Project Title: Online Voting System

Problem Statement Undertaken:

The problem statement outlines the need for a secure and convenient online voting system to overcome the limitations and challenges of traditional voting methods, such as long queues, logistical issues, and security concerns.

Group Members:

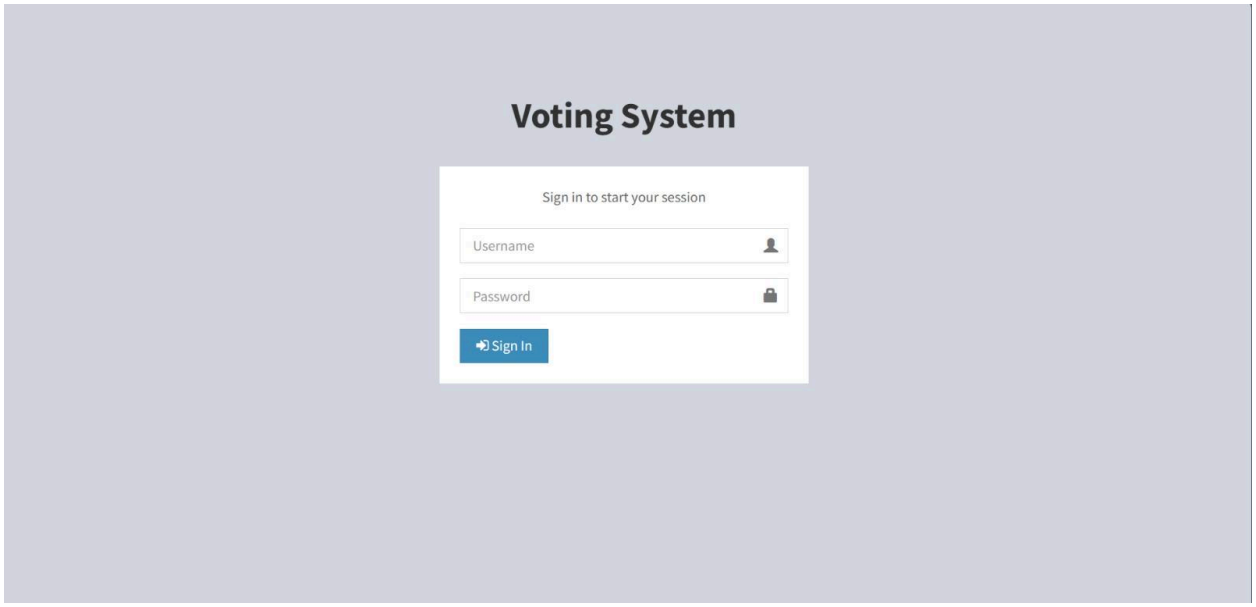
Swapnil Oza SAP ID: 60003210099 Batch: I1-1
Rachit Gala SAP ID: 60003210039 Batch: I1-1
Vansh Jain SAP ID: 60003210075 Batch: I1-1

Abstract:

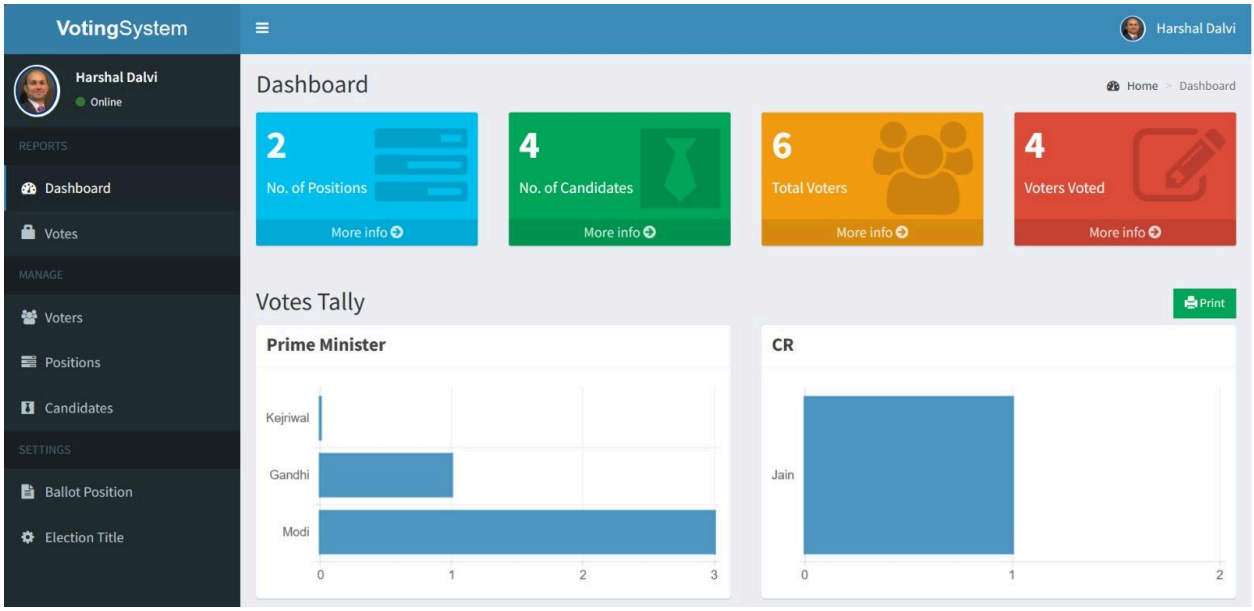
The Online Voting System is a secure and convenient platform designed to facilitate remote voting for eligible voters. This system addresses the limitations of traditional voting methods by providing a user-friendly interface for voter registration, authentication, ballot creation, vote casting, and result tabulation. With robust security measures and audit trails in place, the system ensures the integrity and confidentiality of the electoral process. Through this project, we aim to streamline the voting experience, promote voter participation, and contribute to the advancement of democratic practices in the digital age.

Screenshots:

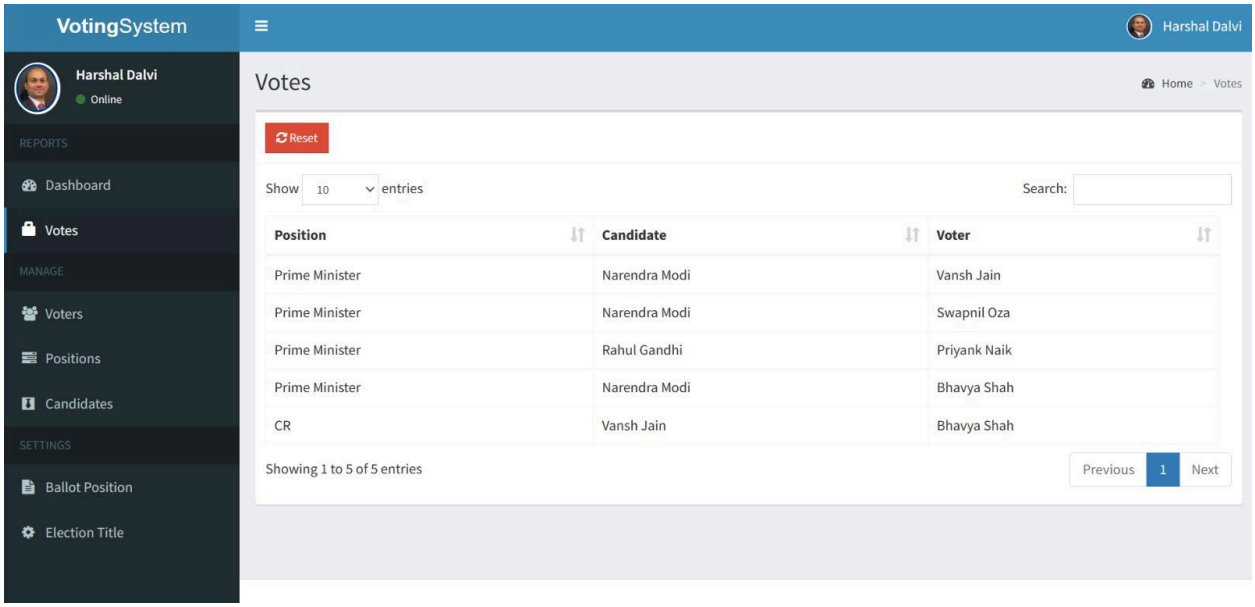
Admin Login:



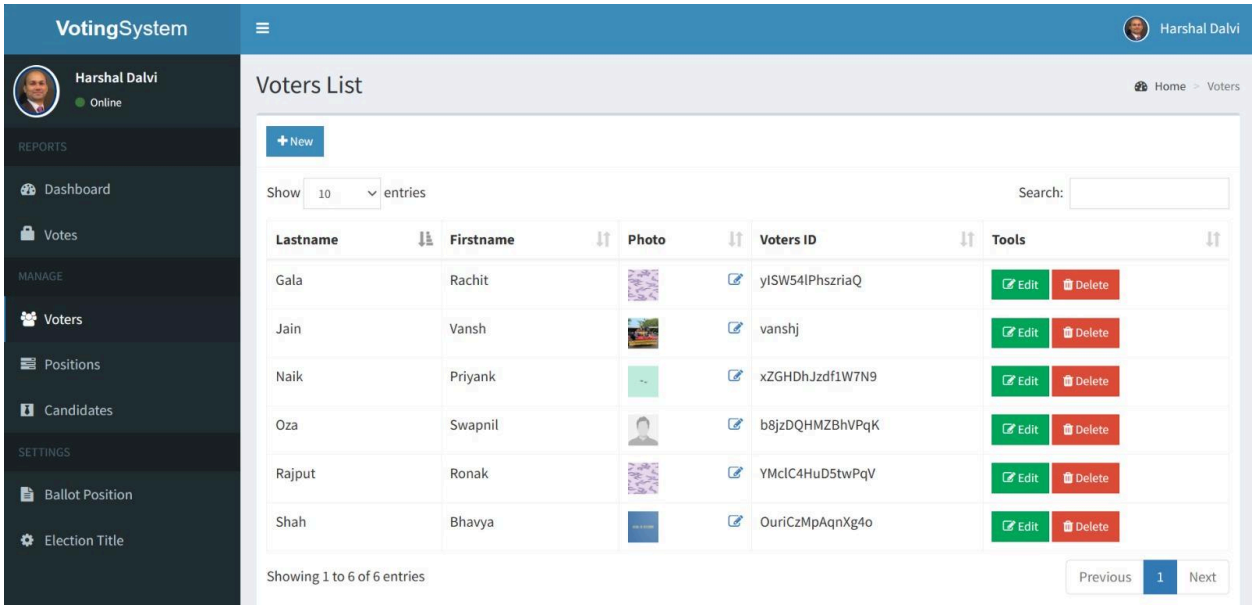
Dashboard:



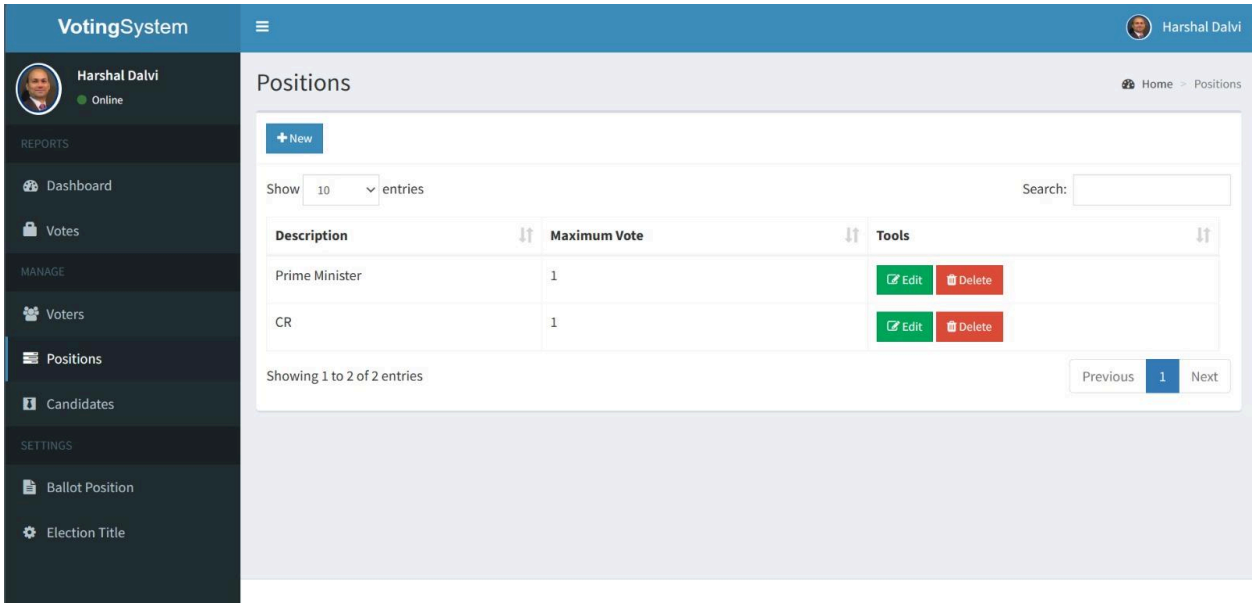
Votes:



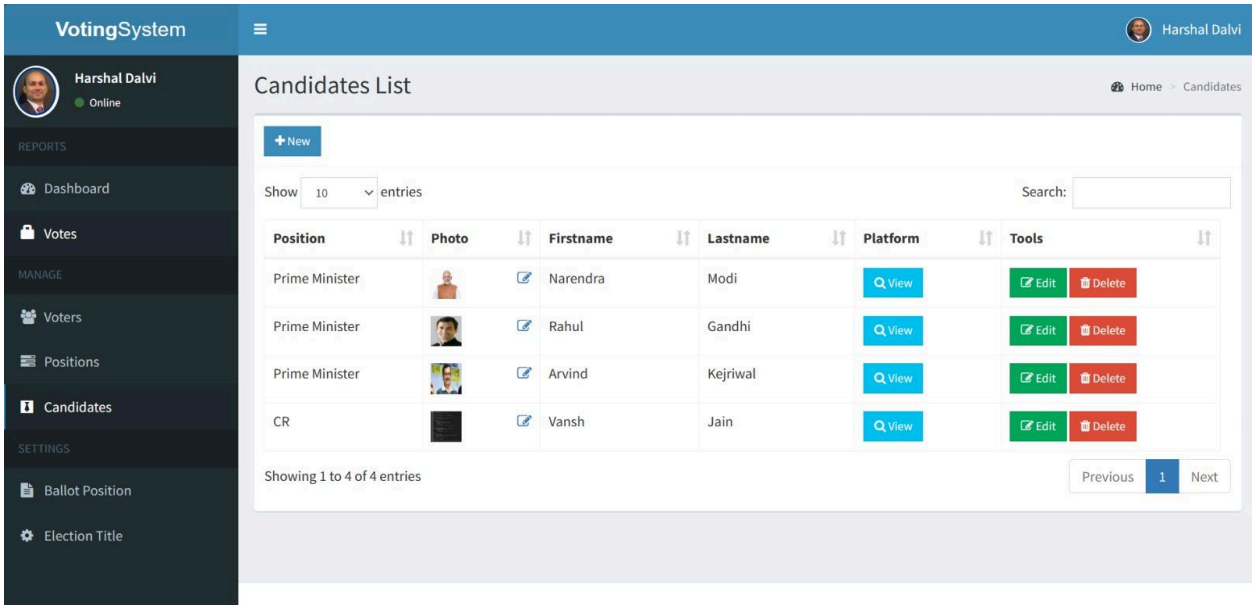
Voters list:



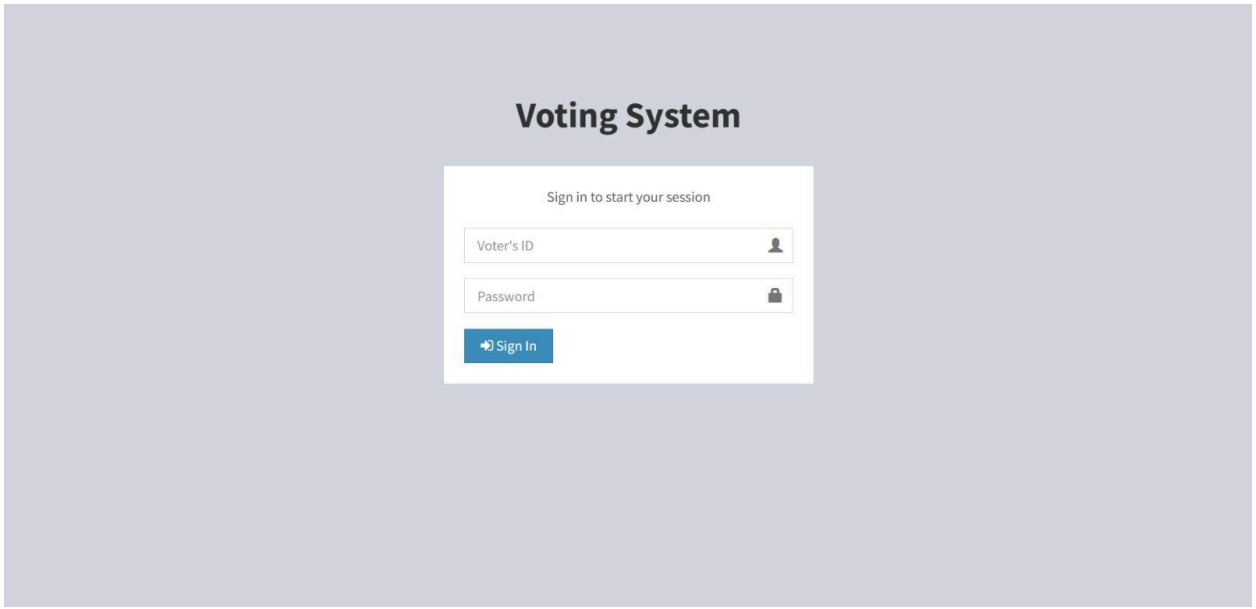
Positions list:



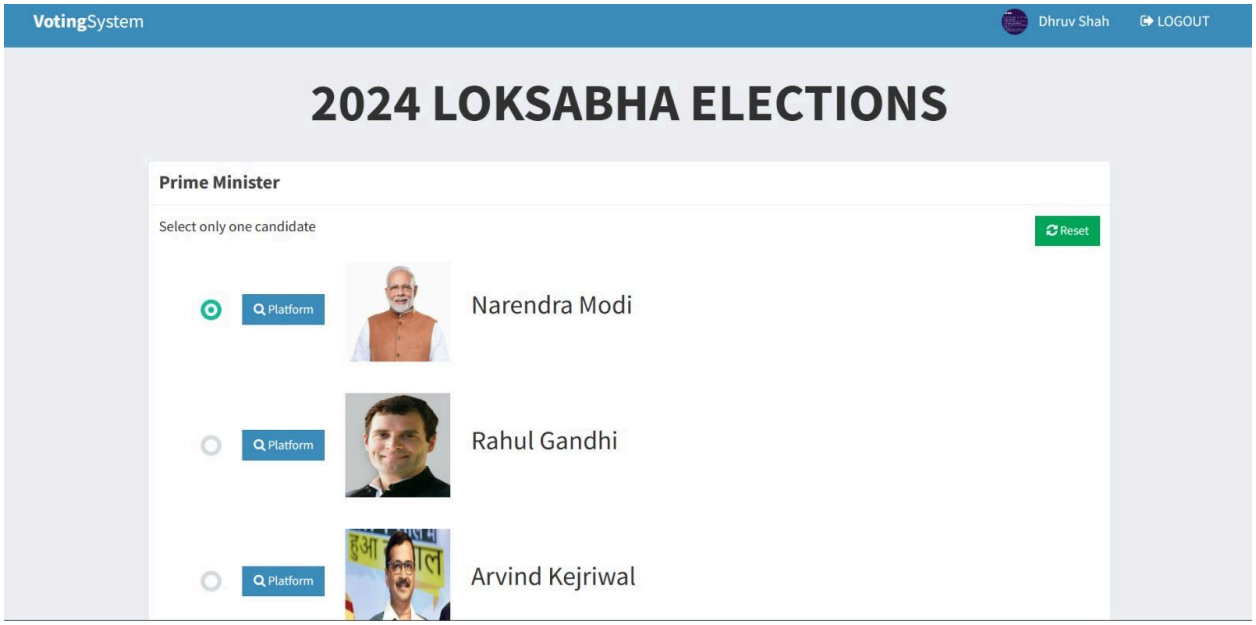
Candidates list:

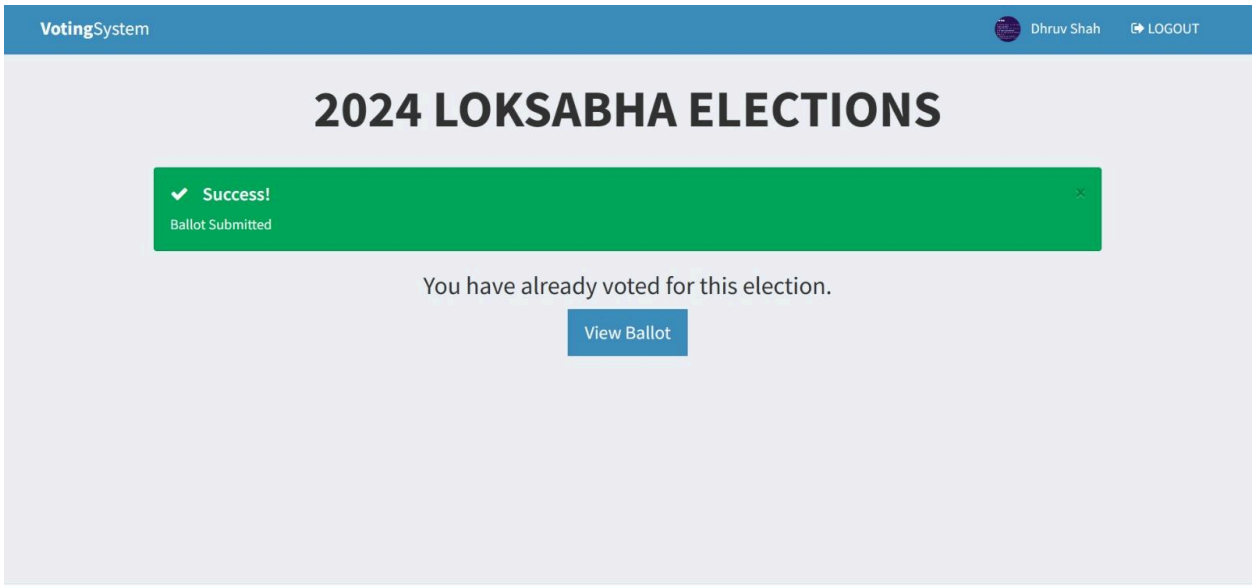


User login:

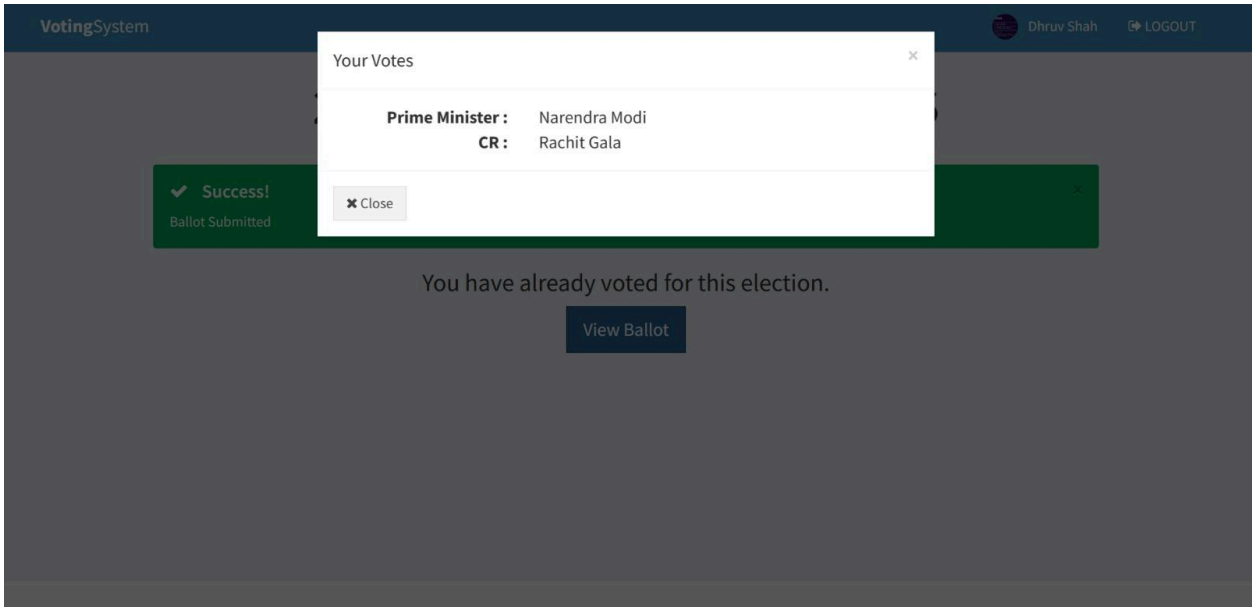


Voting:


VotingSystem
Dhruv Shah
LOGOUT
2024 LOKSABHA ELECTIONS
Prime Minister
Select only one candidate
Reset
Platform
Narendra Modi
Platform
Rahul Gandhi
Platform
Arvind Kejriwal


VotingSystem
Dhruv Shah
LOGOUT
2024 LOKSABHA ELECTIONS
Success!
Ballot Submitted
You have already voted for this election.
View Ballot

View ballot after voting:



Video and Code Repository:

Video Link : [Presentation Video]
Code Link : [Online_Voting_System]

Test Cases:

1. User Authentication:
   Test Case: Verify that only registered users can log in to the system.
   Expected Result: User should be able to log in with valid credentials.
   Actual Result: Passed

2. Ballot Creation:
   Test Case: Ensure that administrators can create ballots for different elections.
   Expected Result: Administrator should be able to create and customize the ballot with candidates and positions.
   Actual Result: Passed

3. Vote Casting:
   Test Case: Test if voters can cast their votes securely.
   Expected Result: Voters should be able to select their preferred candidates and submit their votes.
   Actual Result: Passed

4. Result Tabulation:
   Test Case: Validate the accuracy of result tabulation.
   Expected Result: The system should accurately count and display the votes cast for each candidate.
   Actual Result: Passed

Test Results:

1. User Authentication: All users were able to log in successfully using their valid credentials.
2. Ballot Creation: Administrators could create custom ballots for different elections without any issues.
3. Vote Casting: Voters were able to cast their votes securely without encountering any errors.
4. Result Tabulation: The system accurately tabulated the votes cast for each candidate, and the results were displayed correctly.

Conclusion:

The development of the Online Voting System represents a significant milestone in modernizing and democratizing the electoral process. Through rigorous testing and implementation, we have successfully addressed the challenges associated with traditional voting methods and provided a secure, efficient, and user-friendly platform for voters to exercise their democratic rights remotely.

Future Scope:

The Online Voting System presents several avenues for future development and enhancement to further improve its functionality, security, and usability. Some potential areas for future scope include:

1. Enhanced Security Features: Implement advanced encryption techniques, multi-factor authentication, and biometric verification to enhance the security of the voting system and protect against evolving cyber threats.

2. Blockchain Integration: Explore the integration of blockchain technology to provide a tamper-proof and transparent ledger for recording and verifying votes, ensuring immutable and verifiable election results.