

REPORT

Team 2

**Members – Tarun Goyal (180010038)
Manjeet Kapil (180010021)
Shagun Bera (180010031)**

1.Introduction-

The proper execution of democratic rights has become linked to the availability and reliable functioning of advanced information and communication technology (ICT). While modern societies fully rely on ICT for business, work and leisure time activities, the use of ICT for democratic decision making is still in its infancy. In fact, the out date technological concepts for voting have been blamed in part for lost and uncounted votes and could therefore be responsible for biased political decisions making. Countries all over the world are examining e-voting, for it has some striking advantages over traditional paper voting, including security for casting votes, accuracy of counting and analysing votes, options to conduct voting in a centralized and decentralized manner, etc. The reasons why the e-voting technology has not matured to equivalent levels as known for business and leisure time activities lies mostly in an inherent lack of trust and fear of electronic threats. While most countries are still conceptualizing or testing evoting systems, three cantons in Switzerland have pioneered the development of e-voting to its full technological maturity. The world is always in improvement and growth in technology, that's why we should go parallel with it, to be able as much as we can get benefit from these improvements. Using our online voting application anyone can cast the vote from home or office or anywhere securely. The whole operation is managed by an administrator.

2. Working-

When a user (voter or candidate) registers they are provided with a user-id and password. Now they can login to go into their dashboard. Firstly, candidate can choose a election to contest from election ones for contesting. Voter login and see all available election permitted by admin. For each election they can see the contesting candidate, cast vote and see results. All the vote casted are added up and shown in result section. admin login can create a new election, edit elections. they can verify candidate who wants to contest in election. Voter and

candidates can also edit their profiles. Autonomy is given to admin. The admin can monitor the process and finally announces the result soon after voting session is completed.

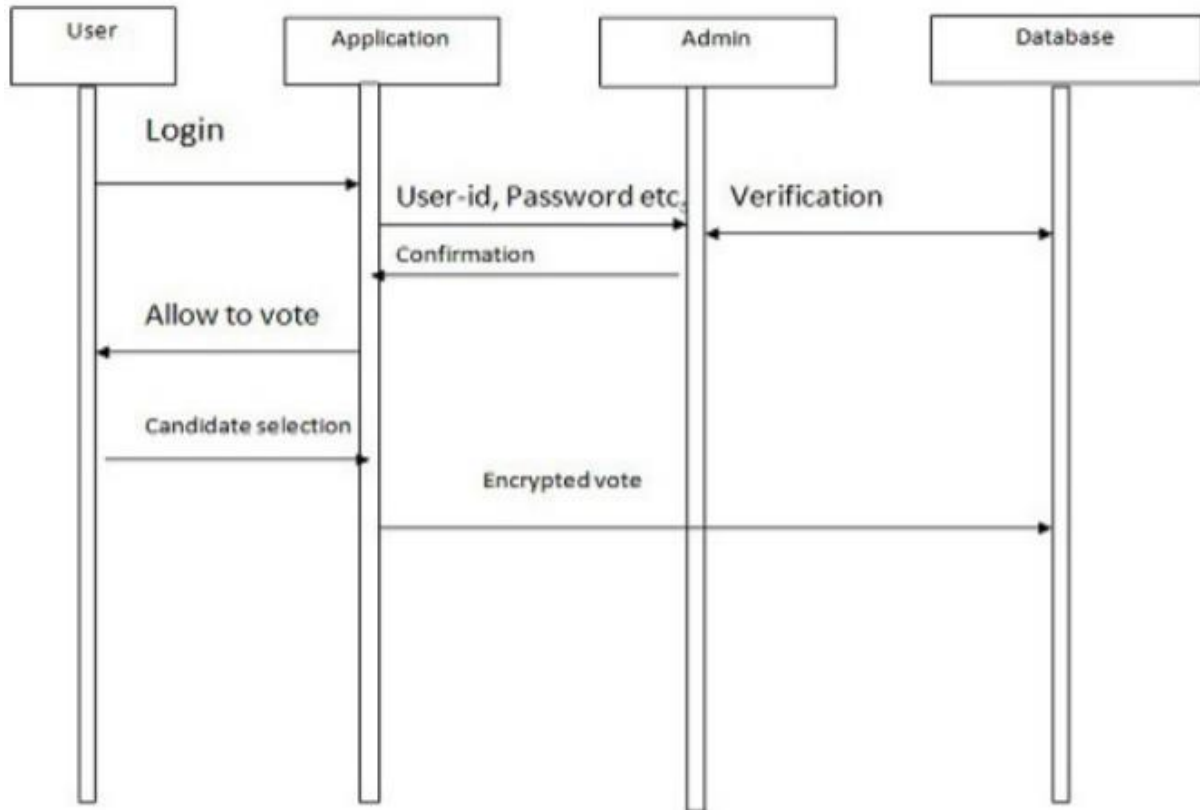


Fig. Voting Process

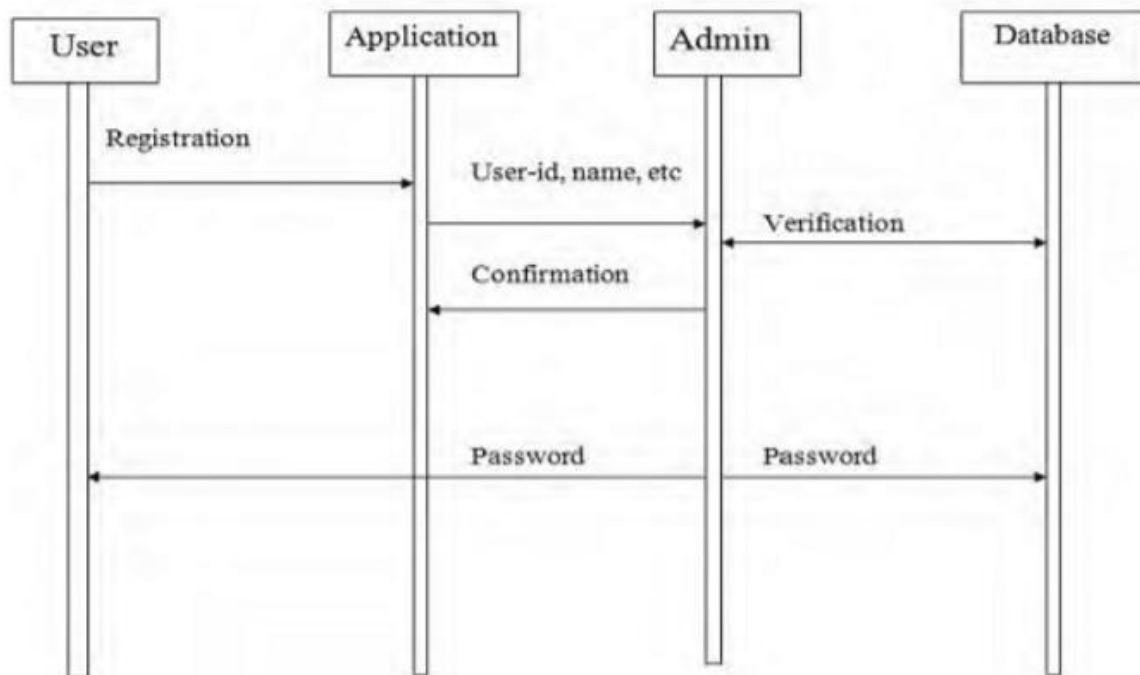


Figure 1: Sequence diagram of registration

Fig. registration diagram

3. How to use this application-

There are two ways First- Make your system as host (installing database and run application. Another- Given an ip address of hosting computer you can run it in your pc without creating any database but you can't change the code.

For creating database which is needed is given in sqlquery.txt file.

The opening page of application is fp.php.

4.Using Database-

I have made 6 tables in my database sslproject for recording all data. These four tables are – voter, candidate, election, request, voterlist, requestElection.

- Voter table-** This table contains voter details such as name, age sex, address, unique id and also login details (userid, password).
- Candidate table-** This table is mainly for candidate personal information, a column for choose election in which he wants to contest, his login details, this request id (which is used in registration time).
- Election table-** this table contains election name, its start time, its end time.
- Request table-** this table is used when candidate registers. This table consists request id of candidate, comment made by admin (completed comment by admin means he accepts candidate application).

- e. **Voterlist**- this table contains which voter can vote in which election.
- f. **requestElection**- this table is used when candidate request admin to contest election. Table contain election name in which candidate wants to contest.

```
mysql> describe voter;
```

Field	Type	Null	Key	Default	Extra
name	varchar(128)	YES		NULL	
mobile	varchar(128)	YES		NULL	
sex	varchar(128)	YES		NULL	
age	varchar(128)	YES		NULL	
address	varchar(128)	YES		NULL	
adhaar	varchar(128)	YES		NULL	
userid	varchar(128)	YES		NULL	
pass	varchar(128)	YES		NULL	

8 rows in set (0.11 sec)

Fig.1. Voter

```
mysql> describe candidate;
```

Field	Type	Null	Key	Default	Extra
name	varchar(128)	YES		NULL	
age	varchar(128)	YES		NULL	
sex	varchar(128)	YES		NULL	
mobile	varchar(128)	YES		NULL	
address	varchar(128)	YES		NULL	
adhaar	varchar(128)	YES		NULL	
slogan	varchar(128)	YES		NULL	
requestNo	varchar(128)	YES		NULL	
userID	varchar(128)	YES		NULL	
password	varchar(128)	YES		NULL	
contestElection	varchar(128)	YES		NULL	
verified	tinyint(1)	YES		0	
votes	smallint(6)	YES		0	

13 rows in set (0.01 sec)

Fig.2. Candidate

```
mysql> describe election;
```

Field	Type	Null	Key	Default	Extra
name	varchar(128)	YES		NULL	
start	datetime	YES		NULL	
end	datetime	YES		NULL	

3 rows in set (0.00 sec)

Fig.3. Election

```
mysql> describe voterlist;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| username   | varchar(128)  | YES  |     | NULL    |       |
| elecname   | varchar(128)  | YES  |     | NULL    |       |
| flag       | tinyint(1)    | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

Fig.4.Voterlist

```
mysql> describe request;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| candidateID | varchar(128)  | YES  |     | NULL    |       |
| comment     | varchar(128)  | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.01 sec)
```

Fig.5. request

```
mysql> describe requestElection;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| userid     | varchar(128)  | YES  |     | NULL    |       |
| contestElection | varchar(128) | YES  |     | NULL    |       |
| comment     | varchar(128)  | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

Fig.6. requestElection

6. Voter-

→. For Voter Registration –

- a. Click on the voter register on the front page for new voter registration.
- b. Fill All Entries Accordingly.
- c. The minimum age for the voter is 18.
- d. Id No. filled is unique for every user. I am assuming that every user has only one Id (It may be an Aadhaar card, passport). It is the Only key for checking the same voter. In the future, we can add biometric information also.
- e. For voter when you click register, the system will give you auto-generated user id. Remember the user id and password.

→. For Registered Voter-

- a. Enter user id and password, select the voter radio button and click login.

b. It shows your profile and also following options-

→. For Show Election-

a. On clicking show election, it shows all election in which admin permit you to cast your votes. All election is divided in three section i.e.

Ongoing, future, finished election.

b. Click on any one election.

c. It shows following options-

Show Candidate- Click show candidate for seeing about contesting candidates' details.

Cast Vote- Click on cast vote. All available candidates are shown there. Click any one to cast your vote. You can cast only once for one election.

Results- After election is over, click results. It shows all candidates with how many votes they get.

→. For Edit Voter-

a. On clicking edit profile, it shows your profile properties which you are allowed to change.

b. Fill your new details in text boxes and click edit.

7. Candidate-

→.For Candidate Registration –

a. Click on cand register on the front page for new candidate registration.

b. Fill All Entries Accordingly.

c. The minimum age for a candidate is 25.

d. Id No. filled is unique for every user. I am assuming that every user has only one Id (It may be an Aadhaar card, passport). Only criteria for checking the same candidate. In the future, we can add biometric information also.

e. For the candidate when you click register system will give you auto-generated request-id. Now your request goes to admin. You can check your request status given as below.

→Check request Status –

a. After getting requestid you can check your request status on that same page.

b. Fill request id and password and click check.

c. This shows your request status.

d. After the admin accepts your request. he will give you a userId. Again, remember your user id and password.

→. For Registered Candidate-

- a. Enter user id and password, select the candidate radio button and click login.
- b. It shows your profile and also following options—

→. Choose Election to contest-

- a. On clicking choose election to contest, it shows all.
- b. Click on any one election.
- c. Now your request for this election goes to admin. Request can be pending, completed, rejected.
- d. You can't choose another election until your previous election request has been rejected.
- e. keeping this in mind one candidate can hold only one office at a time.

→. Edit Candidate-

- a. On clicking edit profile, it shows your profile properties which you are allowed to change.
- b. Fill your new details in text boxes and click edit.

→. Results-

After election is over, click results. It shows all candidates with how many votes they get.

8. Admin-

- a. Enter user id and password, select the admin radio button and click login.
- b. It shows following options—

→. Create Election-

Fill election name ('IT SHOULD BE UNIQUE'), Its start time (YYYY-MM-DD HH:MM: SS format) and end time accordingly. And click create. It creates a election for you. You can see it in show election options.

→. Verify Candidate-

All pending requests for candidate registration shown there. Click on anyone. It shows the candidate profile. There is a box of write your comment. if you are agreed with candidate information then write "completed" in that text box. And if you write anything else in that box that means rejection of request. And click ok.

→. Verify Election Request-

All pending requests for candidate choose election along with election name is shown there. Click on anyone. It shows the candidate profile. There is a box of write your comment. if you are agreed with candidate information then write “completed” in that text box. And if you write anything else that ultimately means rejection of request. And click ok.

→. Show Voter List-

All voters list is shown here. Click on anyone voter.it shows voter profile and also a option to choose elections for voter.

→choose elections for voter-

After clicking, all elections are showed. Along with their start time and end time and also a flag(0/1) which shows that this elections is choosed or not.

9→. For Show Election-

a. On clicking show election, it shows all election in which admin permit you to cast your votes. All election are divided in three section i.e. Ongoing ,future, finished election.

b. Click on any one election.

c. It shows following options-

Show Candidate- Click show candidate for seeing about contesting candidates’ details.

Edit election- Click on edit election. You can alter election start time and end time and click ok.

Results- After election is over, click results. It shows all candidates with how many votes they get.

.Future improvements-

a. we can add biometric to login or as an identity card in election and for voting.

b. We can host it on any server so that more people can use it.

c. we can make it more fast, safe, compatible for large number of users when they are using at same time.

d. obviously we can improve our layout, designing of application.

e. we can connect it to emails, mobile phone number for more security and forget password thing.

