate is to be filling in manually. Voter must be present in his/her Constituency to give his/her Vote.

## Problem Description: -

* Increasing number of voters as individuals will find it easier and more convenient to vote.
* Less effort and less labor intensive, as the primary cost and focus primary on creating, managing, and running a secure web voting portal.
* The system can be used anytime and from anywhere by the Voters.
* No one can cast votes on behalf of others and multiple times.
* Saves time and reduces human intervention.
* The system is flexible and secured to be used.
* Unique Identification of voter through Aadhar number.
* Improves voting with friendly Interface.
* No fraud vote can be submitted.

**FACILITIES REQUIRED FOR PROPOSED WORK**

## Hardware:

* + - Microsoft Windows Professional /Windows 10:
    - Processor: 800MHz Intel Pentium III or equivalent Memory: 512 MB
    - Disk space: 750 MB of free disk space

## Software:

1. Operating System: Windows 11
2. Language: HTML
3. Database: Oracle
4. Tool: HTML and CSS, Notepad

# PROPOSED METHODOLOGY

* **Login**: - Candidate need to login with their Registered Account to start using our system.
* **Vote**: - Candidate is needed to click on vote for being in voting process.
* **Aadhaar number**: Candidate needs to write their Aadhaar number.
* **Submit**: -When they try to enter Aadhaar number, their credentials will be stored in our existing database.
* **Reset**: Back to Login portal.
* **Eligible for voting**: -Candidate voted successfully.

# BLOCK DIAGRAM

LOGIN

AUTHENTIC

-ATION PROCESS

AADHAAR

NUMBER

PORTAL

YES NO

ELIGIBL- E FOR VOTING

SUBMIT

RESET

Fig: - Block diagram of Secure Vote

# CONCLUSION

Online Voting Systems have many advantages over the traditional voting system. Some of these advantages are less cost, faster generation results, easy accessibility, accuracy, and low risk of human and mechanical errors. It is very difficult to develop online voting system which can allow security and privacy on the high level.

Future development focused to design a system which can be easy to use and will provide security and privacy of votes on acceptable level by proper authentication and processing section. It is easy to use and it is less time consuming. It is very easy to debug.

# REFERENCES

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