

# **NITC ONLINE Voting System**

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## **ABSTRACT**

### **Resources Required:-**

**Development Tool:-** PHP

**Database-** My Sql

**Server-** WAMP Server

### **INTRODUCTION:-**

“ONLINE VOTING SYSTEM” is an online voting technique. It is based on the other online services like “ONLINE RESERVATION SYSTEM” .In this system Student Who Have EMAIL/Id Password Or Registered in Collage can give his\her vote online without going to any polling booth. There is a DATABASE which is maintained in which all the names of Student with complete information is stored.

### **SCOPE:-**

- This system will increase the voting percentage of Collage.
- If high security is applied then it may reduce false vote.

### **WORKING:-**

In “ONLINE VOTING SYSTEM” a voter can use his\her voting right online without any difficulty. He\She has to fill a registration form to register himself\herself. All the entries is checked by the DATABASE which has already all information about the voter. If all the entries are correct then a USER ID and PASSWORD is given to the voter, by using that ID and PASSWORD he\she can use his\her vote. If conditions are wrong then that entry will be discarded.

## **INTRODUCTION**

### **1.1 Purpose**

In “NITC ONLINE VOTING SYSTEM” a voter can use his\her voting right online without any difficulty. He\She has to fill a registration form to register himself\herself. All the entries is checked by the DATABASE which has already all information about the voter. If all the entries are correct then a USER ID and PASSWORD is given to the voter, by using that ID and PASSWORD he\she can use his\her vote. If conditions are wrong then that entry will be discarded.

### **1.2 Scope**

The scope of the project that is hosted on the server. There is a DATABASE which is maintained Properly in which all the names of Student with complete information is stored.

### **1.3 Technologies to be used**

This project will be a Web application to be developed in PHP having

- Database Design (My SQL)
- Form Design (HTML 4.0)
- Coding (PHP)
- Testing (WAMP SERVER)
- Reporting Tool (Data Report)

## 1.4 Overview

- ✓ Project is related to NITC Online Voting System.
- ✓ The project maintains two levels of users:-
  - Administrator Level
  - Voter Level
- ✓ Main facilities available in this project are:-
  - Maintaining voter's Identification.
  - Providing online voting management.
  - Providing Updation of voter's information.
  - Voter can give his\her vote from any part of Collage

## 2.2 Background

NITC ONLINE VOTING SYSTEM is a voting system by which any Voter can use his\her voting rights from any where wether it is in collage or Hostel. ONLINE VOTING SYSTEM contains:-

- Student information in database.
- Student Names with ID.
- Student vote in a database.
- Calculation of total number of votes..

## 2.3 Project Requirements

### Hardware Requirements (*Processor RAM Disk Space*)

Minimum \$GB of RAM

### Software Requirements (*Operating System Database*)

Windows 10, Linux, My SQL

## 2.4 User Characteristics

Every user should be:

- ✓ Comfortable with Internet Browser.
- ✓ He must have brief knowledge of voting system.
- ✓ He must also have basic knowledge of English too.

## 2.5 Constraints

- ✓ GUI is only in English.
- ✓ Login and password is used for identification of Voter.

## 2.6 Definitions of problems

- **Not User Friendly:** The existing system is not user friendly because the retrieval of data is very slow and data is not maintained efficiently.
- **Difficulty in report generating:** We require more calculations to generate the final result so it is generated at the end of the session. And the voter not get a single chance to change his\her vote.
- **Time consuming:** Every work is done manually so we cannot generate report in the middle of the session or as per the requirement because it is very time consuming.

## 3.1 Technical feasibility

A study of resource availability that may affect the ability to achieve an acceptable system. This evaluation determines whether the technology needed for the proposed system is available or not.

- Can the work for the project be done with current equipment existing software technology & available personal?
  - Can the system be upgraded if developed?
  - If new technology is needed then what can be developed?
  -
- 
- This is concerned with specifying equipment and software that will successfully satisfy the user requirement. The technical needs of the system may include:

### Front-end and back-end selection

An important issue for the development of a project is the selection of suitable front-end and back-end. When we decided to develop the project we went through an extensive study to determine the most suitable platform that suits the needs of the organization as well as helps in development of the project.

The aspects of our study included the following factors.

**Front-end selection:**

1. It must have a GUI that assists employees that are not from IT background.
2. Scalability and extensibility.
3. Flexibility.
4. Robustness.
5. According to the organization requirement and the culture.
6. Must provide excellent reporting features with good printing support.
7. Platform independent.
8. Easy to debug and maintain.
9. Event driven programming facility.
10. Front end must support some popular back end like Ms Access.

According to the above stated features we selected PHP as the front-end for developing our project.

**Back-end Selection:**

1. Multiple user support.
2. Efficient data handling.
3. Provide inherent features for security.
4. Efficient data retrieval and maintenance.
5. Stored procedures.
6. Popularity.
7. Operating System compatible.
8. Easy to install
9. Various drivers must be available.
10. Easy to implant with the Front-end.

According to above stated features we selected MY SQL as the backend.

The technical feasibility is frequently the most difficult area encountered at this stage. It is essential that the process of analysis and definition be conducted in parallel with an assessment to technical feasibility. It centers on the existing computer system and to what extent it can support the proposed system.

**3.2 Economical feasibility**

Economic justification is generally the “Bottom Line” consideration for most systems. Economic justification includes a broad range of concerns that includes cost benefit analysis. In this we

weight the cost and the benefits associated with the candidate system and if it suits the basic purpose of the organization i.e. profit making, the project is making to the analysis and design phase.

The financial and the economic questions during the preliminary investigation are verified to estimate the following:

- The cost to conduct a full system investigation.
  - The cost of hardware and software for the class of application being considered.
  - The benefits in the form of reduced cost.
- 
- The proposed system will give the minute information, as a result the performance is improved
  - This feasibility checks whether the system can be developed with the available funds. The **Online voting system** does not require enormous amount of money to be developed. This can be done economically if planned judiciously, so it is economically feasible. The cost of project depends upon the number of man-hours required.

### 3.3 Operational Feasibility

It is mainly related to human organizations and political aspects. The points to be considered are:

- What changes will be brought with the system?
  - What organization structures are disturbed?
- 
- What new skills will be required? Do the existing staff members have these skills? If not, can they be trained in due course of time?

The system is operationally feasible as it very easy for the End users to operate it. It only needs basic information about Windows platform.

Time evaluation is the most important consideration in the development of project. The time schedule required for the developed of this project is very important since more development time effect machine time, cost and cause delay in the development of other systems.

A reliable **Online voting system** can be developed in the considerable amount of time

## **4.1 Software Requirement Specification**

### **4.1.1 Objective:**

The main objectives of system for ***Online voting system*** are:

- The objective of **Online voting system** is to help the organization in automating the whole manual processing of the existing system.
- The main objective to develop the system is to make the accurate & efficient decisions in different tasks at different time at different situations. The existing system is manual so members of the unit generally face a lot of embarrassing situations many times. Now they need to automate the whole process so as to make it more easy and accurate.
- System should support multi-user environment.
- System should be fully automated.
- System should provide concrete security features like creating users and assigning privileges to users of the system.
- System should be capable to keep track of all the detailed descriptions of the client and the whole details of services offered by the client organization.
- Various outputs (reports) should be available online any time.
- System should be able to handle extremely large volumes of data

### **4.1.2 Scope:-**

1. **Advanced technology**- It is an advanced technology used now a days. It increases the E knowledge of the users which is very necessary for current generation.
2. **Internet**: It is an online facility and hence very useful for the users.

### **4.1.3 Advantages:**

- Fast and easy service.
- The online voting system provides a less time consuming .

- It is a better way for voting.
  - By this voting percentage will increase drastically.
- Voter has no need to go to any polling booth ,so it is easy to use.

#### **4.1.4 Technologies to be used:-**

This project will be a Web application to be developed in PHP having

- Database Design (My SQL)
- Form Design (HTML 4.0)
- Coding (PHP)
- Testing (XAMP SERVER)
- Reporting Tool (Data Report)

### **2.1.5 OVERVIEW:**

#### **1. Requirements:**

- **FUNCTIONAL REQUIREMENTS:**

- Registration of the voter is done by Admin..
- Registration of the Voter depends upon the information filled by the user.
- Voter is given a unique ID and PASSWORD.

Voter can give vote after login and entering the ID and PASSWORD.

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- In the DATABASE information of every voter is stored.
- 
- Database shows the information of every user.



## **2. Project Requirements**

### **Hardware Requirements (Processor *RAM* *Disk Space*)**

Minimum \$Gb of Ram

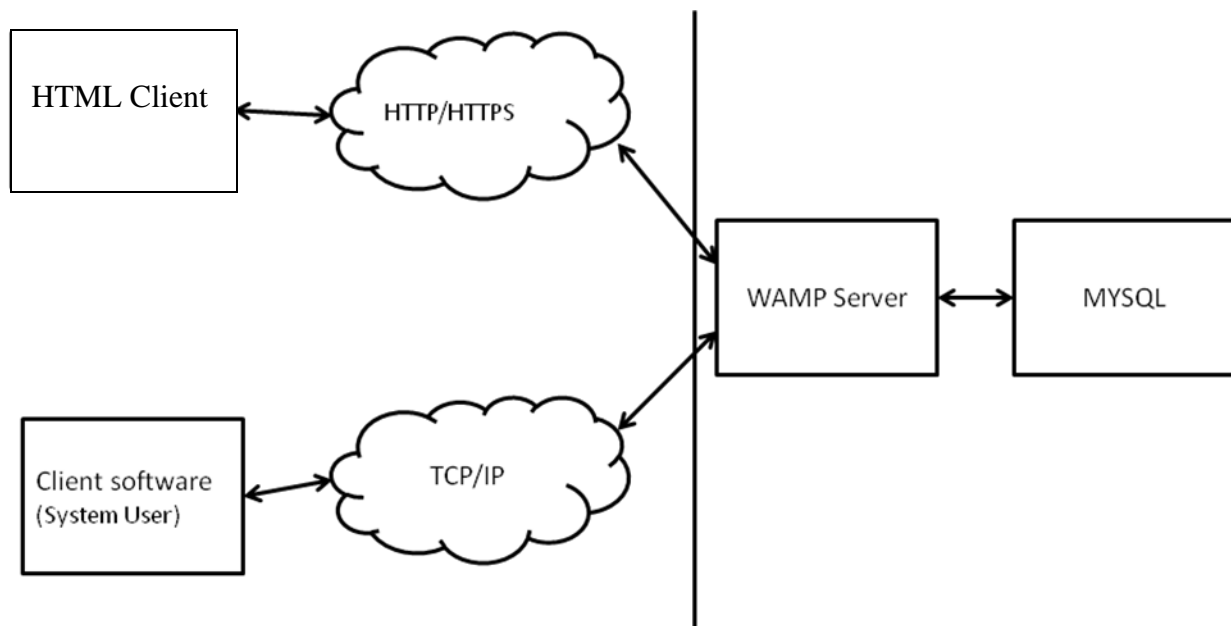
### **Software Requirements (Operating System *Database*)**

windows, Linux, My SQL

## **3. Software interface:**

- Client on Internet: Web Browser, Operating System (Windows).
- . Client on intranet: Client Software, Web Browser, Operating System (Windows).
- Web Server: WAMP Server, Operating System (Windows)
- Data Base server: MYSQL, Operating System (Windows).

## **4. Communication interface:**



**Client side**

**Application server**

**Database server**

The above diagram shows the connectivity between the client side, application server and database server. The client or customer can access the HTML server or client software. These are connected to the Wamp Server (WAMP) by a TCP/IP which is a communication protocol used to connect the teachers or parents to the internet. This WAMP Server now directly communicates with the database made in MYSQL. All the enquires or data will be retrieved from the database.

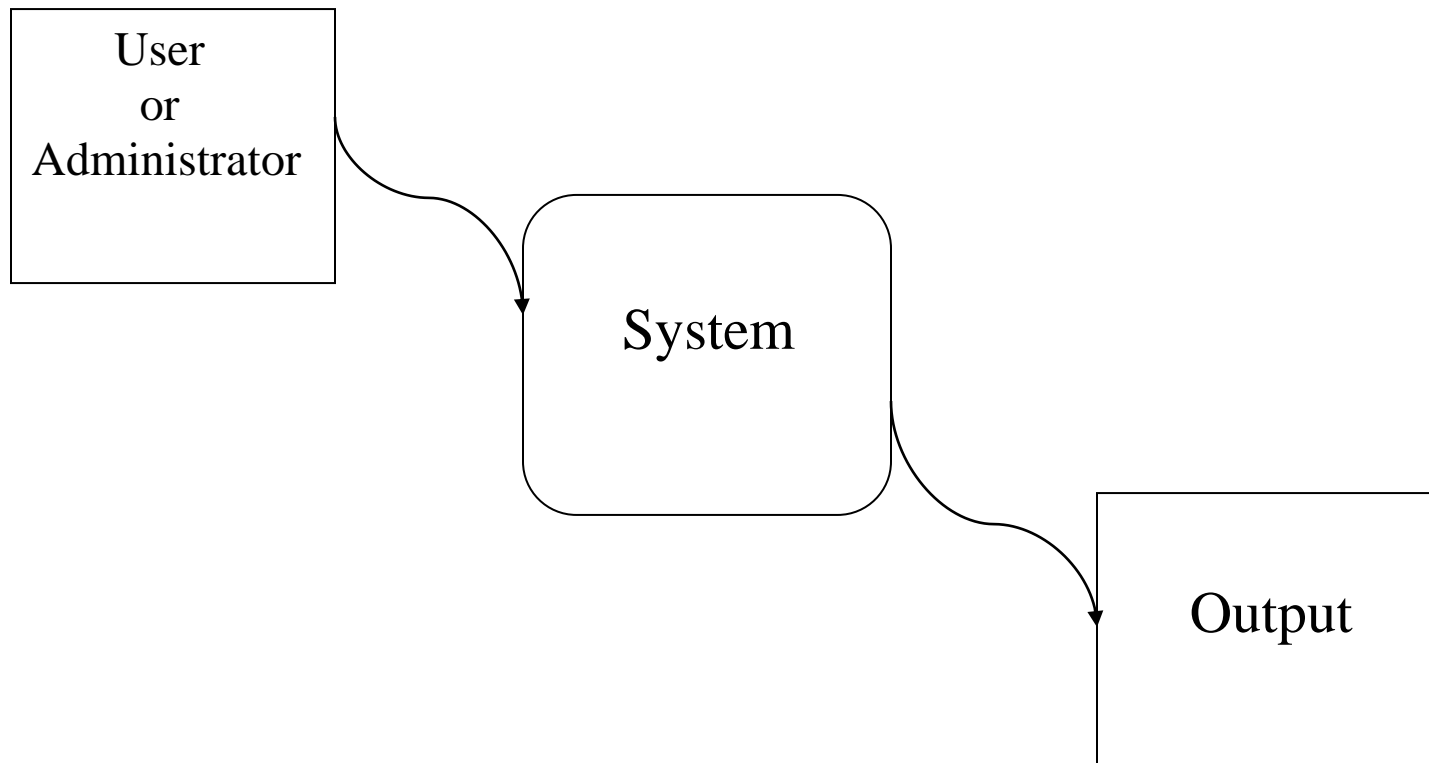
#### **4.1.6 Summary:**

“ONLINE VOTING SYSTEM” is an online voting technique. It is based on the other online services like “ONLINE RESERVATION SYSTEM” .In this system people who have in NITC EMAIL-ID/RERNUM Can register.

In “ONLINE VOTING SYSTEM” a voter can use his\her voting right online without any difficulty. He\She has to fill a registration form to register himself\herself. All the entries is checked by the DATABASE which has already all information about the voter. If all the entries are correct then a USER ID and PASSWORD is given to the voter, by using that ID and PASSWORD he\she can use his\her vote. If conditions are wrong then that entry will be discarded.

## **4.2 Data Flow Diagram**

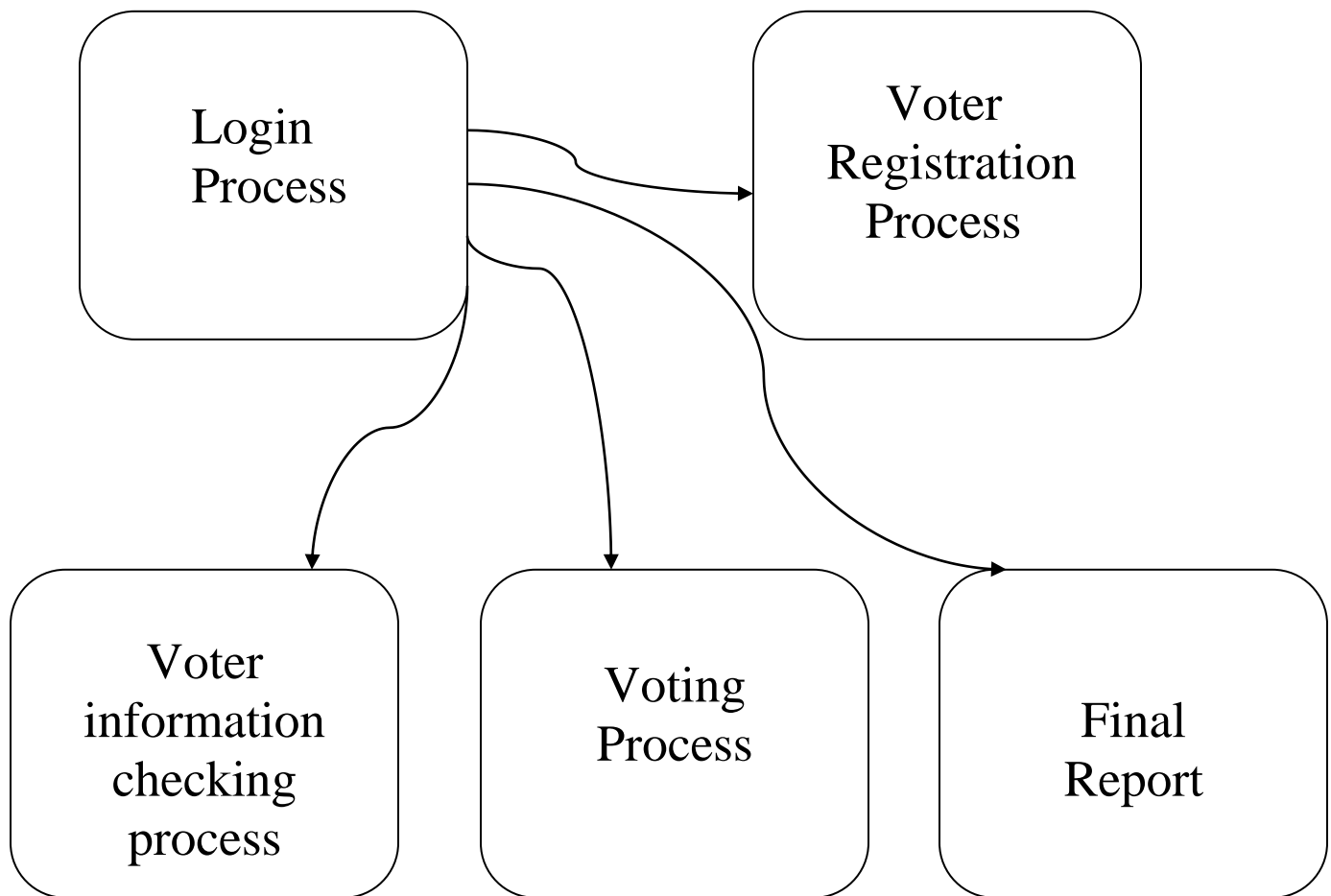
## DFD: Level 0



### DFD Level-0

The above diagram is a 0-level DFD that only shows the flow of data between the various and the system. In online voting system the Administrator is the controller of the system and all the decisions are made by him. The Administrator can handle the entire voter and their details, voting details etc. and view details of them and he can update that detail also.

### DFD: Level 1:-



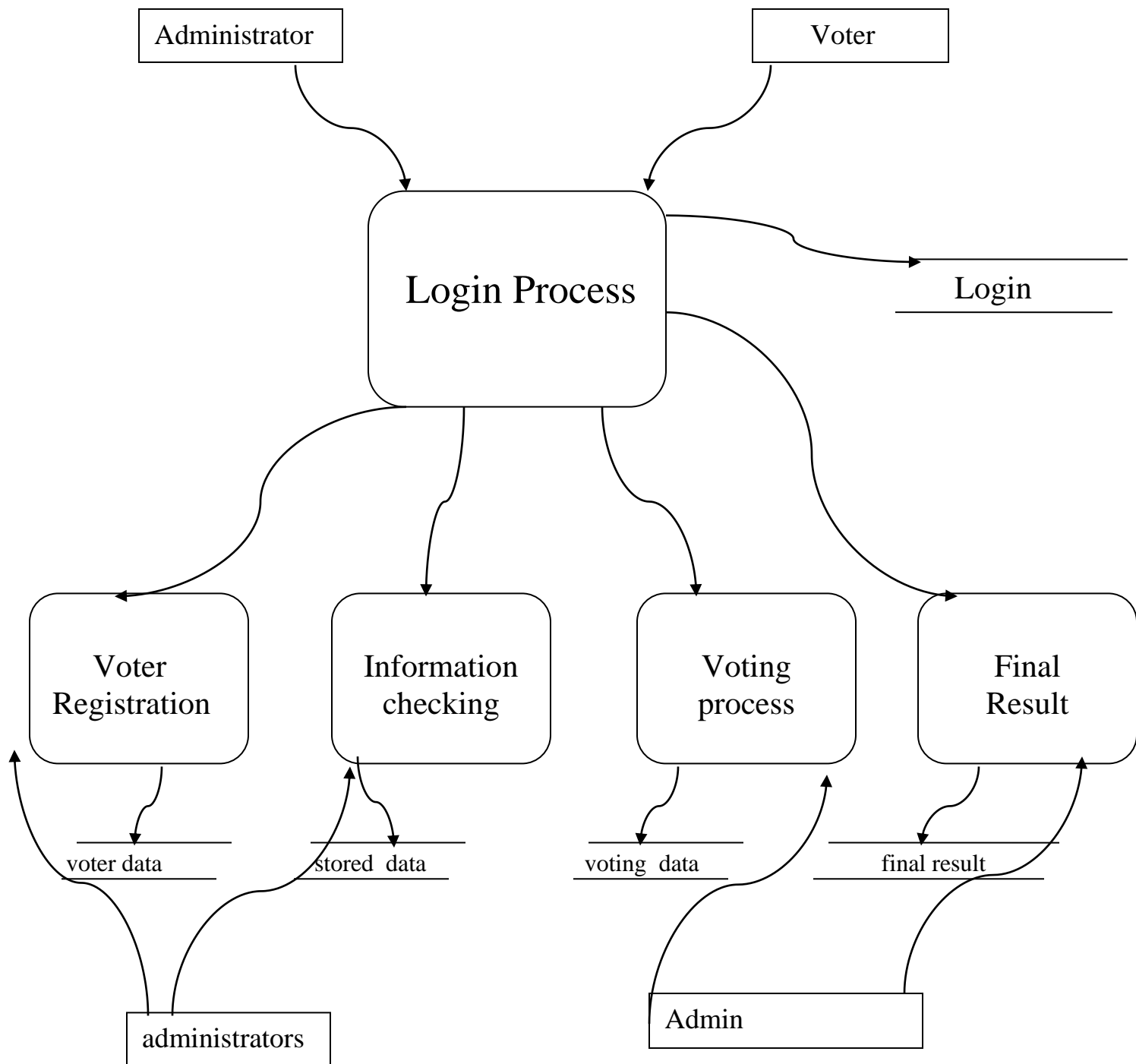
**DFD Level 1**

The above shown diagram is a 1-level Data Flow Diagram for the Online voting system. According to this DFD various process are done after login process. The Administrator can register .

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### DFD: Level 2

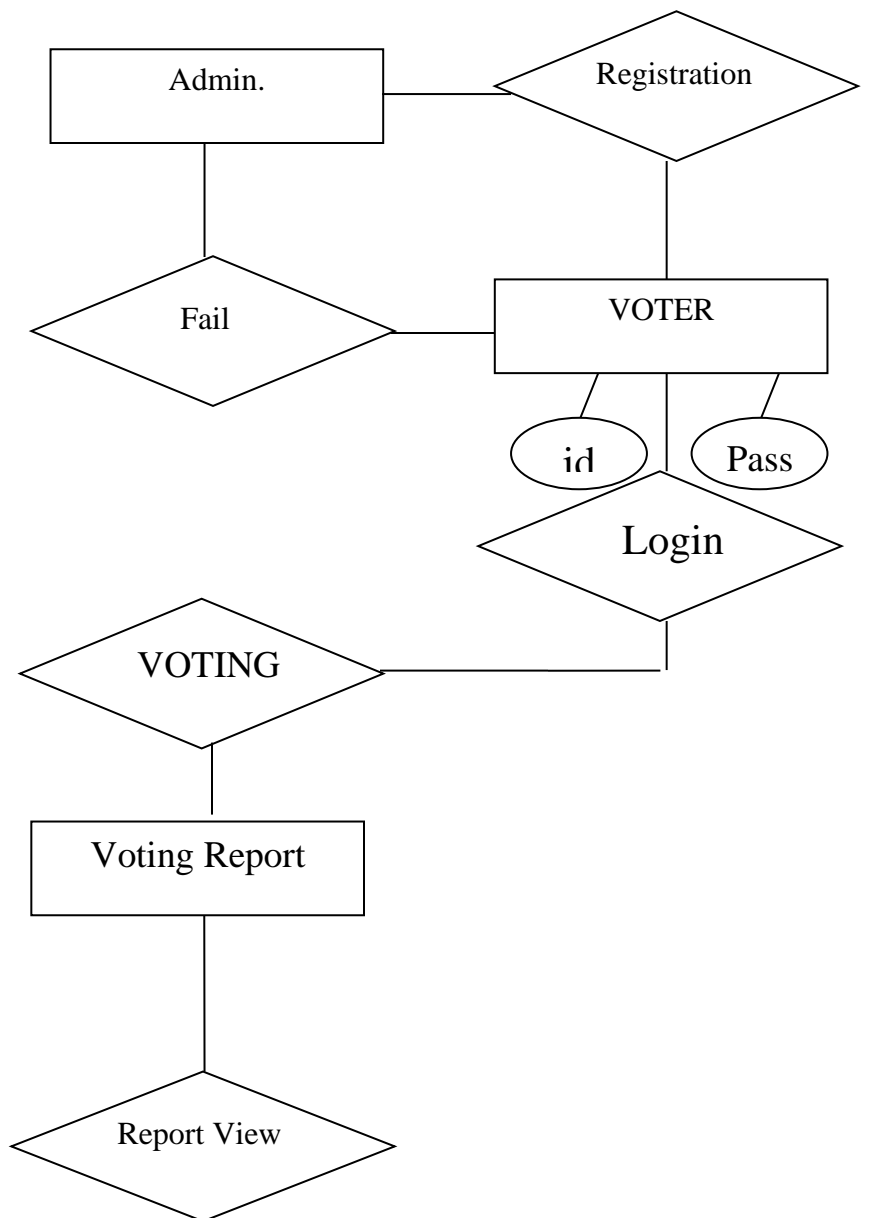
## 2.1:-



**DFD: Level 2.1**

The above shown diagram is a 2.1 level Data Flow Diagram for the Online voting system. According to this DFD. The Administrator can register the voter information. Administrator can allow or denies the voter. A voter can give vote if all the information filled by him\her are correct.

## Entity Relationship Diagram



**Fig.- E-R Diagram**

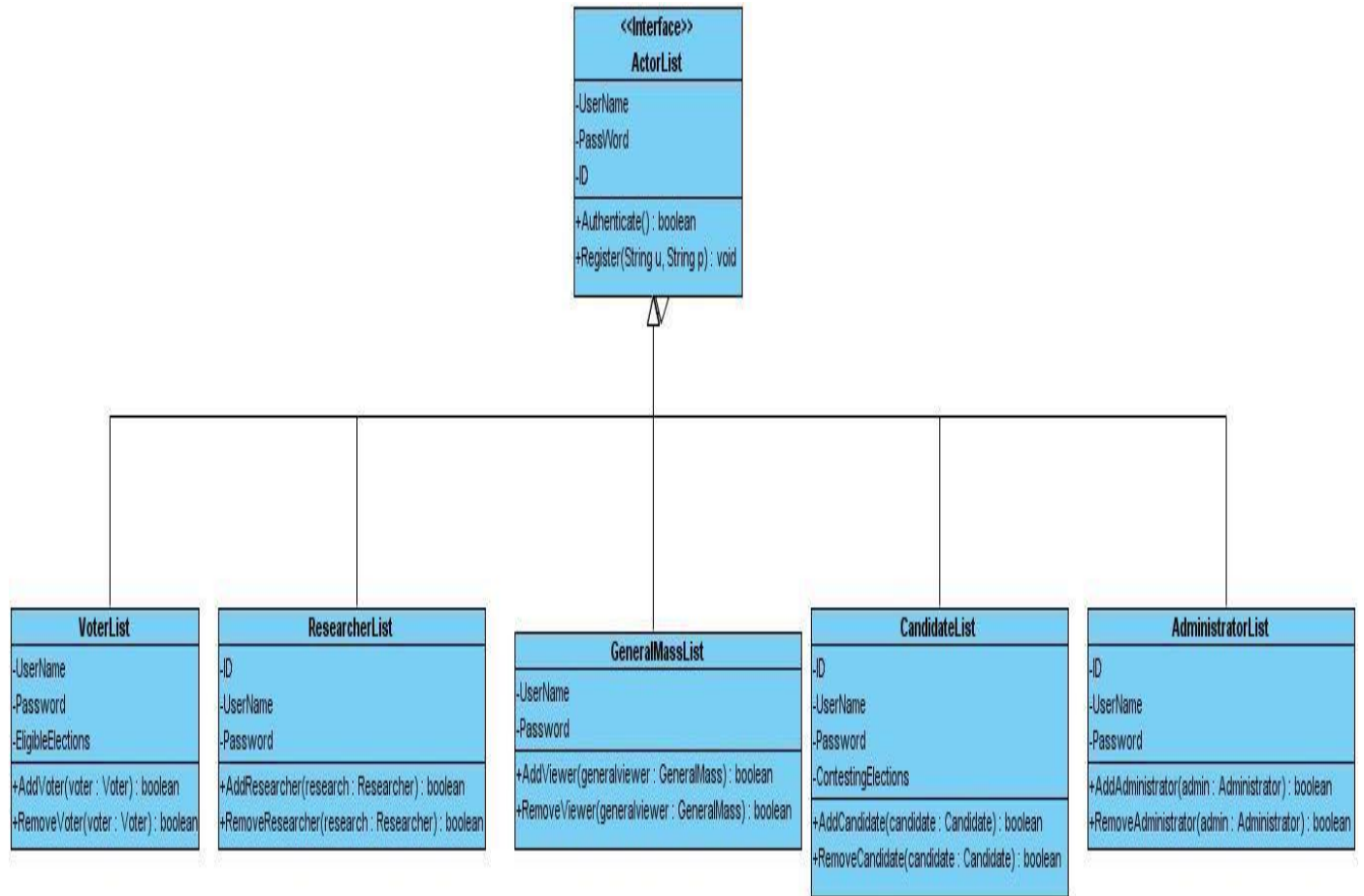


The entity relationship diagram shows the relationship between the various users and their attributes. There is a relationship between the election commission and voter.

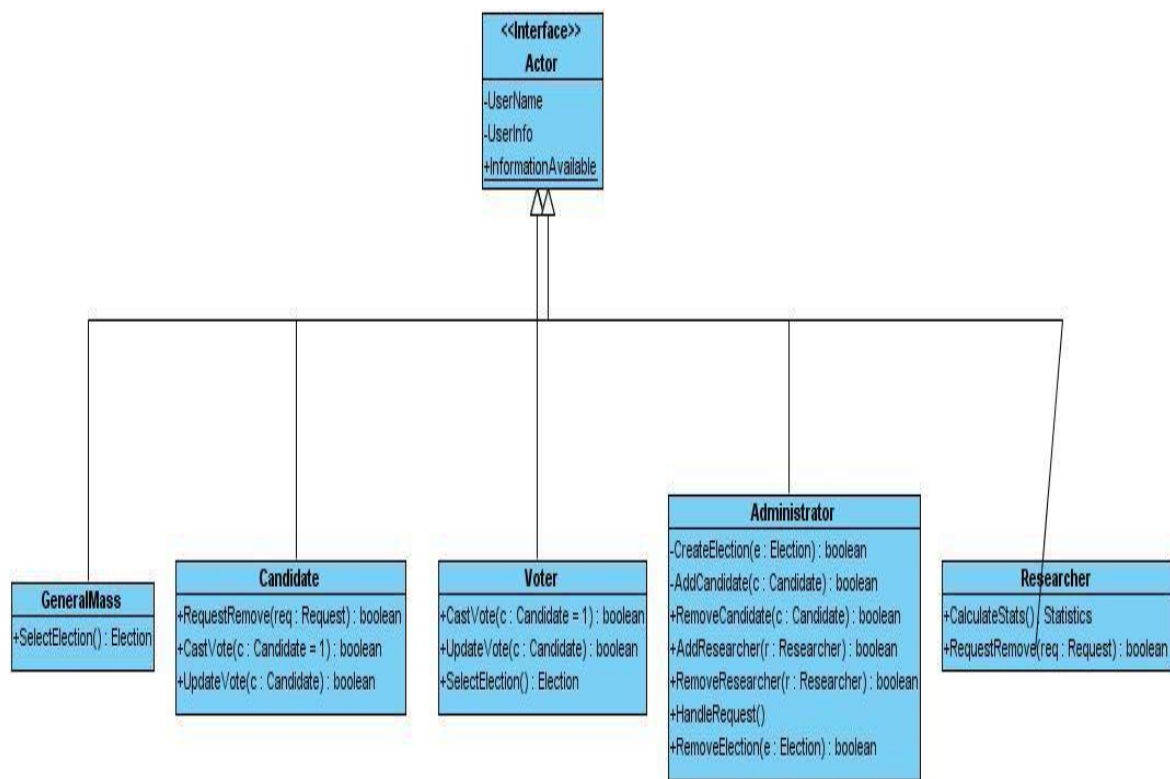
The VOTER has different attributes to store their data to data base are follows:-

1. Name-Name contain first name, middle name, last name.
2. Age
3. City
4. State
5. Phone number (Permanent)
6. Phone number (Mobile)
7. Email address

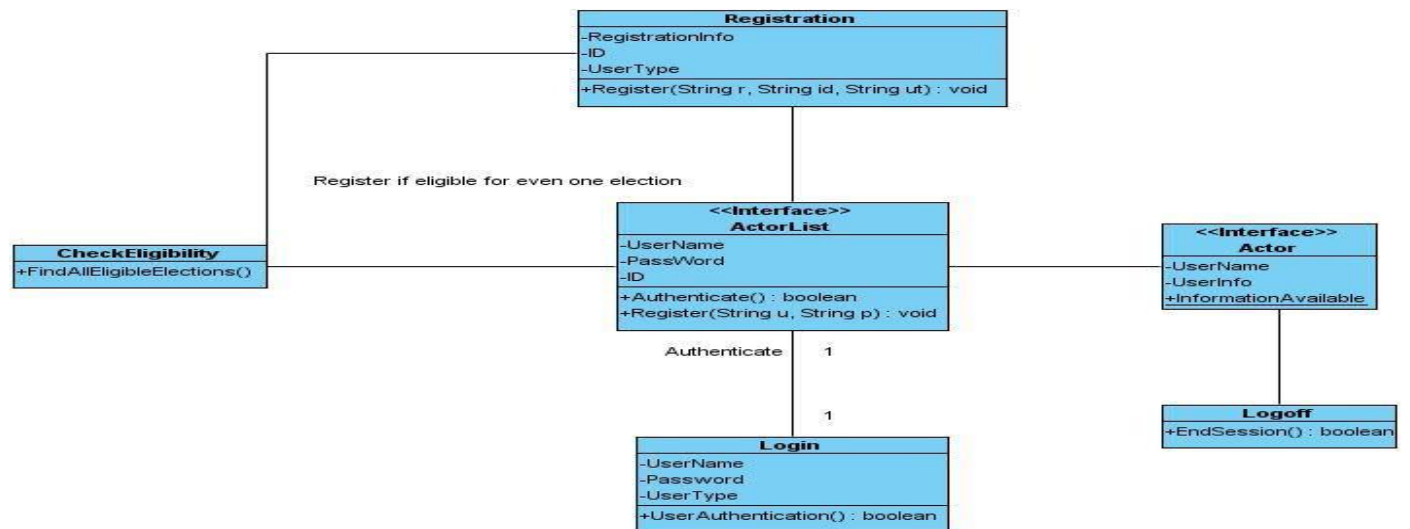
## Class diagram-:



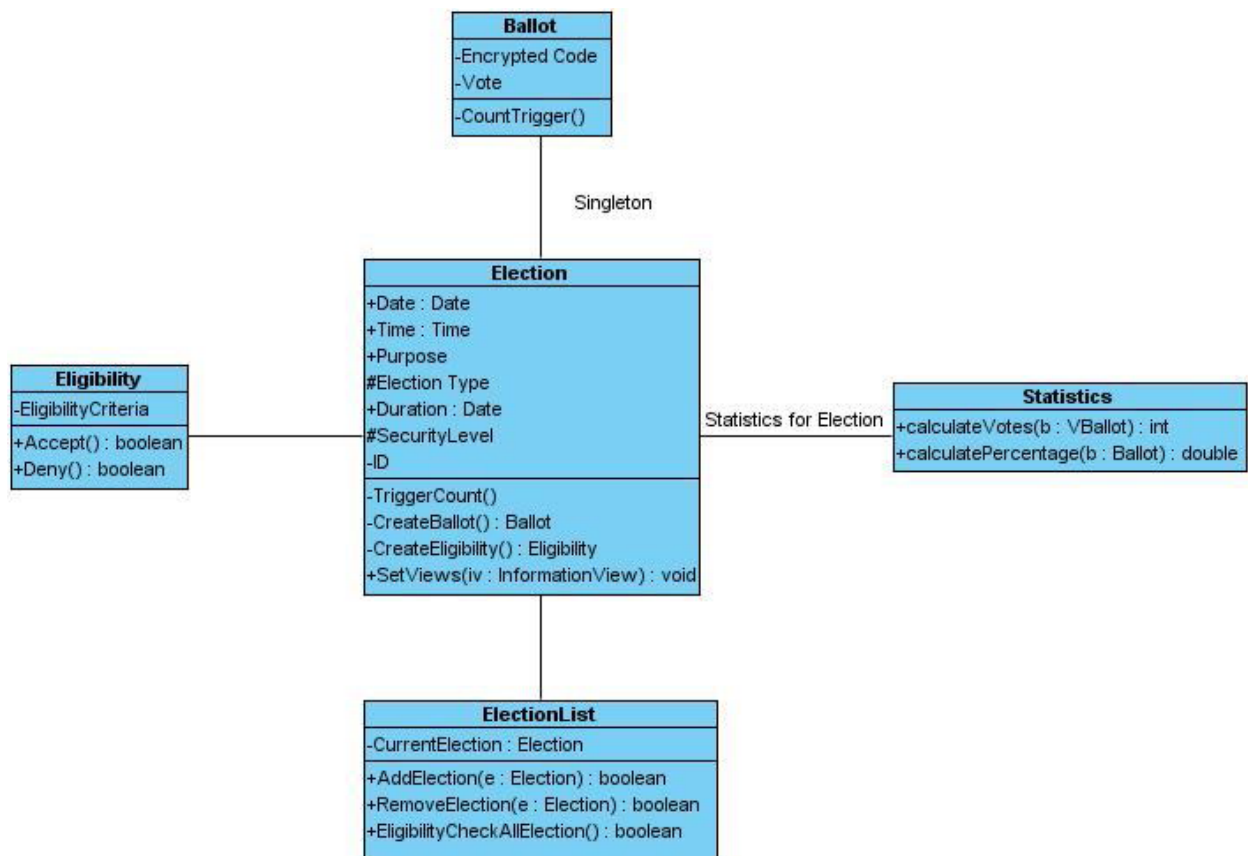
**Fig: Relationship between the interface Actor List and its inheriting classes**



**Fig: Association between Actor interface and other inheriting classes**  
**Registration, login, and logoff modules act as mediator.**



**Fig: Association between Registration, Actor List, Login, Logoff**



**Fig: Association between Election and Ballot (Flyweight, Singleton)**

## Data Base Tables:-

### Admin Table:-

S. No.	Field Name	Data Type	Description
1.	Login id	Varchar	Login id for Admin.(Primary key)
2.	Password	Varchar	Password for Login
3.	Name	Varchar	Name of the Administrator

### Voter information Data Table:-

S. No.	Field Name	Data Type	Description
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1.	Password	Varchar	Password for Login
2.	Name	Varchar	Name of the voter
3.	Mobile	Varchar	Mobile No of voter
4.	E-Mail	Varchar	E-Mail of voter

## **CONCLUSION**

This Online Voting system will manage the Voter's information by which voter can login and use his voting rights. The system will incorporate all features of Voting system. Its provide the tools for maintaining voter's vote to every party in Collage Wether it is in Hostal Or Campus. There is a DATABASE which is maintained Admin .

In this user who is register his/her information on the database and when he/she want to vote he/she has to login by his id and password and can vote to any only single time. Voting detail store in database and the result is displayed by calculation. By online voting system percentage of voting is increases. It decreases the cost and time of voting process. It is very easy to use and It is vary less time consuming. It is very easy to debug.