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# Online Election System Based on Aadhar Authentication

Dimple Piprewar [1], Rita Karare [2], Pooja Mankar [3]
[1,2,3]*Dept. of Computer Science and Engineering, S.R.M.C.E.W. RTMNU Nagpur, Maharashtra*

***Abstract: The project is mainly aimed at providing a most secured and user friendly Online Election System. Online election system is a voting technique. In Traditional election environment voting process sometimes become quite inconvenient due to the reluctances of certain voters to visit a polling booth to cast votes besides involving huge social and human resources. So we are developing an online voting system by taking advantage of the centralized database with a web interface. The main concept of this project is to build a website, which should be able to allow people to cast their vote by online.***

## I. INTRODUCTION

As now all Indian citizen become a part of the growing digital India have a digital ID that is Aadhar card. Online voting system project is implemented in JAVA platform using My SQL database as backend. Main aim of the online system is to develop an online application. In online election system people who have citizenship of India and whose age is above 18 years can give his/her vote online without going to any physical polling station. Online Election System would have Candidate registration, document verification, auto-generated User ID and password for candidate and Voters. In online election system a voter can use his/her voting right online without any difficulty. he/she has to be registered first for him/her to vote. Registration is mainly done by Election Commission of India for security reasons. After registration, the voters is assigned a secret voter ID with which he/she can use to log into the system and enjoy services provided by the system such as voting. If invalid/wrong details are submitted, then the citizen is not registered to vote. With the help of this technology we do not need much expense for paper, printing and inks. Online election system is the new concept of new generation election system.

## II. EXISTING SYSTEM

*A.* These systems included punched card voting, mark sense and later digital pen voting systems
*B.* Elections are held by election commission and that were processed either manually or by using electronic devices.
*C.* Paper-based voting systems originated as a system where votes are cast and counted by hand.
*D.* With the advent of electronic tabulation came systems where paper cards or sheets could be marked by hand counted electronically.
*E.* Paper-based voting systems originated as a system where votes are cast and counted by hand .

## III. PROPOSED SYSTEM

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:
Admin Login Module
Voters Login Module
Candidate Login Module
Document Verification Module
Result Calculation Module


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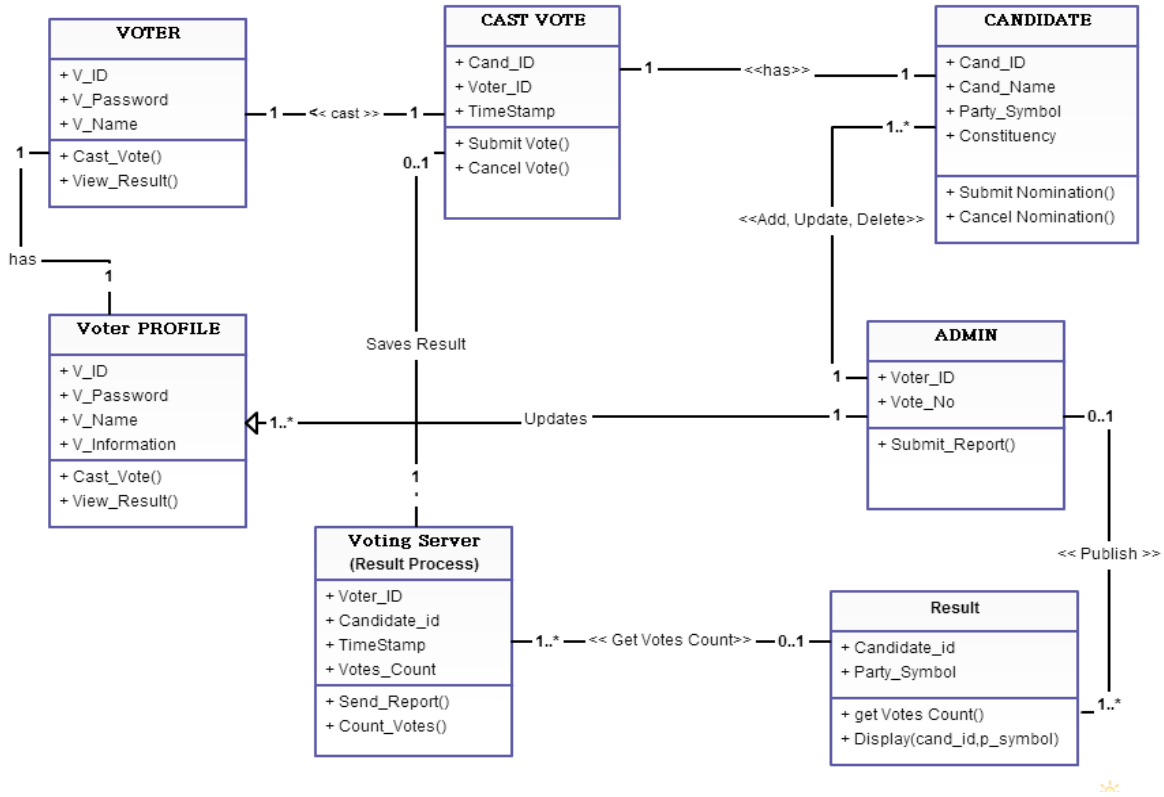



Fig1. Flow diagram of proposed system.

## IV. PHASE IMPLEMENTATION

*A. Phase 1. Admin Login Module*

In this Admin login module the election commissioner or admin having the authorization to access this one. In this module admin or election officer will get the requests from the general users and nomination candidates.

*B. Phase 2. Voters Login Module*

Through voters login module general users or voters can registered himself. The users should provide the entire information about him regarding address, contact No, E-mail ID , Aadhar card No, etc. and also users should reload his image at the time of registration.

*C. Phase 3. Candidate Login Module*

After registration candidate can see his/her profile and can edit his/her profile. The candidate has facilitated with all the latest news update regarding election.

*D. Phase 4. Document Verification Module*

In this module one of the field officer or an employee can access this system and credentials will be provided by admin by using this credentials field officer can entire into home page and manage his personal data. Field officer will get the queries from admin of user registration for further verification by constitution wise. Field officer will send reply of the queries to the admin.

*E. Phase 5. Result Calculation Module*

This module is comes under admin module as sub-module. By the admin can know entire details above voter registration and different party candidate details by constitution wise. By this Election Commission of India or admin can know the voters count by constitution wise.


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## V. EXPERIMENTAL RESULT

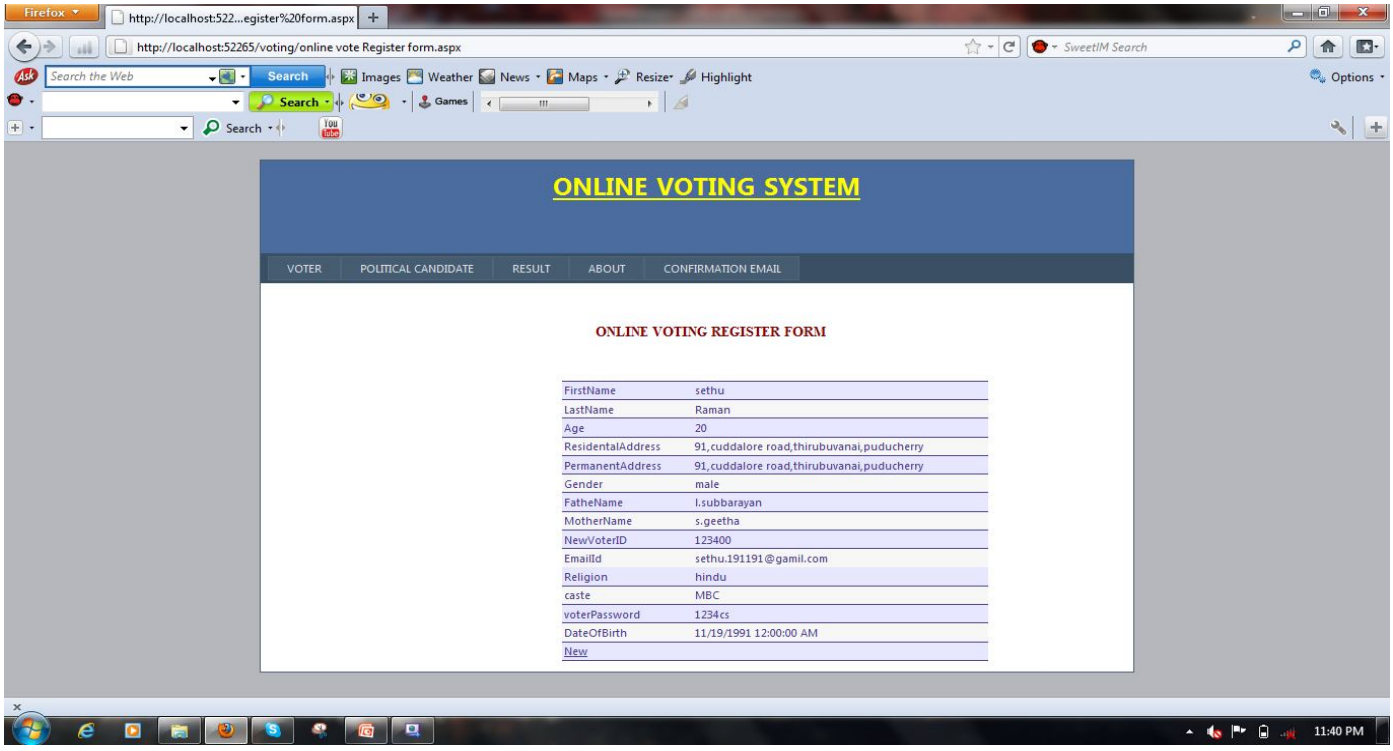



Fig2. Online Voting Registration Form

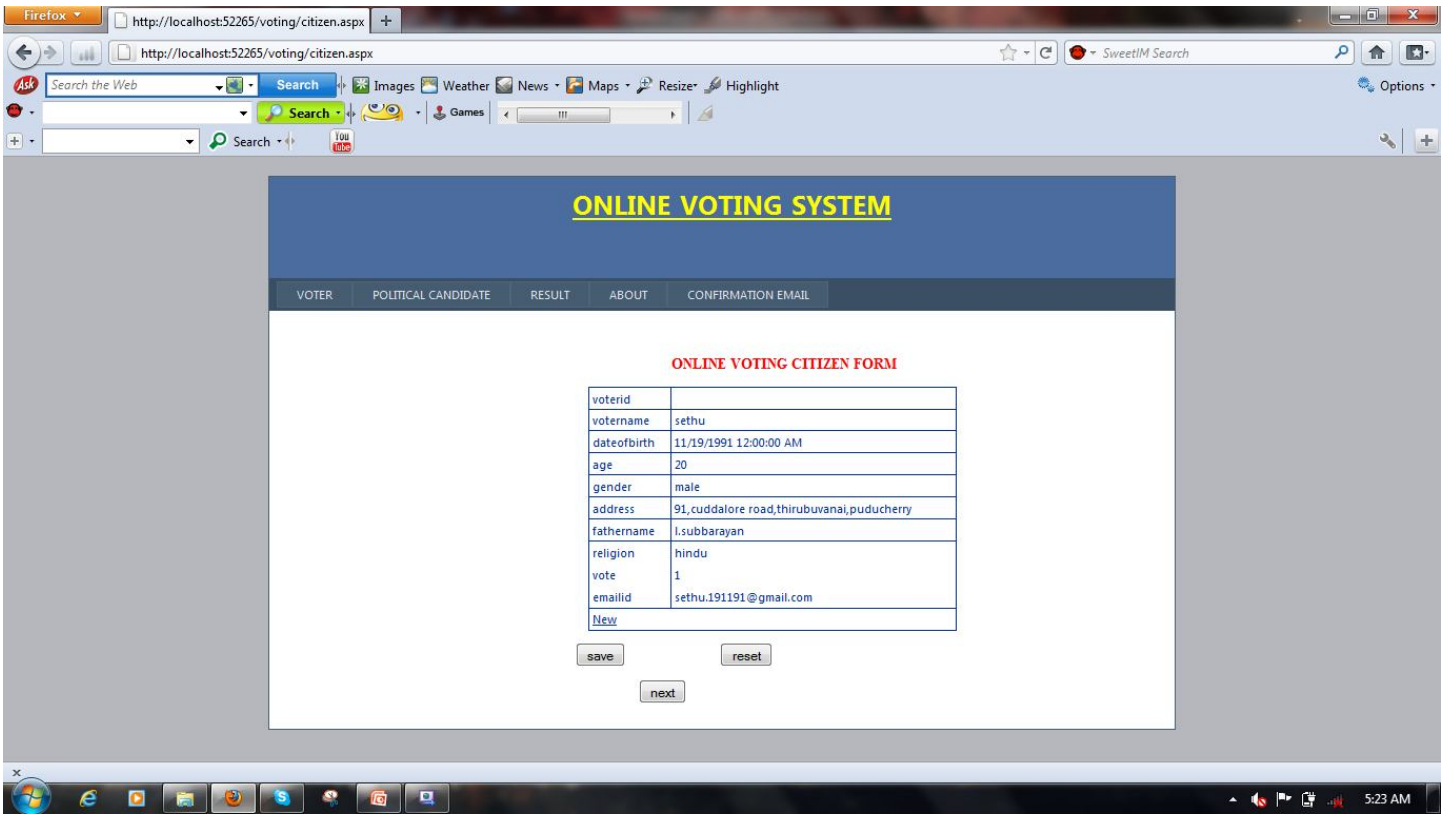



Fig3. Online Voting Citizen Form


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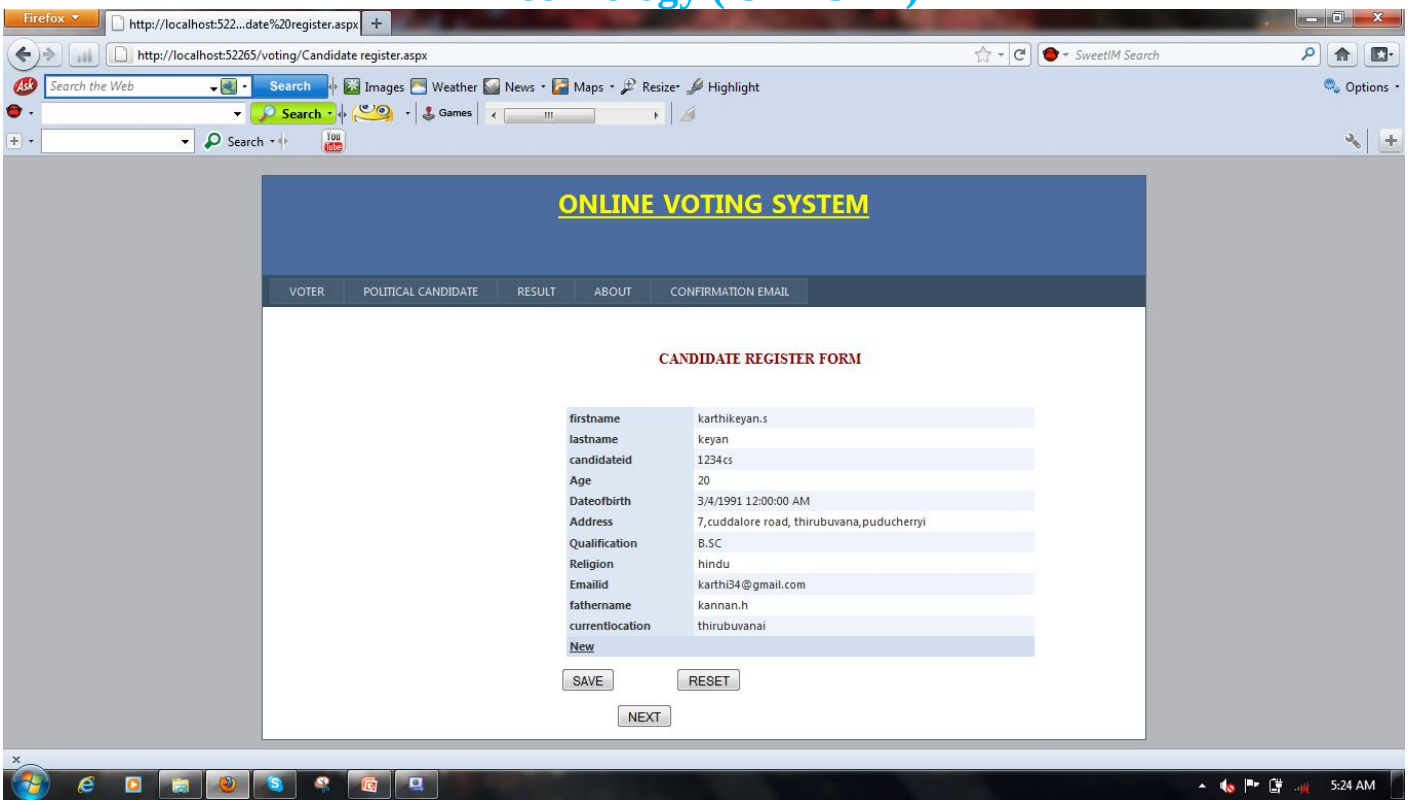


Fig4. Candidate Register Form

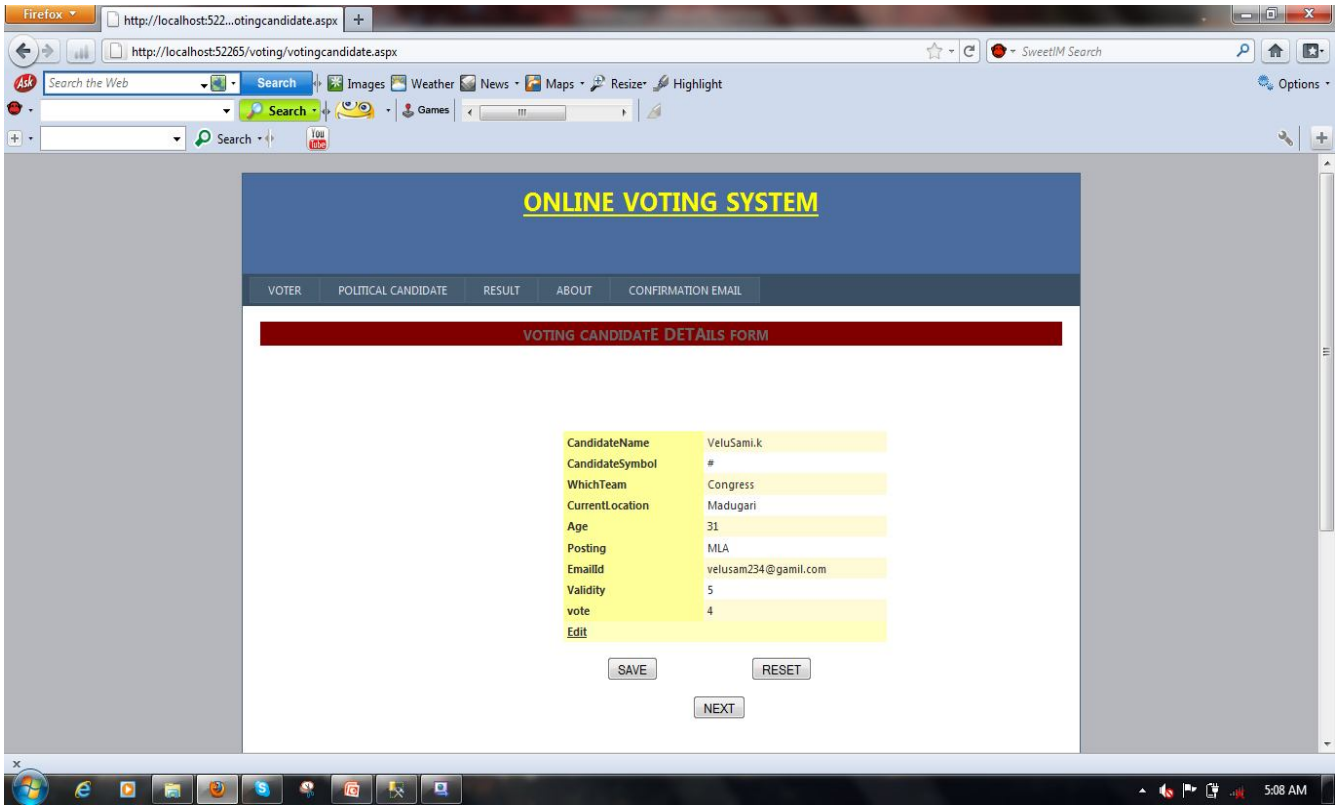


Fig5. Candidate Verification Form


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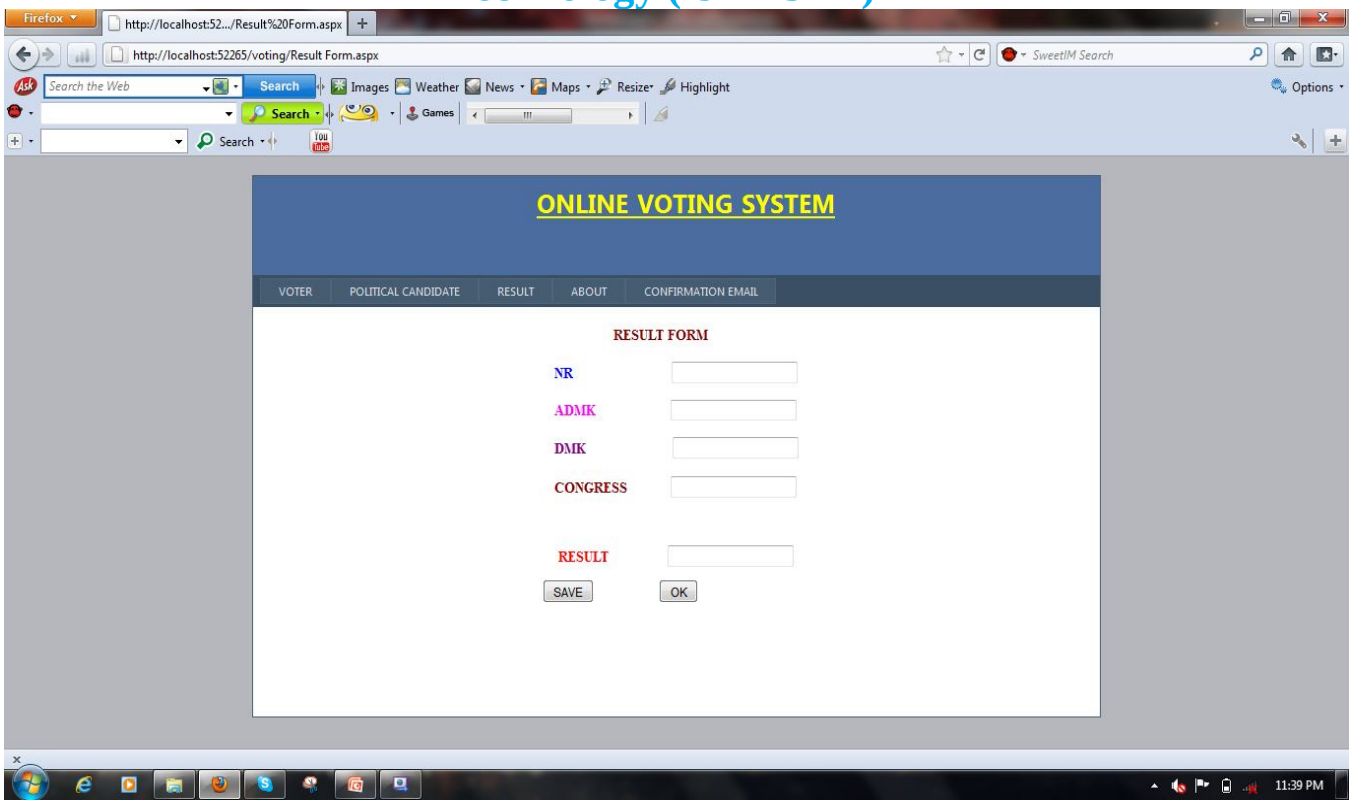



Fig6. Result Calculation Form

## VI. CONCLUSIONS

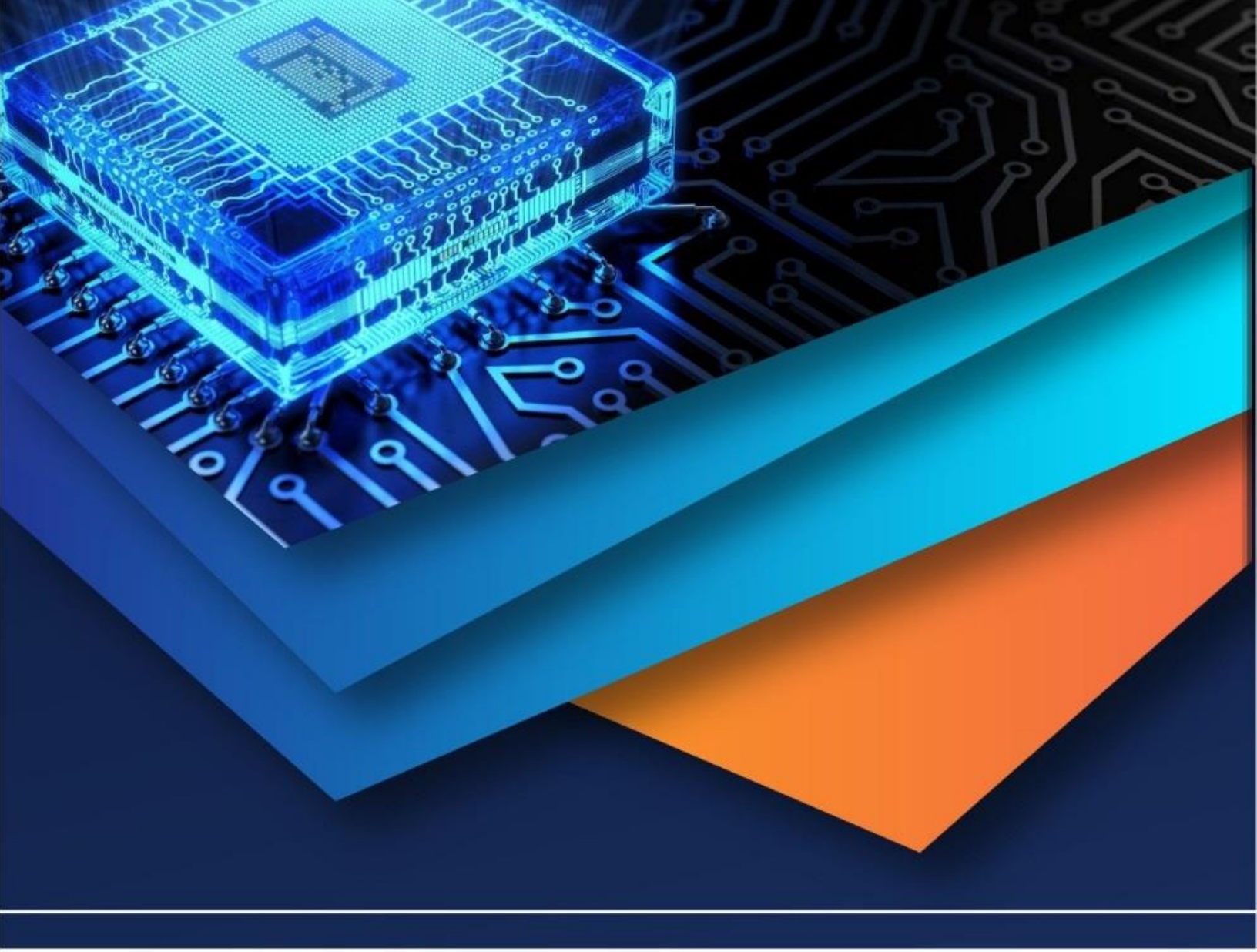
Generally voting has to be performs by user by going to the voting centre. Many users like army person or NRI cannot come to the voting place. Therefore we have to implement an online voting system by which the users can vote over the online.

The Online Election System provides high level of Security, Authentication, Reliability and Corruption free mechanism. There is a DATABASE which is maintained by the Election Commission of India in which all the names of voter with complete information is stored. The Online Voting system will manage the voter's information by which voter can login and use his voting rights. The system will incorporate all features of Voting system. By this we can get result within a hours after a completion of voting. It decrease the Cost and Time of voting process. It is very easy to use, less time consuming and easy to debug.

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