

“A REVIEW ON PROPOSED E-VOTING SYSTEM”

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ABSTRACT: *E-Voting is a fully web based voting software solution based on network security. With the access control capabilities and the reliability, the network security has tremendously increased in providing authenticity and security. The present system conducts the elections manually, which takes lot of effort for conducting, maintaining and evaluating the voting process. This Automation helps in overcoming all the above mentioned problems and also helps in avoiding any kind of tempering that can be done. Rather than employing expensive consultants to print and mail paper ballots or setup and manage your elections, E-Voting puts the power of online voting in the hands of election administrators. This project makes use of Java Servlets which provides a Java-based solution used to address the problems currently associated with doing server-side programming. Servlets are objects that conform to a specific interface that can be plugged into a Java-based server. Servlets are to the server-side what applets are to the client-side. Security is provided by RSA algorithm which is an ASSYMETRIC cryptographic algorithm with a pair of keys used for encryption and decryption.*

1. PRESENT SYSTEM

Presently elections are being conducted with electronic voting machines, which have revolutionized election conducting process in the last decade.

2. FEATURES OF ELECTRONIC VOING MACHINE

- An Electronic Voting Machine consists of two Units – a Control Unit and a Balloting Unit – joined by a five-meter cable.
- The Control Unit is with the Presiding Officer or a Polling Officer and the Balloting Unit is placed inside the voting compartment.
- Instead of issuing a ballot paper, the Polling Officer in-charge of the Control Unit will press the Ballot Button.
- This will enable the voter to cast his vote by pressing the blue button on the Balloting Unit against the candidate and symbol of his choice

3. PROPOSED SYSTEM:

We speak of electronic voting when casting of votes is carried out by the voter directly by electronic means, thus obtaining an end to end digital vote .The use of paper and other physical systems is optional and auxiliary.

The proposed system is a fully web based voting software solution which makes efficient use of the developments in both Information Technology and Network Security. With the access control capabilities and the reliability, the Network Security has tremendously increased in providing authenticity and security.

Modules:

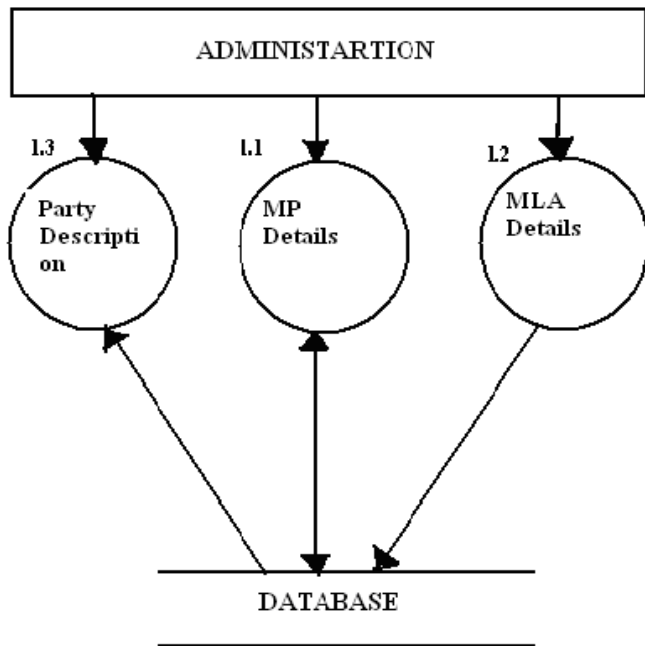
It consists of 3 modules:

- Administrator
- Voter
- Visitor

3.1 Admin Module

Administrator can perform various operations like enter party description, parliament participant’s details and assembly participants details Admin will maintain all the end users details residing in all the divisions and villages.

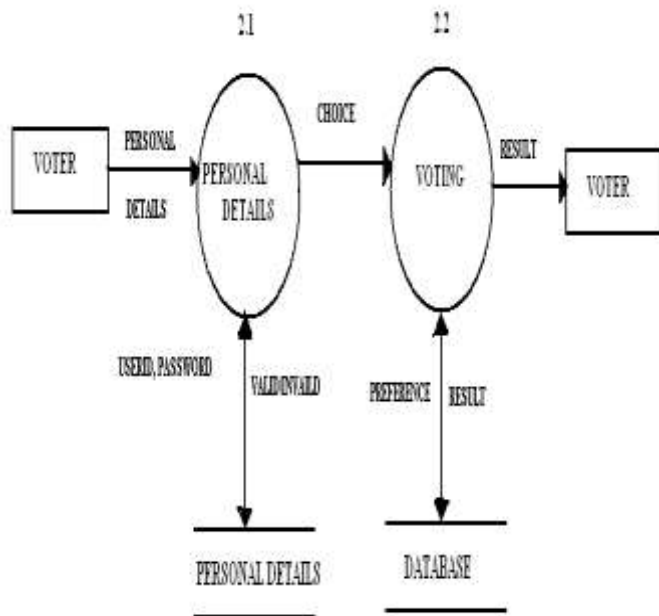
3.2 DFD for Admin



3.3 Voter Module

When the voter enters the proper URL he can view all the data but he cannot edit anything. Only he can register and vote the participants. Voters can vote to the participants only once, they are not allowed to vote to the participants second time.

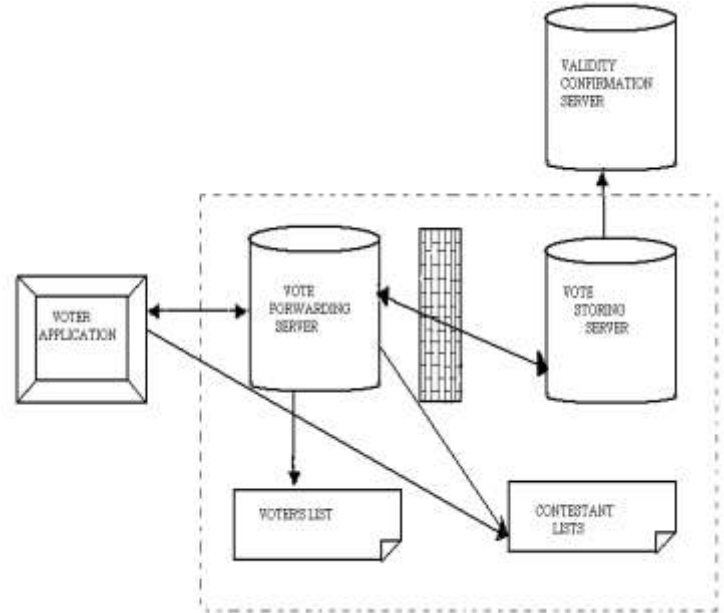
3.4 DFD for Voter



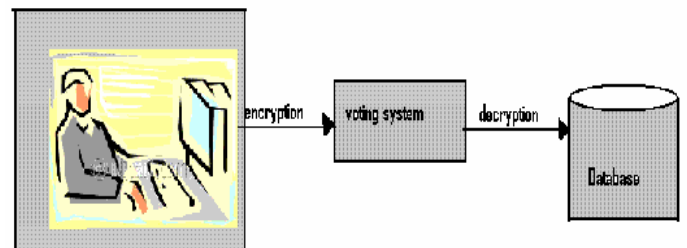
3.5 Visitor Module

Users can see the total number of parties, MP details and MLA details. They can see party agenda and leaders messages. First users have to apply for the NSSL id. Based on the NSSL id users can apply for the voter id.

4. ARCHITECTURE OF VOTING SYSTEM



5. NETWORK DIAGRAM:



6. CONCLUSION

This "ONLINE E-VOTING SYSTEM" has been developed successfully and tested with the sample client connections, from different systems. The benefits of this system are considerable. It is observed that the users are able to use the system easily. As all the users are provided with the information required by them in GUI so the user with minimum basic knowledge about the computer can be able to operate the system easily. The users can obtain the required information with ease and accuracy from the system. Various validation techniques are used to implement for the accuracy of data for the user. Since the System can be used by authorized user only, a level of security is provided.

7. REFERENCES

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