

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:

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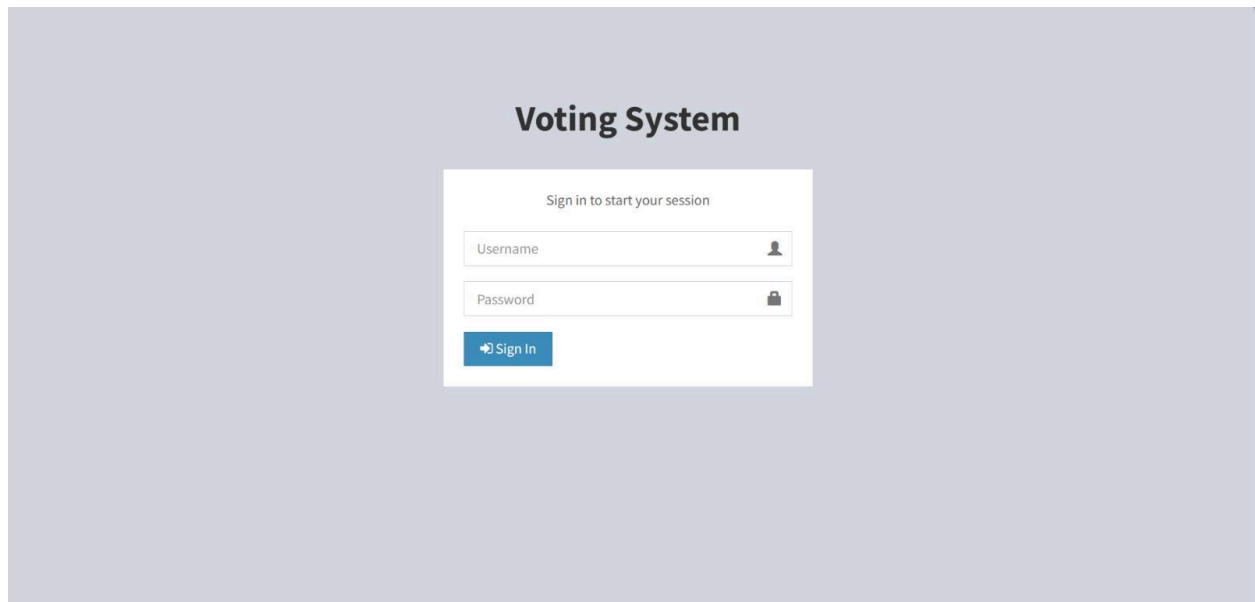
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Abstract:

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.

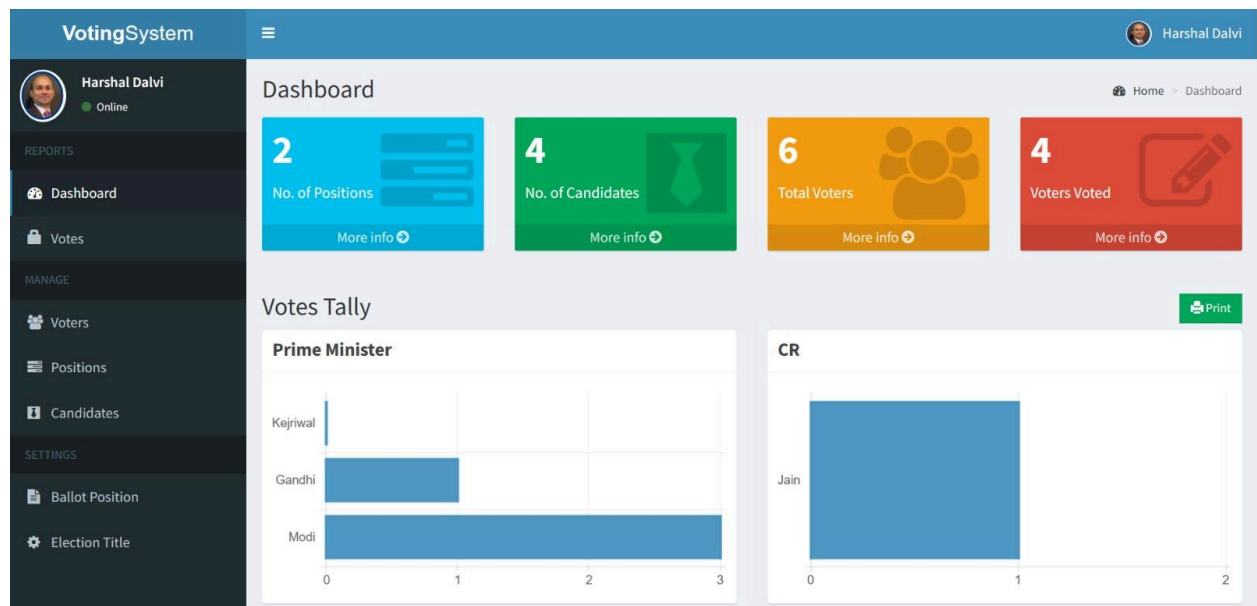
Screenshots:

Admin Login:



The screenshot displays the Admin Login interface for the Voting System. The page has a light purple background. At the top center, the text "Voting System" is displayed in a bold, black font. Below this, centered on the page, is a white rectangular login form. Inside the form, the text "Sign in to start your session" is at the top. There are two input fields: "Username" with a user icon on the right, and "Password" with a lock icon on the right. At the bottom of the form is a blue button with a white right-pointing arrow and the text "Sign In".

Dashboard:



Votes:

The Votes page displays a list of individual votes. It includes a search bar, a table with columns for Position, Candidate, and Voter, and pagination controls at the bottom.

Position	Candidate	Voter
Prime Minister	Narendra Modi	Vansh Jain
Prime Minister	Narendra Modi	Swapnil Oza
Prime Minister	Rahul Gandhi	Priyank Naik
Prime Minister	Narendra Modi	Bhavya Shah
CR	Vansh Jain	Bhavya Shah

Voters list:

VotingSystem

Harshal Dalvi
Online

REPORTS

Dashboard

Votes

MANAGE

Voters

Positions

Candidates

SETTINGS

Ballot Position

Election Title

Voters List

Home > Voters

+ New

Show 10 entries

Search:

Lastname	Firstname	Photo	Voters ID	Tools
Gala	Rachit		yISW54lPhszriaQ	
Jain	Vansh		vanshj	
Naik	Priyank		xZGHDhJzdf1W7N9	
Oza	Swapnil		b8jzDQHMZBhVPqK	
Rajput	Ronak		YMcIC4HuD5twPqV	
Shah	Bhavya		OuriCzMpAqnXg4o	

Showing 1 to 6 of 6 entries

Previous 1 Next

Positions list:

VotingSystem

Harshal Dalvi
Online

REPORTS

Dashboard

Votes

MANAGE

Voters

Positions

Candidates

SETTINGS

Ballot Position

Election Title

Positions

Home > Positions

+ New

Show 10 entries

Search:

Description	Maximum Vote	Tools
Prime Minister	1	
CR	1	

Showing 1 to 2 of 2 entries

Previous 1 Next

Candidates list:

VotingSystem

REPORTS

- Dashboard
- Votes

MANAGE

- Voters
- Positions
- Candidates

SETTINGS

- Ballot Position
- Election Title

Candidates List

Home > Candidates

+ New

Show 10 entries Search:

Position	Photo	Firstname	Lastname	Platform	Tools
Prime Minister		Narendra	Modi	View	Edit Delete
Prime Minister		Rahul	Gandhi	View	Edit Delete
Prime Minister		Arvind	Kejriwal	View	Edit Delete
CR		Vansh	Jain	View	Edit Delete

Showing 1 to 4 of 4 entries

Previous 1 Next

User login:

Voting System

Sign in to start your session

Voter's ID

Password

Sign In

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

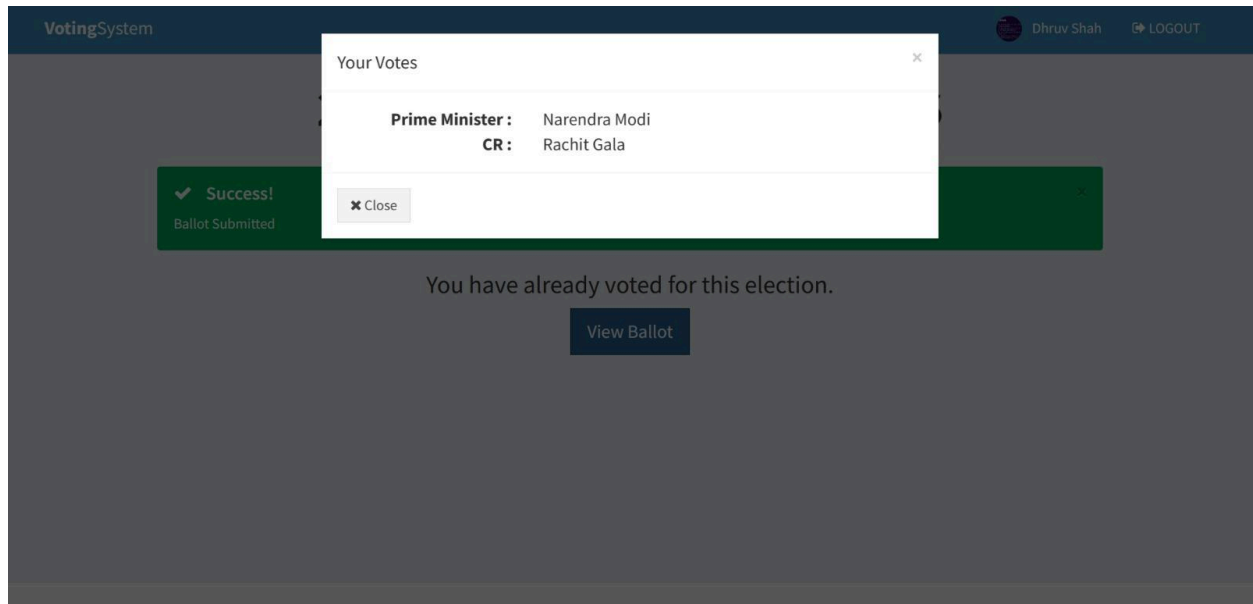
✓ Success!

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.