**SYNOPSIS**

The project “**ONLINE VOTING SYSTEM FOR COLLEGE**” is designed using Microsoft ASP.Net as front end and MS-SQL Server 2000 as back end. The coding language used is VB.Net. The .Net framework used is 2.0

Traditional voting systems should be computerized to reduce the vote counting time, to provide evidence that a vote is being correctly accounted, to reduce fraud, remove errors in filling out ballots, to improve system usability for people with special needs.

E-voting increasingly replacing traditional paper based systems. This raises several security issues, given that democratic principles depend on the electoral process’s integrity. An electronic voting system must ensure the voter i.e., student’s authenticity, anonymity. It must also ensure audit ability in a software or hardware environment that could malfunction.

In this System, the voting for college management authorities is carried out. Here the fingerprints of all students and details are stored before the election. The voters/students have to register their fingerprints on the day of election through online; this will be compared with the already stored prints. If both matches their votes will be taken in to the account and if not their vote will be discarded.

So no one can vote for others this will reduce the illegal votes. Student can view all the nominees in their district with their corresponding party symbols. They can also view how many votes are registered before they are going to register their votes, this may be useful to know the leading result.

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**SYSTEM ENVIRONMENT**

#### HARDWARE SPECIFICATION

This section gives the details and specification of the hardware on which the system is expected to work,

**Processor**  : Pentium IV 1.7 GHz

**Hard Disk Capacity**  : 80 GB

**RAM**  : 1 GB

**Monitor**  : 15’’ Color

**Keyboard**  : 102 keys

**Mouse**  : 3 buttons

**SOFTWARE SPECIFICATION**

This section gives the details of the software that are used for the development,

**Environment**  : Visual Studio .Net 2005

**Front-End** : ASP.Net

**Back-End** : MS SQL Server 2000

**Operating System** : Windows 7

**Browser** : Mozilla Firefox

SYSTEM ANALYSIS

* 1. **EXISTING SYSTEM**

Security involving communications and networks is not as simple as it might first appear to the novice. The requirements for security services a can be given self-explanatory one word labels: confidentiality, authentication, no repudiation, integrity. But the mechanisms used to meet those requirements can be quite complex and understanding them may involve rather subtle reasoning.

In developing a particular security mechanism or algorithm one must always consider potential countermeasures. In many cases, countermeasures are designed by looking at the problem in a completely different way.

Because of point 2, the procedures used to provide particular services are often counterintuitive: It is not obvious form the statement of a particular requirement that such elaborate measures are needed. It is only when the various countermeasures are considered that the measures used make sense.

Having designed various security mechanisms, it is necessary to decide where to use them. This is true both in terms of physical placement and in a logical sense. If the proper functioning of the security mechanism requires setting time limits of the transit time of a message form sender to receiver, they may protocol or networks security service and mechanism can be seemed. In existing system, the students need to paper vote for college management authorities selection.

**DRAWBACKS OF EXISTING SYSTEM**

No security measures are provided in the existing voting system and manual database is not more effective.

Voter has come to their native place to vote.

Centralized data base is not available in existing system.

Counting the vote is tedious and time consuming.

More number of print outs need to be taken.

Theft of papers is possible.

**PROPOSED SYSTEM**

The project is to implement the electronic voting system using finger print image authentication. In this, fingerprint image is selected during student/voter registration. Then it will be used for substantiation and to monitor the presence of a person. There will be a central data repository with all finger print scan where mapping will be made for verification to vote for the particular ID number.

**ADVANTAGES OF PROPOSED SYSTEM:**

Fingerprints are processed through the image data comparison system. The fingerprints are submitted by uploading and converted as byte array which is checked with voter finger print image already present in the database.

1. The security is more in the proposed system.
2. Remote voting is possible and so students can make vote from any system.
3. Consolidated reports are viewed whenever required.
4. Easy to use options are provided in the web page and giving input is fast.
5. Centralized data base is available in proposed system.
6. Counting the vote is less time consuming.
7. Print outs need not be taken.
8. Theft of papers is not possible.