**Project Topic:**

***Biometric***

***Authentication***

***Based Voting***

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**Biometric Authentication Based Voting**

**Introduction:**

The Project is developed for the threat free and user oriented Online Voting System. The Online Voting system is made for the people of the country residing around the world and wants to vote for their representative. The election can be conducted in two ways the paper ballot election and the automated ballot elections. The automated ballot elections are called the electronic voting. The online voting system is highly developed and the online polling system can be replaced by accurately and directly voting online and immediate results. The online voting system is done by the internet so it can be called the Internet Voting. Fingerprint verification refers to authenticity of a person by his fingerprint. The user provides fingerprint together with identity information. In the verification process template is retrieved based on the identification provided and matching is performed. Fingerprints based upon the unspecified conditions. In the identification of fingerprint, the process matches fingerprints with the fingerprint database for similarity .Here the authentication takes place using image of finger print.

**Modules:**

**Admin:**

* Login
* View registration request & accept/reject
* View nomination request & accept/reject
* View nomination withdrawal & accept/reject
* Post laws and details
* Add election
* Announce result
* Remove candidate

**Public:**

* View laws and details
* Registration
* View result

**User:**

* Login
* Submit nomination
* View candidate list
* Cast vote
* View result
* View election manifesto

**Candidate:**

* Login
* Post-election manifesto
* Withdraw nomination

**EXISTING SYSTEM**

Now a days only few people go for voting because of their tight schedule. There are many reasons, few may be everyone has to go to voting centre, we have to stand in a long queue. So we have developed online voting system. Consider an online polling system for corporate companies, polling is happening once in a year to elect the president or secretary or key directors of the company. At present system all the votes are has to assemble at one place on polling day and put their vote.

**PROPOSED SYSTEM**

The existing system has some disadvantage-everyone has to go to voting centre, stand in a long queue. Other disadvantage is phishing attackers directly get the passwords from the user and they enter into the relevant web sites with correct password. The online polling system is implemented to overcome these disadvantages. The online polling system includes management module that includes the activities – voting notification, voter registration, candidate nomination, withdraw nomination, voting process, result publishing etc. In this management module admin can give notification about voting, register voters in the company, approve nominations from the candidates according to their qualification, approve withdrawal requests from nominees and publish result. Voter can view notifications, generate password for secure polling, give nominations, and view result. Online transactions are nowadays become very common and there are various attacks present behind this. In these types of various attacks, phishing is identified as a major security threat and new innovative ideas are arising with this in each second so preventive mechanism should also be so effective.

**Hardware Specification**

The selection of hardware is very important in the existence and proper working of any of the software. When selecting hardware, the size and capacity requirements are also important. The hardware must suit all application developments**.**

Processor : Pentium IV or above.

System Bus : 32Bit

RAM : 512 or more

HDD : 40 GB or more

Monitor : 17” LCD

Key Board : 108 Keys

Mouse : any type of mouse

Mobile : Android supported mobile phone

**Software specification**

One of the most difficult tasks is selecting software, once the system requirement is find out then we have to determine whether a particular software package fits for those system requirements. This section summarizes the application requirement.

Operating System : Windows XP / 7 or Any 32 bit or 64 bit platform

Front End : python, Android

Back End : Mysql

IDE : pycharm

: Eclipse

**ADVANTAGES**

* In comparison to the present system the proposed system will be less time consuming and more efficient
* Analysis will be very easy in proposed system as it is automated
* Result will be very precise and accurate
* The data are stored in a database and can be back up for future use
* User cannot attempt to make fake votes

**DISADVANTAGES:**

* The current system is very time consuming
* It is very difficult to analyse
* Results are not precise are done manually
* Less man power required