### Abstract

In online voting system people can cast their vote through the internet. In order to prevent voter frauds, we use two levels of security. A user id and password are used as thefirst level of security. The data entered by the user is verified with the contents of thedatabase, if the data is correct then the face of the voter is captured by a web camera andsent to the database. The web page is designed using ASP.NET .The ASP page is thenconnected to the Microsoft sql sever database. The ASP page is served from an IISserver.In the second level of security the face of the person is verified with the face present in the database and validated using matlab. The comparison of the two faces isdone using Eigen face recognition algorithm. The scheme is based on an information theory approach that decomposes faceimages into a small set of characteristic feature images called 'eigenfaces', which areactually the principal components of the initial training set of face images. Recognition is performed by projecting a new image into the subspace spanned by the eigenfaces ('facespace') and then classifying the face by comparing its position in the face space with the positions of the known individuals. Then the MATLAB coding is converted into a dll file by using a deploy tool present in the MATLAB. Then the dll file is used in the ASP.NET page to call thematlab program and display the result in the web page

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#### 1. INTRODUCTION

ONLINE VOTING SYSTEM" (OVS) is an online voting technique. In this system, people have been in an organization. Those who participate in the election can give his\her vote online without going to any physical polling station. There is a database is maintained in which all the names of voters with complete information are store.

There has a number of election observers who have suggested introducing electronic voting election processes. A general observation is that as more business is done using electronic mediums. It should not be difficult to carry out voting using electronic equipment. Rather than turning up at the polling place on voting day to use paper and pen.

The OVS under implementation mainly addresses the voting phase. Electronic voting using the OVS should be cheaper than the present paper-based arrangement. It has led to the claim that the Internet could be used as either a replacement to attendance voting. Throughout history, election fraud has occurred in many electoral processes.

### 2. LITERATURE SURVEY

There are lot of practices are made to introduce the variations in electronic and online voting systems where different techniques and methodologies are used. Some of them guarantees the confidentiality and security to the system at some extent, still the voting

information and process need to be control and manage with advanced systems that will ensures and guarantees the security and privacy of voter's and voter's information

#### 3. OBJECTIVE

Electronic voting systems may use electronic ballot to store votes in computer memory. When electronic ballots are used there is no risk of exhausting the supply of ballots. Additionally, these electronic ballots remove the need for printing of paper ballots, a significant cost.

#### 4. PROBLEM STATEMENT

The concept of election verifiability through cryptographic solutions has emerged in the academic literature to introduce transparency and trust in electronic voting systems. It allows voters and election observers to verify that votes have been recorded, tallied and declared correctly, in a manner independent from the hardware and software running the election. The systems that are developed to caste the vote by means of digital approach using online portals and electronic devices use various encryption and decryption techniques to guarantee the secure data transaction.

### 5. SYSTEM ARTITECTURE

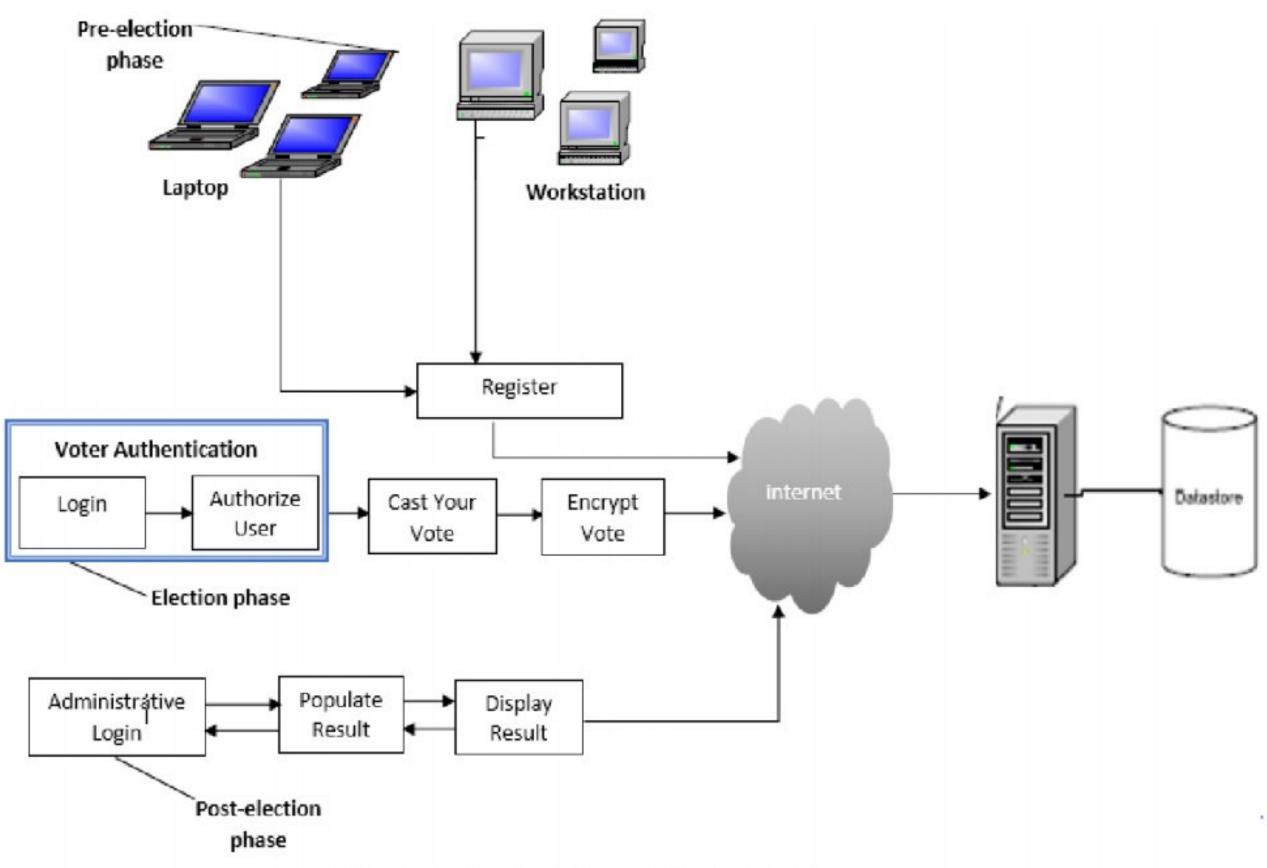
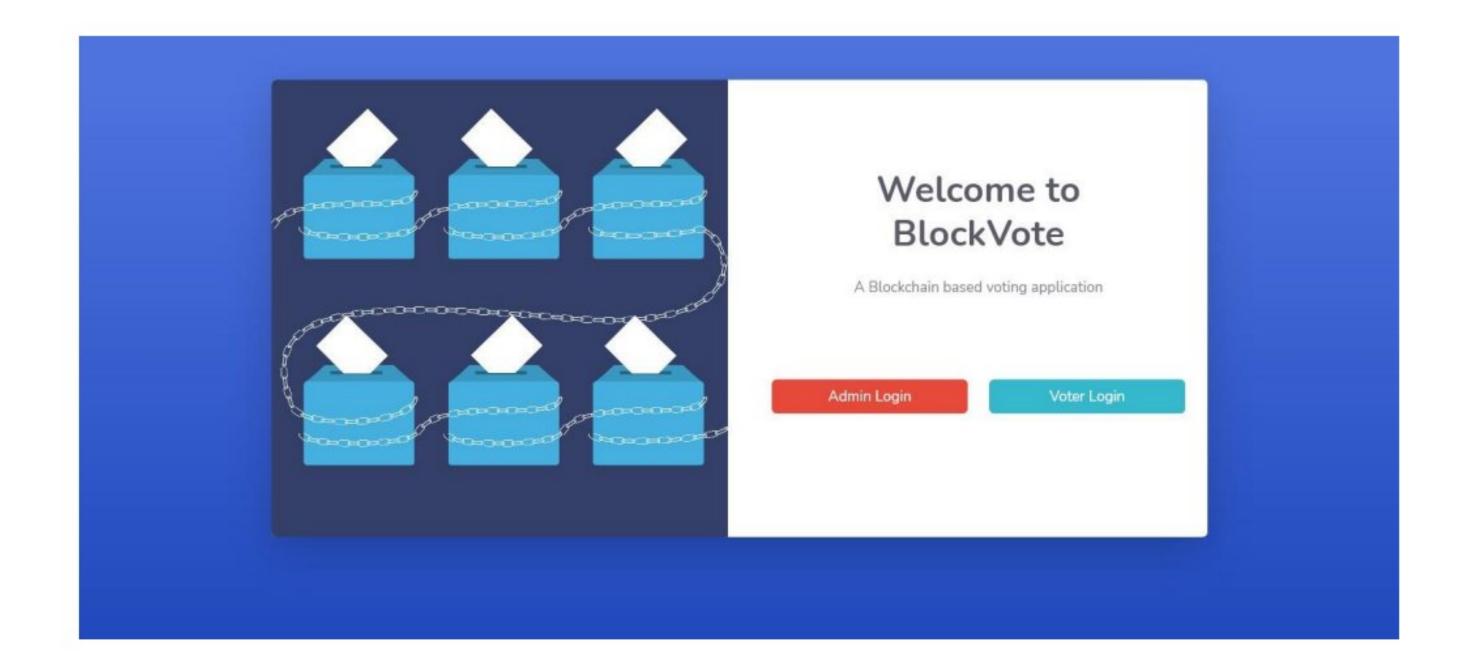


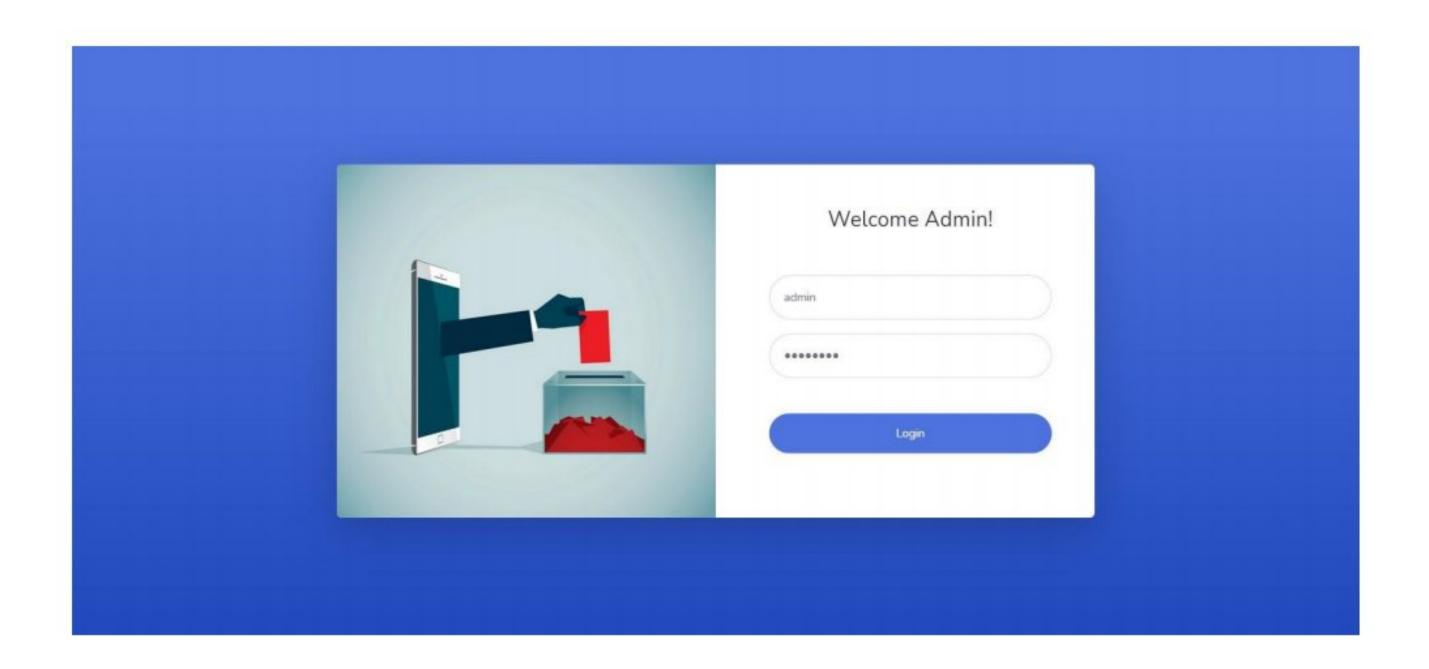
Figure 1. Architectural Design for the System

## 6. IMPLEMENTATION

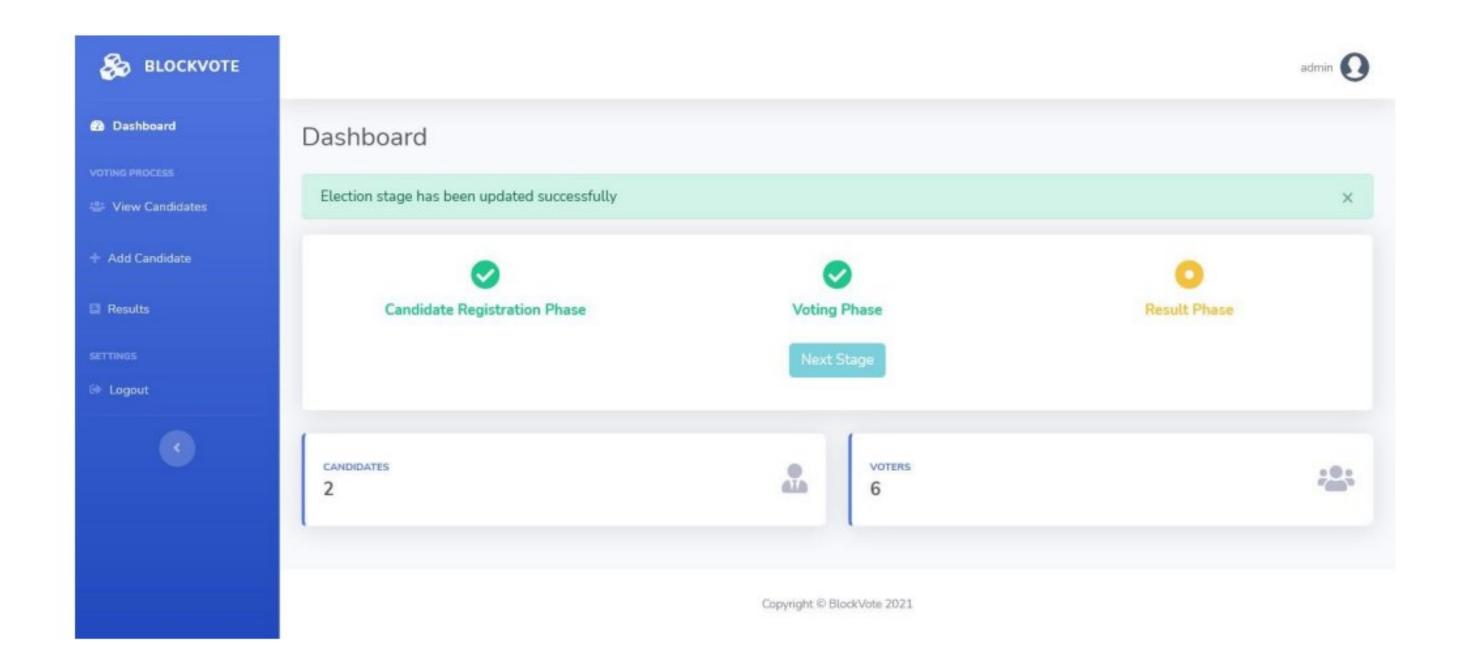
## **HOME PAGE**



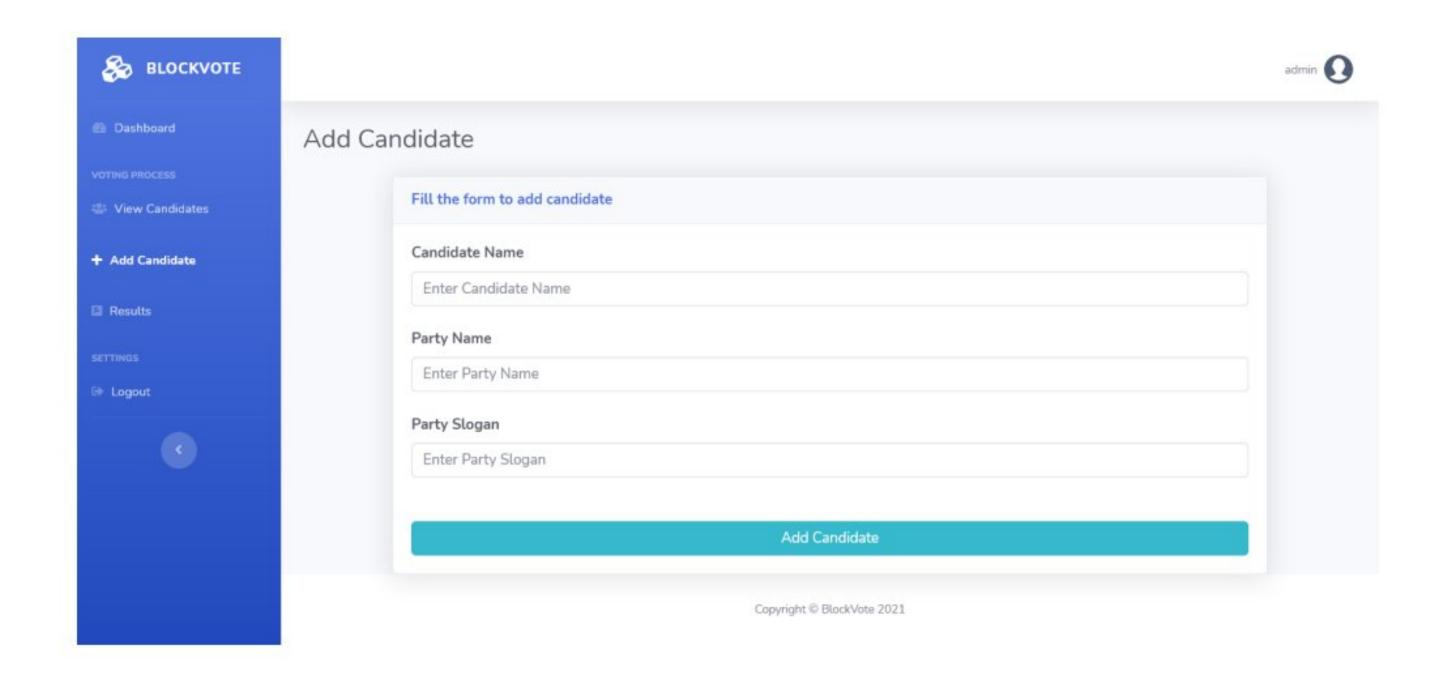
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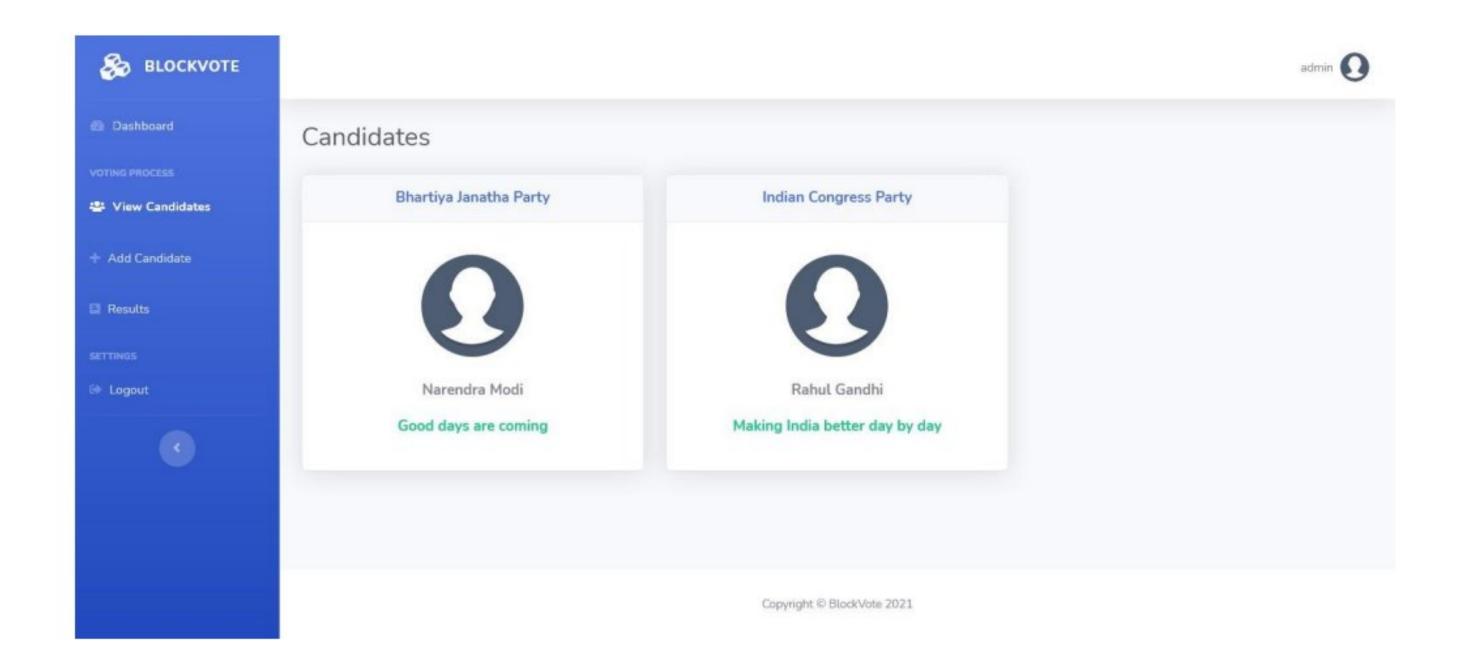
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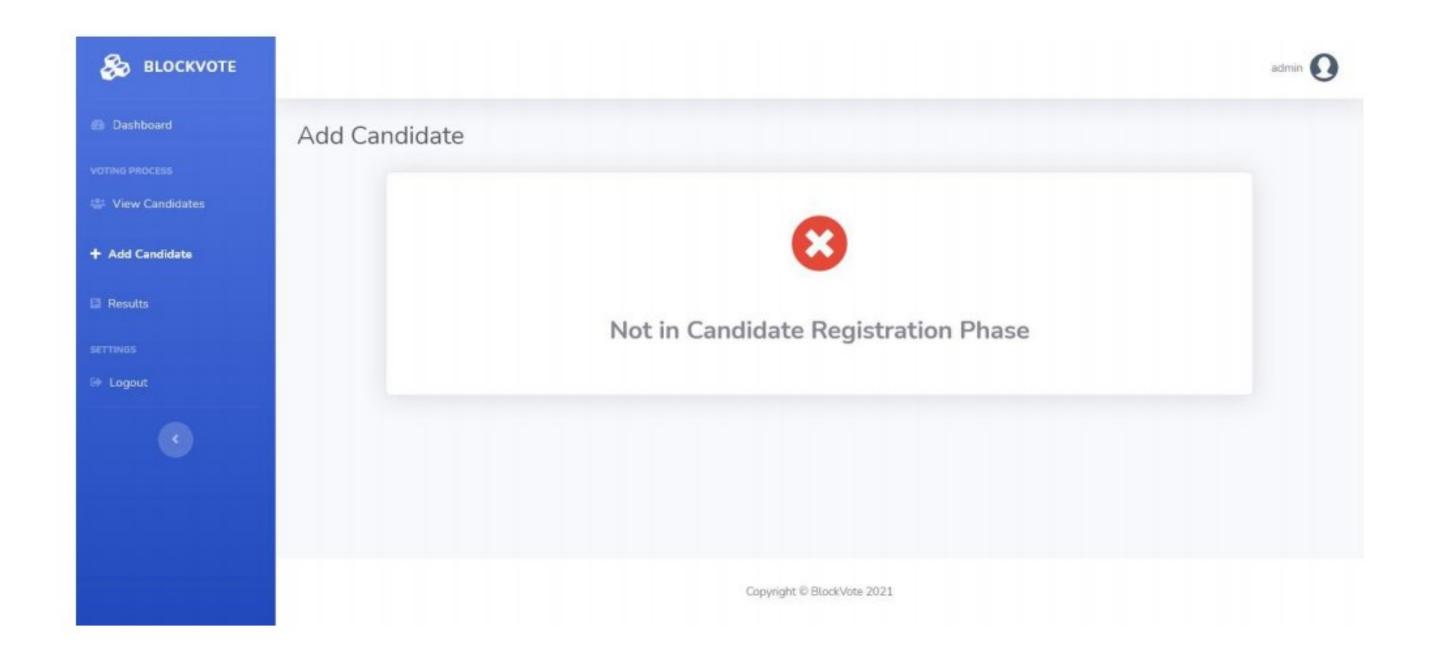
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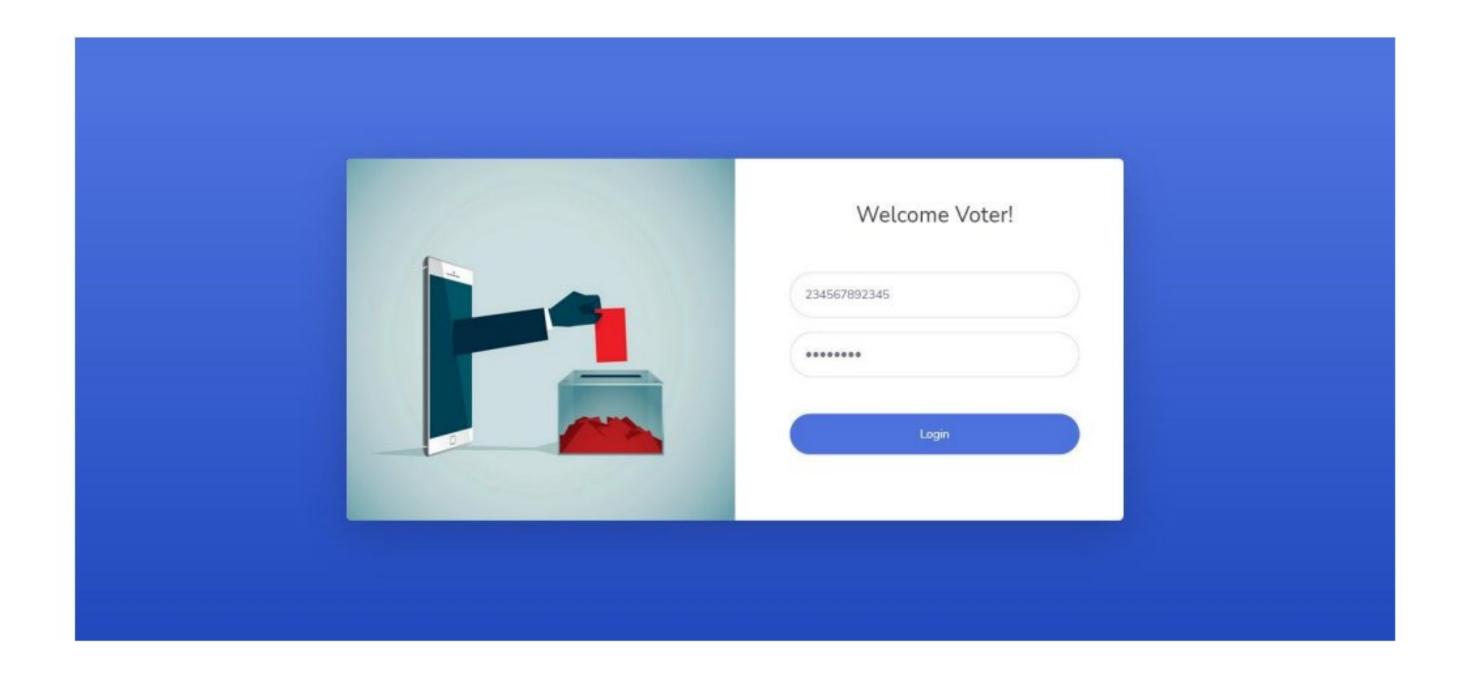
### **ADMIN: VIEW CANDIDATES**



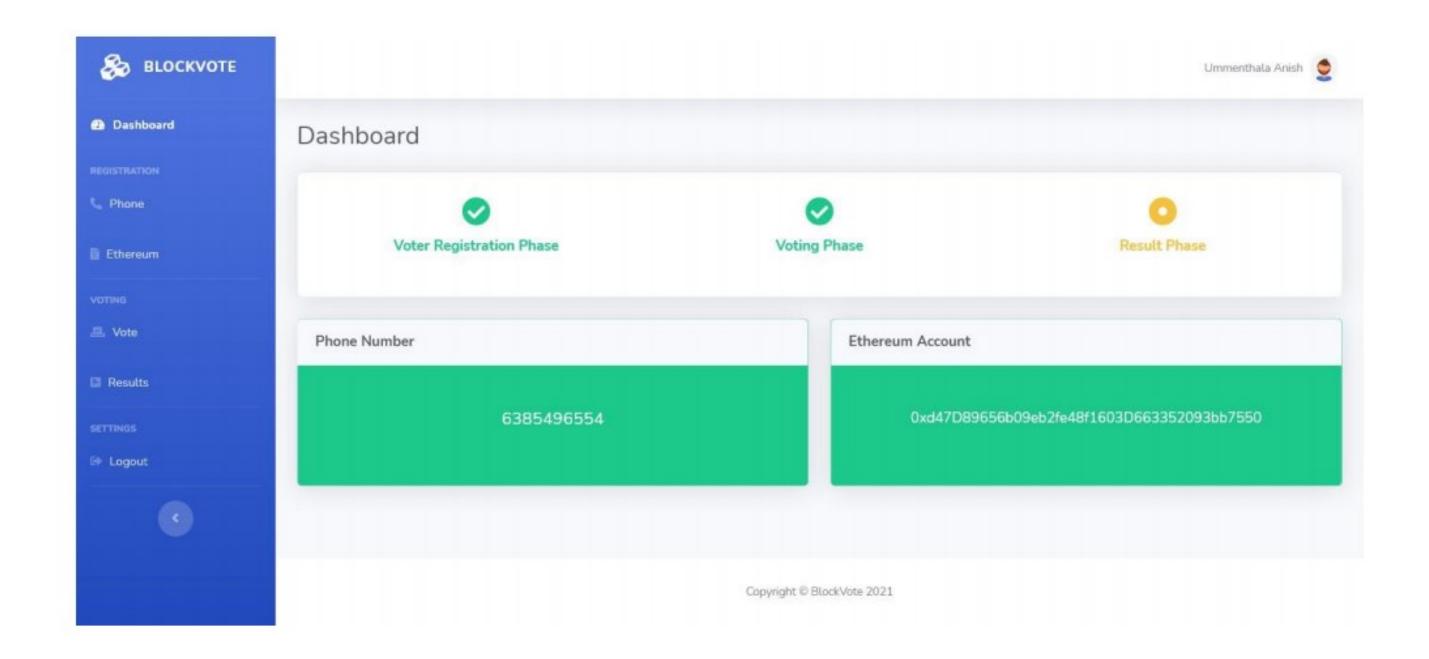
### ADMIN: ADD CANDIDATE ERROR



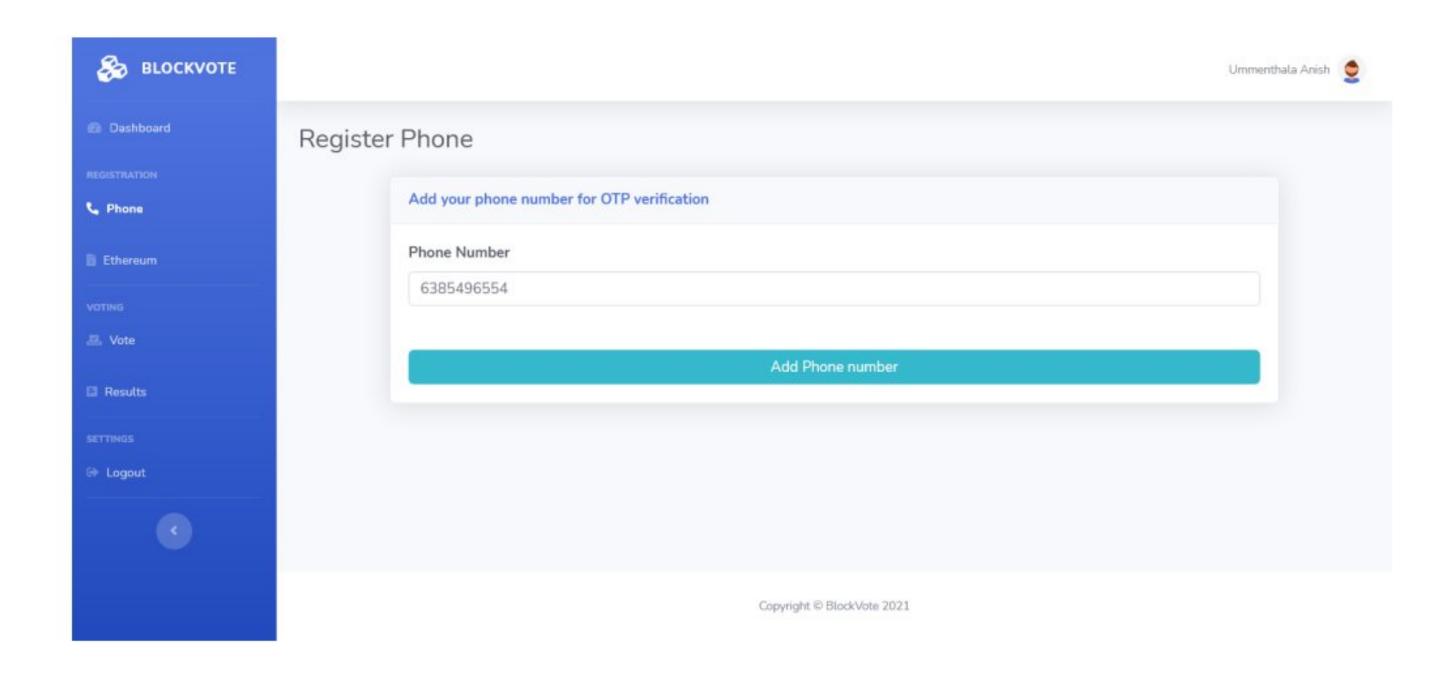
# **VOTER: LOGIN PAGE**



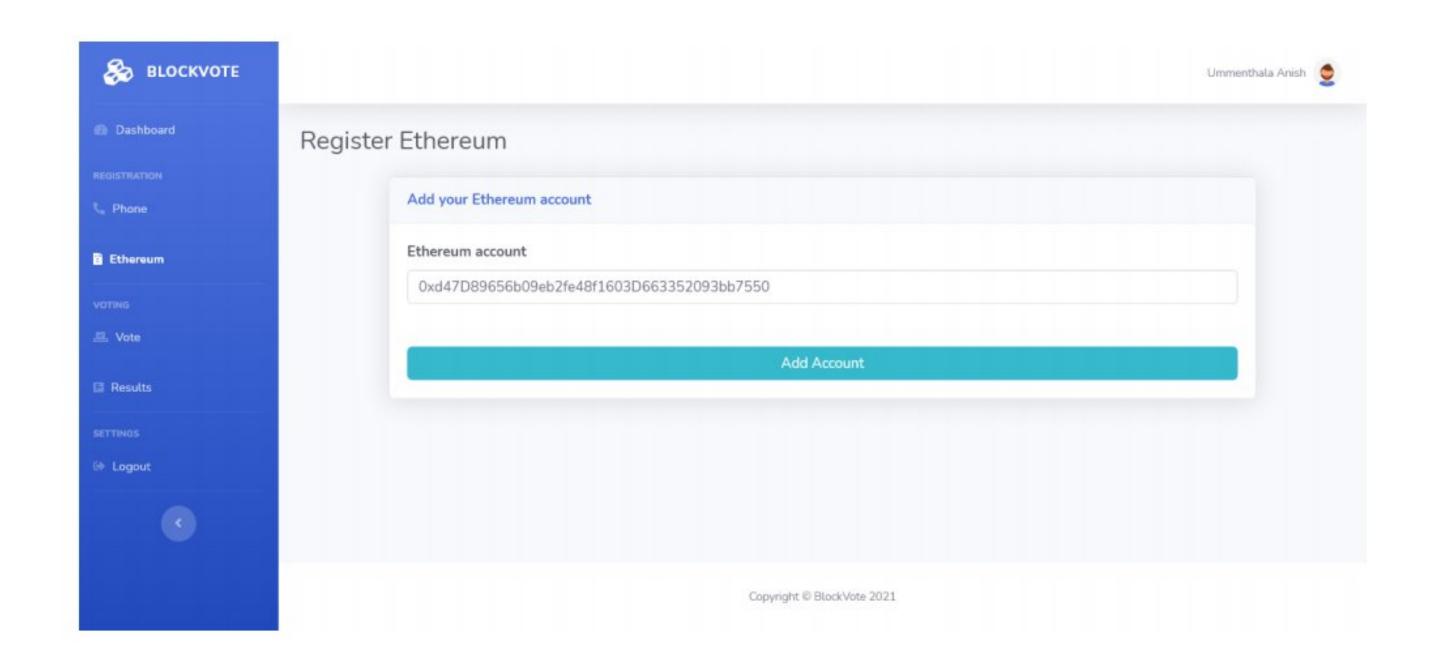
## **VOTER: DASHBOARD**



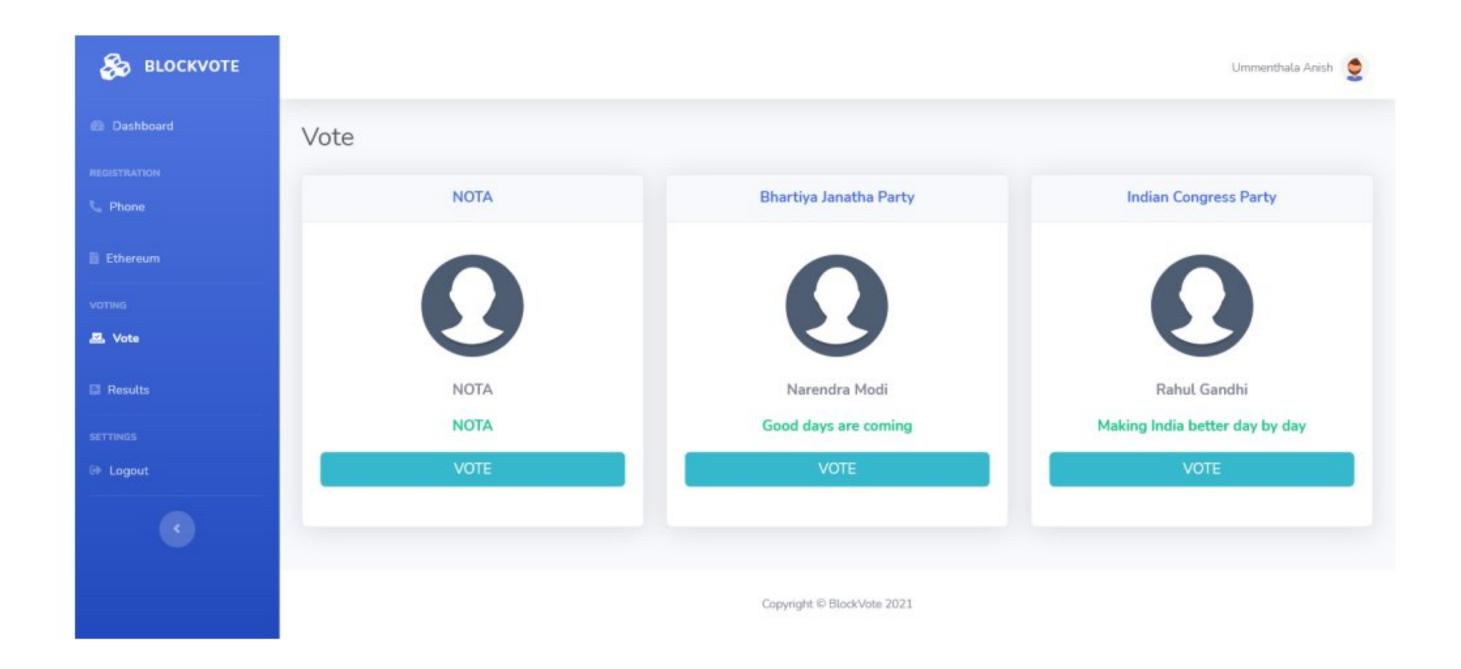
## **VOTER: PHONE NUMBER REGISTRATION**



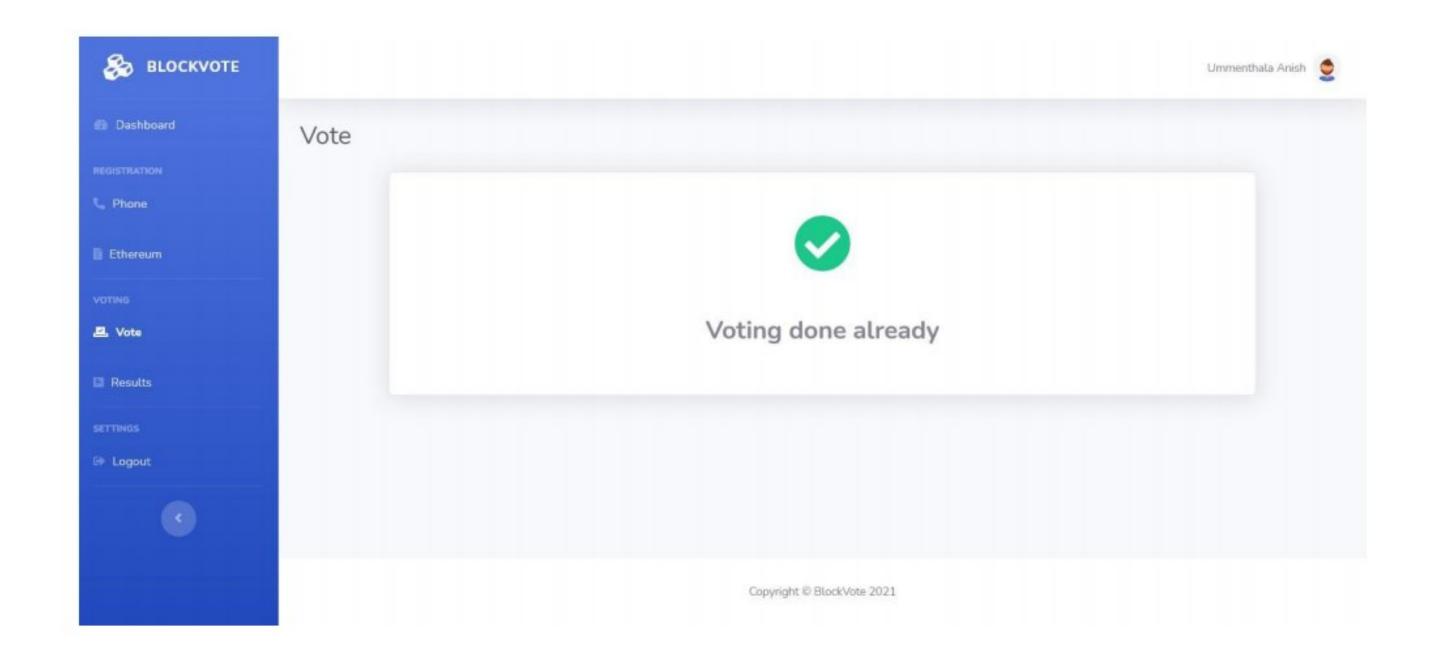
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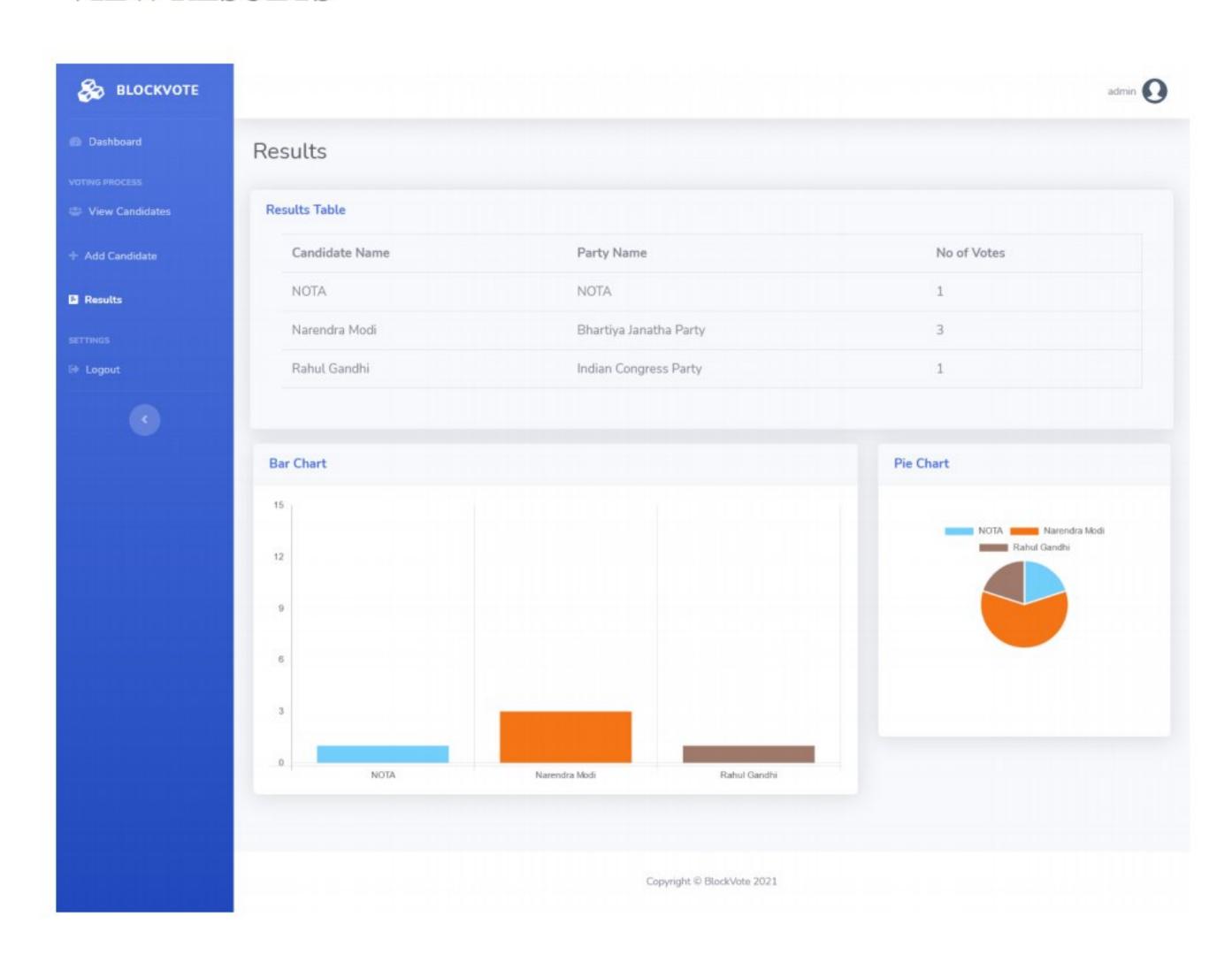
## **VOTER: VOTING**



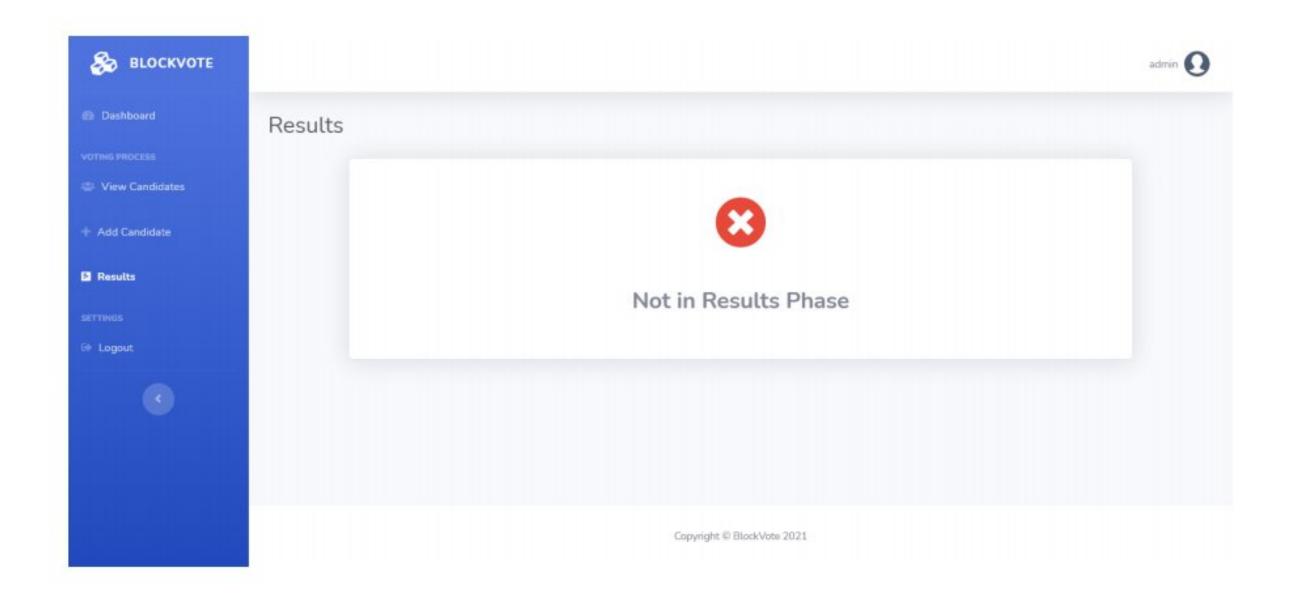
### **VOTER: VOTING ERROR PAGE**



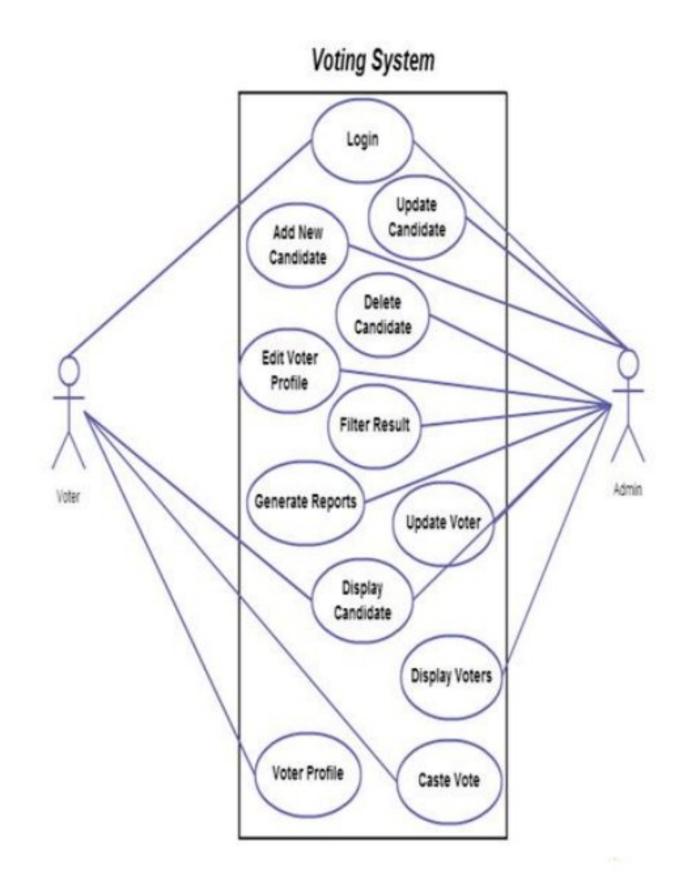
# **VIEW RESULTS**



## **RESULTS ERROR**



## 7. UML DIAGRAMS



### 8.CONCLUSION

In this work, we have seen various techniques and framework used for online voting. This article gives a short review on various methodologies that are used in current online voting. The paper will help to build a system that will face the present and upcoming challenges and will remove drawbacks from these previous architectures.

### 9. REFERENCES

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