# "Online Voting System"

**A Project Report Submitted in Partial Fulfilment of the Requirements for the Degree**
**of**
**Bachelor of Technology**
**in**
**Computer Science & Engineering**
**By**


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**KCS-554**

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# Title Of The Project:

Online Voting System

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## 1. Objective:

The objective of the system is a replacement of the traditional system that is in existence. This smart system reduces the time for voting and also the system is reliable, and faster. In this system the voter's username and password will be sent through SMS.

Database maintained by this system usually contains the voter's information, candidate's information, the final result of total votes.

The benefits of Online Voting System are:-

- Time saving
- Maintains Social distance keeping COVID in mind
- The percentage of voting candidate will increase

## 2. Introduction:

### 2.1. Problem Defination:-

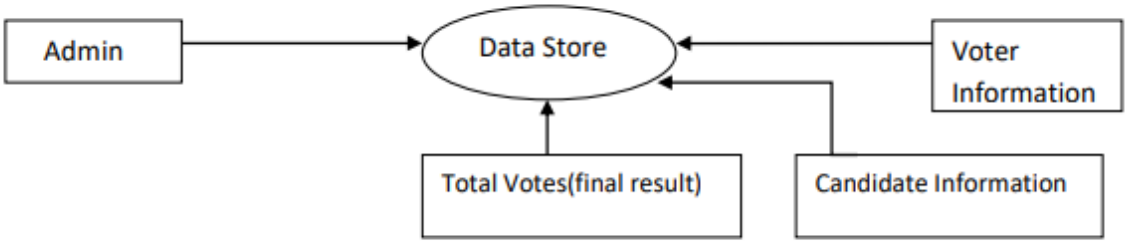
The existing manual Voting system consumes more time for vote casting . Voter has to wait for vote polling station to vote for a right candidate. The election officers have to check the voter, whether the voter can vote in this booth then check voterID present in voters list of booth, if required information will be present then the voter can vote in that booth. The voter has to stand in the queue to cast his vote. All the work is done in paper ballot so it is very difficult to locate a particular candidate, some voters cast their votes for all candidates. To overcome all these problems we have to implement a web application, which is helpful for Voting from anywhere.

## 2.2. About Project:-

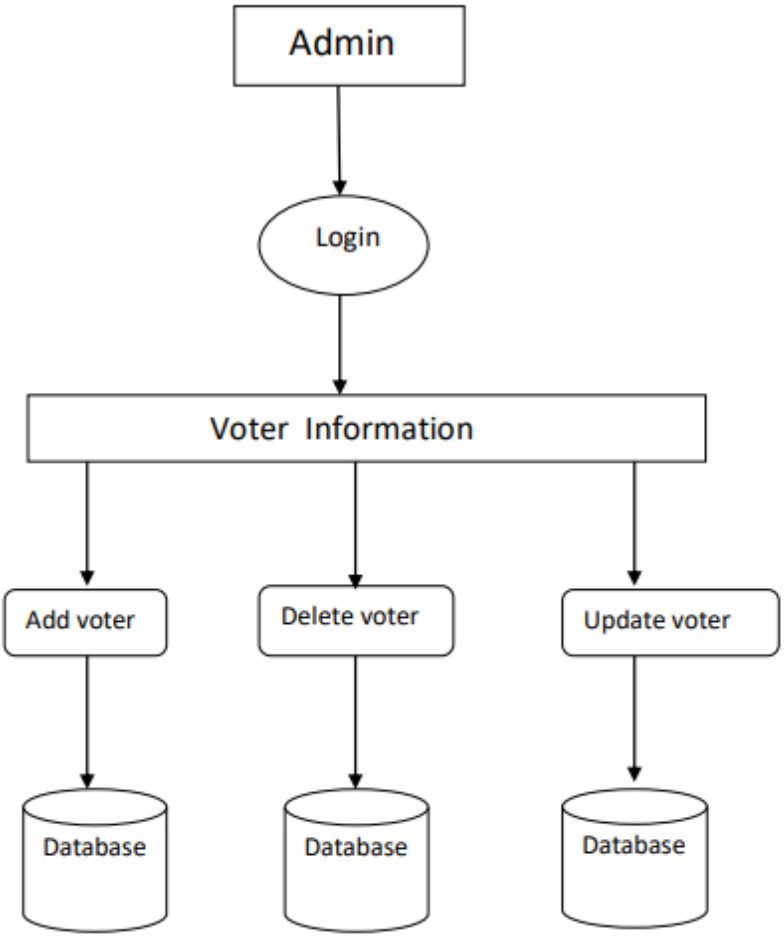
- An online voting system is a software platform that allows groups to securely conduct votes and elections. High-quality online voting systems balance ballot security, accessibility, and the overall requirements of an organization's voting event.
- At their core, online voting systems protect the integrity of your vote by preventing voters from being able to vote multiple times. As a digital platform, they eliminate the need to gather in-person, cast votes using paper, or by any other means (e.g. email, insecure survey software).
- You may hear an online voting system being referred to as an online election system, an online e voting system, or electronic voting. These all make reference to the same thing: a secure voting tool that allows your group to collect input from your group and closely scrutinize the results in real time.

# 3. Flowcharts:

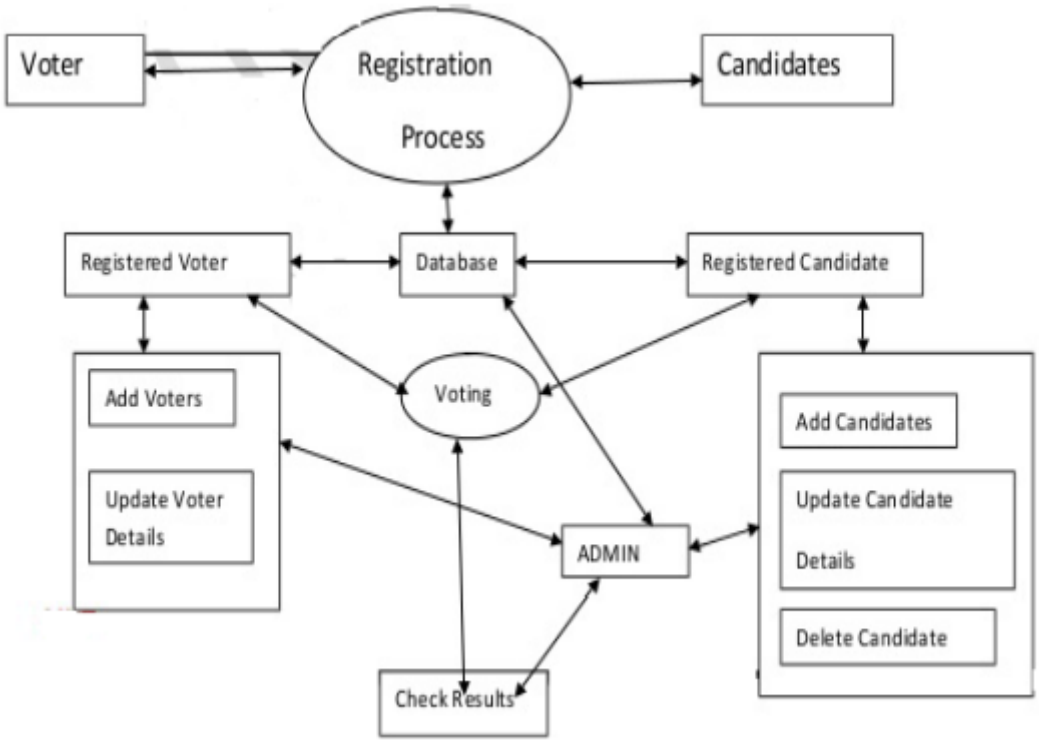
**Level 0**




**Level 1**



# 4.E-R Diagram:


Voter
Registration
Process
Candidates
Registered Voter
Database
Registered Candidate
Add Voters
Update Voter
Details
Voting
ADMIN
Add Candidates
Update Candidate
Details
Delete Candidate
Check Results

# 5. Feasibility Study:

All projects are feasible – if given unlimited resources and infinite time . After developing, analyzing and studying the existing functionalities of the system, we came to a conclusion that this project is for sure feasible and for the betterment of all the users. It is flexible enough to bear the future moderations and changes easily as per the future requirements.

- **Economic Feasibility:** This is a very important aspect to be considered while developing any project. The technology, hardware as well as software expenditure was based on minimum possible cost factor making it reasonable economic and developer friendly too.
- **Operational Feasibility:** There is no doubt that this system of online voting is user friendly, extremely interactive and all inputs to be taken are self-explanatory even to laymen. A complete guide of the set of rules is made available to the users so they feel comfortable while operating.
- **Technical Feasibility:** This included the study of functions, performance and constraints that may affect the ability to achieve an acceptable system. For this feasibility study we went through the complete functionality to be provided un the system and cross checked if everything was possible using different cases and situations.
- **Social Feasibility:** It promotes a fun way to challenge, compete and improve one's technical and general intellect and expand knowledge to greater levels.

# 6. Tools and Technology Used:

## 6.1. Introduction to Visual Studio:

**Microsoft Visual Studio** is an integrated development environment (IDE) from Microsoft. It is used to develop computer programs, as well as websites, web apps, web services and mobile apps. Visual Studio uses Microsoft software development platforms such as Windows API, Windows Forms, Windows Presentation Foundation, Windows Store and Microsoft Silverlight. It can produce both native code and managed code.

## 6.2. Introduction to CSS(Cascading Style Sheet):


CSS is a style sheet language used for describing the look and formatting of a document written in a markup language While most often used to style web pages and interfaces written in HTML and XHTML, the language can be applied to any kind of XML document. One of the favored features is its ability to allow the sorting of document content written in markup languages (like HTML) from document presentation written in CSS.

Here are more advantages of CSS in website design:

1. Search Engine Optimization And Appearance

2. Maintainability and Browser Compatibility

## 6.3. Introduction to HTML(Hyper Text Markup Language):


HTML refers to the Hypertext Markup Language. HTML is used to create webpages. It uses many tags to make a webpage. So it is a tag based language. The tags of HTML are surrounded by angular bracket. It can use wide ranges of colors, objects and layouts. Very useful for beginners in web designing field.

It is by default in every window so you don't need to purchase extra software.

**Advantages of HTML**

1. First advantage it is widely used.

2. Every browser supports HTML language.

3. Easy to learn and use.

4. It is by default in every window so you don't need to purchase extra software.

## 6.4. PHP:

PHP is a server scripting language geared towards web development, and a powerful tool for making dynamic and interactive Web pages.

PHP is a widely-used, free, and efficient alternative to competitors such as Microsoft's ASP.

PHP code is usually processed on a web server by a PHP interpreter implemented as a module, a daemon or as a Common Gateway Interface (CGI) executable. On a web server, the result of the interpreted and executed PHP code – which may be any type of data, such as generated HTML or binary image data – would form the whole or part of an HTTP response.

## 6.5. XAMPP:

**XAMPP** is a free and open-source cross-platform web server solution stack package developed by Apache Friends, consisting mainly of the Apache HTTP Server, MariaDB database, and interpreters for scripts written in the PHP and Perl programming languages. Since most actual web server deployments use the same components as XAMPP, it makes transitioning from a local test server to a live server possible.

XAMPP's ease of deployment means a WAMP or LAMP stack can be installed quickly and simply on an operating system by a developer, with the advantage that common add-in applications.

## 6.6. MYSQL:


MYSQL is the world's most popular open source database. It is a Relational Database Management System (RDBMS) - data and it's relationships are stored in the form of tables that can be accessed by the use of MYSQL queries in almost any format that the user wants.

# 7. System Requirements:

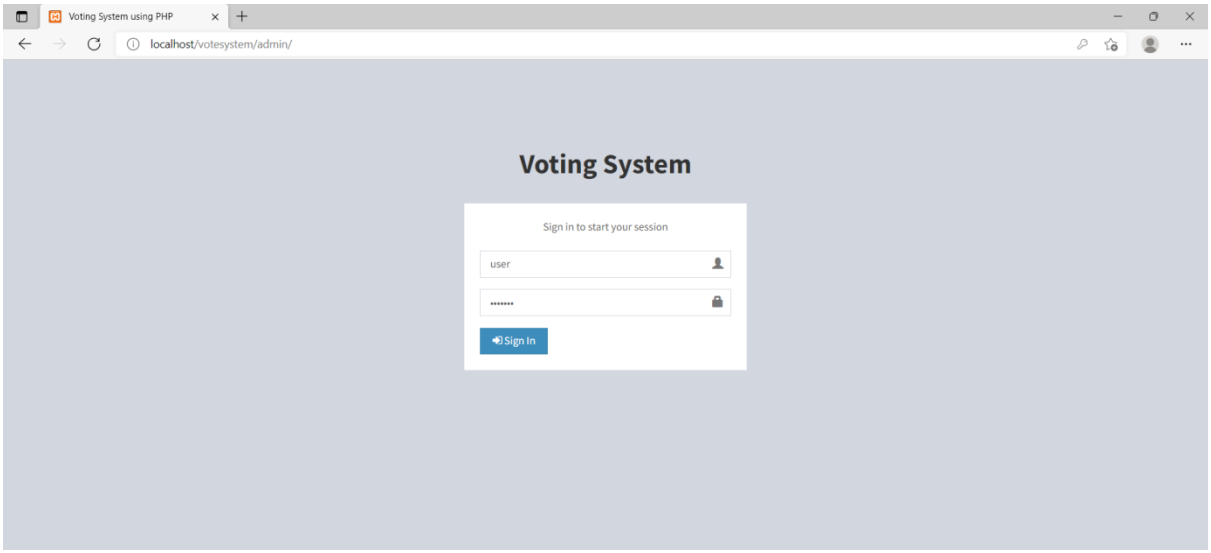
## 7.1. Hardware Requirements:

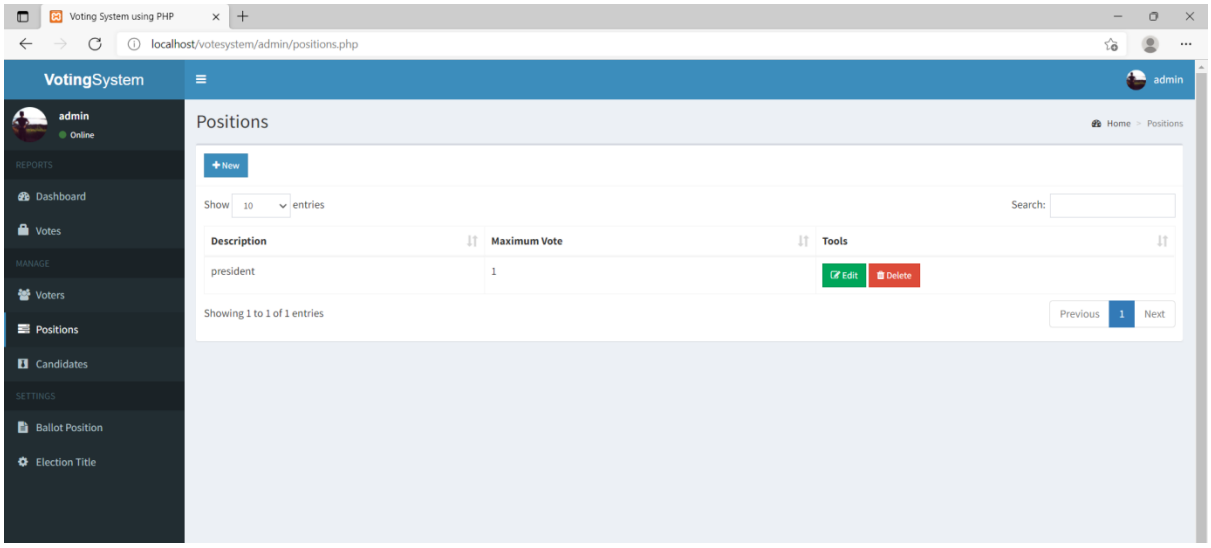
- Processor : Pentium, i3, i5…
- RAM: 4GB
- Hard Disk: 1TB
- Speed: 1.1GHz
-

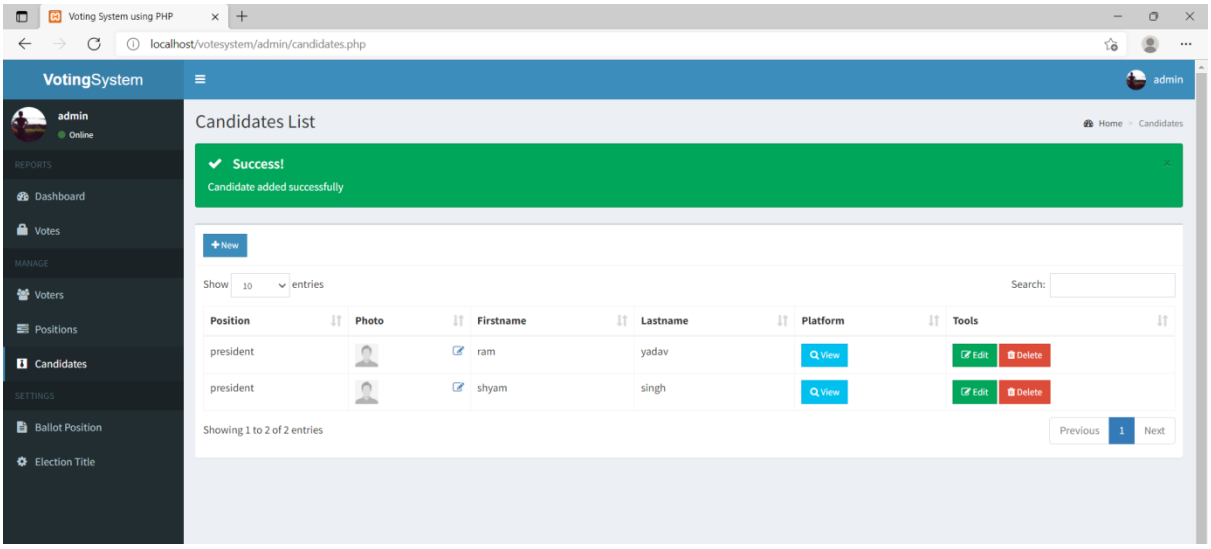
## 7.2. Software Requirements:

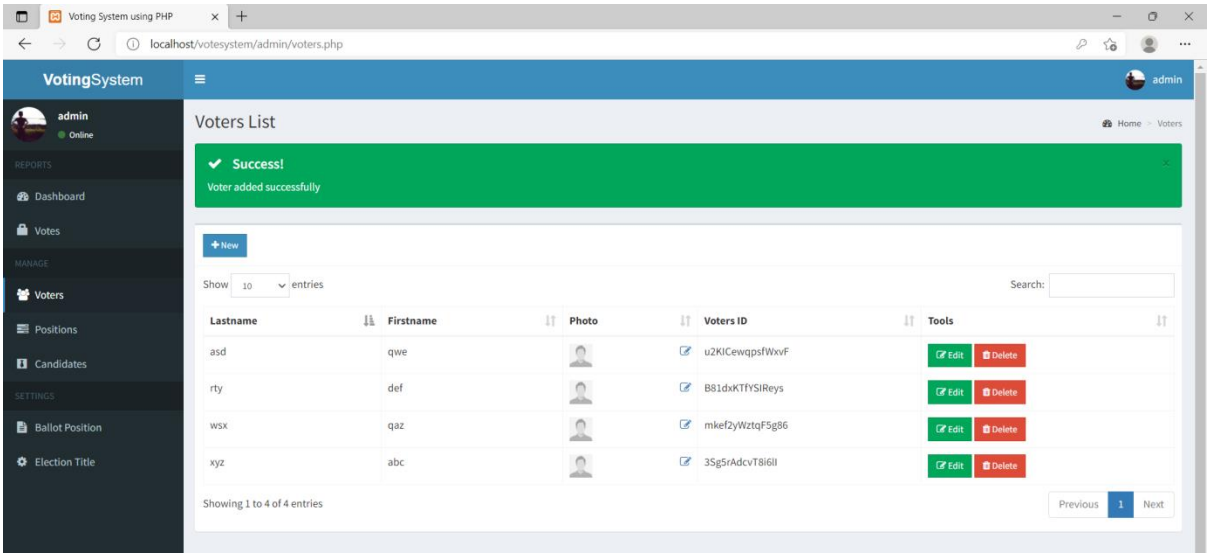
- Operating System: Windows
- Scripting Language: PHP
- Back-End:MYSQL
- Front-End: HTML5, CSS3
- Supporting Tools: Visual Studio
- Type: Web Application
- Server: Xampp(Apache, MYSQL)

# 8. Code Snippets:




Voting System using PHP
localhost/votesystem/admin/voters.php
VotingSystem
admin
admin
Online
REPORTS
Dashboard
Votes
MANAGE
Voters
Positions
Candidates
SETTINGS
Ballot Position
Election Title
Voters List
Home > Voters
Success!
Voter added successfully
New
Show 10 entries
Search:
Lastname
Firstname
Photo
Voters ID
Tools
asd
qwe
u2KICewqpsfWxvF
rty
def
B81dxKTfYSIReys
wsx
qaz
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xyz
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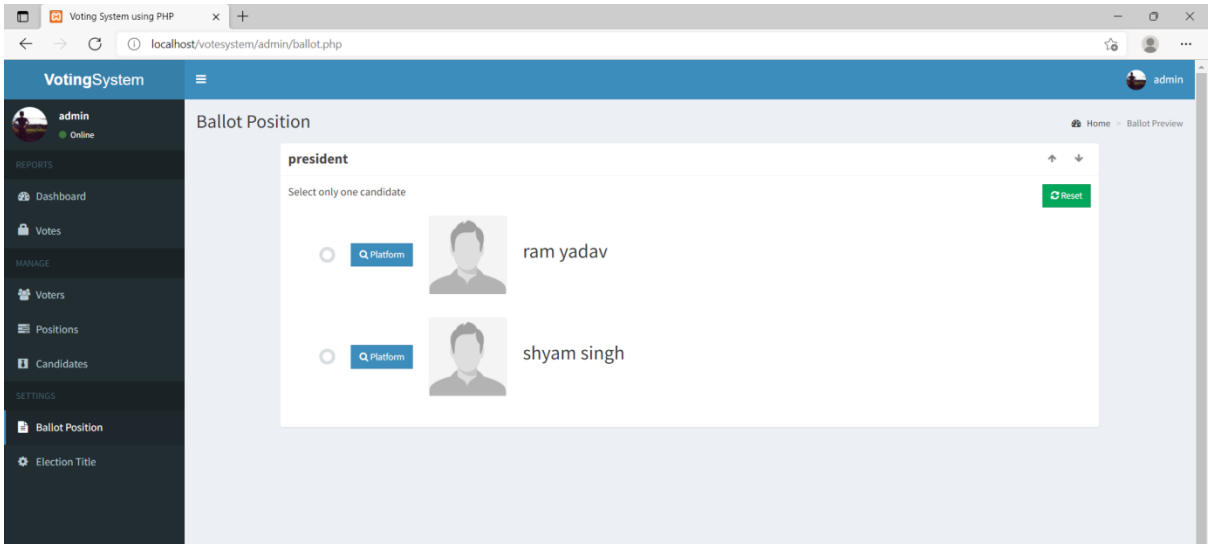
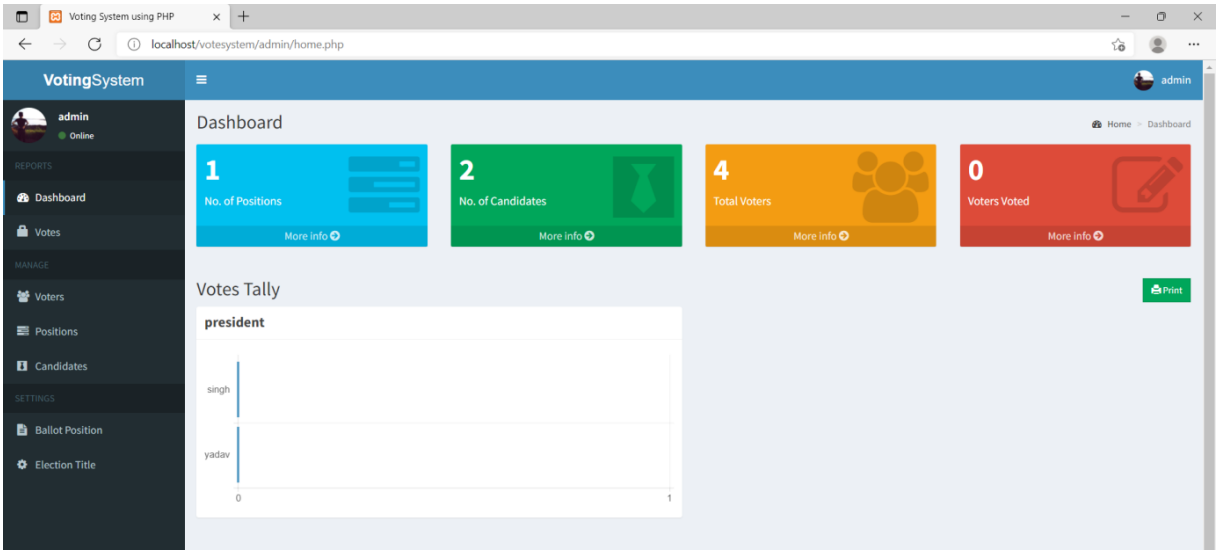
Edit
Delete
Showing 1 to 4 of 4 entries
Previous
1
Next


Voting System using PHP
localhost/votesystem/admin/ballot.php
VotingSystem
admin
admin
Online
REPORTS
Dashboard
Votes
MANAGE
Voters
Positions
Candidates
SETTINGS
Ballot Position
Election Title
Ballot Position
Home > Ballot Preview
president
Select only one candidate
Reset
Platform
ram yadav
Platform
shyam singh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VotingSystem
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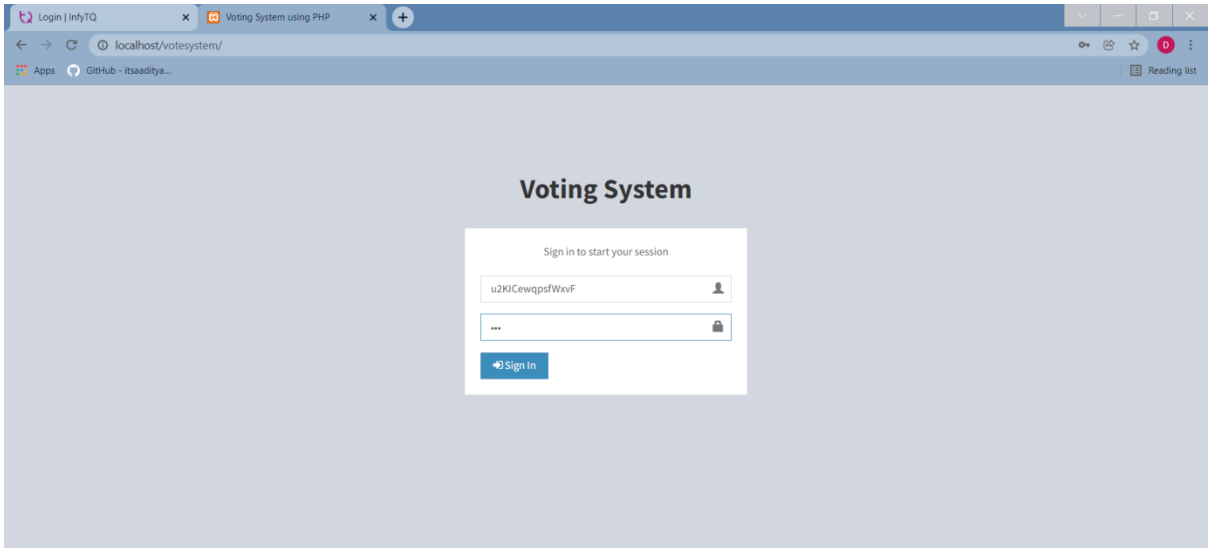
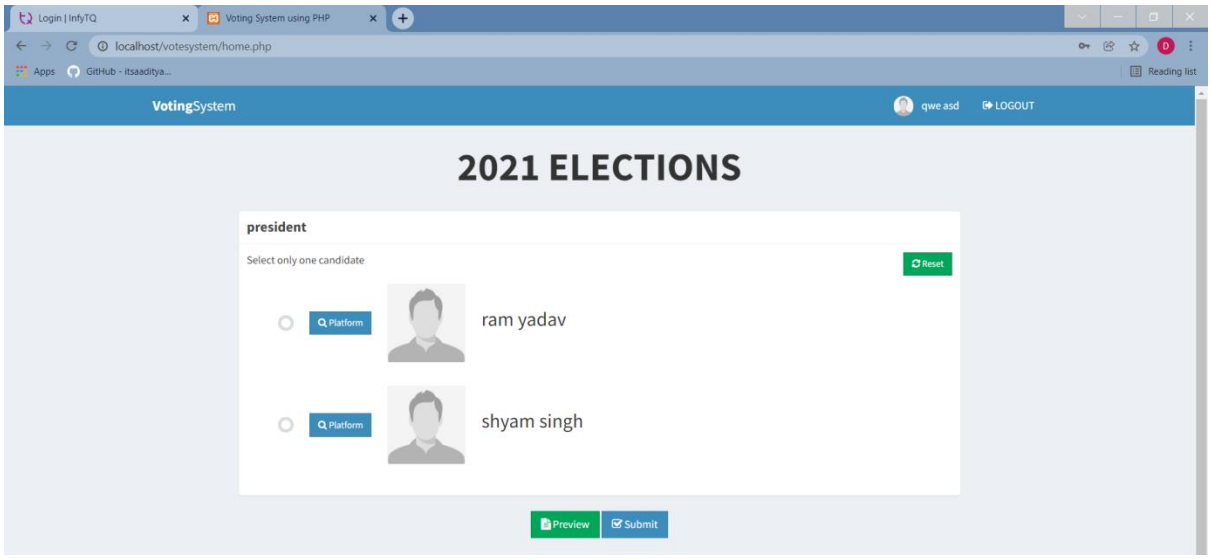
Online
REPORTS
Dashboard
Votes
MANAGE
Voters
Positions
Candidates
SETTINGS
Ballot Position
Election Title
Dashboard
Home > Dashboard
1
No. of Positions
More info
2
No. of Candidates
More info
4
Total Voters
More info
0
Voters Voted
More info
Votes Tally
Print
president
singh
yadav
0
1


Login | InfyTQ
Voting System using PHP
localhost/votesystem/
Apps
GitHub - itsaaditya...
Reading list
Voting System
Sign in to start your session
u2KICewqpsfWxvF
Sign In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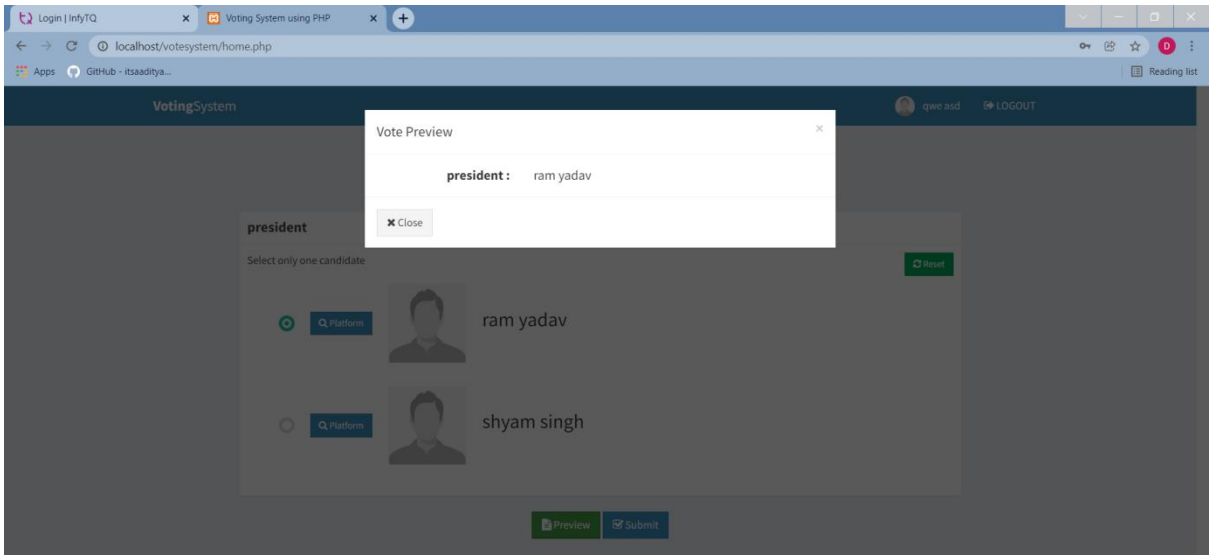
Voting System using PHP
localhost/votesystem/home.php
Apps
GitHub - itsaaditya...
Reading list
VotingSystem
qwe asd
LOGOUT
2021 ELECTIONS
president
Select only one candidate
Reset
Platform
ram yadav
Platform
shyam singh
Preview
Submit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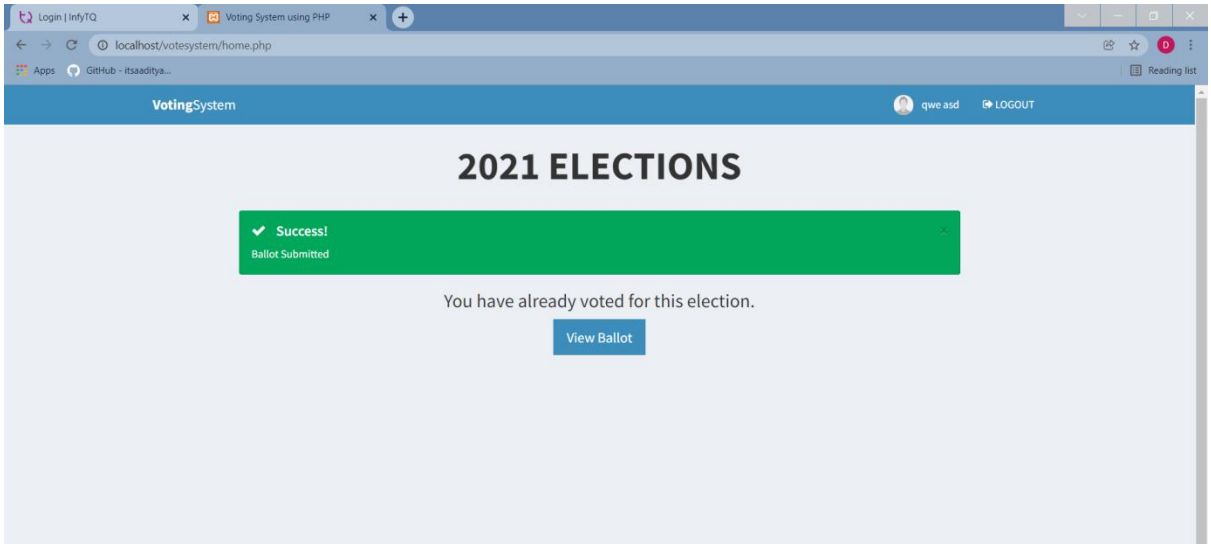
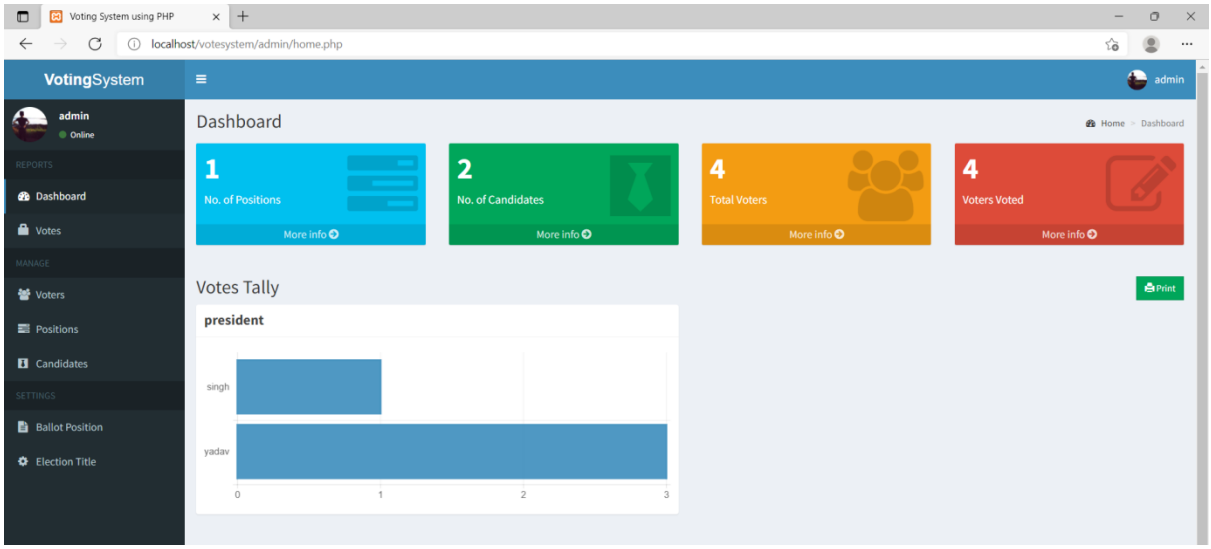
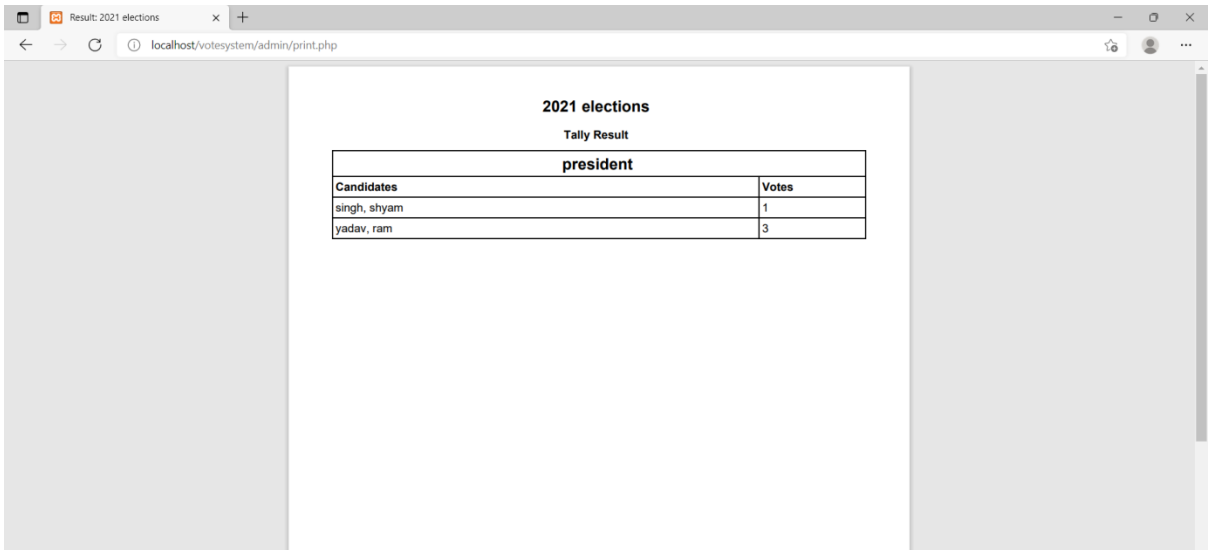
Apps
GitHub - itsaaditya...
Reading list
VotingSystem
qwe asd
LOGOUT
Vote Preview
president : ram yadav
Close
president
Select only one candidate
Reset
Platform
ram yadav
Platform
shyam singh
Preview
Submit


Login | InfyTQ
Voting System using PHP
localhost/votesystem/home.php
Apps
GitHub - itsaaditya...
Reading list
VotingSystem
qwe asd
LOGOUT
2021 ELECTIONS
Success!
Ballot Submitted
You have already voted for this election.
View Ballot


Voting System using PHP
localhost/votesystem/admin/home.php
VotingSystem
admin
admin
Online
REPORTS
Dashboard
Votes
MANAGE
Voters
Positions
Candidates
SETTINGS
Ballot Position
Election Title
Dashboard
Home > Dashboard
1
No. of Positions
More info
2
No. of Candidates
More info
4
Total Voters
More info
4
Voters Voted
More info
Votes Tally
Print
president
singh
yadav
0
1
2
3


Result: 2021 elections
localhost/votesystem/admin/print.php
2021 elections
Tally Result
president
Candidates
Votes
singh, shyam
1
yadav, ram
3

# 9. 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 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 18years's 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 very less time consuming. It is very easy to debug. The traditional method of manual voting system has few drawbacks. This smart system involves the voter's can cast their vote easily, and can be implemented to the entire India.

## 10. Future Scope:

Data can be managed on cloud so that it will be secured and managed efficiently.

We have developed the online system for only one particular booth, this should be extended to all the polling booths in India.

## 11. Bibliography:


1. https://www.electionsonline.com/online-voting-system/
2. https://en.wikipedia.org/wiki/Electronic_voting
3. https://www.w3schools.com/