

# **Rajiv Gandhi University of Knowledge Technologies**

R.K Valley, Y.S.R Kadapa (Dist)-516330

A  
project report  
on

## **Online Voting System**

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Under the guidance of

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This project report has been submitted in fulfillment of the requirements for the Degree of Bachelor of Technology in software Engineering.

May-2023

Rajiv Gandhi University of Knowledge Technologies  
IIIT,R.K.Valley,YSR Kadapa (Dist) -516330



## **CERTIFICATE**

This is to certify that report entitled “**Online Voting System**” Submitted by K.Brahmaiah (R170191), B.Bhaskar (R170312) in partial fulfillment of the requirements of the award of bachelor of technology in computer science engineering is a bonafide work carried by them under the supervision and guidance.

The report has been not submitted previously in part or full to this or any other university or institute for the award of any degree or diploma.

**GUIDE**

Mr.K VINODKUMAR

**HEAD OF THE DEPARTMENT**

Mr.N SATYANANDRAM

## ACKNOWLEDGEMENT

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At the outset, we would like to thank **Rajiv Gandhi University of Knowledge Technologies (RGUKT)**, for providing all the necessary resources and support for the successful completion of my course work.

## **DECLARATION**

We hereby declare that this report entitled “**Online Voting System** ” Submitted by us under the guidance and supervision of **Mr. K.VinodKumar**, is a bonafide work. We also declare that it has not been of Submitted previously in part or in full to this University or other institution for the award of any degree or diploma.

**Date:-** 02-05-2023

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**Place:-**RK-VALLEY

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## **ABSTRACT**

The word vote means to choose from a list, to elect or to determine the government. The main goal of voting is to come up with the leaders of the people's choice. Voting is the key part of any democratic system in the world. Most countries and also india not an exception have problems when it comes to the voting. Some of the problems involved in organising elections are conducting election in remote areas, crime infected areas, inadequate polling materials etc.,. Issues like waiting issues and resource allocations are frequent during the elections.

Online Voting System is a web based voting system developed by using full stack technology. In traditional voting systems votes are casted by presenting physically at the booth station whether it is paper based or Electronic Voting Machine (EVM). In this system for using this service user must registered by the authorized admin approved by the election commision. Admin has the right to edit and delete the user incase of fake votes. Once you got registered and you are not fake now you can vote from anywhere by using credentials genereated during the registration process. This system is simple, safe and secure method that takes minimum of time.

## INTRODUCTION

Online Voting System is a web based voting system developed using full stack technologies. With the help of this system we can now vote for our favourite candidate from anywhere regardless of the location only if you are member of constituency registered by the authorized people. This system contain two parts one is admin and another one is voter. In this admin have full access to the voter and election process with in the rules set by the authority. He can create/edit/search/delete the voter/candidate/positions. He can view the votes voted by voter and dashboard.

A voter must register before using this service by the authorized admin. Then A voter ID and password are assigned to the user. Voter can choose their favourite candidate and can preview before submitting their vote and can view any time his polled before ending of the election. Voter must poll the votes within the time limit set by the authority.

Advantages of Online Voting System are:

1. Instant result after the election is ended.
2. We can vote anywhere at within the time period set by the authority .
3. Safe and secure and low cost required for conducting.

## PURPOSE

The purpose of making Online Voting System is

- 1. Convenience:** With this system we can now easily cast our vote regardless of the geographical location. Due to this organizing issues and political issues are almost mitigated along with the resource issues.
- 2. Cost -Effective:** We can largely reduce costs in conducting the elections and proper utilization of the existing technologies.
- 3. Easy to use:** This system is designed in a way that it easy to use. With all parts are clearly arranged in a manner that is easy to use and take less to time to learn and usage with minimal descriptions.

## OVERALL DESCRIPTION

- Online Voting System enables you to cast your vote from anywhere through web User Interface(UI)
- This project has mainly two parts one part for voter and another part is for admin.
- In this system admin can create/edit/delete voter/candidate/position, can view the dashboard/ballot preview, can set the election name.
- Voter can cast the vote, can preview the vote and view casted vote.

### 1. Admin

**a) Voter:** Admin can create/edit/search/delete the voter based on the guidelines set by the organization.

**b) Position:** Admin can add/edit/search/delete the positions on the basis of the requirements

**c) Candidates:** Admin can add/edit/search/delete the candidates as per the regulations of the authority.

**d) Ballot Preview:** Admin can preview the ballot before proceeding to elections as last check.

**e) Polled votes:** Admin has the access to the votes casted by the voter.

**f) Title selection:** Admin will have the access to choose the title for the election.

**g) Dashboard:** Admin can view the overall activities of the system in one page.



## **2. Voter**

**a) Castig:** Voter can cast the vote for an candidate from the given list and can reset the selected options.

**b) preciew:** Voter can preview the selected candidates before the submitting the votes.

**c) View:** Voter can view the casted anytime with the login credentials.

## **EXISTING SYSTEM**

The voting system currently being used by most countries are paper based voting system. In this type of systems the voter simply picks up the ballot sheets from electoral officials, tick off who they would like to vote for. In EVM also we have to be present to cast our vote for our favourite leader. In ballot system votes are collected and counted and EVM votes are counted automatically.

Several problems like remote areas election, rigging, resource allocation occurs during the election. We have to be present physically and it is becoming for older age people to come and employess reluctance to cast vote due to long waitng queues. Traditional way of conducting the elections also needs infrastructure for a while which wil slightly disrupt their regular activities.

## **DRAWBACK OF EXISTING SYSTEMS**

- Several problems like remote areas election, rigging, resource allocation occurs during the election process.
- Traditional way of conducting the elections also needs infrastructure for a while which will slightly disrupt their regular activities
- Violence and bloodshed may happen during the election in sensitive areas.
- One has to be present physically and it is becoming tough for older age people to come and cast the vote.
- For employees their reluctance to cast vote was evident because of long waiting queues and heavy traffics.
- Not a cost-effective approach for conducting the elections.
- Citizens have to wait for long time to get the results after they cast their vote.

## PROPOSED SYSTEM

- Considering the drawbacks of the existing system the following proposed system has been implemented.
- The following proposed system has mainly two parts one part is for voter and other part is admin.
- Admin has full access or atmost over the entire system.
- Admin can do the following actions:
  - a) Can add/edit/search/delete the voters.
  - b) Can add/edit/search/delete the candidates.
  - c) Can add/edit/search/delete the positions.
  - d) View/reset the votes polled by the voters.
  - e) View the dashbaord.
  - f) View the ballot preview fo the candidates.
  - g)Setting the title for the elections.
- For using the existing systems one must registerd as the voter by the authorized admin by attending physically.
- After the registraion is done user is allocated a voter ID and password by the admin.
- Voter can login with the credentials to use the system.
- After login to the system user can select their favourite candidate and preview their votes.

- Voter can reset the votes at any time before casting once you cast your vote you can view only thte votes

## ◆ **SOFTWARE COMPONENTS**

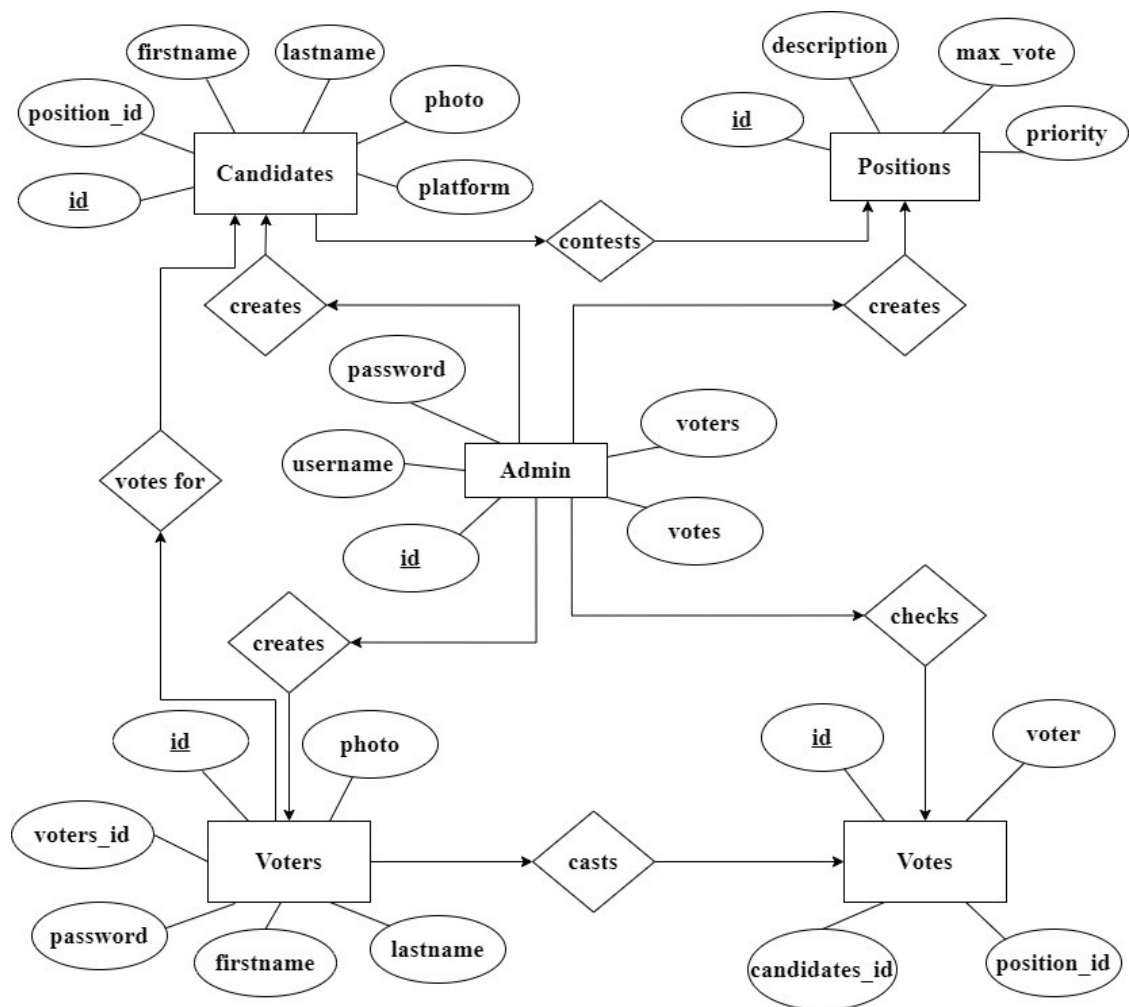
1. Windows 7 or above
2. SQL Server 2008
3. Xamp server
4. Browser:-Google Chrome/Mozilla Firefox
5. Technologies: - HTML, CSS, JavaScript, PHP, MySQL, Bootstrap, Ajax.

## ◆ **HARDWARE COMPONENTS**

- a. Processor – Core i3
- b. Hard Disk – 1 TB
- c. Memory – 4GB
- d. Speed: 1.1 GHz

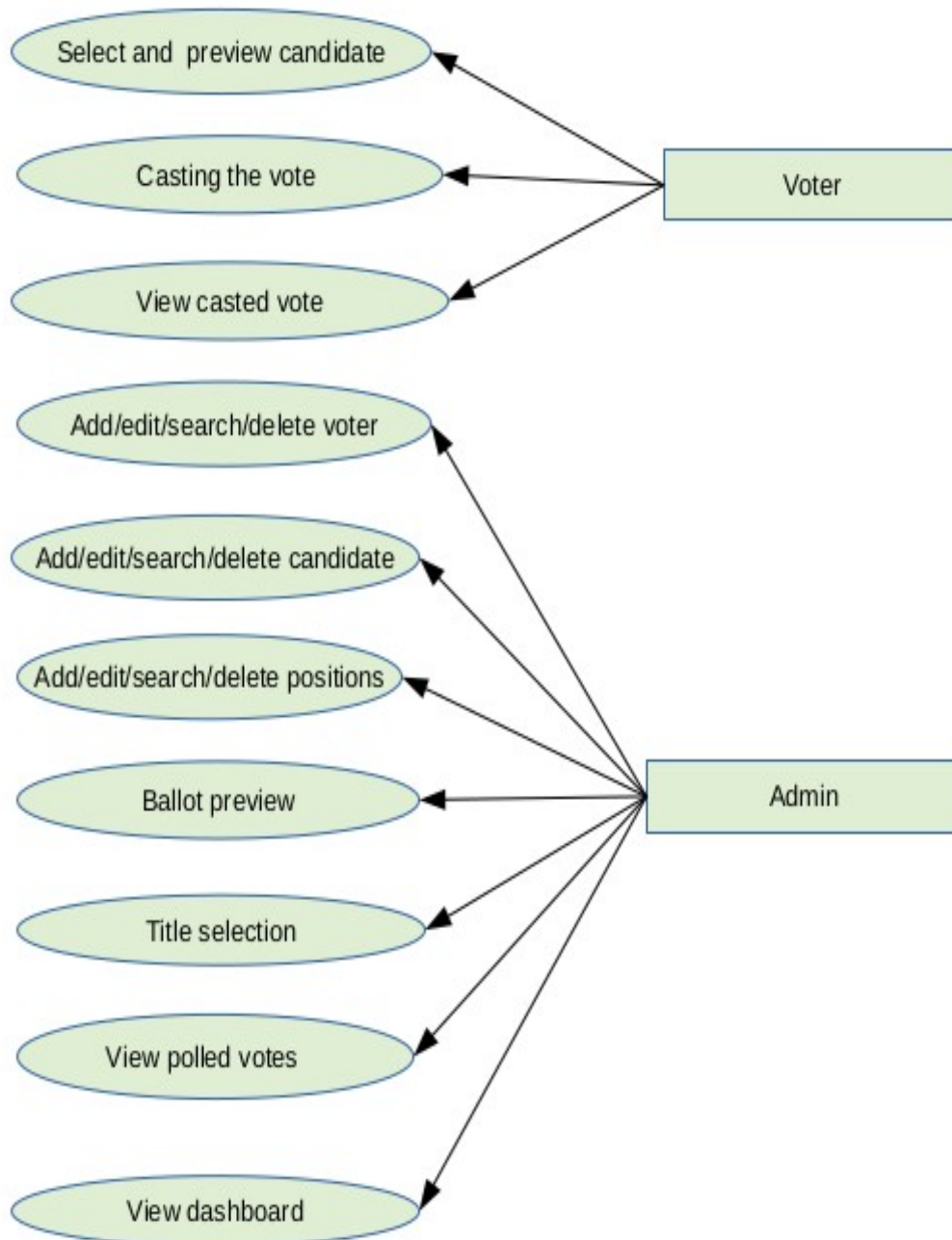
## WORKING MODEL

### 1.1. E-R DIAGRAM



**ER DIAGRAM OF**  
**ONLINE VOTING MANAGEMENT SYSTEM**

## 1.2 USE-CASE DIAGRAM



## IMPLEMENTATION

### Index.php

```
<?php
    session_start();
    if(isset($_SESSION['admin'])){
        header('location:home.php');
    }
?>

<?php include 'includes/header.php'; ?>
<body class="hold-transition login-page">
<div class="login-box">
    <div class="login-logo">
        <b>Online Voting System</b>
    </div>

    <div class="login-box-body">
        <p class="login-box-msg">Sign in to start your session</p>

        <form action="login.php" method="POST">
            <div class="form-group has-feedback">
                <input type="text" class="form-control" name="username"
placeholder="Username" required>
                <span class="glyphicon glyphicon-user form-control-feedback"></span>
            </div>

            <div class="form-group has-feedback">
                <input type="password" class="form-control" name="password"
placeholder="Password" required>
                <span class="glyphicon glyphicon-lock form-control-feedback"></span>
            </div>
        </form>
    </div>
</div>
```

```

        <div class="row">

            <div class="col-xs-4">

                <button type="submit" class="btn btn-primary btn-block btn-flat"
name="login"><i class="fa fa-sign-in"></i> Sign In</button>

            </div>

        </div>

    </form>

</div>

<?php
    if(isset($_SESSION['error'])){
        echo "

            <div class='callout callout-danger text-center mt20'>

                <p>".$_SESSION['error']. "</p>

            </div>

        ";
        unset($_SESSION['error']);
    }

?>

</div>

<?php include 'includes/scripts.php' ?>
</body>
</html>

```

## Ballot\_up.php

```

?php

    include 'includes/session.php';

    if(isset($_POST['id'])){

        $id = $_POST['id'];

        $output = array('error'=>false);
    }

```



```

        $sql = "SELECT * FROM positions WHERE id='$id'";
        $query = $conn->query($sql);
        $row = $query->fetch_assoc();

        $priority = $row['priority'] - 1;

        if($priority == 0){
            $output['error'] = true;
            $output['message'] = 'This position is already at the top';
        }
        else{
            $sql = "UPDATE positions SET priority = priority + 1 WHERE
priority = '$priority'";
            $conn->query($sql);

            $sql = "UPDATE positions SET priority = '$priority' WHERE id =
'$id'";
            $conn->query($sql);
        }

        echo json_encode($output);
    }
}

```

?>

# OUTPUT

## 1. Admin login

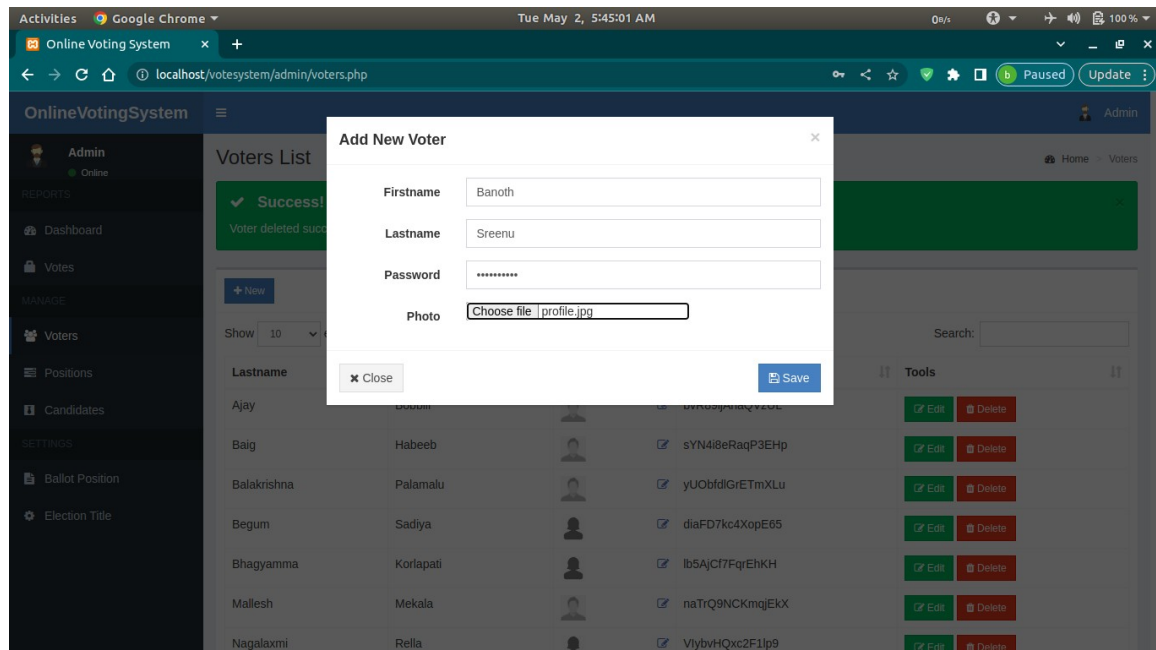
The screenshot shows the admin login interface of the Online Voting System. The browser address bar indicates the URL is localhost/votesystem/admin/index.php. The page has a light purple background with the title "Online Voting System" in the center. Below the title is a white login box with the text "Sign in to start your session". Inside the box, there are two input fields: the first contains the username "admin" and the second contains masked password characters "\*\*\*\*\*". Below these fields is a blue "Sign In" button.

## 2. Voters List

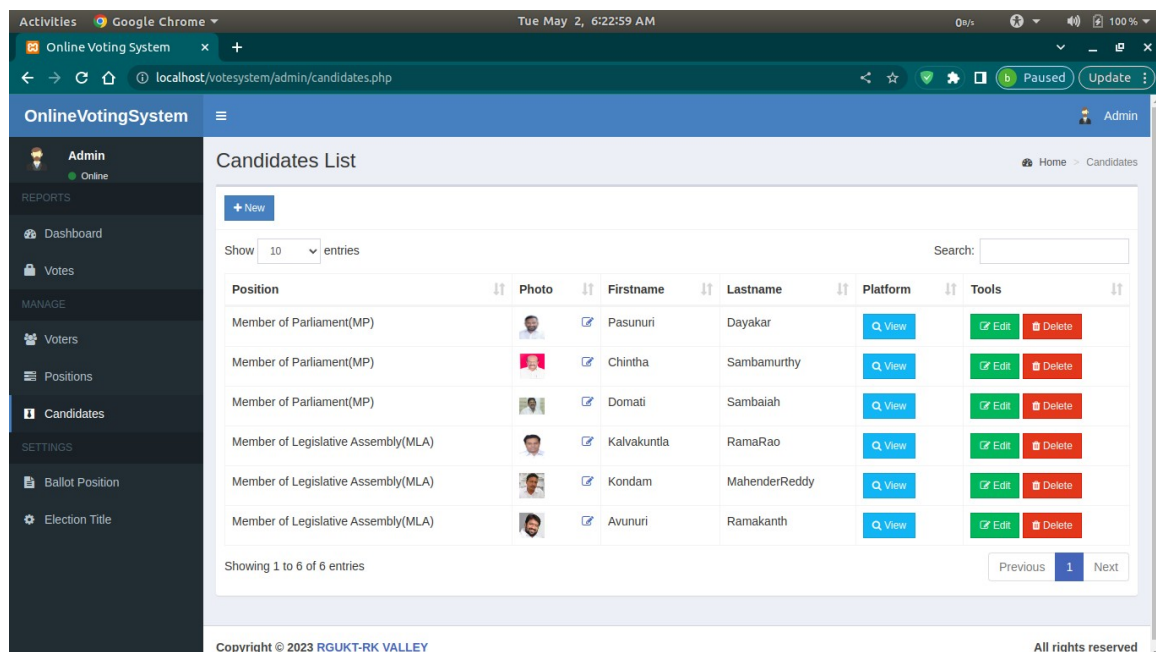
The screenshot shows the voters list interface. On the left is a dark sidebar with navigation links: Online, REPORTS (Dashboard, Votes), MANAGE (Voters, Positions, Candidates), and SETTINGS (Ballot Position, Election Title). The main content area is titled "Voters List" and features a "+ New" button, a "Show 10 entries" dropdown, and a search bar. Below this is a table with 12 rows of voter data. Each row includes columns for Lastname, Firstname, Photo, Voters ID, and Tools (Edit and Delete buttons). The table is paginated, showing "Showing 1 to 10 of 12 entries" and navigation links for "Previous", "1", "2", and "Next".

Lastname	Firstname	Photo	Voters ID	Tools
Ajay	Bobbili		bvR89ljAhaQVzUL	
Baig	Habeeb		sYN4i8eRaqP3EHp	
Balakrishna	Palamalu		yUObfdlGtETmXLu	
Begum	Sadiya		diaFD7kc4XopE65	
Bhagyamma	Korlapati		lb5AJC7FqrEhKH	
Mallesh	Mekala		naTrQ9NCKmqjEkX	
Nagalaxmi	Rella		VlybvHQxc2F1lp9	
Ravi	Banoth		S3cJ2o97AmxeqOj	
Saroja	Badavath		894ymKZpQjTkwn1	
Sudarshan	Kori		VIFcktrvUNG3wLZ	

### 3. Adding Voters



### 4. Candidates



## 5. Editing Candidate

The screenshot shows the 'Online Voting System' Admin interface. A modal window titled 'Edit Position' is open, allowing the user to edit a position. The modal contains two input fields: 'Description' with the value 'Member of Parliament(MP)' and 'Maximum Vote' with the value '1'. There are 'Close' and 'Update' buttons at the bottom of the modal. In the background, the 'Positions' table is visible, showing two entries: 'Member of Parliament(MP)' and 'Member of Legislative Assembly(MLA)'. The interface includes a sidebar with navigation links like 'Dashboard', 'Votes', 'Voters', 'Positions', 'Candidates', 'Ballot Position', and 'Election Title'. The footer shows 'Copyright © 2023 RGUKT-RK VALLEY' and 'All rights reserved'.

Description	Maximum Vote
Member of Parliament(MP)	1
Member of Legislative Assembly(MLA)	1

## 6. Positions

The screenshot shows the 'Online Voting System' Admin interface with the 'Positions' table displayed. The table has columns for 'Description', 'Maximum Vote', and 'Tools'. There are two entries: 'Member of Parliament(MP)' and 'Member of Legislative Assembly(MLA)'. Each entry has 'Edit' and 'Delete' buttons in the 'Tools' column. The interface includes a sidebar with navigation links like 'Dashboard', 'Votes', 'Voters', 'Positions', 'Candidates', 'Ballot Position', and 'Election Title'. The footer shows 'Copyright © 2023 RGUKT-RK VALLEY' and 'All rights reserved'.

Description	Maximum Vote	Tools
Member of Parliament(MP)	1	<a href="#">Edit</a> <a href="#">Delete</a>
Member of Legislative Assembly(MLA)	1	<a href="#">Edit</a> <a href="#">Delete</a>

## 7. Deleting Position

The screenshot shows the 'Positions' page in the Online Voting System Admin interface. A modal dialog titled 'Deleting...' is open, displaying 'DELETE POSITION' and 'Member of Parliament(MP)'. The dialog has 'Close' and 'Delete' buttons. In the background, a table lists positions:

Description	Count
Member of Parliament(MP)	1
Member of Legislative Assembly(MLA)	1

The interface includes a sidebar with navigation links (Admin, Reports, Dashboard, Votes, Manage, Settings) and a top navigation bar. The footer shows 'Copyright © 2023 RGUKT-RK VALLEY' and 'All rights reserved'.

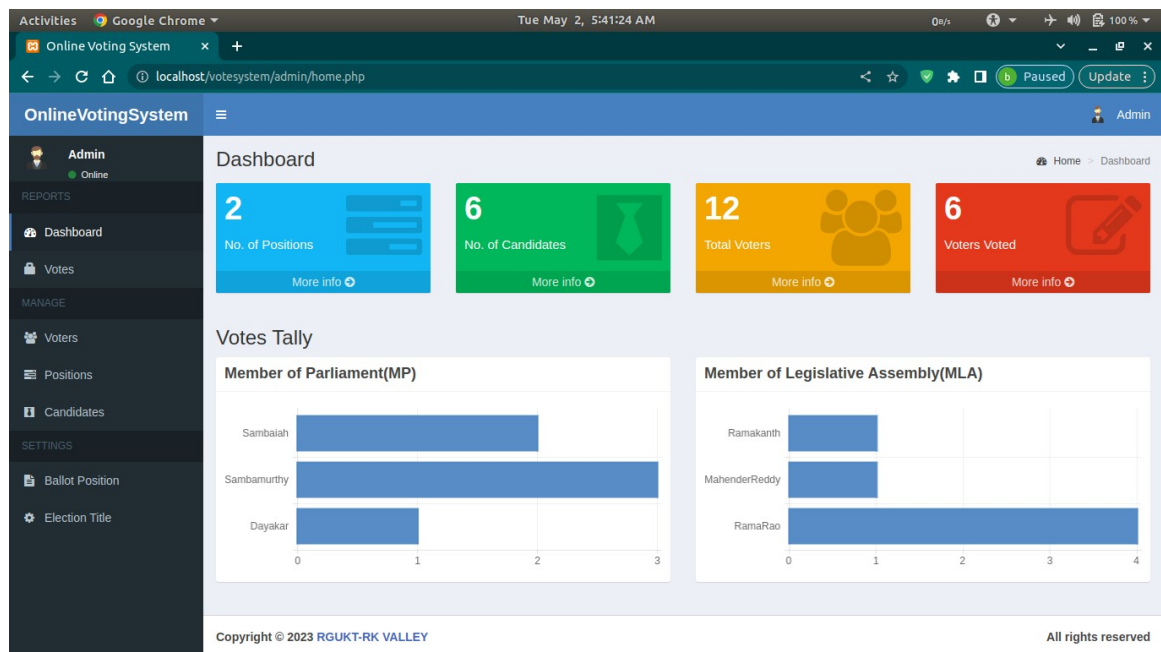
## 8. Polled Votes

The screenshot shows the 'Votes' page in the Online Voting System Admin interface. A 'Reset' button is at the top left. Below it, a table displays the following data:

Position	Candidate	Voter
Member of Parliament(MP)	Chintha Sambamurthy	Bobbili Ajay
Member of Parliament(MP)	Domati Sambaiah	Rella Nagalaxmi
Member of Parliament(MP)	Pasunuri Dayakar	Habeeb Baig
Member of Parliament(MP)	Chintha Sambamurthy	Banoth Ravi
Member of Parliament(MP)	Chintha Sambamurthy	Badavath Saroja
Member of Parliament(MP)	Domati Sambaiah	Sadiya Begum
Member of Legislative Assembly(MLA)	Kalvakuntla RamaRao	Bobbili Ajay
Member of Legislative Assembly(MLA)	Kalvakuntla RamaRao	Rella Nagalaxmi
Member of Legislative Assembly(MLA)	Kalvakuntla RamaRao	Habeeb Baig
Member of Legislative Assembly(MLA)	Kalvakuntla RamaRao	Banoth Ravi

The interface includes a sidebar with navigation links (Admin, Reports, Dashboard, Votes, Manage, Settings) and a top navigation bar. The footer shows 'Showing 1 to 10 of 12 entries' and pagination controls (Previous, 1, 2, Next).

## 9. Dashboard



## 10. Ballot Preview-1

Online Voting System

Admin

Ballot Position

Member of Parliament(MP)

Select only one candidate

Reset

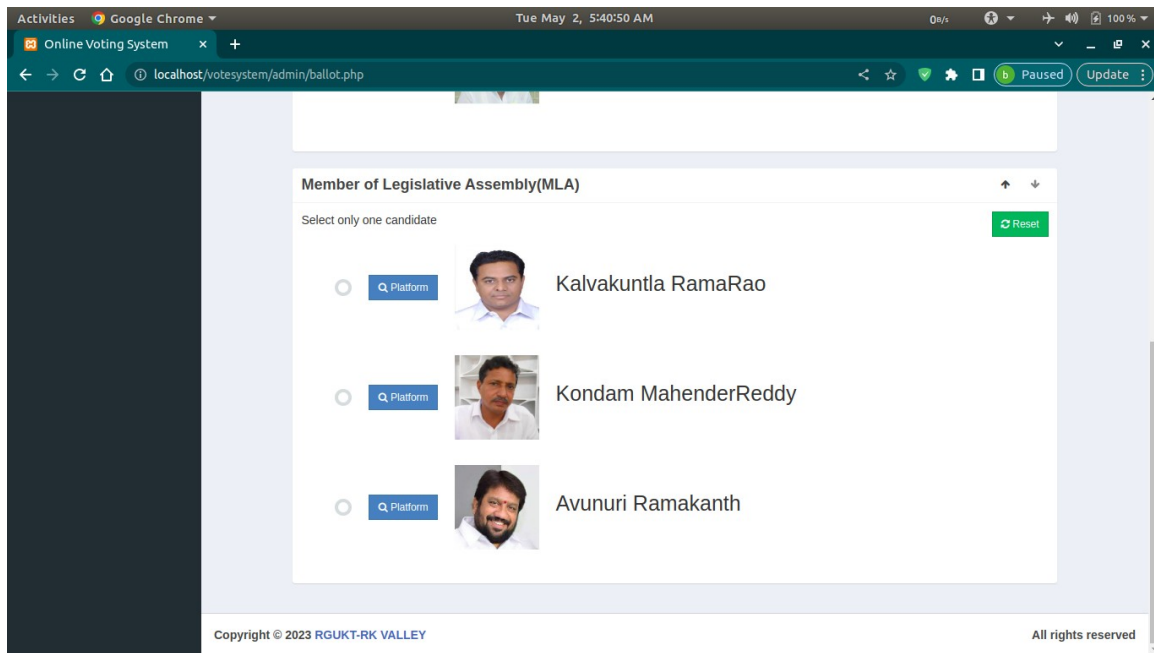
☐ Platform Pasunuri Dayakar

☐ Platform Chintha Sambamurthy

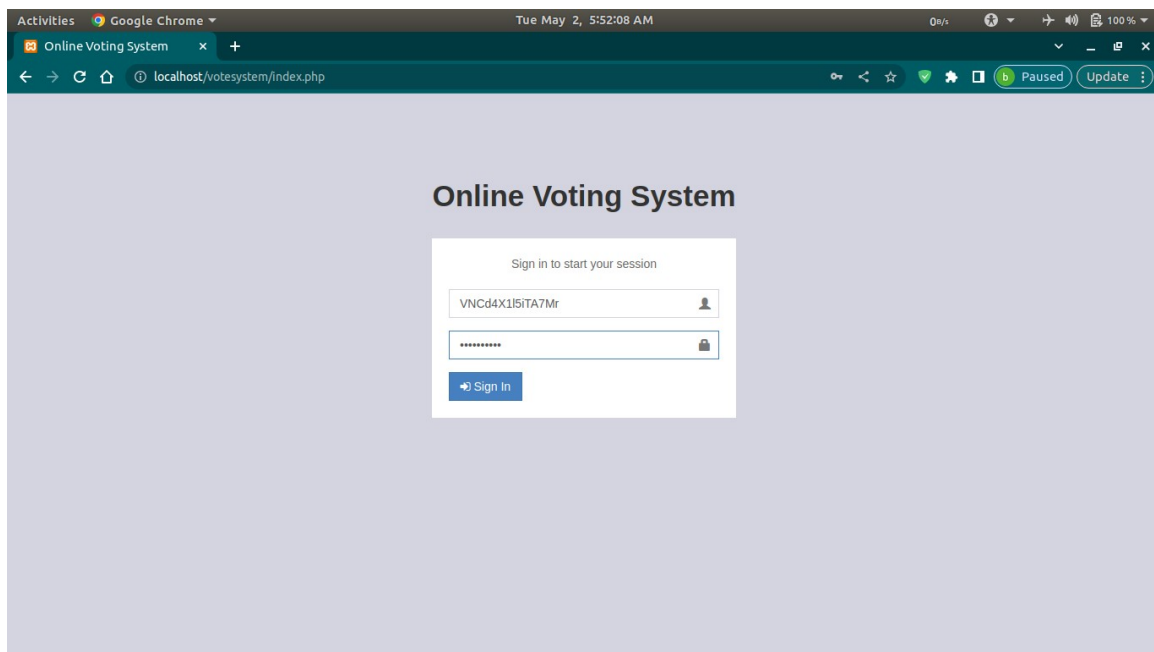
☐ Platform Domati Sambaiah

Member of Legislative Assembly(MLA)

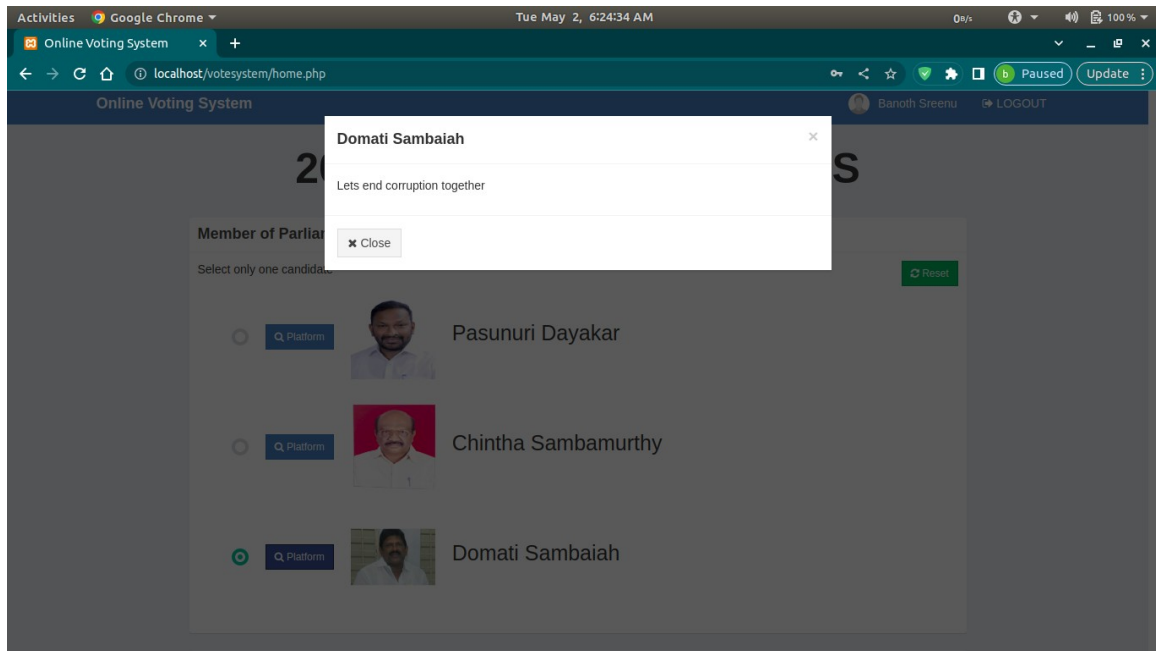
## 11. Ballot preview-2



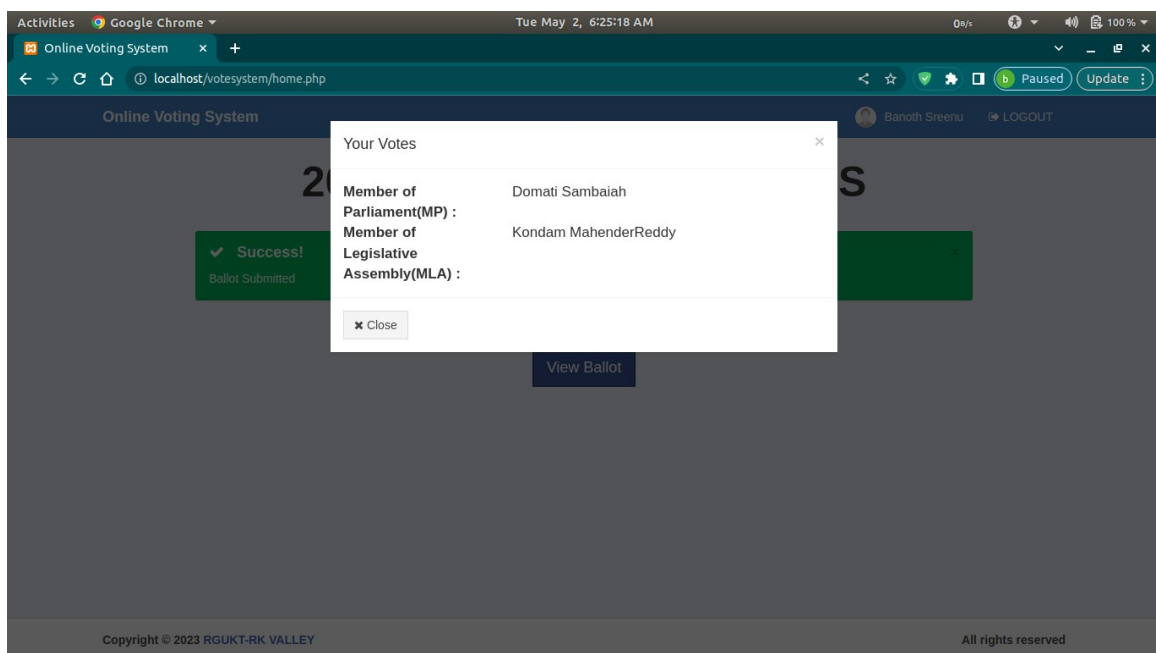
## 12. Voter login



## 13. Selecting Vote and Viewing Motto



## 14. Casted vote





## FUNCTIONAL TESTING

**Table-1: -Voter test case report**

S.No	Test Case Name	Test Case Description	Expected Output	Actual Output	Final output
1.	Voter login	Login with the credentails	Redirecting to the home page	Redirected to home page	Pass
2.	Selecting and preview	Selecting the favourite candidate and previewing the vote	Selected candidate will be previewed	Selected candidate is previewed	Pass
3.	Casting the vote	Selecting favourite candidate and submitting	Vote will be submitted	Vote is submitted	Pass
4.	Viewing casted vote	Once vote is casted it will be dsplayed untill election is over	Vote will be displayed	Vote is displayed	Pass

**Table 2: - Administrator test case report**

S. No	Test case name	Test case description	Expected output	Actual output	Final output
1.	Admin Login	Login with credentials.	Redirecting to home page	Redirected to home page	Pass

2.	Add Voter	Adding the voter with his/her details.	Voter will be added	Voter is added	Pass
3.	Search Voter	Finding the voter by searching his/her name.	Exact match will be displayed	Exact match is displayed	Pass
4.	Add candidate	Adding the new candidate	New candidate will be added	New candidate is added	Pass
5.	Edit candidate	Editing the candidate details	Candidate details will be edited	Candidate details is edited	Pass
6.	Adding the position	Adding of the new position	New position will be added	New position is added	Pass
7.	Delete position	Delete the existing position	Existing position will be deleted	Existing positions is deleted	Pass
8.	Ballot review	Previewing the ballot of candidates	Ballot will be previewed	Ballot is previewed	Pass
9.	Polled votes	To view a list of polled along with the details	Polled votes will be viewed	Polled votes are viewed	Pass
10.	View dashboard	To see the details in the dashboard	Dashboard details will be viewed	Dashboard details are viewed	Pass

## CONCLUSION

1. This system will assist in easy voting process as it save both the time and effort of the voter.
2. Less time required for conducting and cost saving effort to the existing ones.
3. This system can be easily implemented as the basic infrastructure (smart phones) is already readily available.
4. This systems will take less time to maintain and manage.
5. Finally this system will give you better services, less error prone along with the additional features.

## REFERENCES

1. <https://eci.gov.in/>
2. <https://www.geeksforgeeks.org/project-idea-online-voting-portal/>
3. <https://www.w3schools.com/>
4. <https://www.php.net/docs.php>
5. <https://www.studocu.com/in/document/chhattisgarh-swami-vivekanand-technical-university/computer-science-engineering/minor-project-for-online-voting-system/9129073>

-----**THANK YOU**-----