

# Aadhar Card Based Online Voting System

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**Abstract** - This project proposes the need of authenticated voting system in our election due to the increase an illegal voting or bogus voting in State and Central government elections. Here the authentication of an individual is done by using biometric details and eligibility of the voter that is to be verified with Aadhar card details. In this project, Aadhar's centralized database for every individual provides the reference data for every individual. Moreover, added tier of security is enforced as biometrics(fingerprint). The key functions of this paper are enrolment and Pattern matching. During election, while the voter put his/her fingerprint, their details from the database will be displayed in that website.

**Key Words:** Aadhar, fingerprint, voting, biometric

## 1. INTRODUCTION

In this paper, we have proposed an Adhar card based online voting system which is based on the fingerprint of voter which is saved as Aadhar card number in a central government database. In the 12 digit number of Aadhar's centralized database, the government collects biometric and demographic data of citizens and provides a 12-digit unique identity number to individual. Fingerprint biometric provide secure authentication because fingerprint is unique to each individual.it also check the age of a person. The Person is eligible to vote or not, if the person age is smaller than 18 year then the person is not eligible to voting.

India is spending lots of money to improve our whole voting system to provide a better government to citizens. In India, voting system should be honest, without corruption and fully secure for the better democracy. The current system is used to less transparency because there could be chances of fake voting at the voting time. Authentication (uniqueness)of Voters, Security of the voting process, protecting voted data these are the main challenges of current Election voting. To recover the challenges we develop our Online Voting System. This system Provide a more security than the previous system.

## 2. RELATED WORK

Development of proposed system some of the papers are we will refer regarding the voting system is discussed below: Shekhar Mishra, "electronic voting machine using biometric fingerprint with Aadhar authentication "in the

voting Process the person is not eligible to vote in an electionthen so this done voting under the name of another eligible voter vote then it is called as voter impersonation. These types of corruptions can be stopped only using automated voting system.

Mary Havilah Haque, "Fingerprint and RFID Based Electronic Voting Machine Linked With Adhar For Rigging Free Elections"Electronic voting (also known as E-voting) is voting using electronic systems to aid casting and counting votes. Voting machines use a two-piece system with a balloting unit presenting the voter with a button for each choice connected by a cable to an electronic ballot box.

Soumyajeet Chakraborty,"Biometric Voting System using AADHAR card in India" After getting freedom, Indian Government provide a right to Indian people to elect their interested leader. For conducting and controlling voting in India, a separate commission was introduced which was named as Election Commission of India(ECI).In this system paper-based elections voters cast their votes by simply depositing their ballots in sealed boxes distributed across the electoral circuits around a given country. When the election period ends, all these boxes are opened and votes are counted manually in presence of the certified officials.

## 3. PROPOSED SYSTEM

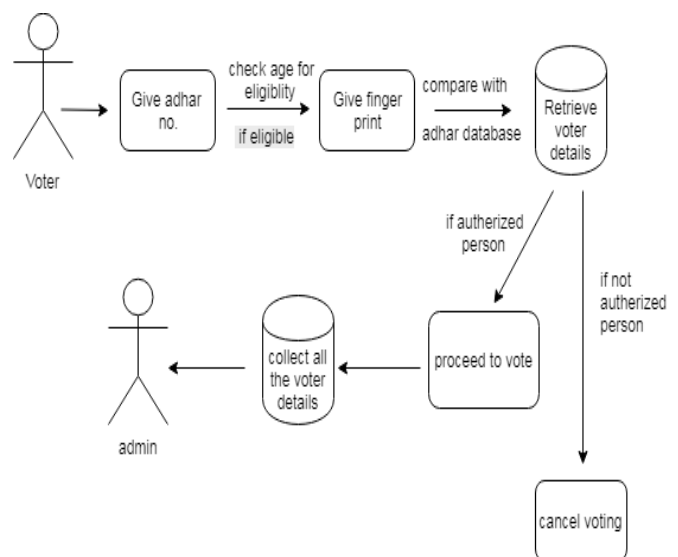


Fig -1: System Architecture

In the architecture show the working of the voting system. firstly the voter enter Aadhar number then the check eligibility of voter the age of user is greater than the 18 year or not, if voter is eligible then it give fingerprint then the fingerprint is checked with Aadhar database if the fingerprint is match the user can vote otherwise the voting is cancel.



**Fig -2: Fingerprint Module**

**ADVANTAGES**

1. More security is provided.
2. Any user can vote easily.
3. Fast and accurate Result.

**APPLICATION**

1. Used in Grampachayat.
2. Used in Mahanagarपालिका.

**4. CONCLUSION**

The proposed secured Online voting system uses Aadhar card and Voter Id for authentication. Database consisting of the details like name, address, age, gender and fingerprint should be updated every time before election. This system affords additional security by allowing voter to vote only once by comparing unique identification. Our main proposal is to enable the user to cast his vote using OVS without going to booth. User can cast his vote from his home or any way and to reduce the proxy vote and in booth capturing situation this system help us..

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