SECRET WALLET

- The majority talk is the new betterment.

PROJECT REPORT

DATABASE MANAGEMENT SYSTEM PROJECT

GROUP - 15

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PROJECT TITLE

The project is named "**SECRET WALLET** ".

SYNOPSIS

AIM / OBJECTIVE

The system is designed for the betterment and a neutral mode of selection of the candidates either in a society or in a corporate world.
It allows voters to vote from any place in the world just by logging into the website. It reduces the number of legitimate votes not counted by reducing the number of over voters and eliminating vote tampering. The system also improves the registration process by allowing voters to check their registration status prior to voting. It works on the internet so it can be used in rural places for electing the head of the gram panchayats and all as well because nowadays all the people are using the world wide web.

TECHNOLOGIES USED

The technologies to be used in building the project are **DBMS, PHP, SQL** for the back-end part in constructing the Database and connecting it to the front end.

MySQL is easy to use, yet extremely powerful, secure, and scalable. And because of its small size and speed, it is the ideal database solution for Web sites. MySQL is scalable; it can handle almost any amount of data, up to as much as 50 million rows or more.
For the front-end part to showcase the interface of our project, we are using **HTML, CSS, JavaScript.**
The invoked front end uses HTTP/XML to invoke Java procedures/methods of the running back end. Both, the front end and the back end establish a continuation which may be called at any time from the other continuation. The Bridge pattern is

especially useful when supporting multiple types of database servers or working with several API providers of a certain kind.
The Integrated Development Environment (IDE) used here is **NetBeans** on the platform of Windows 10.

ASSUMPTIONS TAKEN

This project is completely scalable and can even be implemented on larger scales. In the initial stages, we will try to implement in small-scale business and holding elections in smaller areas for trial purposes and then, later on, implement on large scale.

This application will not even require any kind of internet consumption to cast the votes. Once the voting will be done, then we can finally provide the results to the authorized department without having any kind of problem with manual counting taking place.

DETAILS HANDLED

The details of the information handled by the databases would be as follows:

There will be two databases, one containing the information about the members who need to cast their votes. This database contains the member_id which will be unique to identify the member, name, phone number, and address of the person along with the date and time of giving a vote. The members who are registered have their information stored in this database.

The second database contains information about the candidates who need to get the votes in order to win. This contains the same information as the first database along with the number of votes gained by each candidate. These details were for the back-end part which constructs the database along with this information.

The front-end part has the login details for every member who can cast the votes to elect a perfect leader for their department.

SAMPLE SCENARIO

Online voting systems gained popularity and are being used for government elections and referendums in Estonia, and Switzerland as well as Canada. In Estonia, voters have been casting ballots online for more than a decade while West Virginia has let the overseas military workforce vote with an app. But most Americans still vote by marking ballots and then stuffing them into a box.

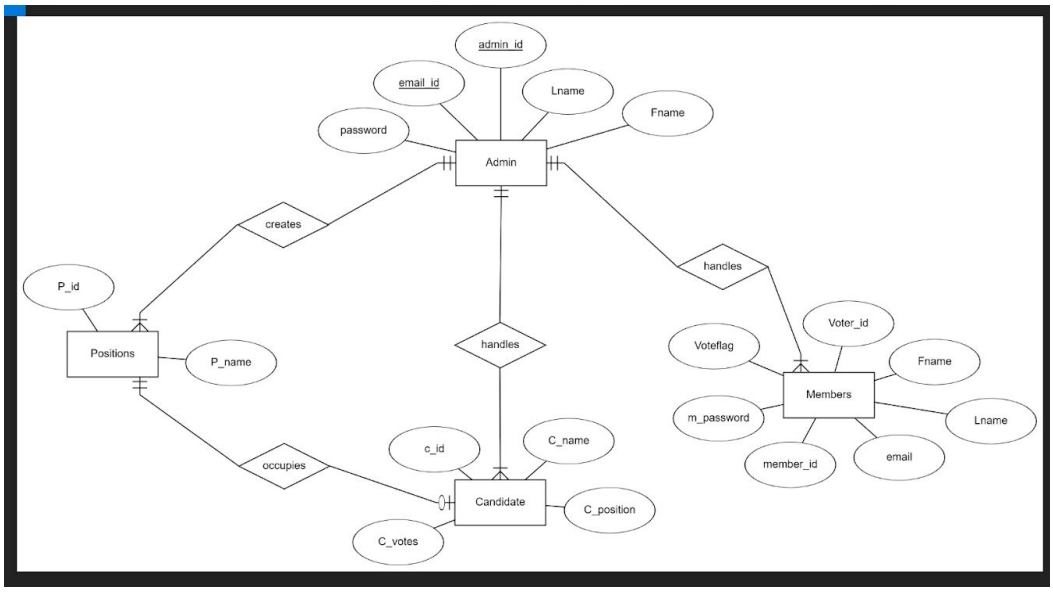
The recent U.S elections made changes in their election process. Being in the middle of a global pandemic(COVID-19) and the election system which was already unsafe, short of money, and falling apart made 65 million voters do Mail-in voting and 35 million vote-in people.

In the case of India, from panchayat and municipal elections to the Lok Sabha (and many by-polls in between), there is some election happening somewhere every other week. Such Online voting can help in encouraging direct participation of citizens in decision-making processes - which currently is unthinkable and will further strengthen India's democracy.

WHO CAN USE THE APPLICATION IN REAL LIFE

Our application can be used by a large variety of people to cast votes on a small scale as well as large scale. It can be implemented in electing ahead for a particular organization, managing union leaders, and secretary elections in factories and society respectively. It can also be implemented in corporate sectors to choose their representatives by keeping all safety measures in mind and voting perfectly at a fair means.

ER-DIAGRAM



PROJECT FLOW

MEMBERS

This represents the set of MEMBERS, which are the people who will be using this application. The members are for whom the system is being designed.

Its attribute set includes:

Name: This is the name of the member, searching or casting the votes. When signing up to the website the name of the member is stored, this is done for future referencing and maintaining the user's data record. It is the composite attribute that contains two more attributes that are First_Name and Last_Name. That contains the user's first name and last name.

Member_id: This is the identification number assigned by the admin to the users so as to identify them uniquely in the future. This identification number is helpful in fetching data of the individual users from a big set. This is mainly to manage the huge database system where the entire data is being stored. It is a permanent identification number given by the admin to the member to maintain a voting history.

Password: A password is a set of characters that uniquely identifies someone's account on a computer system. This password combination is referred to as login and is often required for users.

Voter_id: A voter id is an identification of the member who is going to cast the vote. Each member has its own voter id so that there is no redundancy in counting the number of votes gained by each candidate.

Email: An email address is a unique identifier for an email account.

Vote_flag: This attribute works as a flag which moves to and fro. When the flag value is zero, the member or the person can give the vote to any candidate. After giving the vote, the vote flag value turns 1 indicating the member that he has already given a vote.

ADMIN

The administrator should be able to monitor the entire process and make any changes if needed. They should have access to the user and the delivery executive data. Now we can monitor our application better with intuitive settings all under one panel.

The attributes of this entity contain

Name: This is the name of the member, searching or casting the votes. When signing up to the website the name of the member is stored, this is done for future

referencing and maintaining the user's data record. It is the composite attribute that contains two more attributes that are First_Name and Last_Name. That contains the user's first name and last name.

Password: A password is a set of characters that uniquely identifies someone's account on a computer system. This password combination is referred to as login and is often required for users.

Email: An email address is a unique identifier for an email account.

CANDIDATE

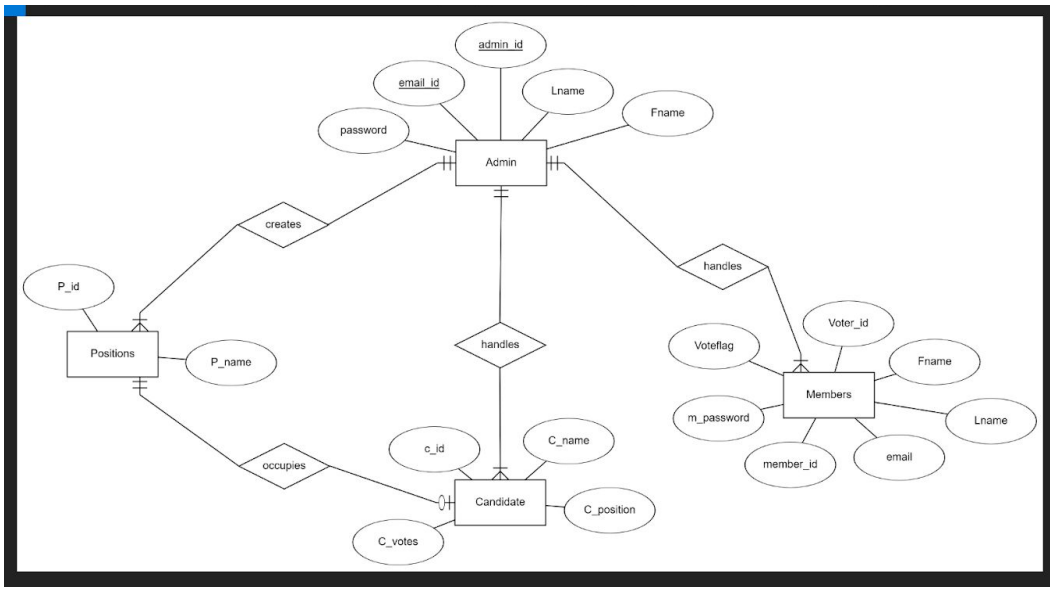
This represents the set of CANDIDATES, which are the people who will be using this application. The members are for whom the system is being designed. These people will get the votes given by the members.

Name: This is the name of the member, searching or casting the votes. When signing up to the website the name of the member is stored, this is done for future referencing and maintaining the user's data record. It is the composite attribute that contains two more attributes that are First_Name and Last_Name. That contains the user's first name and last name.

candidate_id: This is the identification number assigned by the admin to the candidates so as to identify them uniquely in the future. This identification number is helpful in fetching data of the individual users from a big set. This is mainly to manage the huge database system where the entire data is being stored. It is a permanent identification number given by the admin to the member to maintain a voting history.

candidate_votes: This attribute counts the number of votes gained by each candidate who stood for his seat.

candidate_positions: This attribute represents the position of the candidate who has been elected by the members.

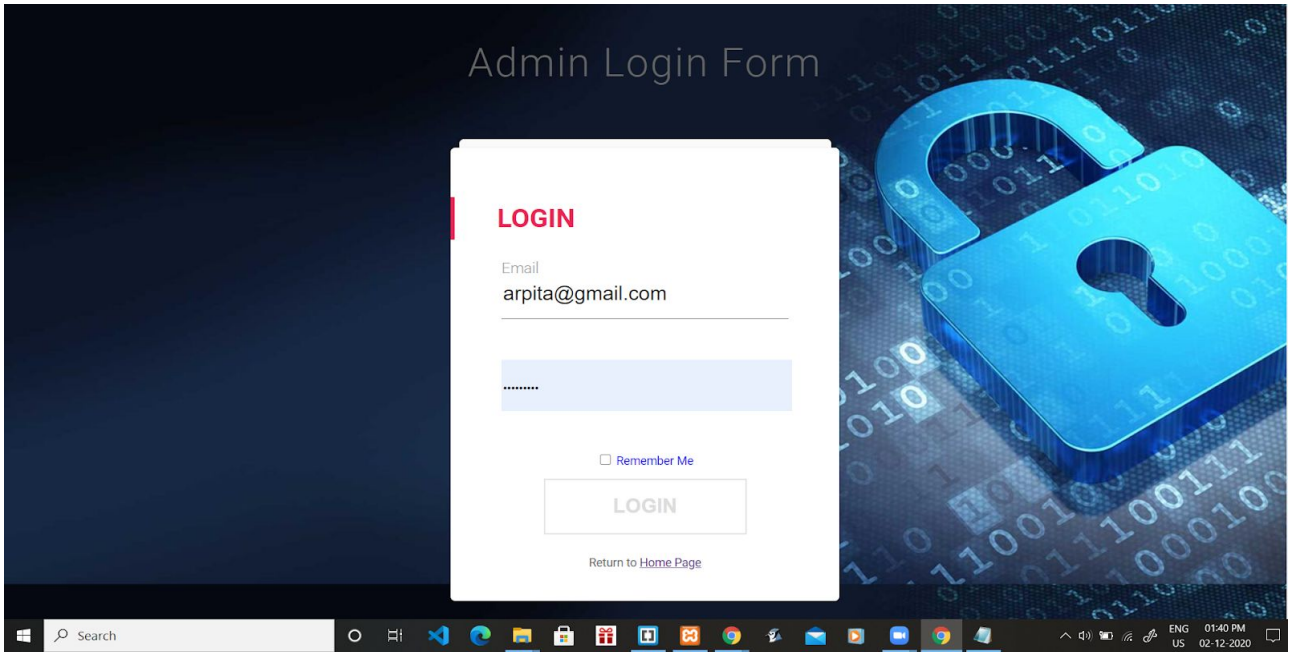


We have the Admin who handles the candidate and the members' database. Admin has a mandatory 1 relationship with each candidate and each member. All candidates are handled by the Admin. So, the admin and the candidate have 1 to many relationships. Likewise, we have 1 to many relationships between the members and the Admin as each member is handled by the Admin.

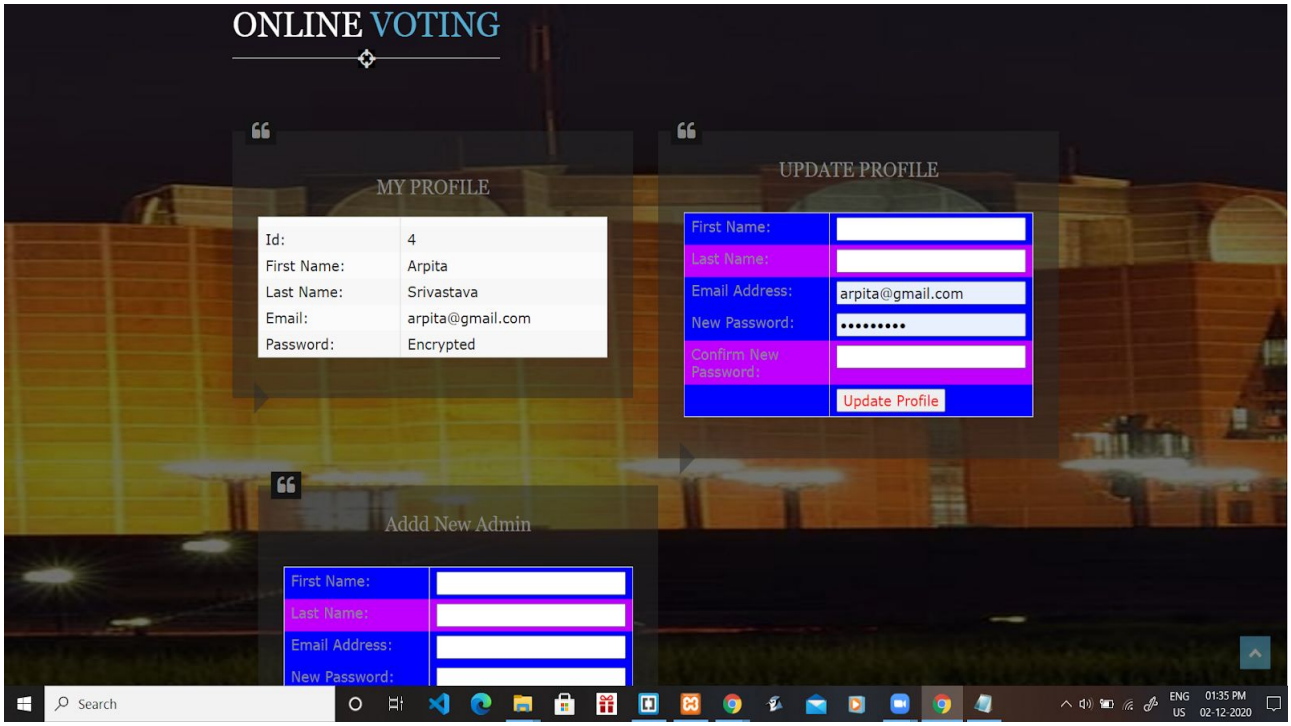
The relationship between the candidate table and the position is mandatory one to an optional one, which tells us that all positions are acquired by one or the other candidate but it is not necessary that each candidate will get a position. The candidates who get the most number of votes would be seeking the positions of the head or whatever seat is empty.

HOW OUR APPLICATION LOOKS LIKE?

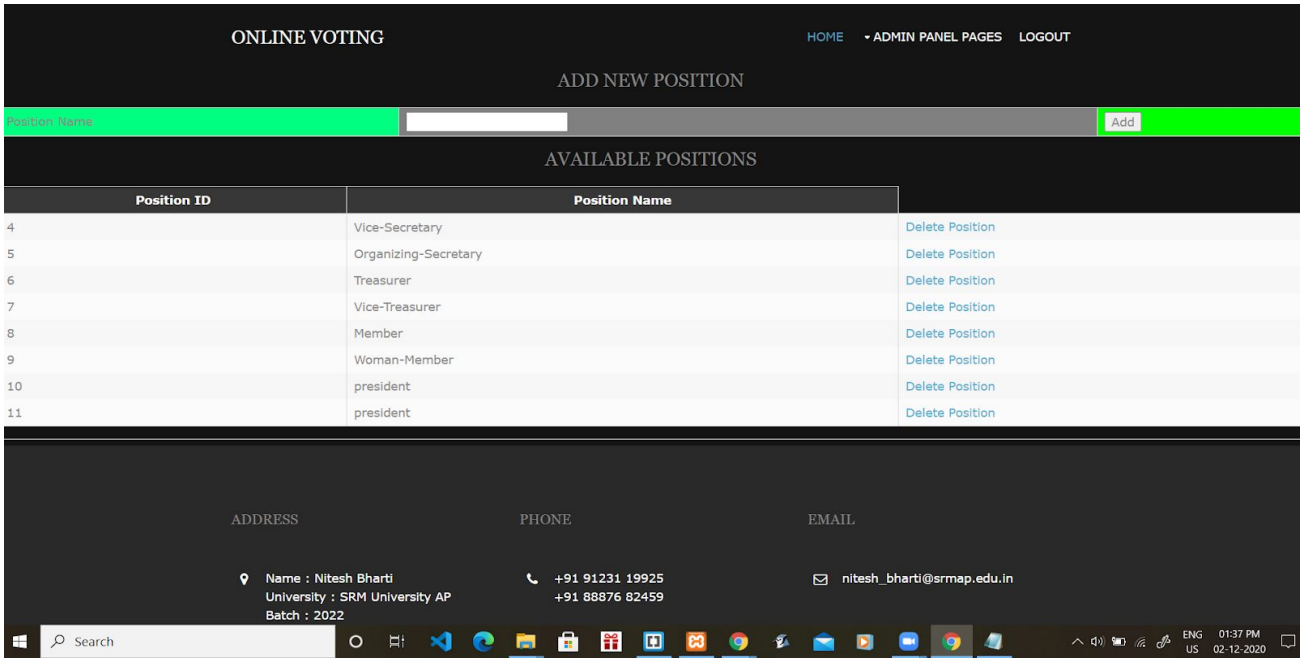
Landing page



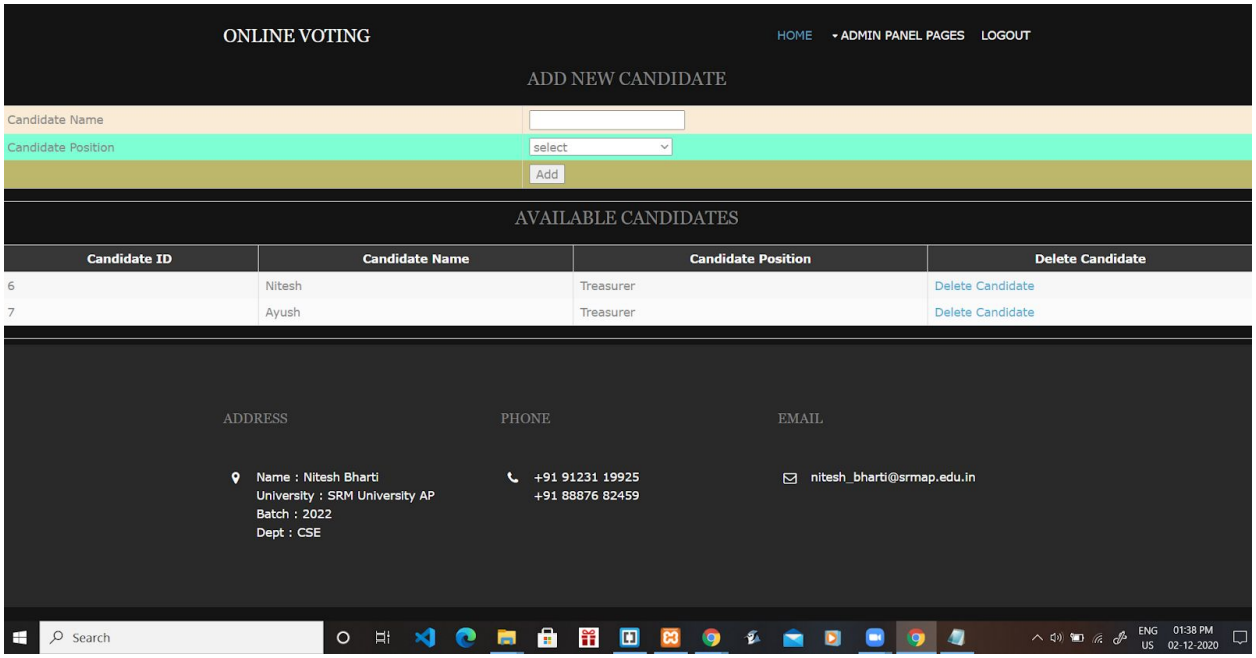
Admin login page



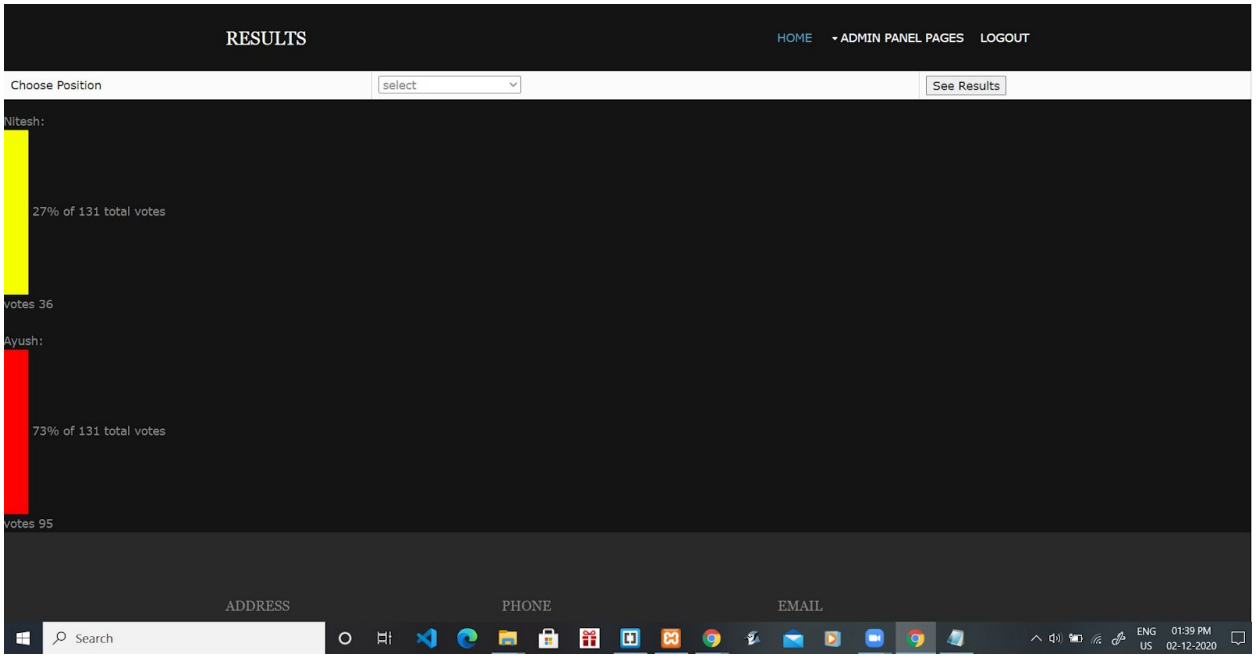
Admin management



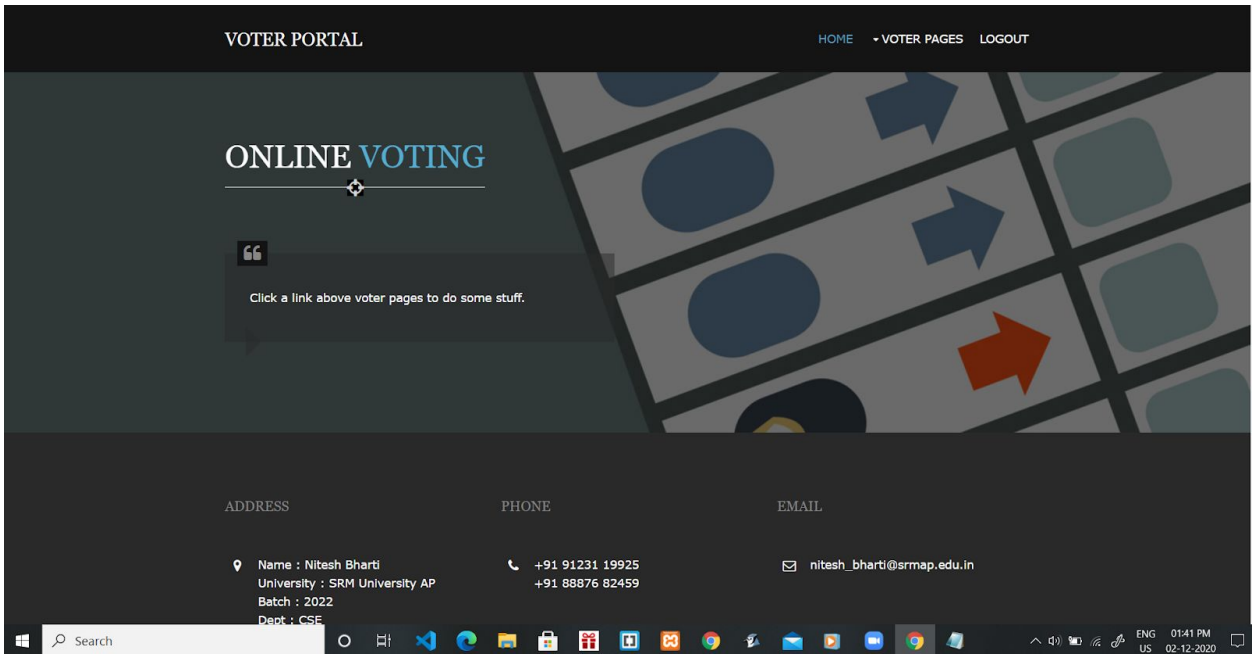
Position management



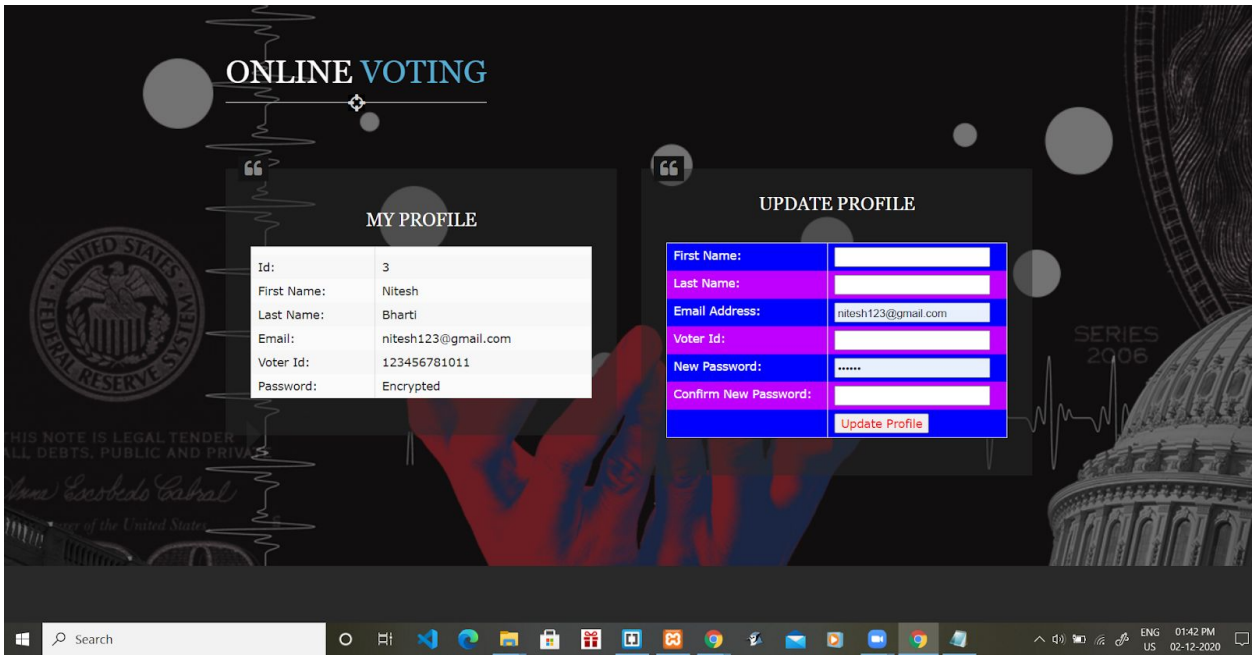
Candidate Management



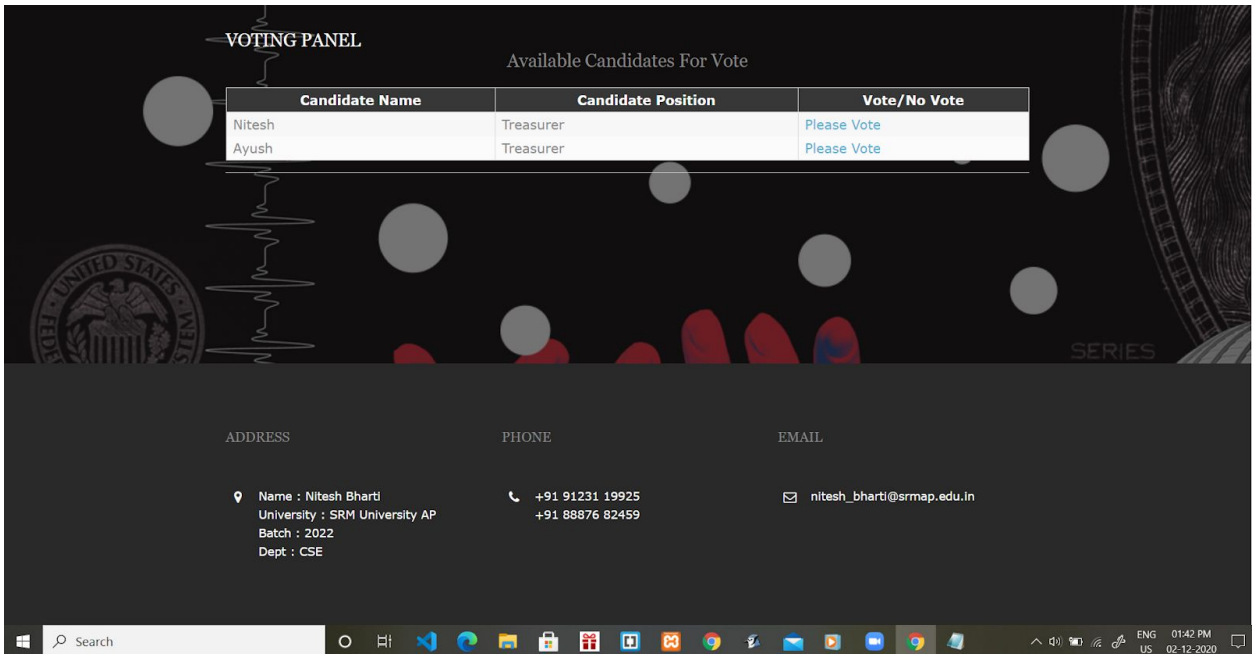
Vote Count



Voter page



Voter Management


VOTING PANEL
Available Candidates For Vote
Candidate Name
Candidate Position
Vote/No Vote
Nitesh
Treasurer
Please Vote
Ayush
Treasurer
Please Vote
ADDRESS
PHONE
EMAIL
Name : Nitesh Bharti
University : SRM University AP
Batch : 2022
Dept : CSE
+91 91231 19925
+91 88876 82459
nitesh_bharti@srmap.edu.in
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ENG
US
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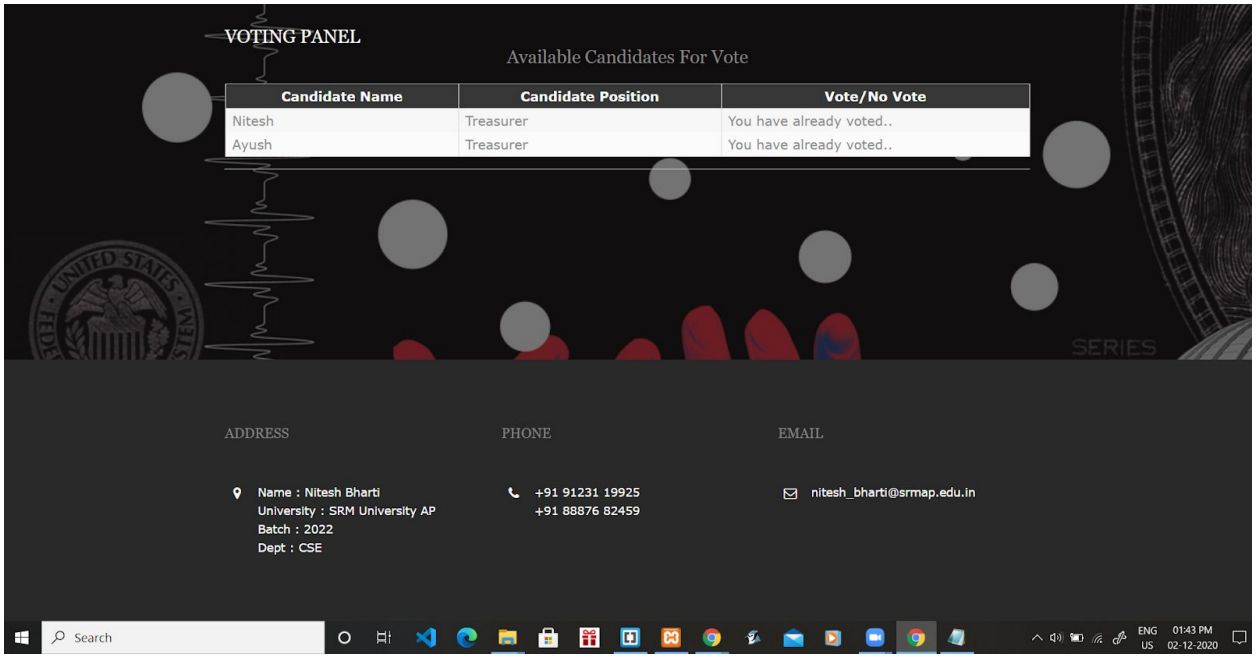
02-12-2020


VOTING PANEL
Available Candidates For Vote
Candidate Name
Candidate Position
Vote/No Vote
Nitesh
Treasurer
You have already voted..
Ayush
Treasurer
You have already voted..
ADDRESS
PHONE
EMAIL
Name : Nitesh Bharti
University : SRM University AP
Batch : 2022
Dept : CSE
+91 91231 19925
+91 88876 82459
nitesh_bharti@srmap.edu.in
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Voting page

CONCLUSION:

This project aimed at developing an online voting system which can be used in small societies, and medium cities firstly and then on a large scale in the corporate sectors.

The system is designed for the betterment and a neutral mode of selection of the candidates either in a society or in a corporate world.
It allows voters to vote from any place in the world just by logging into the website.