

# Fingerprint Based Voting Project

Fingerprint Based Voting Project is a application where the user is recognized by his finger pattern. Since the finger pattern of each human being is different, the voter can be easily authenticated. The system allow the voter to vote through his fingerprint. Finger print is used to uniquely identify the user. The finger print minutiae features are different for each human being. Finger print is used as a authentication of the voters. Voter can vote the candidate only once, the system will not allow the candidate to vote for the second time. The system will allow admin to add the candidate name and candidate photo who are nominated for the election. Admin only has the right to add candidate name and photo who are nominated. Admin will register the voters name by verifying voter. Admin will authenticate the user by verifying the user's identity proof and then admin will register the voter. The number of candidate added to the system by the admin will be automatically deleted after the completion of the election. Admin has to add the date when the election going to end. Once the user has got the user id and password from the admin the user can login and vote for the candidate who are nominated. The system will allow the user to vote for only one candidate. The system will allow the user to vote for one time for a particular election. Admin can add any number of candidates when the new election will be announced. Admin can view the election result by using the election id. Even user can view the election result.

## Features

- **Login:** - This module enables the user and admin to login to the system by entering id and password.
- **Registration:** - In this module the admin will verify the user and register the user who will vote.
- **Fingerprint Verification:** - The authenticated user can vote for the candidate for one time for a particular election.
- **New Candidate:-** Admin will add the number of candidates nominated for Election whenever new election is announced.

- **Result:** - Admin and user can view the election result by using the election id once the election results are out.

### **Software Requirements:**

- Windows Xp, Windows 7(ultimate, enterprise)
- Sql 2008
- Visual studio 2010

### **Hardware Components:**

- Processor – i3
- Hard Disk – 5 GB
- Memory – 1GB RAM

### **Advantages:**

- The system will not allow the voter to vote two or more candidates.
- The system will allow the user to vote for one time for a particular election.
- The system will authenticate the user through his fingerprint so the user is uniquely identified.

### **Disadvantages:**

- If the voters finger pattern has some cut or got damaged the system might not recognize the user.

### **Applications:**

The system can be used in various areas where election will be held.

### **Reference**

- <http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=7073090&search=true&queryText=fingerprint%20voting>
- <http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=6113931&search=true&queryText=fingerprint%20voting>