ONLINE VOTING SYSTEM

MINI-PROJECT REPORT

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WEB PROGRAMMING LAB

DAYANANDA SAGAR UNIVERSITY
Ac-year 2020-202

CERTIFICATE

This is to certify that the Web Programming Mini-Project report entitled **"ONLINE VOTING SYSTEM"** being submitted by **Vinay Nihar P, Gattu Naga Aswath Narayana, M Dinesh Kumar** to Department of Computer Science and Engineering, School of Engineering, Dayananda Sagar University, Bangalore, for the 7th semester B.Tech
C.S.E of this university during the academic year 2020-2021

Date:_____

_____

Signature of the Faculty in Charge

_____

Signature of the Chairmain

Acknowledgement

The success and final outcome of this Mini Project Report required a lot of guidance and assistance from many people and we are extremely privileged to have got this all through the completion of the Mini Project. All that we have done is only due to such supervision and assistance and we would not forget to thank them.

We respect and thank Dr. SANJAY CHITNIS, Professor and Chairman, for providing us an opportunity to do the Mini Project and giving us all support and guidance, which made us complete the report duly. We are extremely thankful to him for providing such a nice support and guidance, even though he has busy schedule managing the departmental affairs.

We owe our deep gratitude to our mentor Mrs. Gousia Thahniytah, Associate Professor, who took keen interest on our Mini Project and guided us all along, till the completion of our report by providing all the necessary information for developing a good project.

We are thankful to, and fortunate enough to get constant encouragement, support and guidance from all Teaching staffs of the Computer Science Engineering department, which helped us in successfully completing our report. Also, we would like to extend our sincere esteems to all staff in laboratory for their timely support.

ABSTRACT

The word "vote" means to choose from a list, to elect or to determine. The main goal of voting (in a scenario involving the citizens of a given country) is to come up with leaders of the people‟s choice.Most countries, Kenya not an exception have problems when it comes to voting. Some of the problems involved include ridging votes during election, insecure or inaccessible polling stations, inadequate polling materials and also inexperienced personnel.This online voting/polling system seeks to address the above issues. It should be noted that with this system in place, the users, citizens in this case shall be given ample time during the voting period. They shall also be trained on how to vote online before the election time.

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1. INTRODUCTION

In "ONLINE VOTING SYSTEM" a voter can use his\her voting right online without any difficulty. He\She has to be registered first for him/her to vote. Registration is mainly done by the system administrator for security reasons. The system Administrator registers the voters on a special site of the system visited by him only by simply filling a registration form to register voter. Citizens seeking registration are expected to contact the system administrator to submit their details. After the validity of them being citizens of India has been confirmed by the system administrator by comparing their details submitted with those in existing databases such as those as the Registrar of Persons, the citizen is then registered as a voter.After registration, the voter is assigned a secret Voter ID with which he/she can use to log into the system and enjoy services provided by the system such as voting. If invalid/wrong details are submitted, then the citizen is not registered to vote.

1.1 Objectives and Goals

- **Increase the voting percentage and even to improve the security of voting system with valid votes.**
- **Reviewing the existing/current voting process or approach in Organization**
- **Validating the system to ensure that only legible voters are allowed to vote.**
- **The level of accuracy in the proposed system will be higher. All operation would be done correctly and it ensures that whatever information is coming from the center is accurate.**

1.2 Existing system

The Existing System of Election is running manually. The Voter has to Visit to Booths to Vote a Candidate so there is wastage of Time. The Voter has to manually register into the Voter List. Also Vote counting has to be done manually. All the Information of the Voter or Candidate is to be filling in manually. Voter must be present in his/her Constituency to give his/her Vote. There are Electronic Voting Machines used which Takes More Cost. The voting system previously being used by the Government is a paper based system, in which the voter simply picks up ballots sheets from electoral officials, tick off who they would like to vote for, and then cast their votes by merely handing over the ballot sheet back to electoral official. Some of the existing systems are:

i. **Paper-based voting**
ii. **Direct recording electronic voting machine**
iii. **Punch card**

1.3 Problem statement

1. **Expensive and Time consuming: The process of collecting data and entering this data into the database takes too much time and is expensive to conduct, for example, time and money is spent in printing data capture forms, in preparing registration stations together with**

human resources, and there after advertising the days set for registration process including sensitizing voters on the need for registration, as well as time spent on entering this data to the database.

2. Too much paper work: The process involves too much paper work and paper storage which is difficult as papers become bulky with the population size.

3. Errors during data entry: Errors are part of all human beings; it is very unlikely for humans to be 100 percent efficient in data entry.

4. Loss of registration forms: Some times, registration forms get lost after being filled in with voters' details, in most cases these are difficult to follow-up and therefore many remain unregistered even though they are voting age nationals and interested in exercising their right to vote.

5. Short time provided to view the voter register: This is a very big problem since not all people have free time during the given short period of time to check and update the voter register.

1.4 Overview of the project

The ONLINE VOTING SYSTEM shall reduce the time spend making long queues at the polling stations during voting. It shall also enable the voters to vote from any part of the globe as explained since this is an online application available on the internet. Cases of vote miscounts shall also be solved since at the backend of this system resides a well developed database using MYSQL that can provide the correct data once it's correctly queried. Since the voting process shall be open as early as possible, the voters shall have ample time to decide when and whom to vote for.

2. RELATED STUDY

Web Application Framework is a software framework that is designed to support the development of web applications including web services, web resources, and web APIs. Frameworks are libraries that help to develop application faster and smarter.

2.1 Web Frameworks

- HTML- **HTML frameworks include standard codes in order to lessen the tiring coding job for the developers. These frameworks thus help developers use the predefined coding set instead of getting involved to do the task from scratch. o Sencha Touch o Montage**

- CSS - **CSS frameworks are meant for easier, standard and engaging web designs with the use of cascading style sheet language. Specific**

grids in the framework help in responsive web design development.

- **Bootstrap**
- **Skeleton**

✧ JavaScript **- JavaScript has taken the world of front-end development by storm. And for developers, it is not just another scripting language to conclude web app development easily.**

- **Angular.js**
- **Meteor.js**

3.REQUIREMENTSPECIFICATION

3.1 Introduction

The development of project needs some requirement to make the project perform better and achieves the goal of project. In developing Online Voting System, the capabilities of computer and hardware plays a big impact on project quality.The project maker should determine the minimum requirements of hardware and also software to be used to develop a good and attractive project.

3.2 Hardware Requirements

- **Processor - INTEL Core 2 Duo CPU or above,**
- **Ram - RAM of 4 GB or above,**
- **HDD - Hard Disk of 10 GB or above, • keyboard,**
- **Optical Mouse and**
- **Monitor for the display**

3.3 Software Requirement specification

Front End : PHP
Back End: MY SQL SERVER
Operating System: Windows XP or above
Browser: Any latest browser

3.4 Requirement Analysis

a. Functional requirements:

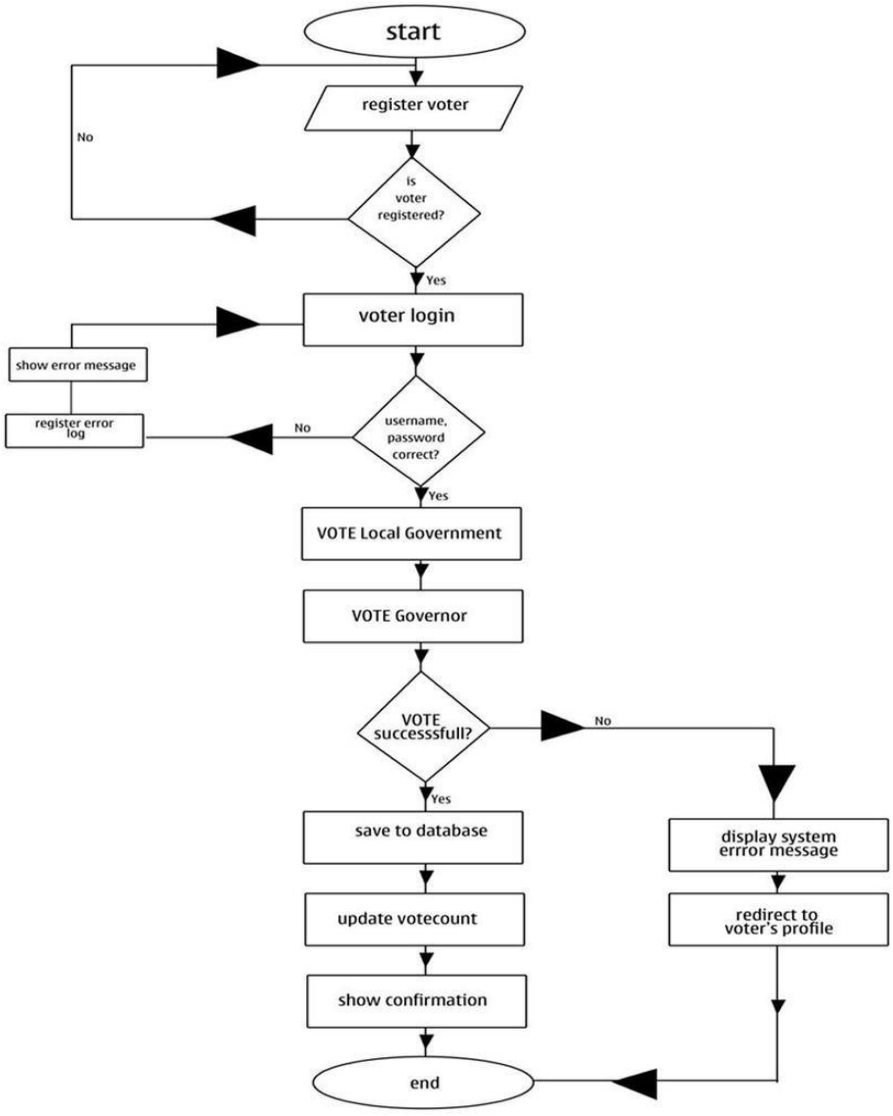
- ✧ **Registration of the voter is done by ELECTION COMMISION OF INDIA.**
- ✧ **ELECTION COMMISION OF INDIA can change the information any time if required.**
- ✧ **Registration of the Voter depends upon the information filled by the user.**
- ✧ **Voter is given a unique ID and PASSWORD.**
- ✧ **Voter can give vote after login and entering the ID and PASSWORD.**
- ✧ **In the DATABASE information of every voter is stored.**
- ✧ **Database shows the information of every user.**

b. NON-FUNCTIONAL REQUIREMENTS:

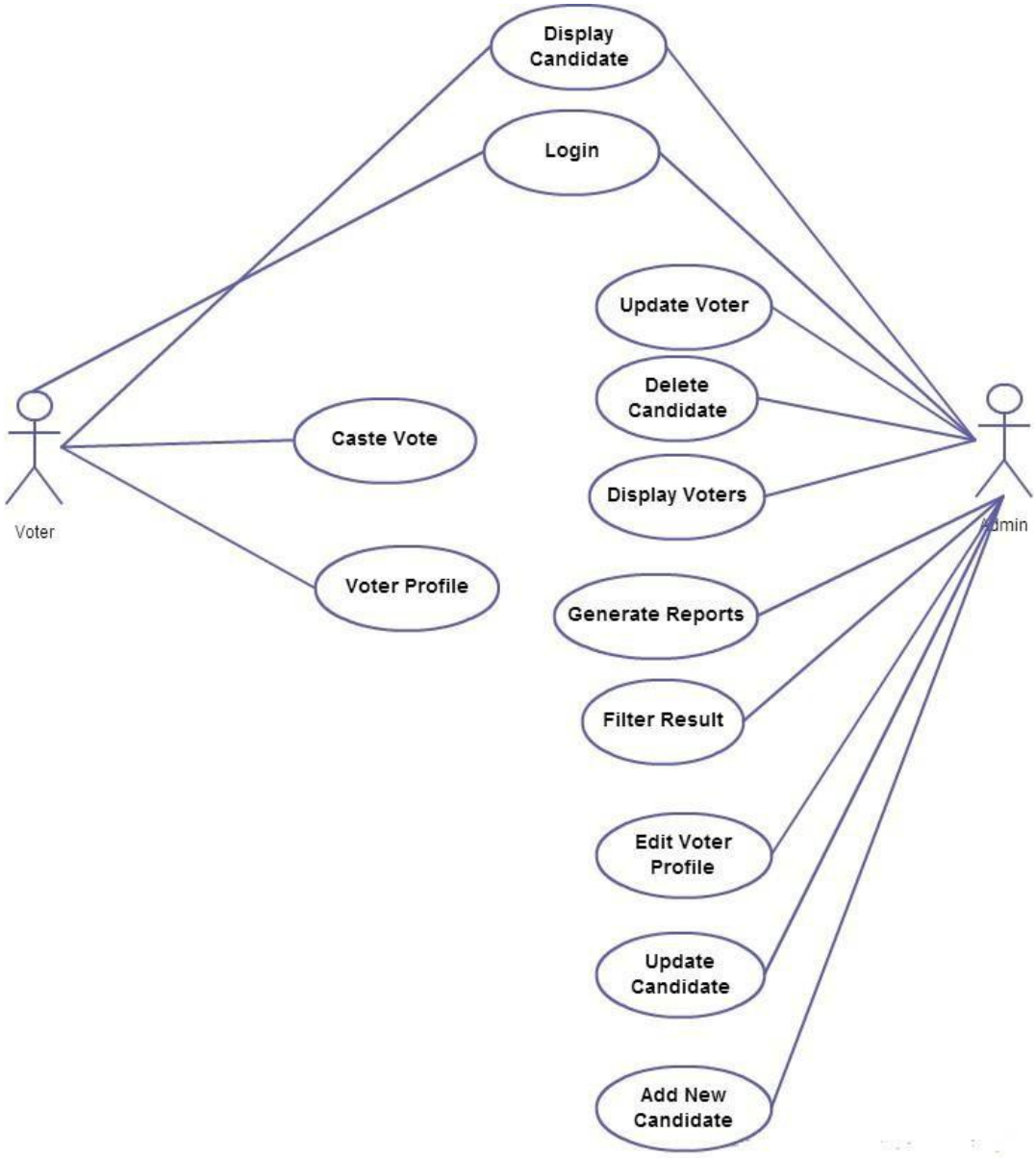
- ✧ **Secure access of confidential data (user's details). SSL can be used.**
- ✧ **24 X 7 availability.**
- ✧ **Better component design to get better performance at peak time.**
- ✧ **Flexible service based architecture will be highly desirable for future extension**

4.SYSTEM DESIGNING AND MODEL

4.1 Data flow diagram

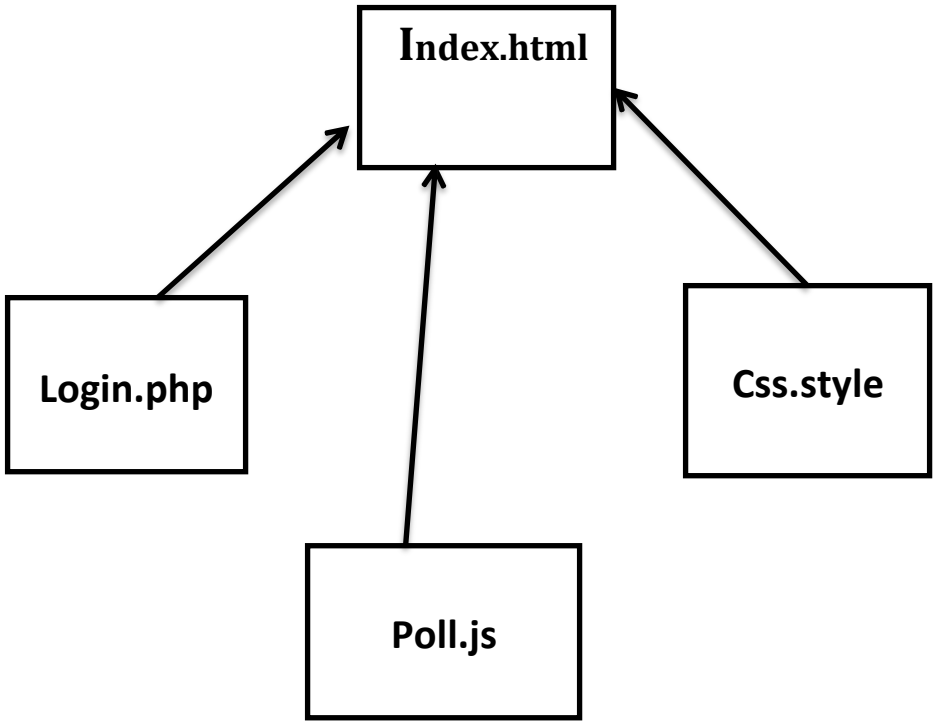


4.2 Use Case diagram



5.IMPLEMENTATION

5.1 Website Application Structure



5.2 Programming language for implementation

We used HTML, CSS ,PHP and JavaScript for our project.

5.3 Functional Description of Modules

Index.html

```
<!DOCTYPE html>
        <html lang="en">
    <head>
  <meta charset="utf-8">
     <meta http-equiv="X-UA-Compatible" content="IE=edge">
     <meta name="viewport" content="width=device-width, initial-scale=1">
```

```
  <title>EVoSys</title>
  <!-- Bootstrap -->
    <link href="css/bootstrap.css" rel="stylesheet">
    <style type="text/css">
  </style>
    <link href="css/homestyle.css" rel="stylesheet" type="text/css">

    <!-- HTML5 shim and Respond.js for IE8 support of HTML5 elements and media
queries -->
    <!-- WARNING: Respond.js doesn't work if you view the page via file:// -->
    <!--[if lt IE 9]>
          <script
src="https://oss.maxcdn.com/html5shiv/3.7.2/html5shiv.min.js"></script>
          <script
src="https://oss.maxcdn.com/respond/1.4.2/respond.min.js"></script>
        <![endif]-->
 </head>
 <body>
    <div class="container-fluid" id="wrap">
      <nav class="navbar navbar-default">
       <div class="container">
        <!-- Brand and toggle get grouped for better mobile display -->
        <div class="navbar-header">
         <button type="button" class="navbar-toggle collapsed" data-
toggle="collapse" data-target="#defaultNavbar1" aria-expanded="false"><span
class="sr-only">Toggle navigation</span><span class="icon-bar"></span><span
class="icon-bar"></span><span class="icon-bar"></span></button>
          <a class="navbar-brand"
href="http://localhost/evosys/index.html">EVoSys</a></div>
        <!-- Collect the nav links, forms, and other content for toggling -->
        <div class="collapse navbar-collapse" id="defaultNavbar1">
<ul class="nav navbar-nav navbar-right">
      <li><a href="http://localhost/evosys/about.html">About</a></li>
          <li><a href="http://localhost/evosys/register.html">Register</a></li>
          <li><a href="http://localhost/evosys/login.php">Login</a></li>
          <li><a href="http://localhost/evosys/profile.php">Candidate
Profiles</a></li>
          <li><a href="http://localhost/evosys/statistics.php">Statistics</a></li>
         </ul>
      </div>
        <!-- /.navbar-collapse -->
    </div>
      <!-- /.container-fluid -->
   </nav>
      <div id="carousel1" class="carousel slide" data-ride="carousel">
       <ol class="carousel-indicators">
        <li data-target="#carousel1" data-slide-to="0" class="active"></li>
```

```
          <li data-target="#carousel1" data-slide-to="1"></li>
      </ol>
        <div class="carousel-inner" role="listbox">
         <div class="item active"><a
href="http://localhost/evosys/register.html"><img src="images/registernow.jpg"
alt="First slide image" class="center-block imgfill"></a>        </div>
         <div class="item"><a href="http://localhost/evosys/profile.php"><img
src="images/ChoosingWisely-CMYK-taglineR.jpg" alt="Second slide image"
class="center-block imgfill"></a>        </div>
      </div>
        <a class="left carousel-control" href="#carousel1" role="button" data-
slide="prev"><span class="glyphicon glyphicon-chevron-left" aria-
hidden="true"></span><span class="sr-only">Previous</span></a><a class="right
carousel-control" href="#carousel1" role="button" data-slide="next"><span
class="glyphicon glyphicon-chevron-right" aria-hidden="true"></span><span
class="sr-only">Next</span></a></div>
       <article id="art">
        <h1>Welcome to EVoSys</h1>
        <p>EVoSys is an online voting system, developed just for your
convinience!</p>
        <p>The system aims at simplicity of the voting process! </p>
       </article>
    <div class="container">
     <div class="row">
      <div class="col-md-3">
       <div class="thumbnail"><a href="http://localhost/evosys/polls.html"><img
src="images/election.jpg" alt="Thumbnail Image 1" class="imgfill"></a>
         <div class="caption">
          <h3>Current &amp;amp; Upcoming Elections</h3>
          <p>Check out this page to find out which are up and coming elections for
you!</p>
 </div>
        </div>
       </div>
       <div class="col-md-3">
        <div class="thumbnail"><a
href="http://localhost/evosys/statistics.php"><img src="images/results.jpg"
alt="Thumbnail Image 1" class="imgfill"></a>
         <div class="caption">
          <h3>Analyze through past statistics</h3>
          <p>Check out the statistics of past elections held so far!</p>
         </div>
        </div>
       </div>
       <div class="col-md-3">
```

```
        <div class="thumbnail"><a
href="http://localhost/evosys/register.html"><img src="images/register.png"
alt="Thumbnail Image 1" class="imgfill"></a>
          <div class="caption">
            <h3>Have you registered yet?</h3>
            <p>Proceed for the registeration page while the elections are still
open!</p>
          </div>
        </div>
      </div>
      <div class="col-md-3">
        <div class="thumbnail"><a href="http://localhost/evosys/profile.php"><img
src="images/Image-10 (1).jpg" alt="Thumbnail Image 1" class="imgfill"></a>
          <div class="caption">
            <h3>Know your candidates</h3>
            <p>Choose your representative wisely. Find out here whether they are the
right representative of your cause and society!</p>
          </div>
        </div>
      </div>
    </div>
  </div>
      <footer>&copy; Copyright 2016</footer>
  </div>
    <!-- jQuery (necessary for Bootstrap's JavaScript plugins) -->
    <script src="js/jquery-1.11.3.min.js"></script>

    <!-- Include all compiled plugins (below), or include individual files as needed --
>
    <script src="js/bootstrap.js"></script>
 </body>
</html>
```

Login.php

```
<!DOCTYPE html>
    <html lang="en">
  <head>
  <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>Login</title>
  <!-- Bootstrap -->
    <link href="css/bootstrap.css" rel="stylesheet">
    <link href="css/loginstyle.css" rel="stylesheet" type="text/css">
```

```
    <!-- HTML5 shim and Respond.js for IE8 support of HTML5 elements and media
queries -->
    <!-- WARNING: Respond.js doesn't work if you view the page via file:// -->
    <!--[if lt IE 9]>
          <script
src="https://oss.maxcdn.com/html5shiv/3.7.2/html5shiv.min.js"></script>
          <script
src="https://oss.maxcdn.com/respond/1.4.2/respond.min.js"></script>
        <![endif]-->
 </head>
 <body>
 <div class="container-fluid" id="wrap">
      <nav class="navbar navbar-default">
       <div class="container">
        <!-- Brand and toggle get grouped for better mobile display -->
        <div class="navbar-header">
         <button type="button" class="navbar-toggle collapsed" data-
toggle="collapse" data-target="#defaultNavbar1" aria-expanded="false"><span
class="sr-only">Toggle navigation</span><span class="icon-bar"></span><span
class="icon-bar"></span><span class="icon-bar"></span></button>
          <a class="navbar-brand"
href="http://localhost/evosys/index.html">EVoSys</a></div>
         <!-- Collect the nav links, forms, and other content for toggling -->
         <div class="collapse navbar-collapse" id="defaultNavbar1">
<ul class="nav navbar-nav navbar-right">
      <li><a href="http://localhost/evosys/about.html">About</a></li>
          <li><a href="http://localhost/evosys/register.html">Register</a></li>
          <li><a href="http://localhost/evosys/login.php">Login</a></li>
          <li><a href="http://localhost/evosys/profile.php">Candidate
Profiles</a></li>
          <li><a href="http://localhost/evosys/statistics.php">Statistics</a></li>
         </ul>
      </div>
        <!-- /.navbar-collapse -->
    </div>
      <!-- /.container-fluid -->
   </nav>

   <form action="http://localhost/evosys/welcome.php" method="post">
   <div class="container">
    <label for="textfield"><b>UID</b></label>
    <input type="text" placeholder="Enter UID" name="name" id="textfield"
required>
    <label for="password"><b>Password</b></label>
    <input type="password" placeholder="Enter Password" name="password"
id="password" required>
<input type="submit" name="submit" id="submit" value="Login" >
```

```
    </div>
    <div class="container">
    <span class="psw"><a href="http://localhost/evosys/register.html">Not yet
registered?</a></span>
 </div>
    </form>
 </div>
     <!-- jQuery (necessary for Bootstrap's JavaScript plugins) -->
     <script src="js/jquery-1.11.3.min.js"></script>

     <!-- Include all compiled plugins (below), or include individual files as needed --
>
     <script src="js/bootstrap.js"></script>
 </body>
</html>
```

Polls.js

```
      <!DOCTYPE html>
<html lang="en">
 <head>
  <meta charset="utf-8">
     <meta http-equiv="X-UA-Compatible" content="IE=edge">
     <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>Upcoming Elections</title>
  <!-- Bootstrap -->
     <link href="css/bootstrap.css" rel="stylesheet">
     <link href="css/pollstyle.css" rel="stylesheet" type="text/css">

     <!-- HTML5 shim and Respond.js for IE8 support of HTML5 elements and media
queries -->
     <!-- WARNING: Respond.js doesn't work if you view the page via file:// -->
     <!--[if lt IE 9]>
           <script
src="https://oss.maxcdn.com/html5shiv/3.7.2/html5shiv.min.js"></script>
           <script
src="https://oss.maxcdn.com/respond/1.4.2/respond.min.js"></script>
         <![endif]-->
 </head>
 <body>
     <div class="container-fluid" id="wrap">
      <nav class="navbar navbar-default">
       <div class="container">
        <!-- Brand and toggle get grouped for better mobile display -->
        <div class="navbar-header">
```

```
          <button type="button" class="navbar-toggle collapsed" data-
toggle="collapse" data-target="#defaultNavbar1" aria-expanded="false"><span
class="sr-only">Toggle navigation</span><span class="icon-bar"></span><span
class="icon-bar"></span><span class="icon-bar"></span></button>
          <a class="navbar-brand"
href="http://localhost/evosys/index.html">EVoSys</a></div>
         <!-- Collect the nav links, forms, and other content for toggling -->
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<ul class="nav navbar-nav navbar-right">
      <li><a href="http://localhost/evosys/about.html">About</a></li>
           <li><a href="http://localhost/evosys/register.html">Register</a></li>
           <li><a href="http://localhost/evosys/login.php">Login</a></li>
           <li><a href="http://localhost/evosys/profile.html">Candidate
Profiles</a></li>
           <li><a href="http://localhost/evosys/statistics.php">Statistics</a></li>
          </ul>
      </div>
        <!-- /.navbar-collapse -->
    </div>
      <!-- /.container-fluid -->
   </nav>
      <div class="container"><legend>Upcoming Elections are as follows -
</legend>
   <ol>
    <li>POLARIS Committee Selection</li>
       <li>General Secretary (Student Body) Selection</li>
      </ol></div>
  </div>
    <!-- jQuery (necessary for Bootstrap's JavaScript plugins) -->
    <script src="js/jquery-1.11.3.min.js"></script>

    <!-- Include all compiled plugins (below), or include individual files as needed --
>
    <script src="js/bootstrap.js"></script>
 </body>
</html>
```

Style.css

```
body {
  width:100%;
    text-align:center;
    background-color: #F5F3EE;
}

.navbar.navbar-default {
```

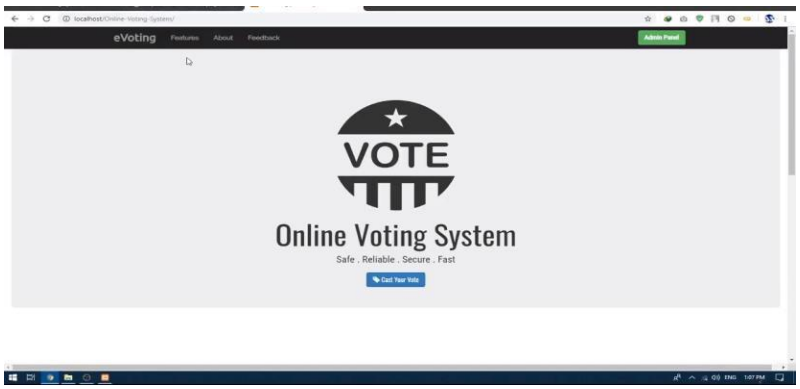
```
      border-width: 0px;
      border-radius: 0px;
background-color: #F5F3EE;
       margin-top: 20px;
}
#wrap {
      padding-left: 1px;
      padding-right: 1px;
}

img{
      border:0;
}

#main{
   margin: 15px auto;
   overflow: auto;
      width: 100%;
}

#header{
      margin-bottom:15px;
}

#mainbody{ w
   idth:100%;
      display:none;
}

#result{
      /*border:solid;
      border-width: 2px 2px 2px 2px;
      padding: 20px;
      width: 70%;*/
}

#v{
   width:320px;
      height:240px;
}

#qr-canvas{
      display:none;
}

#qrfile{ width:
   320px;
```

```
    height:240px;
}

#mp1{
   text-align:center;
    font-size:35px;
}

#imghelp{ position:
   relative; left:0px;
   top:-160px;
   z-index:100;
   font:18px arial,sans-serif;
   background:#f0f0f0;
   margin-left:35px;
   margin-right:35px;
   padding-top:10px;
   padding-bottom:10px;
    border-radius:20px;
}

.selector{ margin:
   0; padding:0;
   cursor:pointer;
    margin-bottom:-5px;
}

#outdiv
{
   width:320px;
   height:240px;
   border: solid;
    border-width: 3px 3px 3px 3px;
}

#result{ padding:
   20px;
    width:70%;
}

.tsel{
    padding:0;
}
```

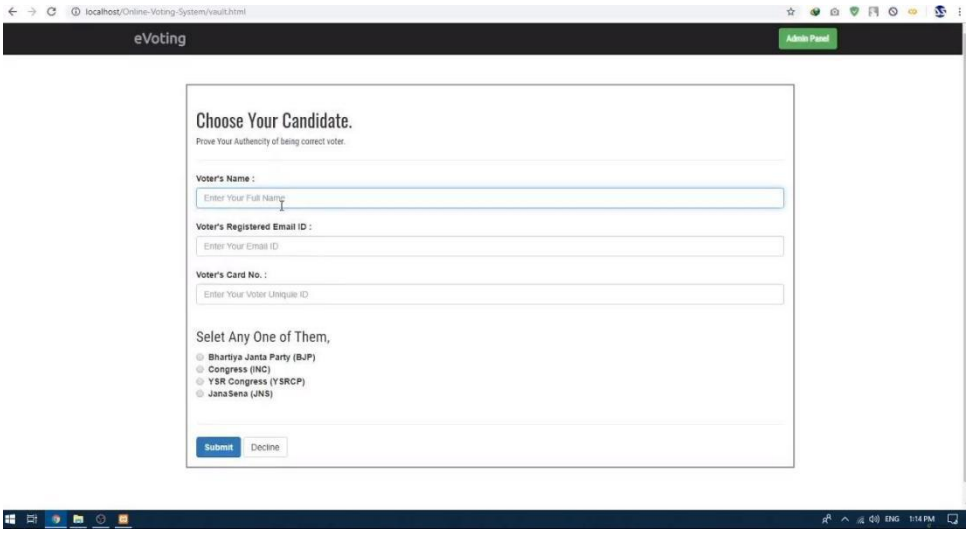
5.4.1 Module names

- **Index.html** – **This module contains the main page of the online voting. This is accessed by the user when he/she wants to vote**
- **Login.php** – **This module is used for login by the user. It is used to submit the vote.**
- **Polls.js** – **This module shows final result whose having maximum vote.**
- **Style.css – This module is the styling sheet for main page.**

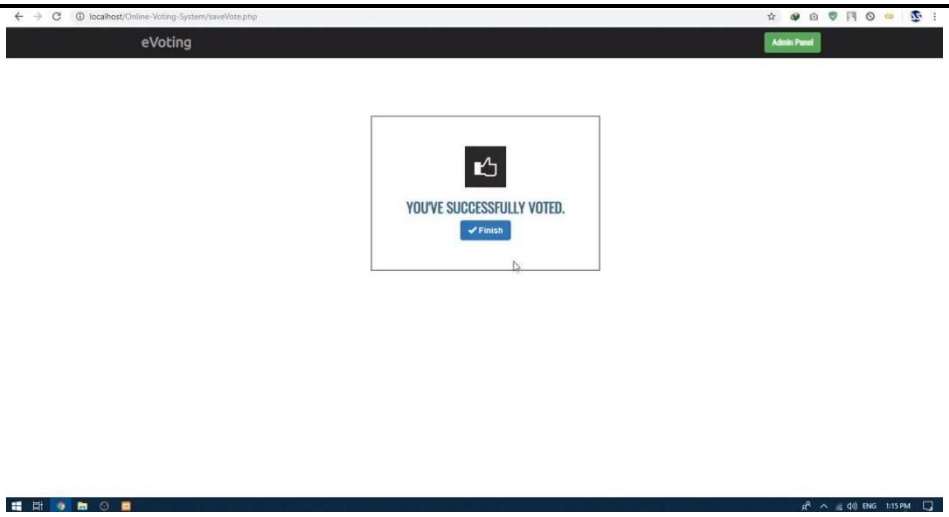
6. INFERENCE FROM THE RESULT



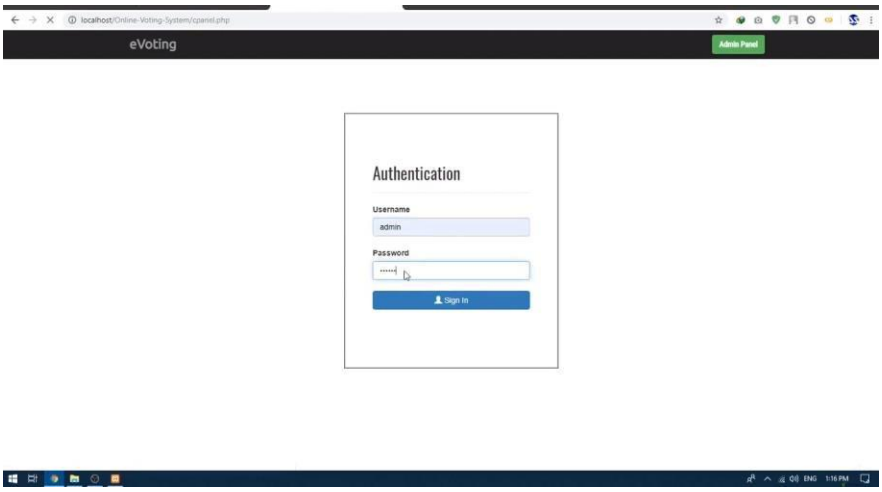
6.(a) HOME PAGE



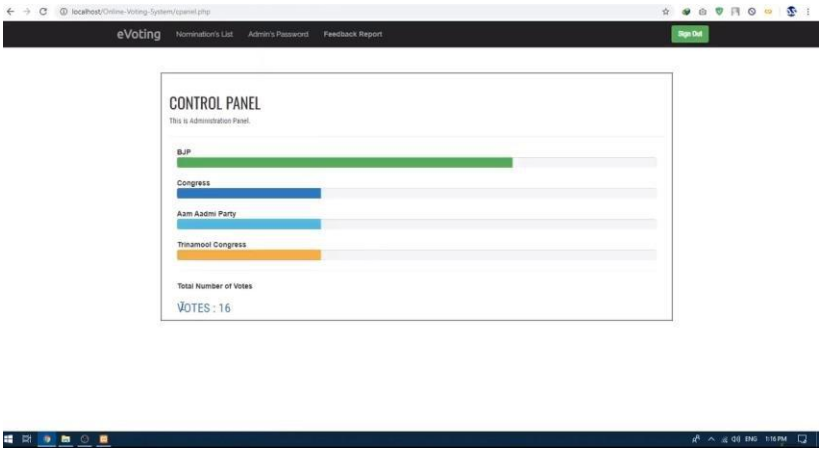
6(b) VOTING PAGE



6.C CONFIRMATION PAGE



6(d) ADMIN PAGE



6.e POLL PAGE

7. CONCLUSION & FUTURE ENHANCEMENT

7.1 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. It provides the tools for maintaining voter's vote to every party and it count total no. of votes of every party. There is a DATABASE which is maintained by the ELECTION COMMISION OF INDIA in which all the names of voter with complete information is stored.

In this user who is above 18 year's 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 party 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.

7.2 Future Enhancement

The Online Voting System platform can be made more secure by using the following methods

- **Password Changing**
- **Fingerprinting**
- **Cornea Detection**

The password used by the user to vote is provided by the administrator. In the future the user can be given the privilege of changing the password. So it helps to increase the security of the system. The other two methods that can be used are cornea detection and fingerprinting. But here the problem is that it decreases the scope of the platform because these systems need some electronic components to implement. So it will avoid the users privilege to cast

the votes at their fingertips. But it can guarantee that fake voting will be impossible.

8. REFERENCES

In the making of this project I got help from these websites.

The sources are:

www.php.net

www.w3schools.com

www.google.com

www.youtube.com