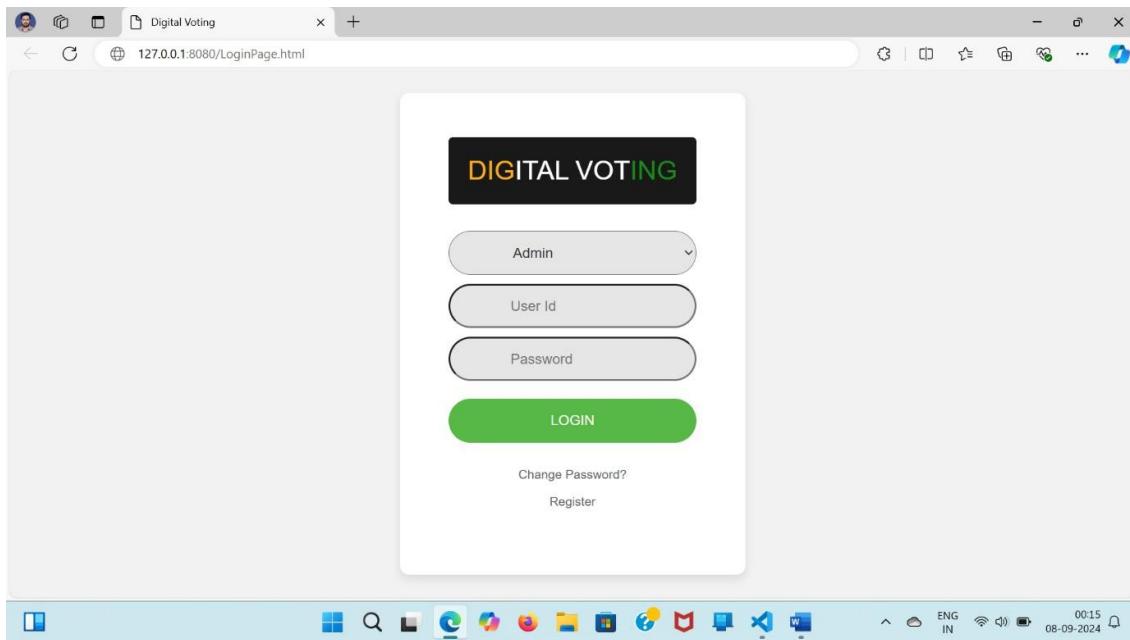
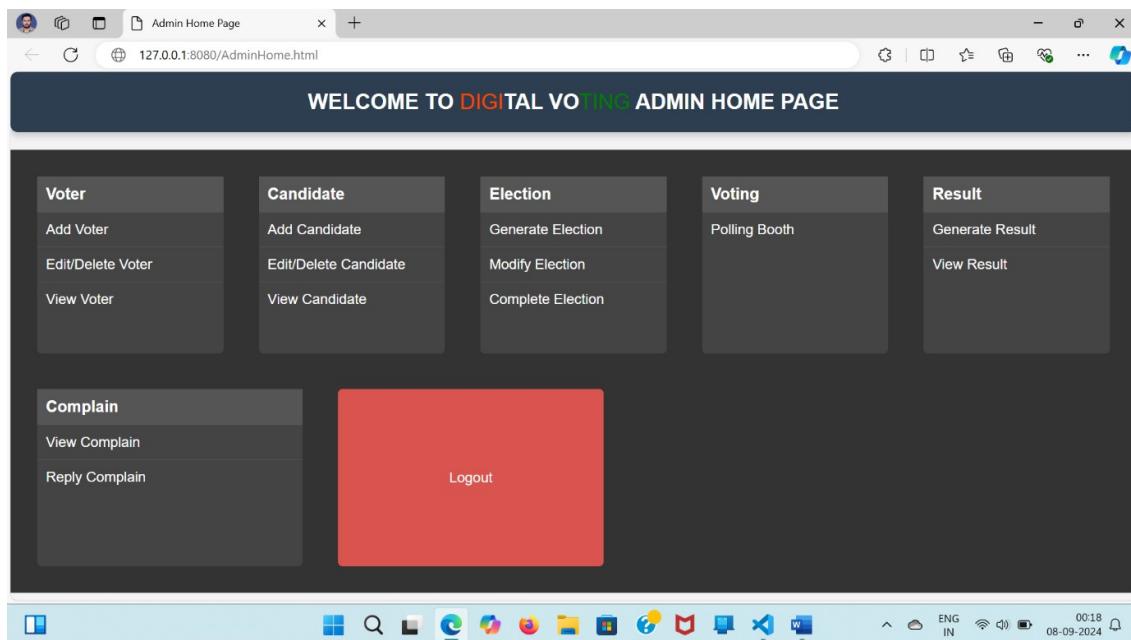


## 9.1 Output Screenshots



**Admin Login Page**

### 9.1.1 Admin Dashboard



**Admin Home Page**

**Explanation:** The Admin Dashboard is designed to provide a comprehensive overview of the system's status and operations. It

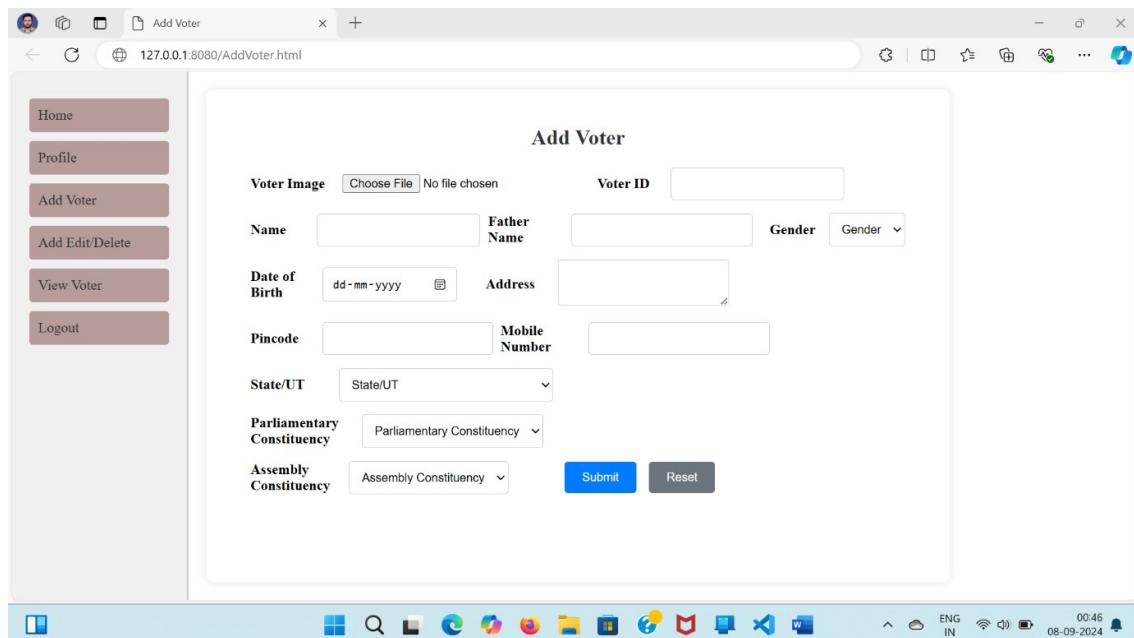
includes widgets and sections for managing voters, candidates, elections, and complaints. The dashboard displays real-time statistics, upcoming elections, and alerts for any issues or anomalies detected.

### Key Features:

- **Voter Management:** Options to view, add, edit, or delete voter information.
- **Candidate Management:** Tools to manage candidate details and review affidavits.
- **Election Setup:** Overview of ongoing and upcoming elections with configuration options.
- **Complaint Tracking:** Section for viewing and resolving voter complaints.
- **Real-Time Monitoring:** Visualizations of current voting activity and statistics.

---

#### 9.1.2 Add Voter



The screenshot shows a web browser window titled "Add Voter" with the URL "127.0.0.1:8080/AddVoter.html". The page has a sidebar on the left with buttons for "Home", "Profile", "Add Voter" (which is highlighted in blue), "Add Edit/Delete", "View Voter", and "Logout". The main content area is titled "Add Voter" and contains the following fields:

- Voter Image: A file input field labeled "Choose File" with the message "No file chosen".
- Voter ID: An input field.
- Name: An input field.
- Father Name: An input field.
- Date of Birth: A date input field with the placeholder "dd-mm-yyyy".
- Address: An input field.
- Pincode: An input field.
- Mobile Number: An input field.
- State/UT: A dropdown menu.
- Parliamentary Constituency: A dropdown menu.
- Assembly Constituency: A dropdown menu.
- Submit: A blue button.
- Reset: A grey button.

Adding Voter Form

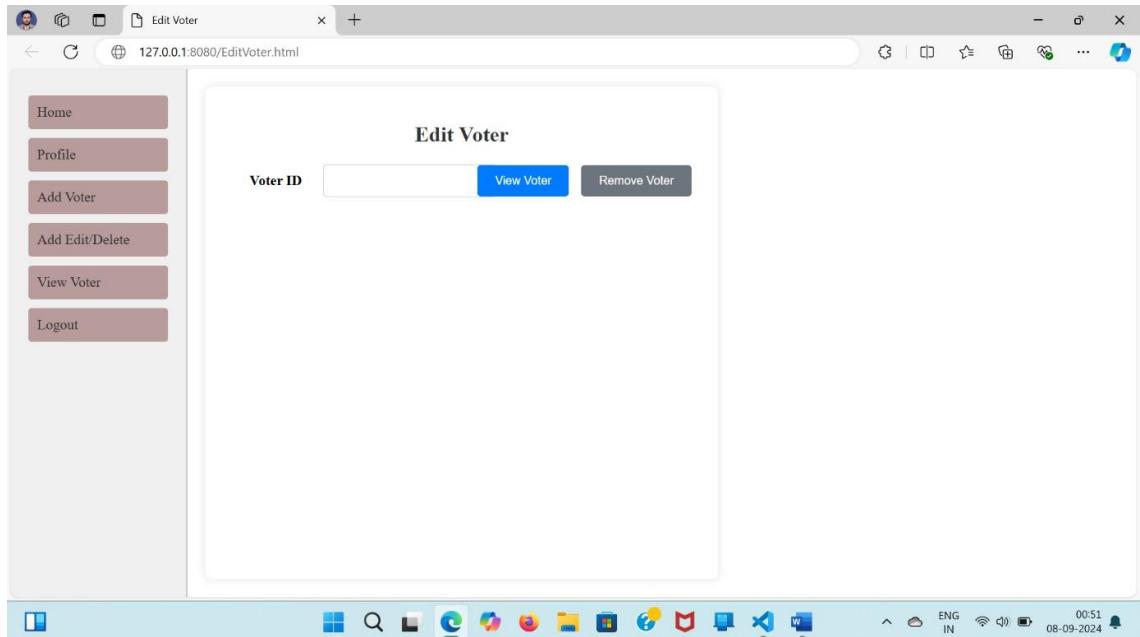
**Explanation:** The "Add Voter" page allows administrators to register a new voter by filling in required personal details and assigning a voter ID.

#### **Key Features:**

- **Form Fields:** Voter ID, name, date of birth, address, etc.
- **Face Recognition Setup:** Upload profile image for Face ID.
- **Submit Button:** To register the new voter.

---

#### **9.1.3 Edit/Delete Voter**



**Find Voter By ID**

The screenshot shows a web browser window titled "Edit Voter" at the URL 127.0.0.1:8080/EditVoter.html. On the left, there is a vertical sidebar with buttons for Home, Profile, Add Voter, Add Edit/Delete, View Voter, and Logout. The main content area is titled "Edit Voter". It contains fields for "Voter ID" (with "View Voter" and "Remove Voter" buttons), "Voter Image" (choose file input), "Name" (input field), "Father Name" (input field), "Gender" (dropdown), "Date of Birth" (date input), "Address" (input field), "Pincode" (input field), "Mobile Number" (input field), "State/UT" (dropdown), "Parliamentary Constituency" (dropdown), "Assembly Constituency" (dropdown), and "Update" and "Reset" buttons.

## Update Voter Details Form

The screenshot shows the same "Edit Voter" page as above, but with a modal dialog box in the center. The dialog box has a header "This page says" and a message "Voter removed successfully" with an "OK" button. The rest of the page remains the same, showing the voter details form.

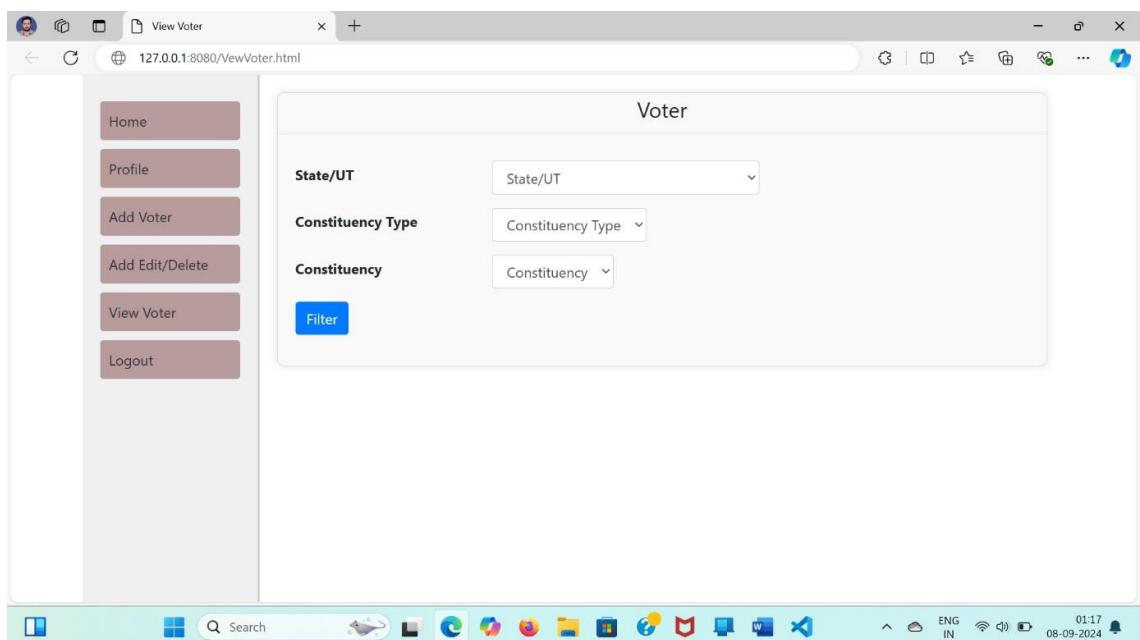
## Deleting Voter By ID

**Explanation:** The "Edit/Delete Voter" page enables administrators to search for an existing voter by voter ID and modify or delete their details.

## Key Features:

- **Search Bar:** To look up voters by ID or name.
  - **Editable Fields:** Name, date of birth, and other details.
  - **Delete Button:** Option to permanently remove a voter.
  - **Save Changes Button:** To update voter details.
- 

### 9.1.4 View Voter



Filter Voter

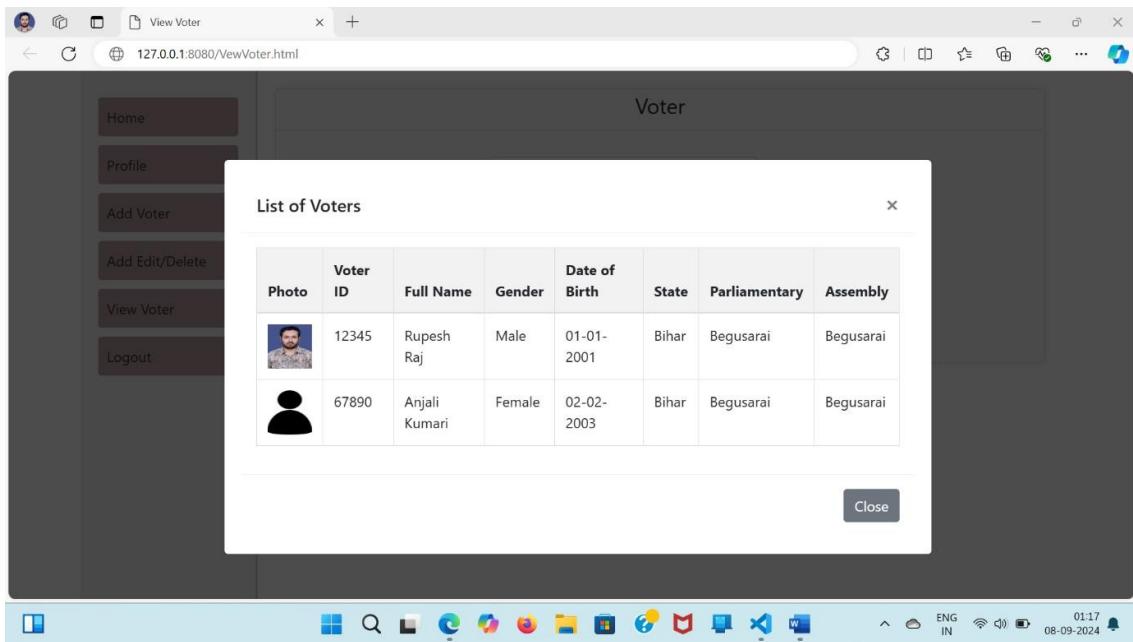


Photo	Voter ID	Full Name	Gender	Date of Birth	State	Parliamentary	Assembly
	12345	Rupesh Raj	Male	01-01-2001	Bihar	Begusarai	Begusarai
	67890	Anjali Kumari	Female	02-02-2003	Bihar	Begusarai	Begusarai

Close

## List Of Voter

**Explanation:** The "View Voter" page shows the details of a specific voter. Admins can use this page to verify voter information.

### Key Features:

- Search Voter:** Find voters by voter ID or name.
- Detailed View:** Displays full information of the voter.
- Action Buttons:** Option to edit or delete the voter.

### 9.1.5 Add Candidate

The screenshot shows a web browser window titled "Add Candidate" with the URL "127.0.0.1:8080/AddCandidate.html". The page has a sidebar on the left with links: Home, Profile, Add Candidate (which is selected), Edit/Delete Candidate, View Candidate, and Logout. The main content area is titled "Add Candidate" and contains the following fields:

- Candidate ID: [Input field]
- Candidate Name: [Input field]
- Father Name: [Input field]
- Gender: [Select dropdown: GENDER]
- Birth Date: [Input field: dd-mm-yyyy] [Calendar icon]
- Address: [Input field]
- Pincode: [Input field]
- Mobile Number: [Input field]
- State/UT: [Select dropdown: STATE/UT]
- Constituency Type: [Select dropdown: Select a Constituency Type]
- Candidate Constituency: [Select dropdown: Constituency]
- Candidate Image: [Input field: Choose File] [No file chosen]
- Candidate Party: [Input field]
- Party Image: [Input field: Choose File] [No file chosen]
- Candidate Affidavit: [Input field: Choose File] [No file chosen]
- Add Candidate: [Blue button]
- Reset: [Grey button]

The browser taskbar at the bottom shows various icons and the date/time "08-09-2024 01:22".

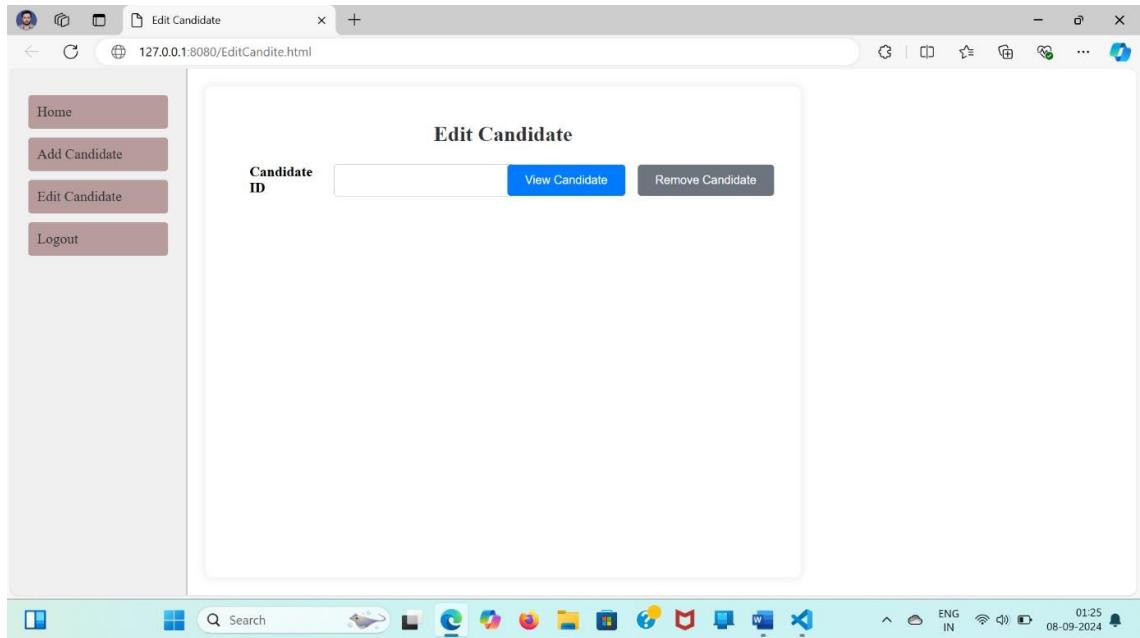
### Adding Candidate Form

**Explanation:** The "Add Candidate" page is where an admin can add a candidate to the election database by filling in details like name, party, and constituency.

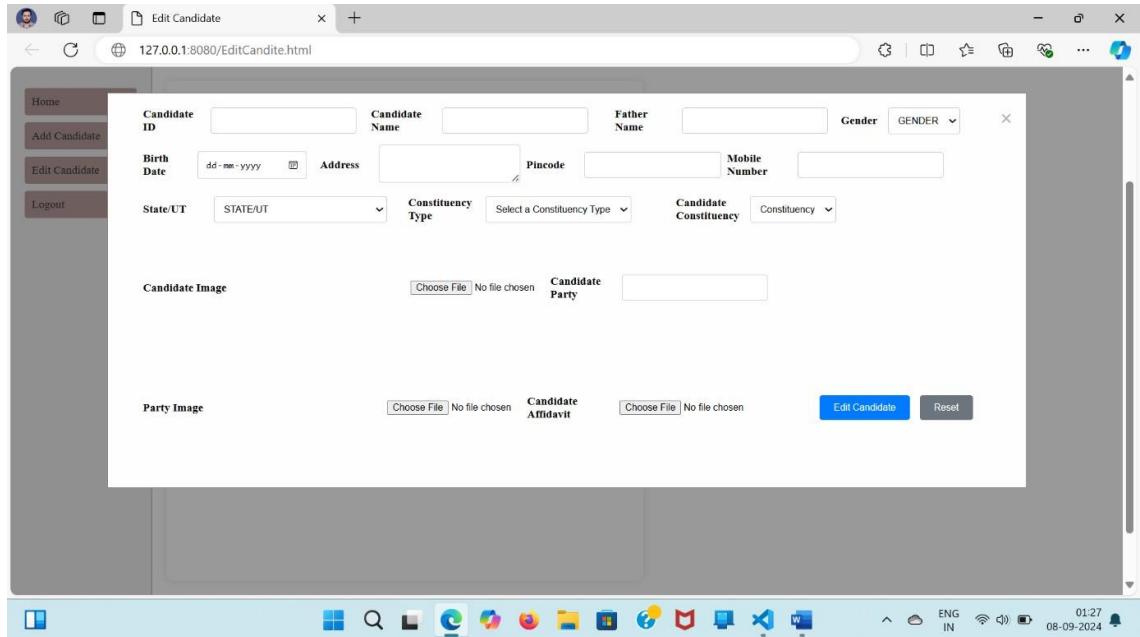
#### Key Features:

- Form Fields:** Candidate name, party affiliation, constituency, etc.
- Upload Affidavit:** Attach candidate affidavits.
- Submit Button:** To register the candidate.

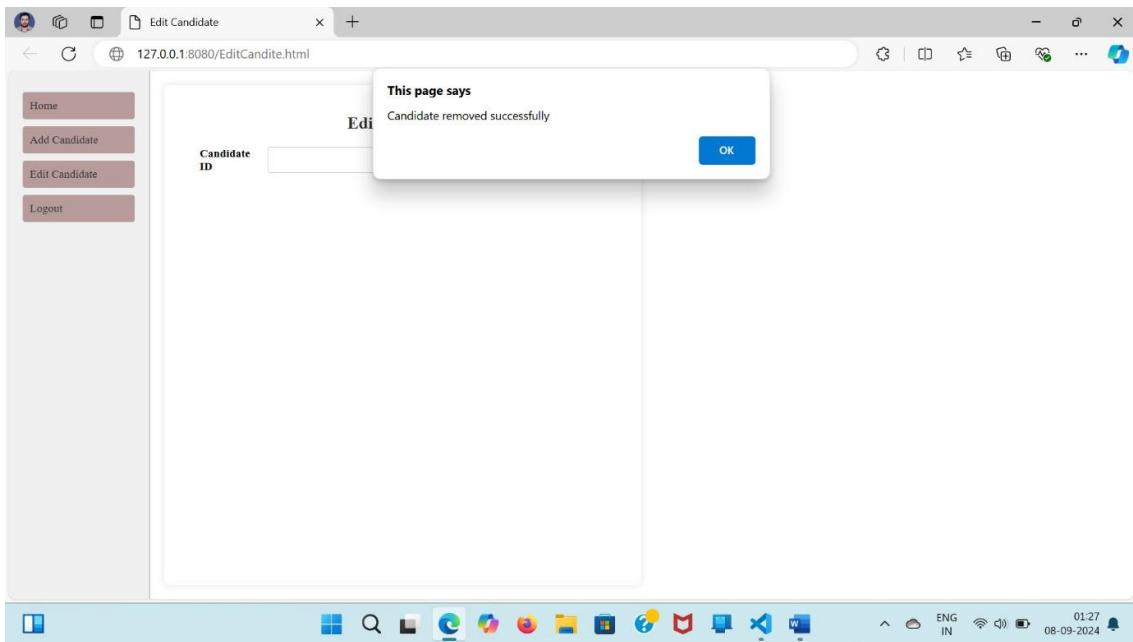
## 9.1.6 Edit/Delete Candidate



### Find Candidate By ID



### Update Candidate Details Form



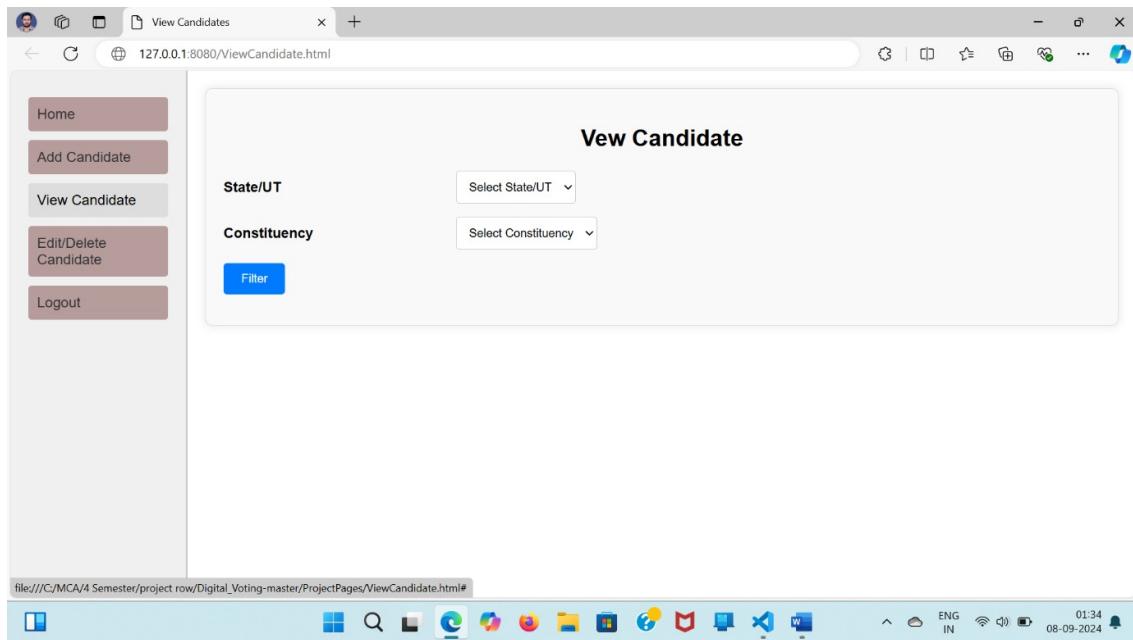
## Delete Candidate By ID

**Explanation:** This page allows the admin to search for a candidate and update their information or remove them from the system.

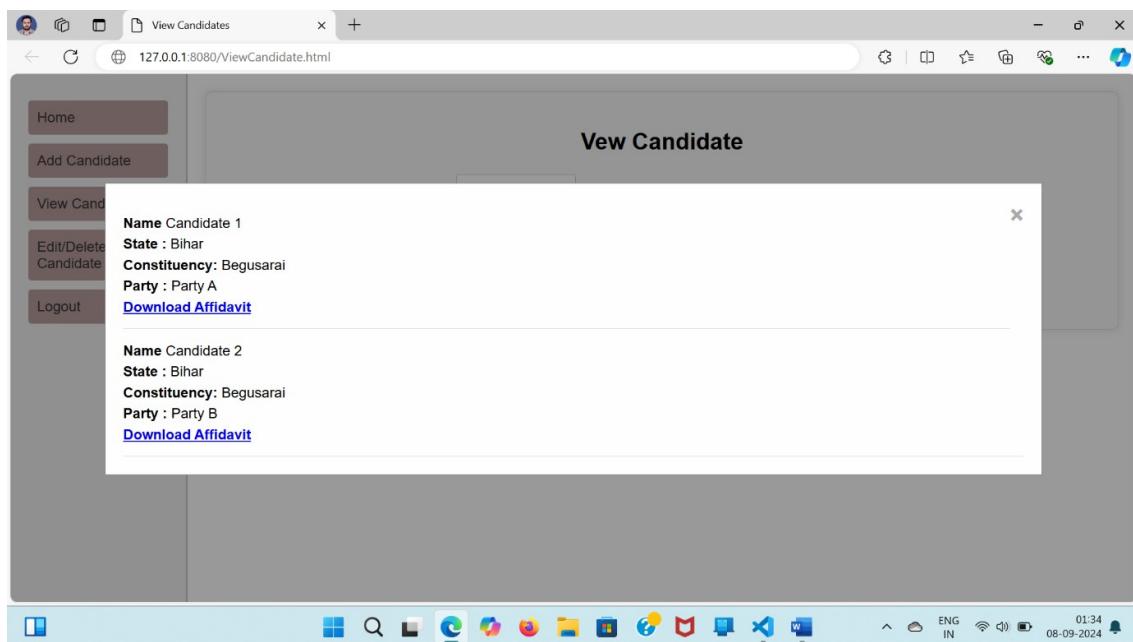
### Key Features:

- **Search Bar:** Look up candidates by name or party.
  - **Editable Fields:** Party, constituency, other details.
  - **Delete Button:** Remove the candidate from the database.
-

### 9.1.7 View Candidate



### Filter Candidate



### List of Candidate

**Explanation:** The "View Candidate" page shows the list of candidates for a specific election, along with their details and affidavit links.

## Key Features:

- **Search Candidate:** Filter candidates by constituency or name.
- **Candidate Details:** Displays name, party, and affidavit links.
- **Download Affidavit:** Option to download candidate affidavit documents.

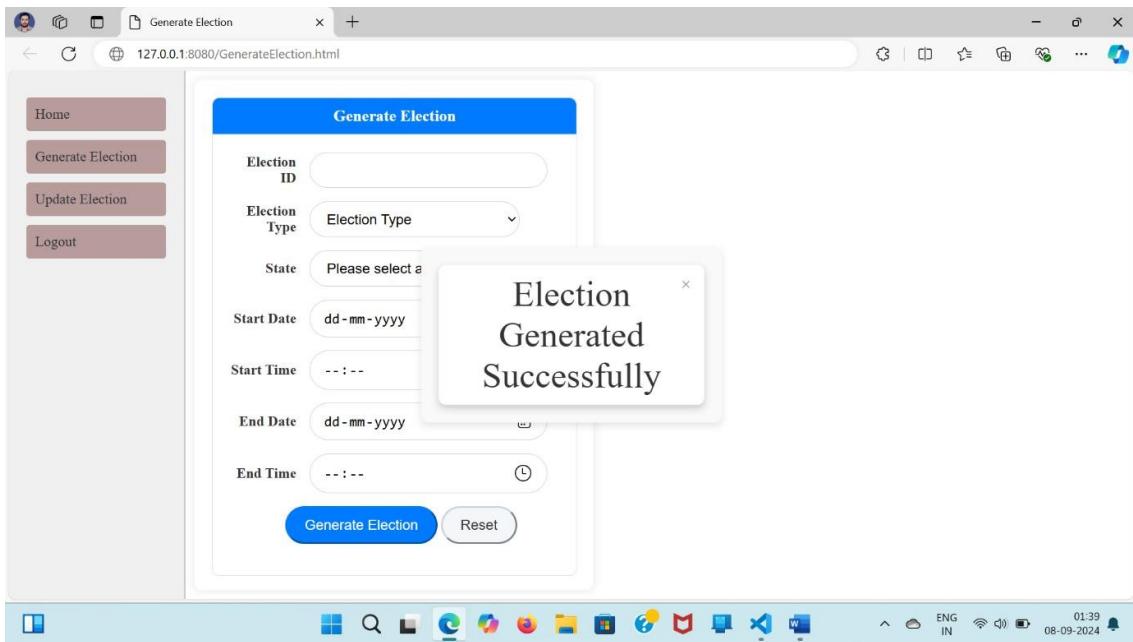
### 9.1.8 Generate Election

The screenshot shows a web browser window titled "Generate Election" with the URL "127.0.0.1:8080/GenerateElection.html". The page has a sidebar with "Home", "Generate Election" (which is active), "Update Election", and "Logout" buttons. The main content area is titled "Generate Election" and contains the following form fields:

Election ID	<input type="text"/>
Election Type	<input type="text"/> Election Type
State	<input type="text"/> Please select an State/UT
Start Date	<input type="text"/> dd-mm-yyyy
Start Time	<input type="text"/> -- : --
End Date	<input type="text"/> dd-mm-yyyy
End Time	<input type="text"/> -- : --
<input type="button" value="Generate Election"/> <input type="button" value="Reset"/>	

The status bar at the bottom shows "01:39", "ENG IN", "08-09-2024", and a battery icon.

**Generate Election**



## Election Generate Successfully

**Explanation:** The "Generate Election" page is where an admin can create a new election, defining the election date, type, and constituencies involved.

### Key Features:

- **Election Setup:** Define election ID, date, and other configurations.
- **Candidate Assignment:** Select candidates for the election.
- **Start Election:** Option to initiate the election process.

### 9.1.9 Modify Election

The screenshot shows a web browser window titled "Modify Election" with the URL "127.0.0.1:8080/ModifyElection.html". On the left, there is a sidebar with buttons for "Home", "Generate Election", "Update Election", and "Logout". The main content area has a blue header "Modify Election". It contains several input fields: "Election ID" (dropdown), "Election Type" (dropdown), "State" (dropdown), "Start Date" (date input), "Start Time" (time input), "End Date" (date input), and "End Time" (time input). Below these fields are two buttons: "Modify Election" (blue) and "Reset" (grey).

### Modify Election

**Explanation:** This page allows the admin to modify the details of an ongoing or upcoming election.

#### Key Features:

- **Edit Election Fields:** Modify election date, constituency, or candidate details.
- **Save Changes:** Update the election with new details.

### 9.1.10 Complete Election

The screenshot shows a web browser window titled "Modify Election". On the left, there is a sidebar with buttons for "Home", "Generate Election", "Update Election", and "Logout". The main area has a blue header "Modify Election". It contains several input fields: "Election ID" (dropdown), "Election Type" (dropdown), "State" (dropdown), "Start Date" (text input), "Start Time" (text input with a clock icon), "End Date" (text input), and "End Time" (text input with a clock icon). At the bottom are two buttons: "Modify Election" (blue) and "Reset" (grey).

### Complete Election

**Explanation:** This page allows the admin to mark an election as complete, closing the voting process and preparing for result generation.

#### Key Features:

- **Election Status:** Change status to “Complete.”
- **Finalizing:** Ensures no more votes can be cast.
- **Prepare Results:** Automatically leads to result processing.

### 9.1.11 Generate Result

The screenshot shows a web browser window titled "Generate Result" with the URL "127.0.0.1:8080/GenerateResult.html". On the left, there is a vertical sidebar with buttons for "Home", "Profile", "Result", and "Logout". The main content area has a blue header bar labeled "Generate Result". Below it, there are input fields for "Election ID" (a text input), "State/UT" (a dropdown menu set to "State/UT"), "Constituency Type" (a dropdown menu set to "Constituency"), "Constituency" (a dropdown menu set to "Constitute"), and two buttons: "Generate" and "Reset".

### Generate Result

The screenshot shows the same "Generate Result" page as above, but with a green success message box at the bottom containing the text "Result Generated Successfully". The rest of the interface remains the same.

### Result Generate Successfully

**Explanation:** The "Generate Result" page enables the admin to calculate and finalize the election results after voting is closed.

### **Key Features:**

- **Select Election ID:** Choose the election for which to generate results.
  - **Result Type:** Select between preliminary or final results.
  - **Generate Button:** Automatically processes and displays results.
- 

#### **9.1.12 View Result**

Explanation: The "View Result" page displays the final results of an election, including winners.

### **Key Features:**

- **Select Election:** View results by selecting a specific election.
- **Results Display:** Winner and candidate standings.
- **Download Report:** Option to export results as a PDF.

#### **9.1.13 View Complain**

Complain ID	Voter ID	Complain
1	12345	This is my complain

#### **View Complain**

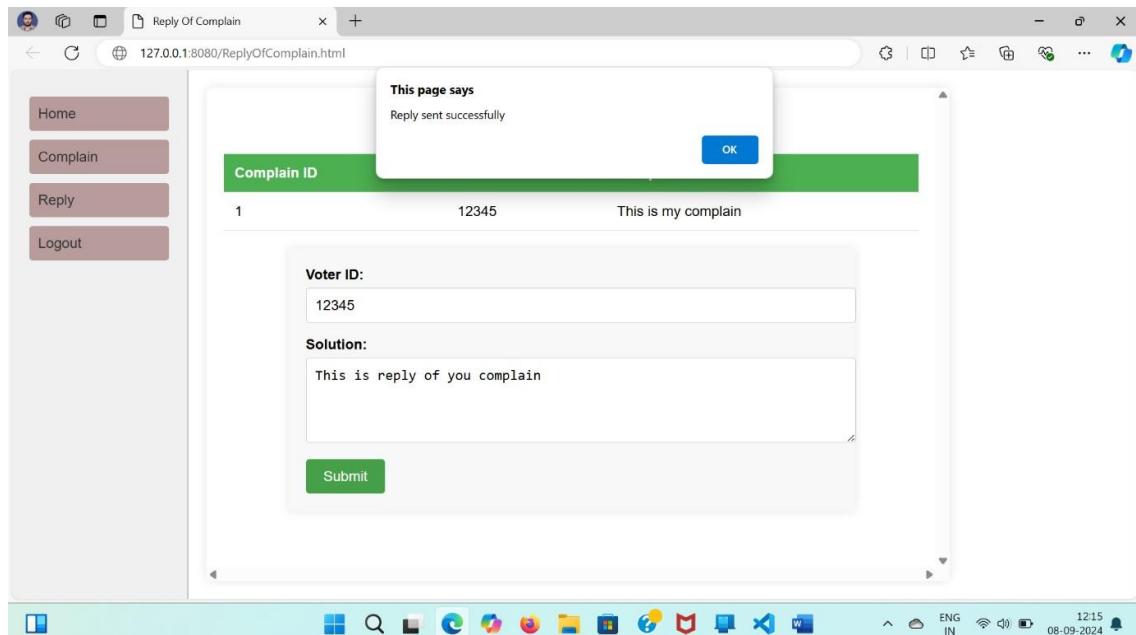
**Explanation:** The "View Complain" page shows a list of complaints submitted by voters regarding the election process or results.

### Key Features:

- **Complaint List:** Shows voter ID, complaint type, and status.
- **Complaint Details:** View full complaint description.
- **Resolve Button:** Option to reply or mark as resolved.

---

#### 9.1.14 Reply Complain



### Reply Of Complain

**Explanation:** This page allows the admin to reply to a specific voter's complaint by writing a response and marking the issue as resolved.

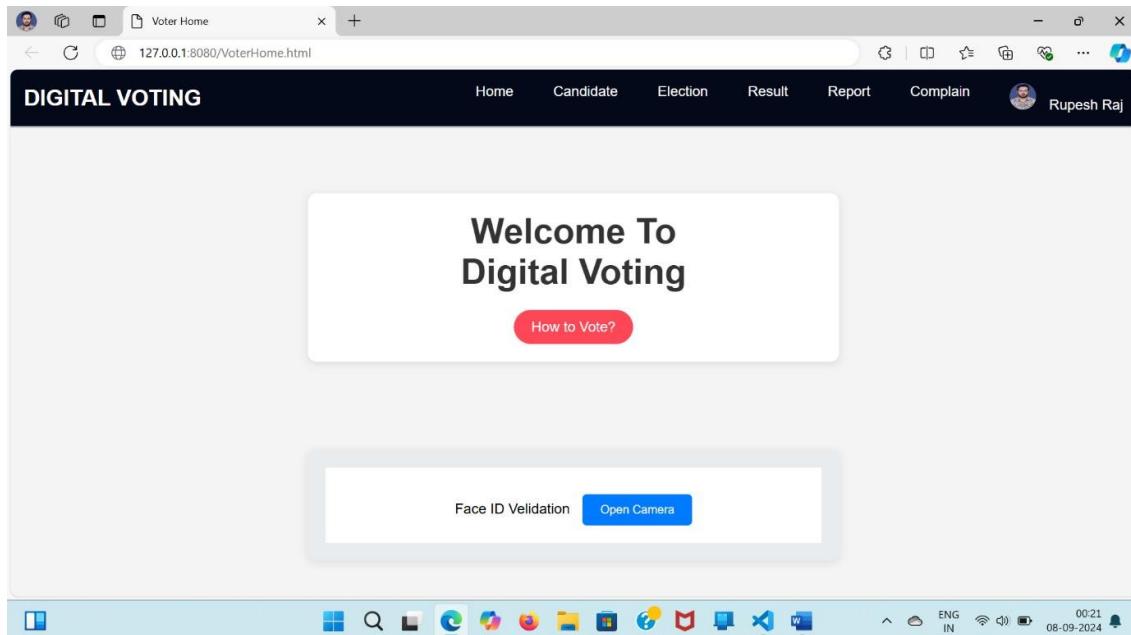
### Key Features:

- **Voter ID Input:** Select the complaint based on voter ID.
- **Reply Box:** Admin can type a response to the complaint.
- **Submit Reply Button:** Sends the response to the voter.

## 9.2 Voter Overview

- The Voter section allows registered users to manage all aspects of their participation in elections. From viewing candidates to casting votes, users can access all relevant functionalities in one place.

### 9.2.1 Voter Dashboard



### Voter Home Page

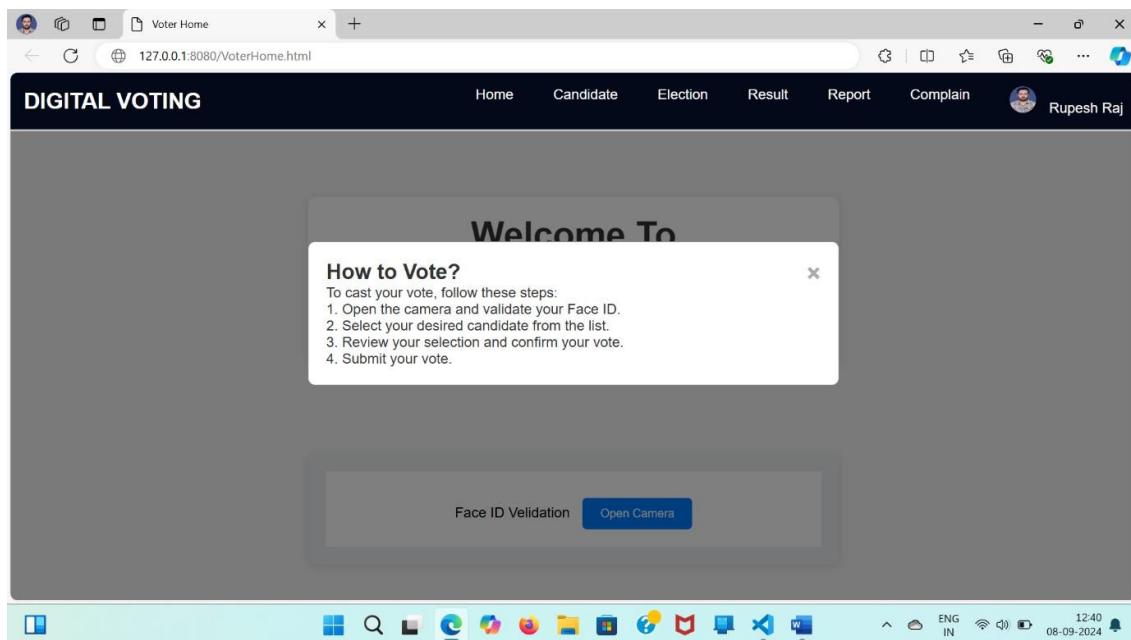
**Explanation:** The Voter Dashboard is the main control panel where voters can manage all their voting activities. It offers a comprehensive view of upcoming elections, registered complaints, and other personalized voter options.

#### Key Features:

- Quick Access: A centralized interface to access all voting-related features.
- Voting Overview: Display of election details, including voter status and upcoming events.

- Notifications: Alerts for important updates or pending actions, such as casting a vote or resolving a complaint.
- 

### 9.2.2 How To Vote



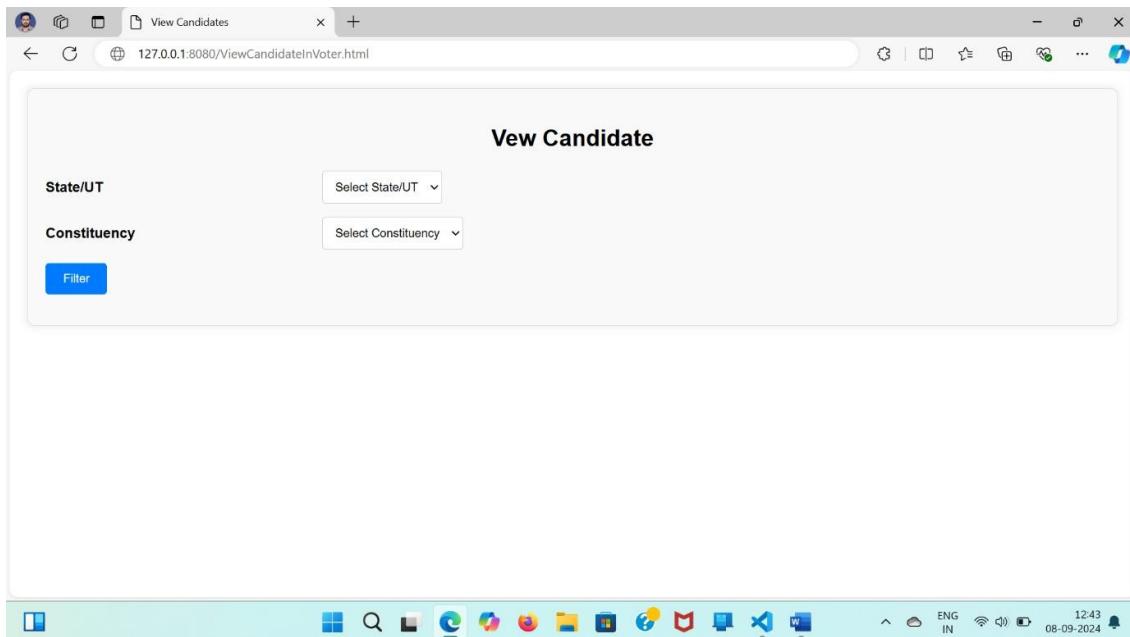
### How to Vote Page

**Explanation:** This section guides voters through the process of casting their votes, ensuring they understand each step required to participate in an election.

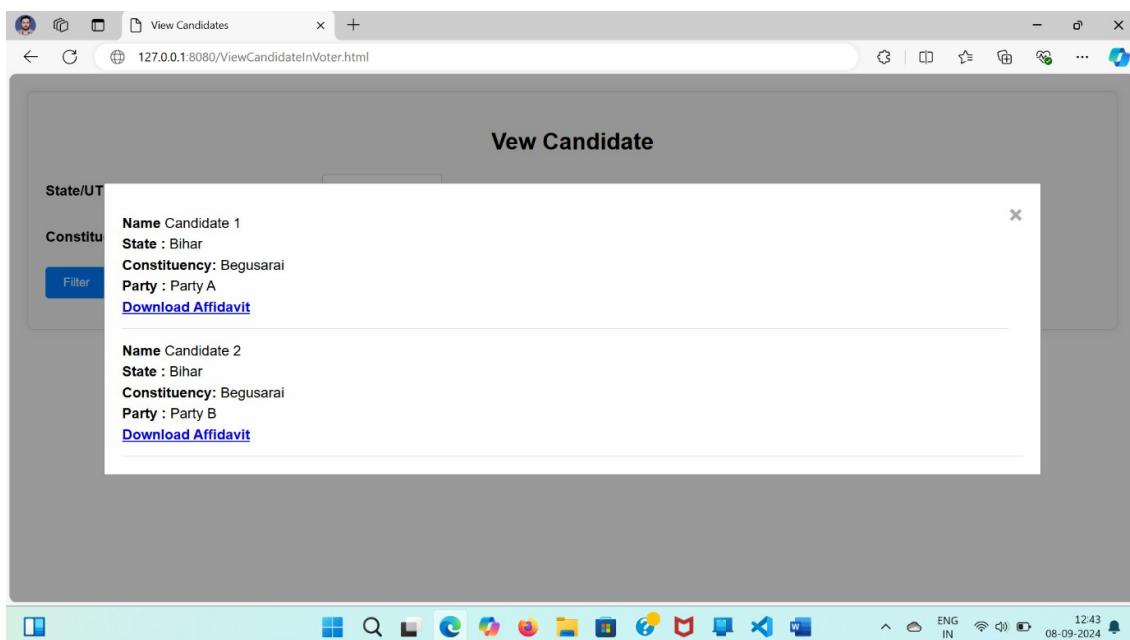
#### Key Features:

- Step-by-Step Instructions: Clear guidance on logging in, verifying identity, and casting a vote.
  - Face ID Verification: Detailed instructions on using facial recognition technology for secure access.
  - Confirmation Process: Information on how to confirm vote submission and receive acknowledgment.
-

### 9.2.3 View Candidate



### Filter Candidate



### Candidate List

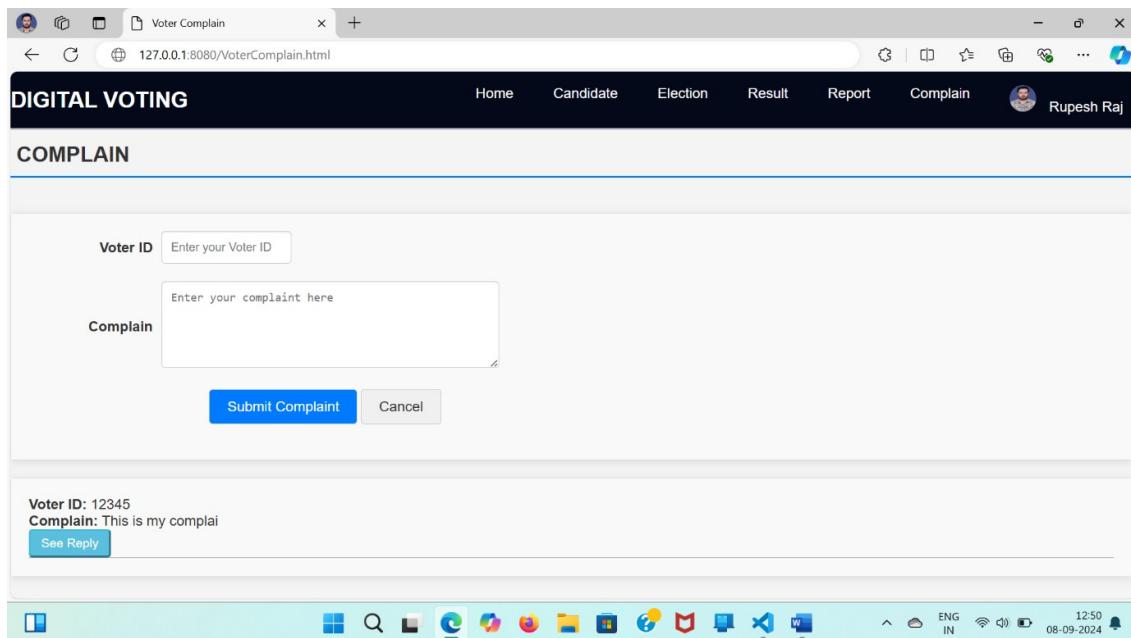
**Explanation:** Voters can explore a list of candidates running in their constituency and review their profiles, including professional backgrounds, party affiliations, and manifesto details.

### Key Features:

- Candidate Information: Comprehensive profiles of candidates, including qualifications and policies.
- Affidavit Downloads: Access to downloadable affidavits filed by candidates for transparency.
- Search and Filter: Easy-to-use filters to search candidates by constituency or party.

---

### 9.2.4 Register Complain



The screenshot shows a web-based voter complaint system. At the top, the browser window has a tab labeled "Voter Complain" and a URL "127.0.0.1:8080/VoterComplain.html". The main content area has a dark header bar with "DIGITAL VOTING" and a user profile for "Rupesh Raj". Below this is a form titled "COMPLAIN" with fields for "Voter ID" (placeholder "Enter your Voter ID") and "Complain" (placeholder "Enter your complaint here"). There are "Submit Complaint" and "Cancel" buttons. A message box displays "Voter ID: 12345" and "Complain: This is my complain" with a "See Reply" button. The bottom of the screen shows a Windows taskbar with various icons and the date/time "08-09-2024 12:50".

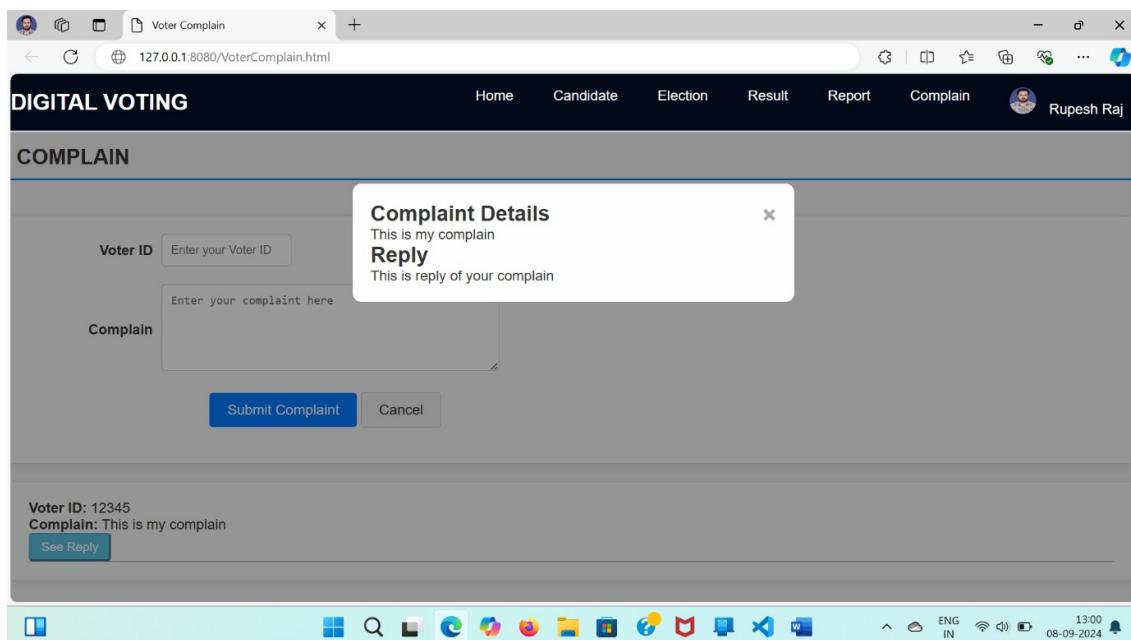
### Register Complain

**Explanation:** This section allows voters to submit complaints regarding any issues they encounter during the election process, ensuring that their concerns are addressed efficiently.

## Key Features:

- Complaint Form: Simple, user-friendly form for submitting grievances or technical issues.
- Complaint Tracking: Real-time status updates to track the progress of submitted complaints.
- Categories: Organized complaint categories such as voting issues, candidate concerns, or technical difficulties.

### 9.2.5 View Reply Of Complain



## Reply Of Complain

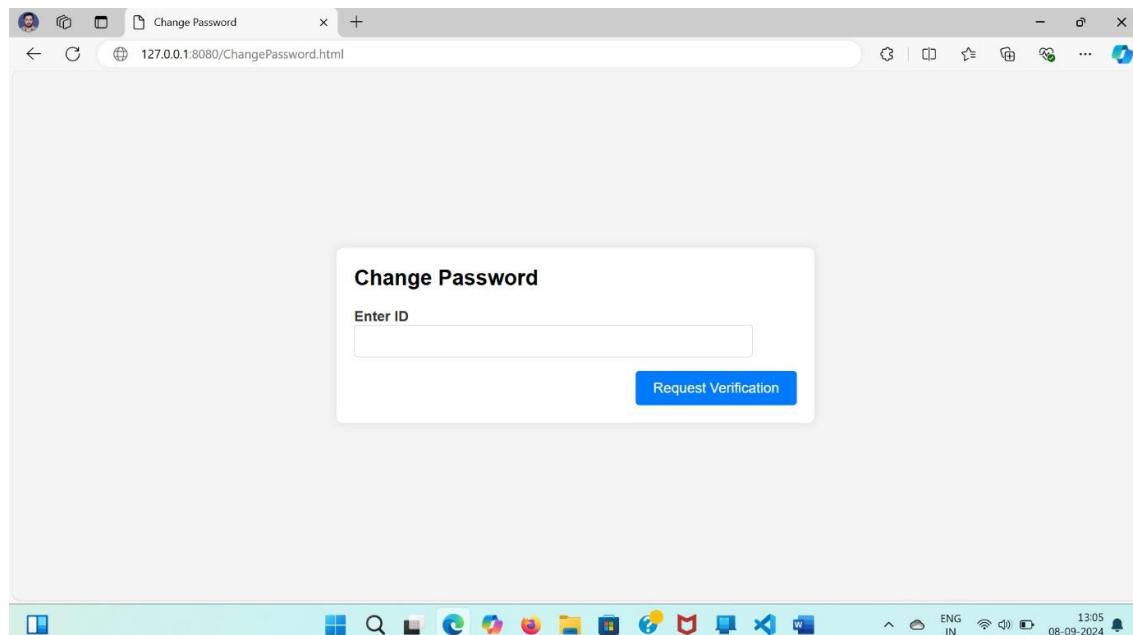
**Explanation:** Voters can review the responses and resolutions provided by the election administration to their submitted complaints, ensuring transparency and accountability.

## Key Features:

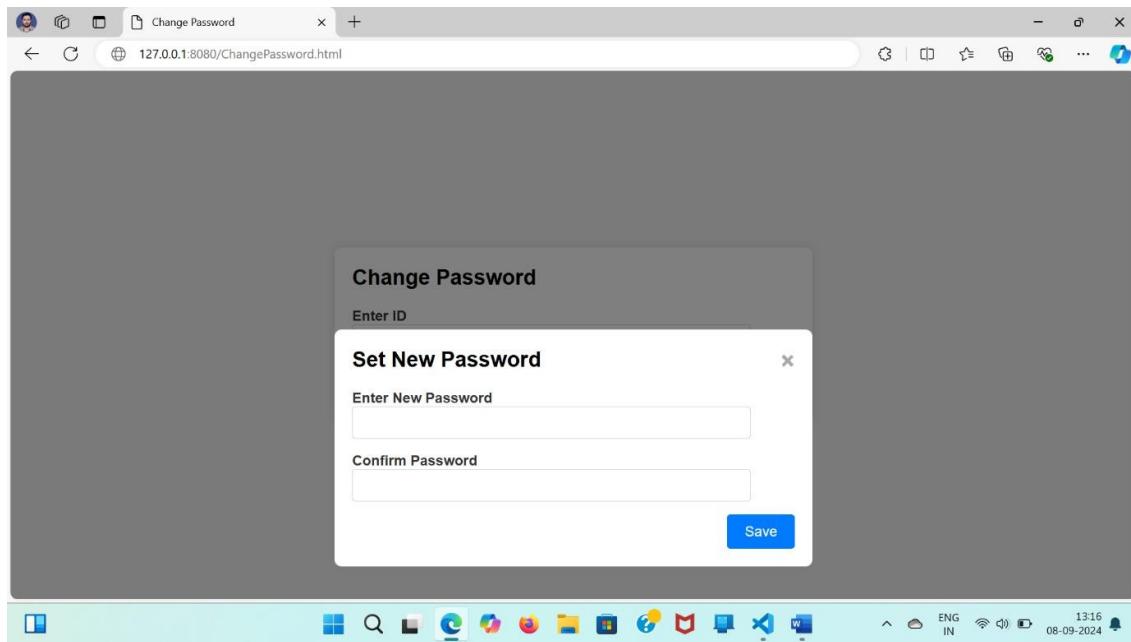
- Response Visibility: Direct access to official replies from election administrators regarding the voter's complaint.

- Resolution Details: Explanation of the actions taken or solutions provided to resolve the issue.
  - Follow-Up Options: Ability to submit additional feedback or follow-up queries if the response is unsatisfactory.
- 

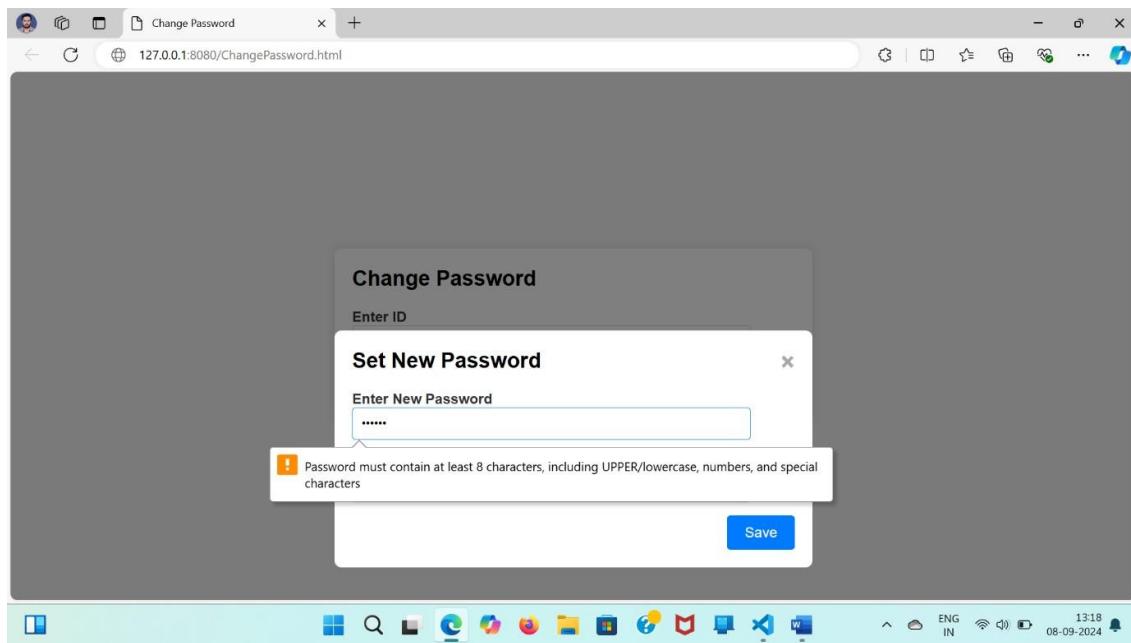
### 9.2.6 Change Password



**Verify User**



## Set New Password



## Password Note

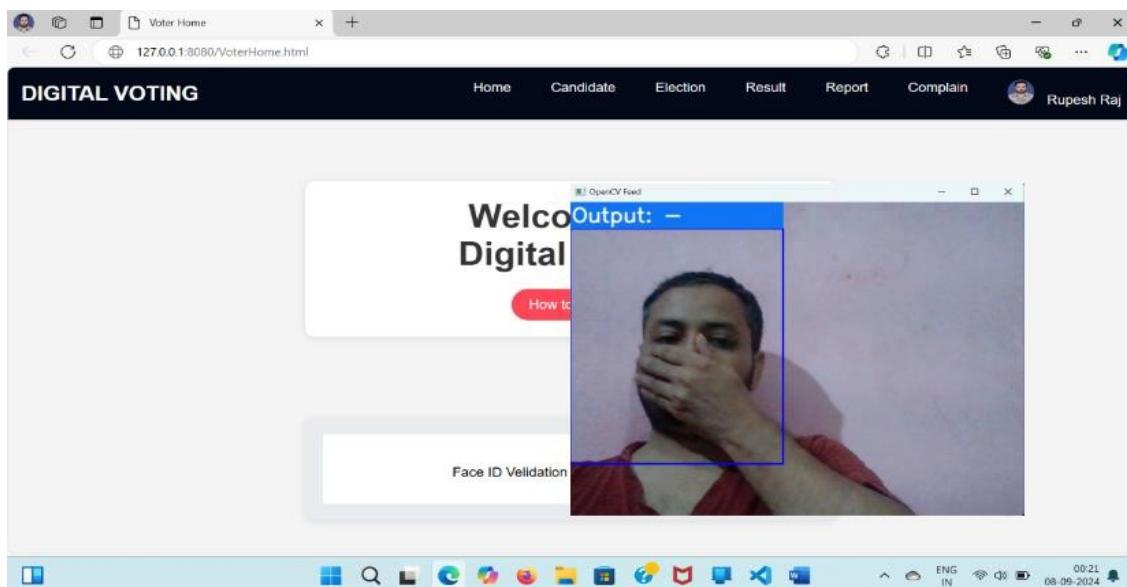
**Explanation:** Voters can securely update their account passwords to maintain the confidentiality and security of their voting accounts.

## **Key Features:**

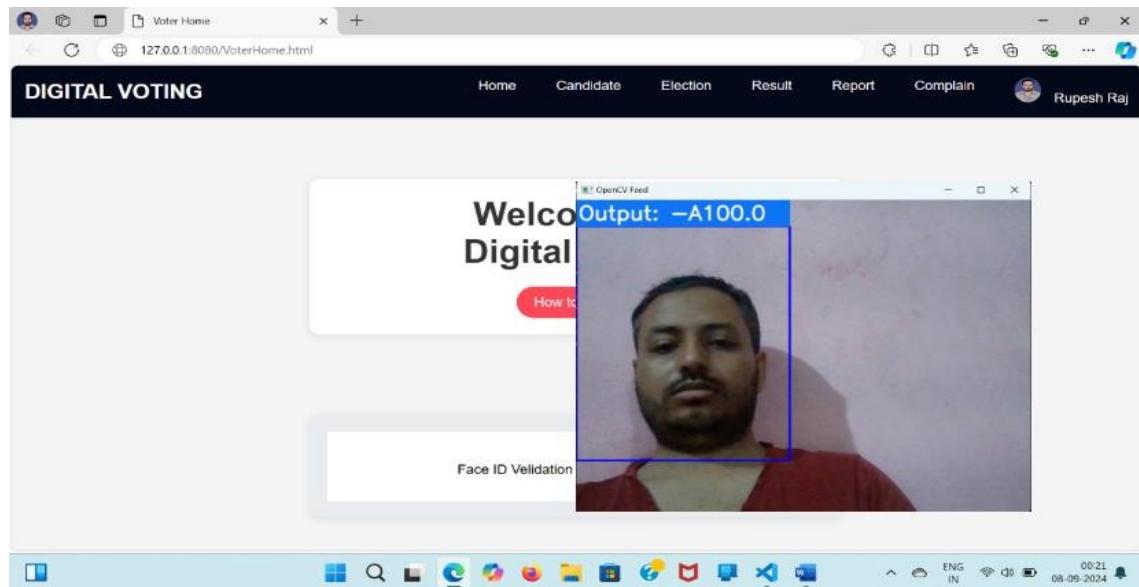
- Password Update: Easy-to-follow instructions for changing or resetting passwords.
- Security Verification: Use of two-factor authentication (2FA) or security questions to verify identity during password change.
- Password Strength Indicators: Suggestions to create a strong and secure password for better protection.

---

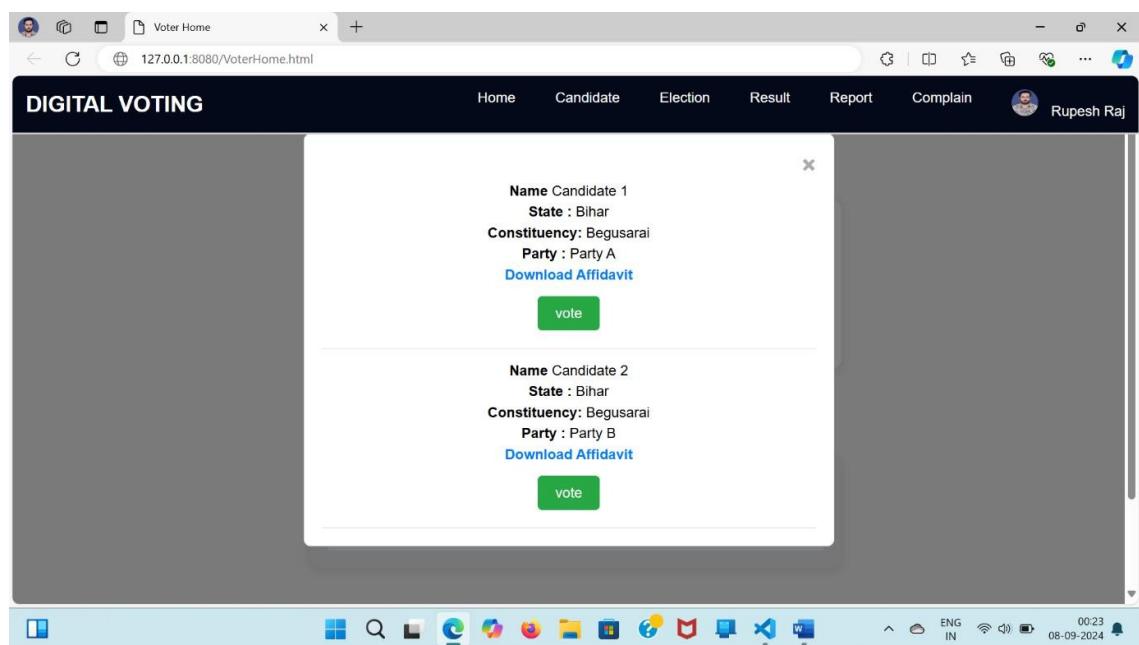
### **9.2.7 Voting Process Screenshots**



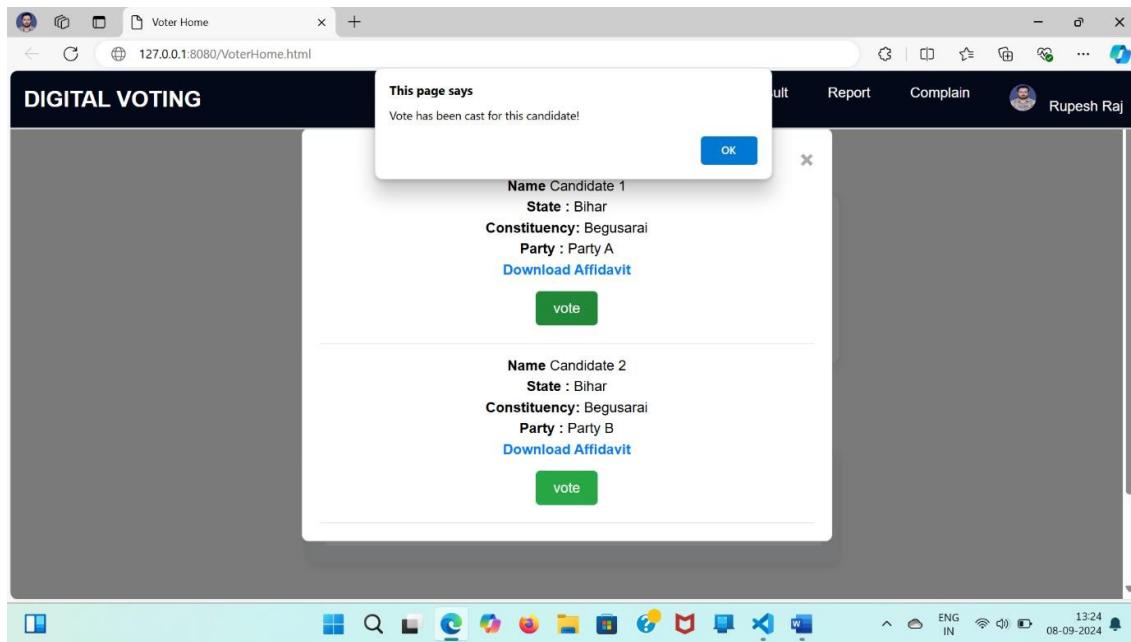
**Verifying Face ID (cover face not allow)**



### Verifying Face ID (allow voter to vote)



### Voting Page



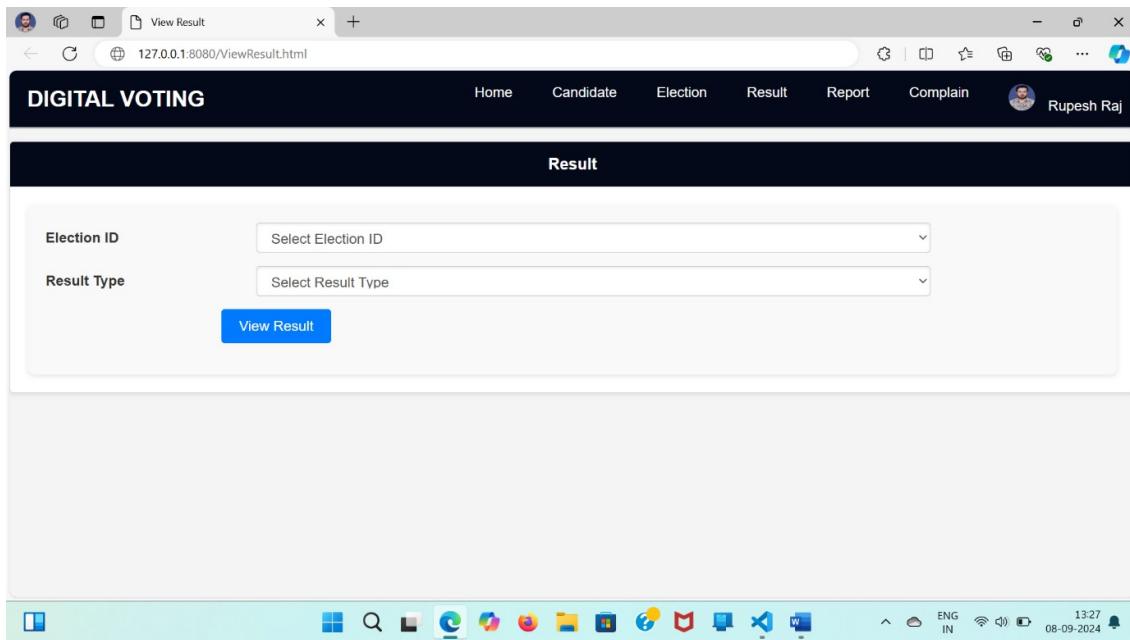
## Submission Of Vote

**Explanation:** This section contains visual aids, including screenshots, to guide voters through the online voting process, ensuring they are familiar with the system before voting.

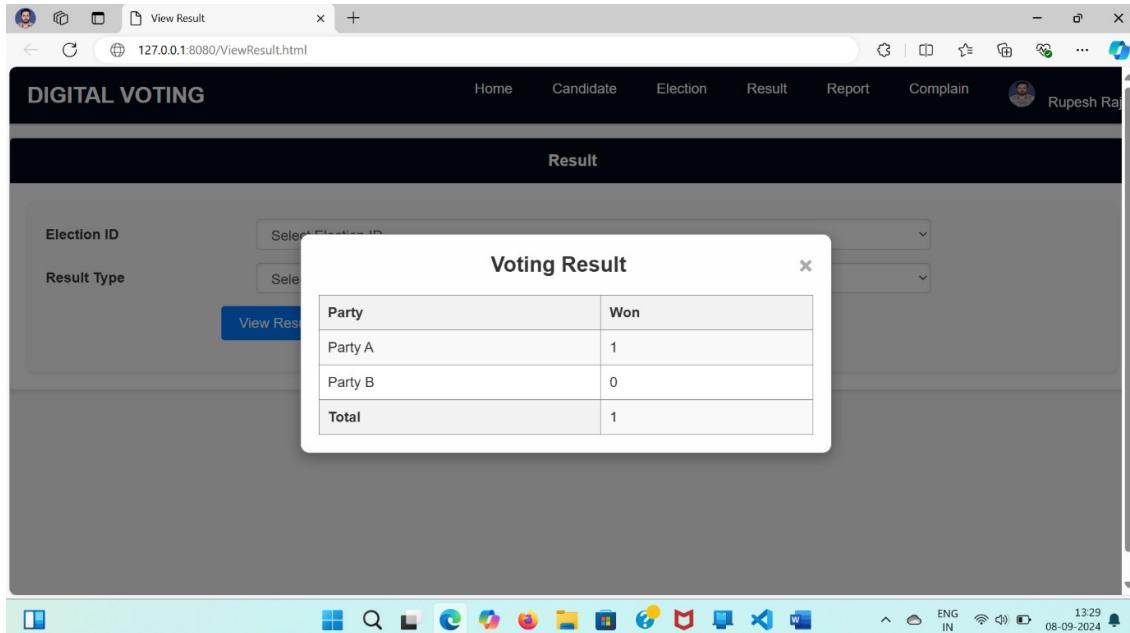
### Key Features:

- Visual Walkthrough: Step-by-step screenshots illustrating how to navigate the online voting system.
- Instructions on Every Step: Visual explanations for each stage, from logging in to vote confirmation.
- Interactive Elements: Some images may include clickable or zoomable parts to focus on specific details.

## 9.2.8 View Result



### Filter Result



### Result

**Explanation:** After the elections, voters can view official results, including a breakdown of votes by constituency and candidate, ensuring transparency and real-time updates.

**Key Features:**

- Election Results: Detailed results of the elections in real-time, including winning candidates and vote counts.
  - Filters and Breakdown: Ability to filter results by region, party, or candidate for more focused viewing.
  - Historical Data: Access to past election results for comparison and analysis.
- 

### 9.2.9 Log Out

**Explanation:** The Log Out feature ensures that voters securely exit their accounts, safeguarding their information after each session.

**Key Features:**

- Secure Logout: Immediate end of the session to protect voter data from unauthorized access.
- Session Timeout: Automatic log out after a period of inactivity for enhanced security.
- Logout Confirmation: Notification to confirm successful logout and secure exit from the system.

## 9.3 Voter Overview

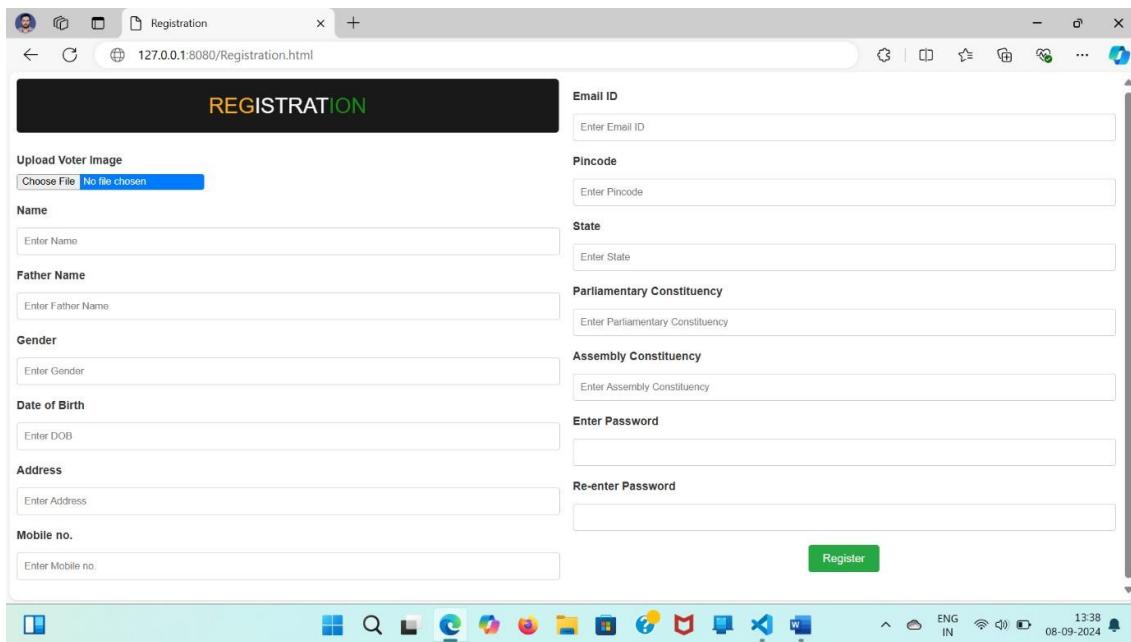
**Explanation:** The Voter section provides essential tools and options for both existing and new voters, ensuring easy access to all voter services. This section helps manage voter registration, updates, and other necessary voting processes.

## Key Features:

- Voter Management: Tools for both new and existing voters to handle registration and personal details.
- Access to Voting Services: Seamless transition between voter registration and accessing the voting system.
- Support Resources: Help and support for any voter-related queries or issues.

---

### 9.3.1 New Voter



The screenshot shows a web browser window with the title bar "Registration". The address bar displays the URL "127.0.0.1:8080/Registration.html". The main content area is a registration form titled "REGISTRATION" in green. The form fields include:

- Upload Voter Image: A file input field with "No file chosen".
- Email ID: An input field labeled "Enter Email ID".
- Pincode: An input field labeled "Enter Pincode".
- Name: An input field labeled "Enter Name".
- Father Name: An input field labeled "Enter Father Name".
- State: An input field labeled "Enter State".
- Parliamentary Constituency: An input field labeled "Enter Parliamentary Constituency".
- Assembly Constituency: An input field labeled "Enter Assembly Constituency".
- Gender: An input field labeled "Enter Gender".
- Date of Birth: An input field labeled "Enter DOB".
- Address: An input field labeled "Enter Address".
- Mobile no.: An input field labeled "Enter Mobile no.". To its right is a "Register" button.
- Enter Password: An input field labeled "Enter Password".
- Re-enter Password: An input field labeled "Re-enter Password".

The status bar at the bottom shows various icons and the date "08-09-2024".

### Registration Form

**Explanation:** The New Voter section is designed to guide individuals through the voter registration process, enabling them to become eligible for participation in upcoming elections.

## Key Features:

- Registration Form: Simple and intuitive form for new voters to enter personal information and create a voting profile.

- Identity Verification: Includes steps for verifying the voter's identity through various means like document upload or Face ID verification.
  - Eligibility Check: Ensures that the new voter meets the criteria required to participate in elections (e.g., age, citizenship).
  - Confirmation: Provides a confirmation receipt once registration is successfully completed, along with information on the next steps.
- 

## 9.4 Discussion of Results

The results from testing and user interactions with the digital voting system highlight its effectiveness and areas for improvement.

- **Effectiveness:** The system successfully supports remote voting, allowing users to participate in elections from any location. The facial recognition feature provides a secure and user-friendly authentication method. The admin panel enables efficient management of elections, candidates, and voter information, while the voter dashboard simplifies the voting process.
  - **User Experience:** Feedback from users indicates that the system is generally intuitive and easy to navigate. The real-time monitoring tools and complaint resolution features enhance the overall administration of elections.
  - **Accuracy and Performance:** Testing shows that facial recognition accuracy is high, with minimal false positives and false negatives. Performance testing confirms that the system handles peak loads effectively, maintaining responsive and reliable operations during high traffic periods.
-