

## **ABSTRACT**

Our paper offers with on-line voting software that helps consumer(voter), candidate and administrator (who could be in rate and will confirm all of the consumer and statistics) to take part in on-line balloting. our on-line balloting gadget is exceptionally secured, and it has an easy and interactive consumer interface. The proposed on-line portal is secured and have specific safety characteristic which include specific identification technology that provides every other layer of safety (besides login identification and password) and offers admin the capacity to confirm the consumer statistics and to determine whether or not he is eligible to vote or not. It additionally creates and manages balloting and an election element as all the customers have to login through consumer call and password and click on applicants to sign up vote. Our gadget is likewise equipped with a talk bot that works as an aid or manual to the voters, this allows the candidates in the voting process.

## ACRONYMS

HTML	:	Hypertext markup language
CSS	:	Cascading style sheet
PHP	:	Hypertext Preprocessor

## TABLE OF CONTENTS

	Page No.
<b>ABSTRACT</b>	<b>i</b>
<b>ACRONYMS</b>	<b>ii</b>
<b>TABLE OF CONTENTS</b>	<b>iii</b>
<b>LIST OF FIGURES</b>	<b>iv</b>
<b>CHAPTER 1 INTRODUCTION</b>	<b>01</b>
1.1 INTRODUCTION	01
1.2 OBJECTIVES	02
1.3 METHODOLOGY	02
<b>CHAPTER 2 LITERATURE REVIEW</b>	<b>03</b>
<b>CHAPTER 3 IMPLEMENTATION</b>	<b>04</b>
3.1 SOFTWARE REQUIREMENT SPECIFICATIONS	04
3.1.1 TECHNOLOGY DESCRIPTION	04
3.2 WORKING OF ALGORITHM	06
3.3 FLOW CHART	11
<b>CHAPTER 4 EXPERIMENTATION AND RESULTS</b>	<b>12</b>
4.1 EXPERIMENTAL WORK	12
4.2 RESULTS	13
<b>CHAPTER 5 CONCLUSION AND FUTURE SCOPE</b>	<b>15</b>
5.1 CONCLUSION	15
5.2 FUTURE SCOPE	16
<b>REFERNCES</b>	<b>17</b>

## **LIST OF FIGURES**

<b>FIG. NO</b>	<b>TITLE</b>	<b>Page No</b>
1.1	Online voting system	02
3.3	Flow chart	11
4.2.1	Login form	13
4.2.2	Registration form	13
4.2.3	Dashboard before voting	14
4.2.4	Dashboard after voting	14

# **CHAPTER 1**

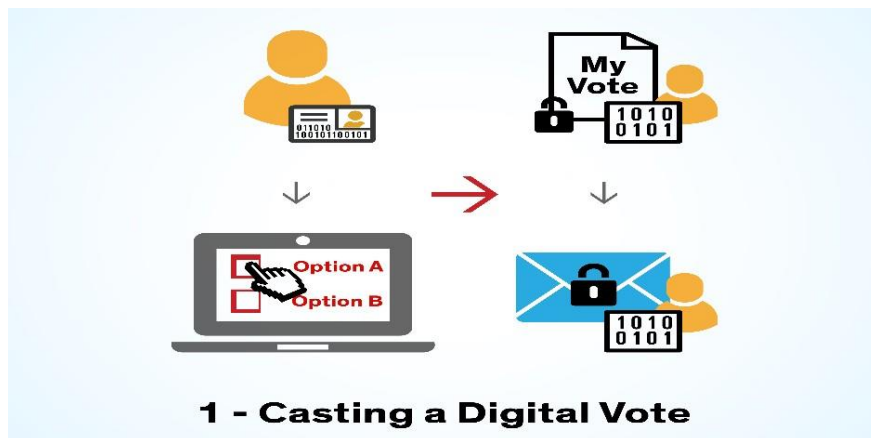
## **INTRODUCTION**

### **3.1 INTRODUCTION**

Online vote casting application is an internet-primarily based totally software. Online balloting is a web software program through which a voter can vote his vote through enrolling themselves at the net vote casting dashboard. All the statistics about clients is get fetched into database via which admin can affirm the user. The residents want to login with identification and password then they will be able to access the election module wherein they will be able to forged their vote with such ease and comfort and their input may be stored and after that surrender stop end result may be displayed.

Internet casting a ballot programming program application is a web-arranged application. In this online programming individuals who are acknowledged through the administrator can durable his/her decision on-line without going to any actual democratic focus. There are many votes projecting systems which may be getting utilized for Voting reason, related to survey paper, EVM gadget anyway the ones kinds of methods demand additional investment and furthermore fellow strength so you can dispose of the ones sorts of downsides we give a web casting a ballot programming which offers capacities related to exactness, accommodation, adaptability, privateness and evidence. Our internet casting a ballot application gives client a stage in which he can sign up himself to tough vote from a distance. Our is a democratic programming program application through which any Voter can utilize his/her democratic privileges from anyplace.

In the contemporary occurrences there are different literary works on web-based balloting has been created. While online survey/vote projecting has been a position of studies withinside the contemporary years, there are endeavours done to make on line vote projecting programming program application more prominent secure. The utilization of shaky Internet, and the resulting assurance Breaches had been suggested as of late. Along these lines, the transcendent problem now to treatment those assurance breaks which epitomize refusal of business endeavour assault.



1.1 Online voting system

## 1.2 OBJECTIVES

- The principal objective of this undertaking is to make the democratic interaction more straightforward, versatile, time proficient, and to dispose of counterfeit democratic.
- It is the kind of web-based software which can be useful not only for political elections but also it can be useful to conduct online surveys, industry level, intuitional level, organizational level elections and opinion polls.
- Opinion polls are a manner of estimating public opinion on a positive count number and consequently cherished through governments and politicians. They also can be a beneficial manner for agencies to evaluate probably public response to a deliberate motion or product.

## 1.3 METHODOLOGY

- Generally, any website comprises of three parts like front-end, back-end and database.
- In this website, following technologies have used for respective parts.
- Front-end : HTML, CSS, JavaScript
- Back-end : PHP
- Database : MySQL
- Server : Xampp Server

## **CHAPTER 2**

### **LITERATURE REVIEW**

This is a site-based programming which can be used by client to project survey/vote in a political decision. Every one of the occupants must login and click areas of strength for on to his/her settled on electors to present his/her vote. On remarkable hand on-line balloting programming program application is been in research for bounty years, investigated seasons of wrong executions expressed in present day years. These reasons are wanted to be settled so open areas of strength for can cast a ballot in a got and transforming into climate. On line balloting is a balloting programming program application wherein any person can utilize his/her balloting freedoms from anyplace.

Online vote casting application contains:

- a) Voter info or user info
- b) Voter usernames and passwords.
- c) User's vote in the database.
- d) sum of votes casted by voters for respective contestants.
- e) end result panel

Various calculational works put forward within the application are: statistics of the voter in database. Verification of data submitted through voter. Each data fact is submitted by voter to administration.

## **CHAPTER 3**

### **IMPLEMENTATION**

#### **3.1 SOFTWARE REQUIREMENT SPECIFICATIONS**

##### **HARDWARE REQUIREMENTS:**

Processor	: Core i3 processor
Hard Disk	: 50GB+
RAM	: 2GB or 8GB (Recommended)

##### **SOFTWARE REQUIREMENTS**

Operating System: Windows 7 (OR) later versions of windows

Presentation Tier: Visual studio code

Business Tier : PHP,XAMPP,HTML

##### **3.1.1 TECHNOLOGY DESCRIPTION**

###### **Visual studio code:**

Visual Studio Code is a flimsy, also an open-source however additionally effective supply code editor which runs for your computing device and is to be had for Windows, macOS and Linux.

It comes with protected beneficial aid for JavaScript popularly called as JS, TypeScript which is almost related JS syntax, Node.js and has a wealthy environment of extensions for one-of-a-type languages (like C, Java, C#, Python, C++, PHP, Go) and runtimes (like Unity and .net).

###### **HTML:**

HTML is short-form for “Hypertext markup language”. HTML is the code it really is used to shape an internet web page and its content material. HTML is a markup language that defines the shape of your content material. HTML incorporates an assortment of labels or components, that you use to control, close, or wrap, astonishing parts of the substance material to cause it to appear to be a top-notch way, or act a great way.



The encasing labels should make an expression or picture connect to somewhere else, can emphasize words, should make the textual style gigantic or more modest and so on.

### **CSS:**

Cascading Style Sheets (CSS) is a styling sheet language utilized for planning the introduction of a webpage written in a markup language which incorporates HTML. CSS is a foundation time of the World Wide Web, along with HTML and JavaScript. CSS is intended to permit the partition of show and content material texture material, which incorporates design, varieties, and text styles. This division can alter content material availability; offer more noteworthy adaptability and oversee withinside the detail of show attributes; permit two or three web pages to rate organizing through determining the appropriate CSS in a different .CSS document, which decreases hardness and overt repetitiveness withinside the underlying substance material and permit the .CSS augmentation record to be reserved to change the web site page load pace the various pages that rate the document and its arranging.

### **PHP:**

PHP is a short design or recursive contraction for "PHP: Hypertext Pre-processor". PHP is a server-side detail coordinating language and this is embedded in Markup language called HTML. It is used to work dynamic substance material, informational collections, meeting following, regardless, join complete e-substitute districts. The PHP Hypertext Pre-processor (PHP) is a programming language that grants web producers to make dynamic and responsive destinations that teams up with informational collections.

PHP is essentially used for creating web basically based totally thoroughly programming program applications. It is covered with some of popular data sets. PHP is certifiably ready in its execution, particularly while gathered as an Apache module at the Unix/Linux working framework climate. The MySQL server, as fast as begun, executes even extremely convoluted and complex inquiries with enormous exactness and proficiency final product yields in unparalleled time.

PHP empowers an immense kind of fundamental conventions comprehensive of Post office convention additionally called POP3, Internet message access convention prominently known as IMAP, and Lightweight catalog access convention otherwise called LDAP. PHP4 added help for Java and disseminated object designs (COM and CORBA), making n-level improvement an opportunities for the main time. As referenced previously, PHP is one of the most obviously utilized language over the web development. Not many of them here:PHP plays gadget capacities, for example from archives on a gadget it might make, open, read, compose, and close to them.PHP can manage forms, i.e. acquire data from documents, store facts to a file, via e-mail you could ship facts, go back data to the user.

- You add, erase, change factors inside your information base by means of PHP.
- Can retrieve variables of cookies and set cookies.
- Using PHP, you can restriction customers to get admission to three pages of your website.
- It able to encrypt data.

### **XAMPP:**

XAMPP is like an acronym. Wherein X is known for Cross-Platform. A is short-form for Apache. M is short-form of MYSQL. The PP is abbreviation for PHP and Perl, separately. It is an open-supply store of web answers that involves Apache scattering for loads servers and request line executables with everything taken into account with modules which encompass server like Apache server, a data base like MariaDB, tongues like PHP, and Perl.

XAMPP works with a close by host or server to check its web net website page and clients through PC frameworks and workstations sooner than delivering it to the main server. A phase outfits legitimate ecological components to check and demand the running of commitments essentially established totally on Apache, Perl, MySQL informational collection, and PHP through the contraption of the real host. Among those developments, Perl is a programming language used for web improvement, PHP is a backend coordinating language, and MariaDB is the best unmistakably used data base significant level through strategy for system of MySQL.

### 3.2 WORKING OF ALGORITHM

- **Code to connect frontend user interface with the MySQL database using PHP.**

```
<? php
$connect = mysqli_connect("localhost", "root", "", "online-voting-system");
?>
```

- **Code to create Registration form for voter and contestant using HTML.**

```
<form action="../api/register.php" method="POST"
enctype="multipart/form-data">
    <input type="text" name="name" placeholder="Name"
required>&nbsp;
    <input type="number" name="mob" placeholder="Mobile"
required><br><br>
    <input type="password" name="pass" placeholder="Password"
required>&nbsp;
    <input type="password" name="cpass"
placeholder="Confirm Password" required><br><br>
    <input style="width: 31%" type="text" name="add"
placeholder="Address" required><br><br>
    <div id="upload" style="width: 30%">
        Upload image: <input type="file" id="profile"
name="image" required> </div><br>
    <div id="upload" style="width: 30%">
        Select your role:<select
name="role">
            <option value="1">Voter</option>
            <option value="2">Group</option>
        </select><br></div><br>
    <button id="loginbtn" type="submit"
name="registerbtn">Register</button><br><br>
    Already user? <a href="#">Login here</a></form>
```

- **Code to create login form for both voter and contestant using HTML.**

```
<form action="api/login.php" method="POST">
<input type="number" name="mob" placeholder="Enter mobile"
required><br><br>
<input type="password" name="pass" placeholder="Enter password"
required><br><br>
<select name="role" style="width: 15%; border: 2px solid black">
<option value="1">Voter</option>
<option value="2">Group</option>
</select><br><br>
<button id="loginbtn" type="submit"
name="loginbtn">Login</button><br><br>
New user? <a href="routes/register.php">Register here</a>
</form>
```

- **Code used to logout from dashboard.**

```
<?php
    session_start();
    session_destroy();
    header("location: ../");
?>
```

- **Code to collect user input from registration form into database using PHP.**

```
$name = $_POST['name'];
$mobile = $_POST['mob'];
$pass = $_POST['pass'];
$cpass = $_POST['cpass'];
$add = $_POST['add'];
$image = $_FILES['image']['name'];
$tmp_name = $_FILES['image']['tmp_name'];
$role = $_POST['role'];
```

- **Code to check whether given password and confirm passwords are matched or not.**

```
if($cpass!=$pass){
    echo '<script>
    alert("Passwords do not match!");
    window.location = "../routes/register.php";
    </script>';
}
```

- **Code to identify duplicate user and to warn that user already exists.**

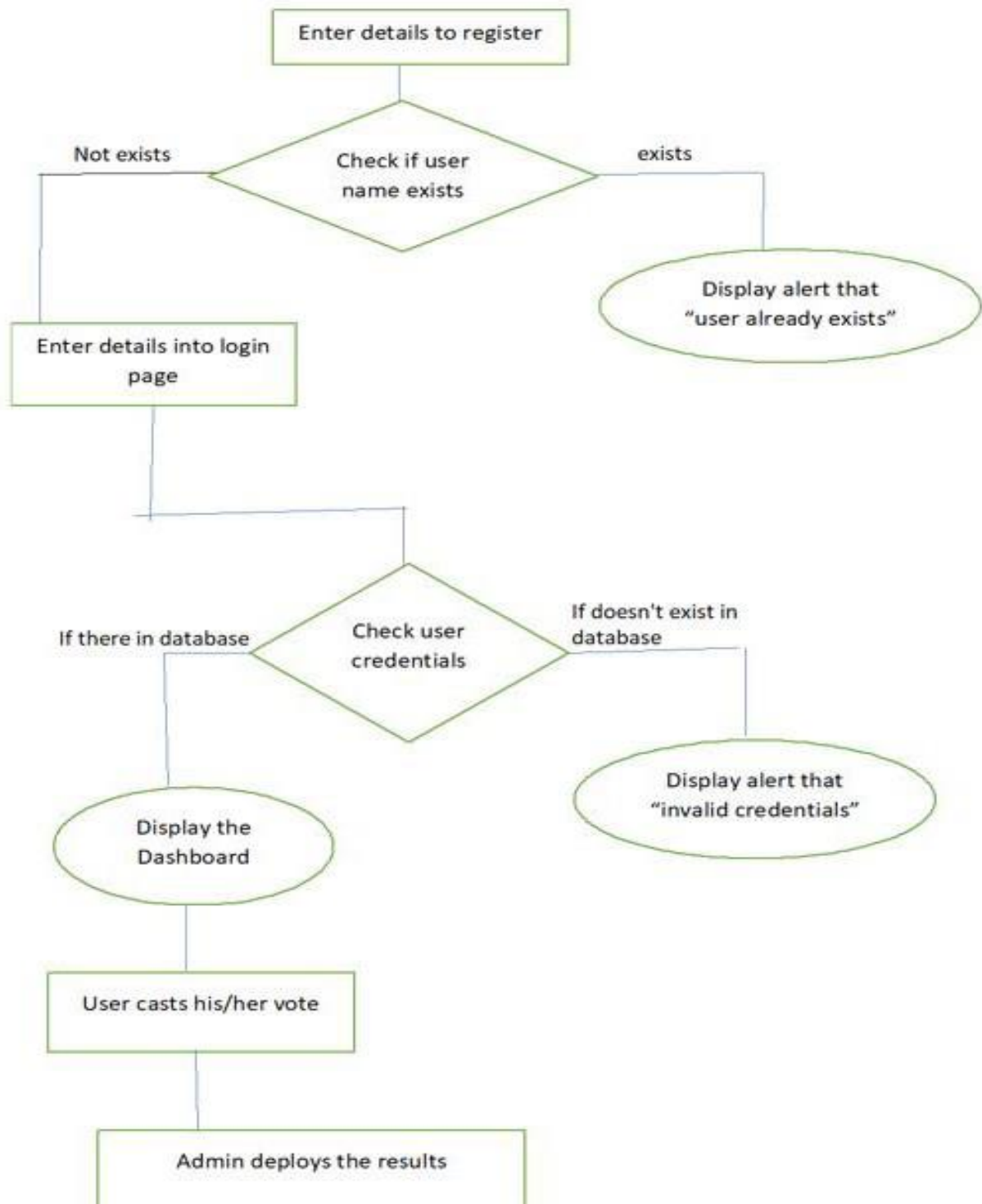
```
$condition = mysqli_query($connect,"select mobile from user where
mobile = '$mobile'");
if(mysqli_num_rows($condition)>0)
{
    echo '<script>
    alert("user already
    exist!");
    window.location =
    "../";
    </script>';
}
```

➤ **Code to verify login credentials and redirecting user to the dashboard using PHP.**

```
$check = mysqli_query($connect, "select * from user where
mobile='$mobile' and password='$pass' and role='$role' ");

if(mysqli_num_rows($check)>0)
{
$getData = mysqli_query($connect, "select name, photo, votes, id
from user where role=2 ");
if(mysqli_num_rows($getData)>0){
$groups = mysqli_fetch_all($getData, MYSQLI_ASSOC);
$_SESSION['groups'] = $groups;
}
$data = mysqli_fetch_array($check);
$_SESSION['id'] = $data['id'];
$_SESSION['status'] = $data['status'];
$_SESSION['data'] =
$data; echo '<script>
window.location = "../routes/dashboard.php";
</script>';
}
Else
{
echo '<script>
alert("Invalid
credentials!");
window.location =
"../";
</script>';
}
```

### 3.3 FLOWCHART



3.3 Flow chart

## CHAPTER 4

### EXPERIMENTATION AND RESULTS

#### 4.1 EXPERIMENTAL WORK

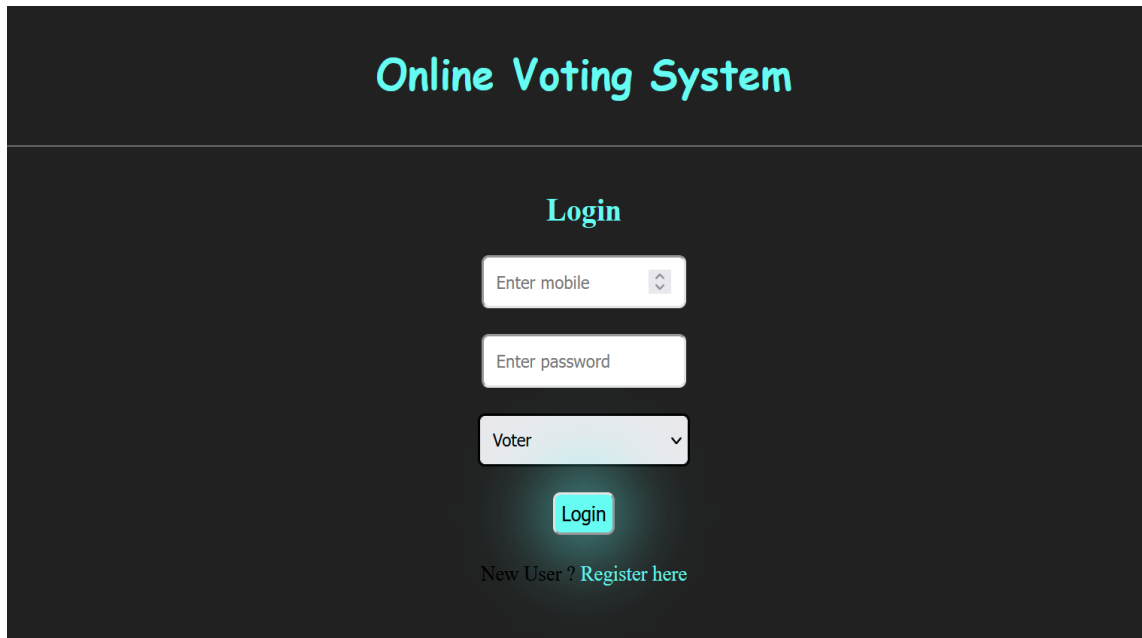
- **The main code manages both voter's and contestant's dashboard by regulating the user votes and showing status of voter once they are voted.**

```
$votes = $_POST['gvotes'];
$total_votes = $votes + 1;
$gid = $_POST['gid'];
$uid = $_SESSION['id'];
$update_votes = mysqli_query($connect, "update user set
    votes='$total_votes' where id='$gid'");
$update_status = mysqli_query($connect, "update user set status=1 where
    id='$uid'");
if($update_status and $update_votes){
    $getGroups = mysqli_query($connect, "select name, photo, votes, id
        from user where role=2 ");
    $groups = mysqli_fetch_all($getGroups, MYSQLI_ASSOC);
    $_SESSION['groups'] = $groups;    $_SESSION['status'] = 1;
    echo '<script>
        alert("Voting successfull!");
        window.location =
            "../routes/dashboard.php";
    </script>';
}
else{
    echo '<script>
        alert("Voting failed!.. Try again.");
        window.location =
            "../routes/dashboard.php";
    </script>' }
```



## 4.2 RESULTS:

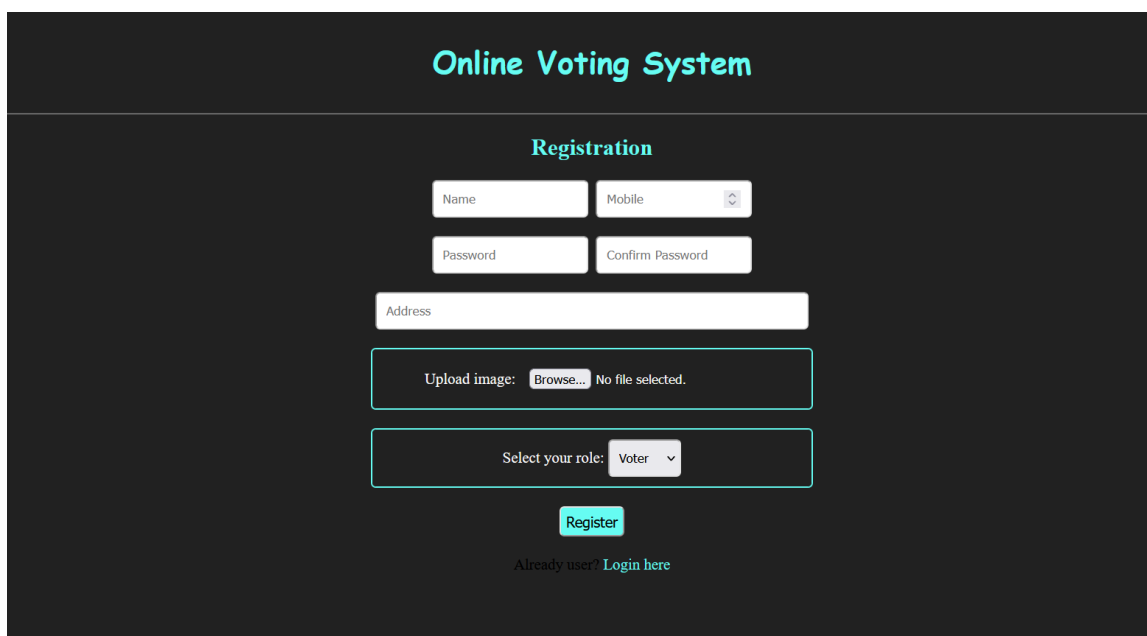
- The result login form created by using HTML code and validate credentials using PHP.



The screenshot displays the 'Online Voting System' login interface. It features a dark blue header with the title 'Online Voting System' in white. Below the header, the word 'Login' is centered in a light blue font. The form consists of three input fields: 'Enter mobile' (with a dropdown arrow), 'Enter password', and 'Voter' (with a dropdown arrow). A light blue 'Login' button is positioned below these fields. At the bottom, there is a link that reads 'New User ? Register here'.

4.2.1 Login form

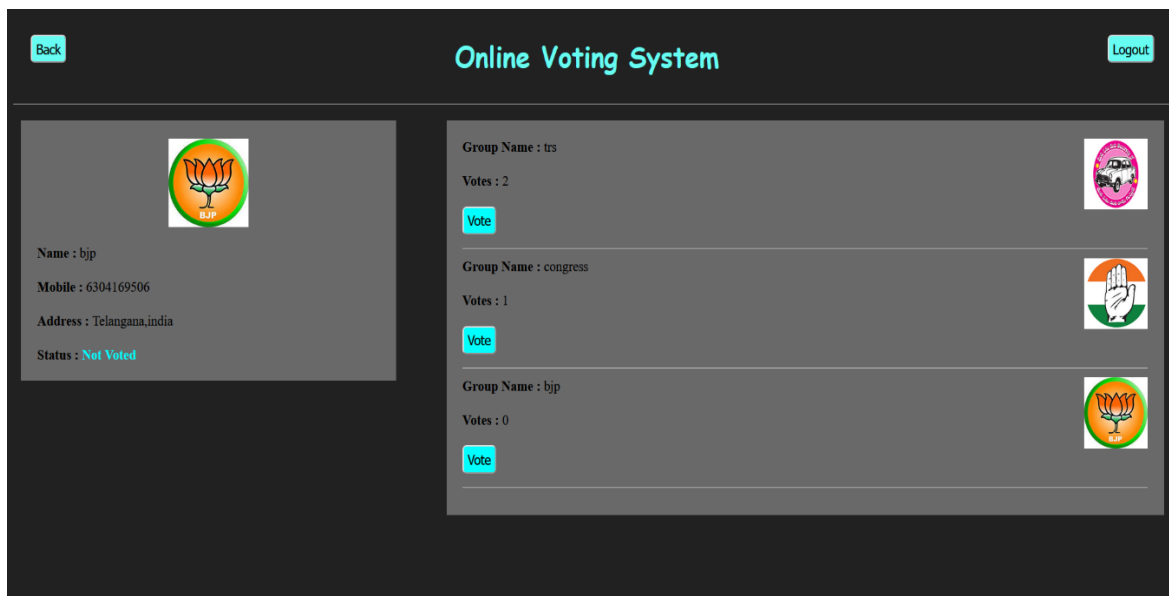
- The result of registration form created using HTML code and input collected from the user using PHP.



The screenshot displays the 'Online Voting System' registration interface. It features a dark blue header with the title 'Online Voting System' in white. Below the header, the word 'Registration' is centered in a light blue font. The form includes several input fields: 'Name', 'Mobile' (with a dropdown arrow), 'Password', 'Confirm Password', and 'Address'. There is also an 'Upload image' section with a 'Browse...' button and the text 'No file selected.'. Below this is a 'Select your role:' section with a 'Voter' dropdown arrow. A light blue 'Register' button is located at the bottom of the form. At the very bottom, there is a link that reads 'Already user? Login here'.

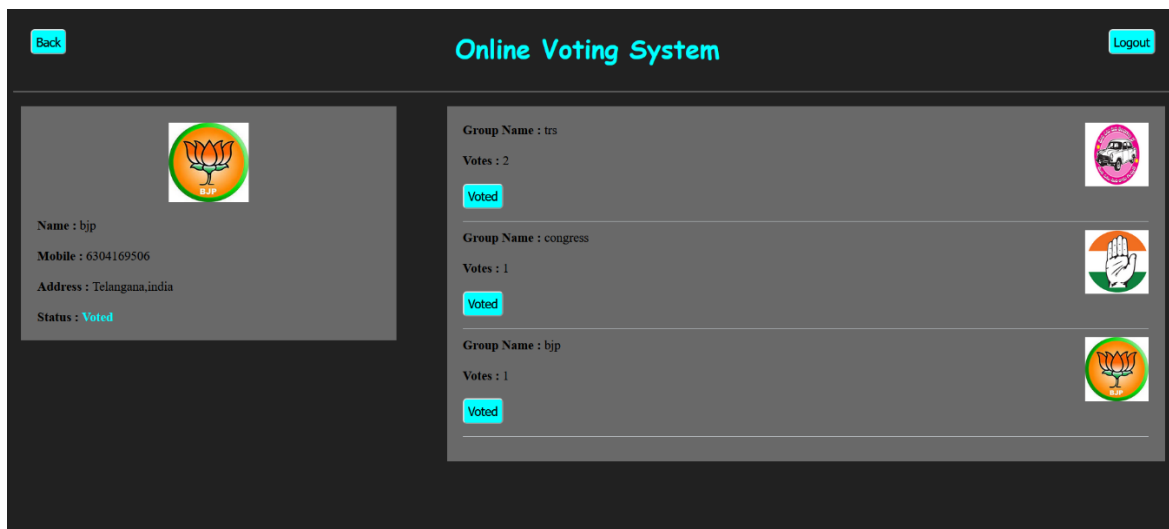
4.2.2 Registration form

- The resultant dashboard interface for voter to cast his/her vote.



4.2.3 Dashboard before voting

- The resultant dashboard interface after voter casting vote which shows status of the voter.



4.2.4 Dashboard after voting

## **CHAPTER 5**

### **CONCLUSIONS AND FUTURE SCOPE**

#### **5.1 CONCLUSION**

Our on-line entrance offers elector an open door to strong his vote through net without going to cast a ballot projecting corner. This gadget offers fast access, additional security levels, over the top adaptability and productivity. It furthermore disposes of the possibilities counterfeit individual making choice or fake vote projecting. It moreover lessens fellow power and undesirable human mistakes. It gives short results of decisions which may be totally exact. Our gadget represents considerable authority in diminishing the time and administrative work. Subsequently the net vote projecting gadget make all of the vote projecting way fast and convey security to the votes.

In the proposed system, we've endeavoured to develop a stable on-line vote projecting machine this is loosened from unapproved get section to while projecting votes through the citizens. The server components of the proposed machine have such conveyance of power that server really does now never again license to administer the votes. It is guessed that the proposed on-line vote projecting programming will development the clearness and unwavering quality of the present appointive machine.

## **5.2 FUTURE SCOPE**

In this light, it might be exciting to discover a case for undertaking elections over a blockchain machine—whose theoretical underpinnings make sure an obvious and responsible file of information. However, as we discover the diverse implications that stand up out of adopting this kind of generation, it might be vital to recognize its underpinnings (technical and theoretical) so as to check its viability for the more suitable of the electoral machine in India.

Remote balloting through the blockchain machine might encompass comparable practices which can be observed in cryptocurrency transactions, with the handiest distinction being that in preference to a digital currency, there's a digital token representing a 'vote'. This might entail a peer-to-peer generation that might utilise encryption and a write-as soon as version (a version wherein records, as soon as written, can't be modified. This assures that the information can't be tampered with as soon as it's far written). The digital ledger will permit personal and secured registration records and ballots to be transmitted over the Internet. However, the poll rolls and the counting of the votes might be displayed withinside the public domain, so as to make sure transparency and save you fraudulent practices.

## REFERENCES

- 1) Ankit Anand, Pallavi Divya, An Efficient Online Voting System, Vol.2, Issue.4, July-Aug. 2019, pp- 2631-2634.
- 2) David Evans and Nathanael Paul, “Election security: Perception and reality”, IEEE Security & Privacy, vol. 2(1), Jan. 2004, pp. 24- 31.

