



اُونِيُوَرْسِيْتِي تِيكْنُوْلُوْجِي مَآرَا  
UNIVERSITI  
TEKNOLOGI  
MARA

**FACULTY OF COMPUTER AND MATHEMATICAL SCIENCES**

**DEGREE IN COMPUTER SCIENCE**

**CSC584**

**ENTERPRISE PROGRAMMING**

**TITLE: ONLINE STUDENT ELECTION MANAGEMENT SYSTEM**

**CDCS2302B**

**USER MANUAL**

**PREPARED BY**

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**DATE OF SUBMISSION**

**09 FEBRUARY 2026**

## 1. FINAL DATABASE DESIGN

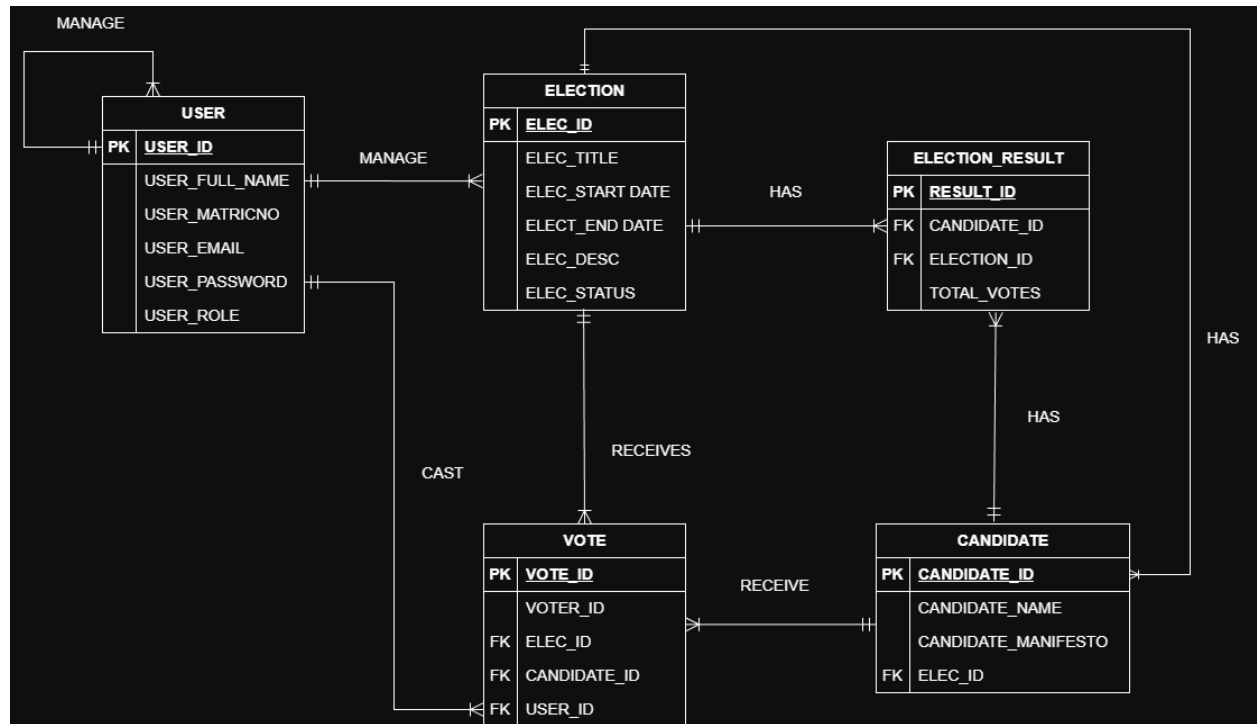


Figure 1: Entity Relationship Diagram (ERD) for Online Voting System

## 2. MVC FRAMEWORK

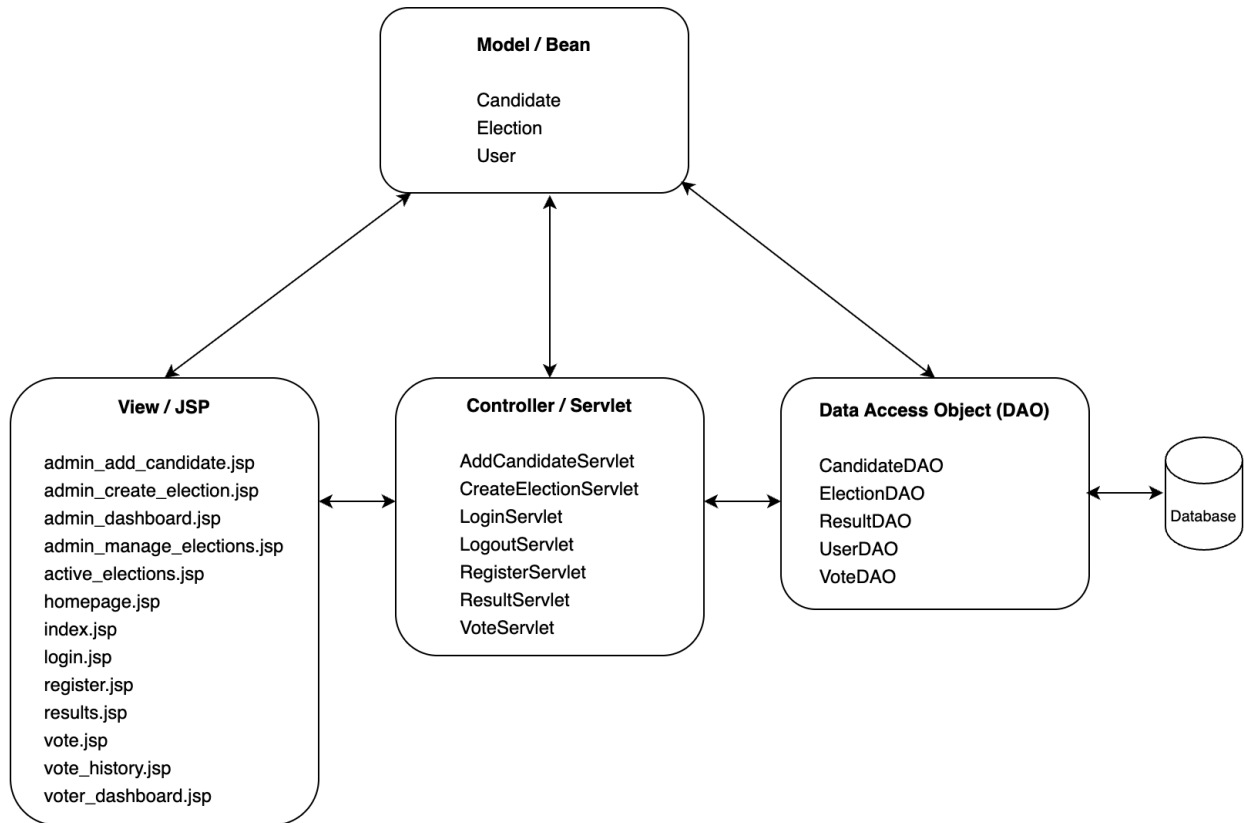


Figure 2: Model View Controller (MVC) Framework Design of Online Voting System

# **USER MANUAL**

## **ONLINE STUDENT ELECTION MANAGEMENT SYSTEM**

## 1.0 Homepage

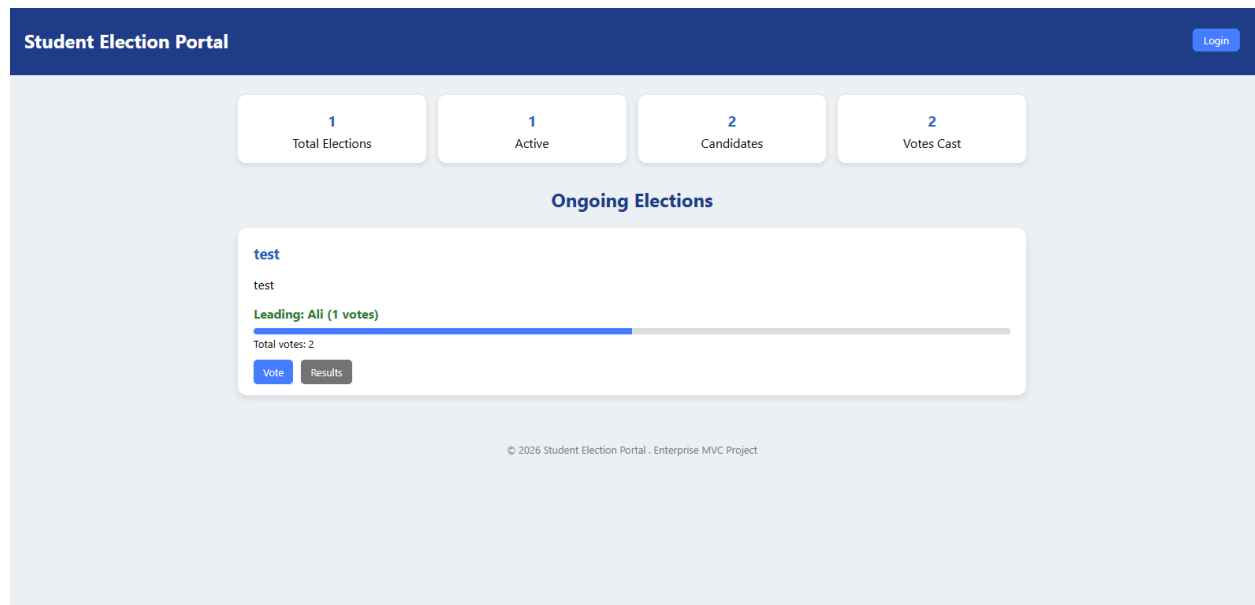
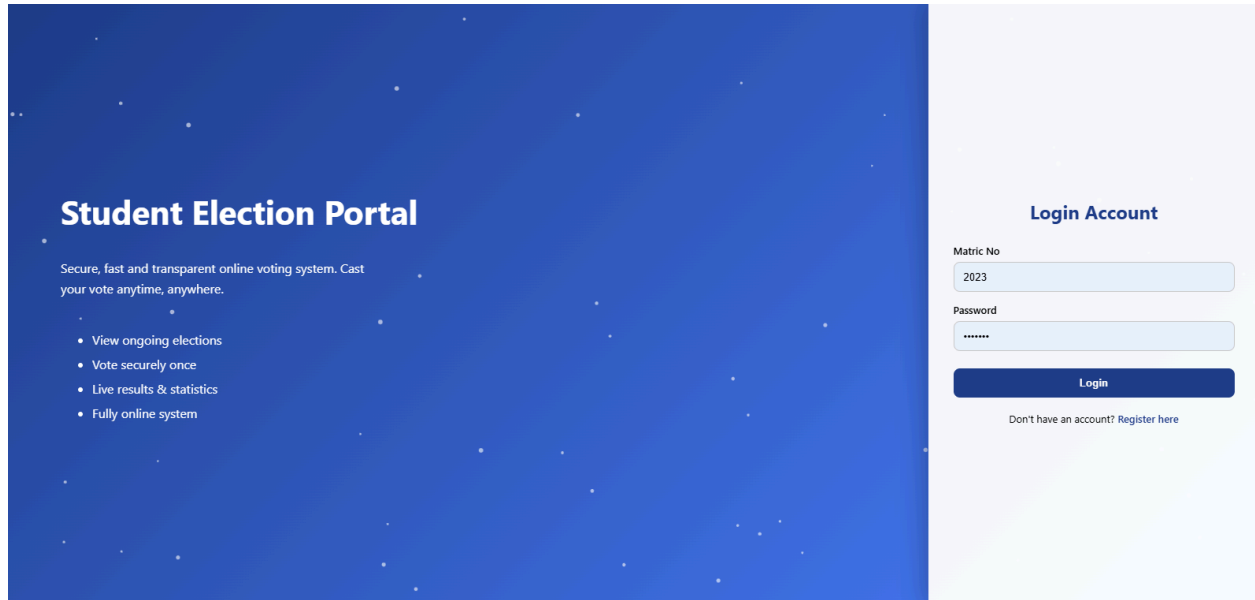


Figure 1 : Homepage

**Description:** The homepage provides an overview of the system's activity through four status cards: Total Elections, Active Elections, Candidates, and Votes Cast. Users can view the progress of "Ongoing Elections" via real-time leaderboards and progress bars, and can proceed to cast their vote or view detailed results by clicking the respective buttons on the election card.

## 2.0 Login



**Student Election Portal**

Secure, fast and transparent online voting system. Cast your vote anytime, anywhere.

- View ongoing elections
- Vote securely once
- Live results & statistics
- Fully online system

**Login Account**

Matric No  
2023

Password  
\*\*\*\*\*

Login

Don't have an account? [Register here](#)

Figure 2 : Login page

**Description:** In the login page, the user can fill in their matric number and password to login into the system. If the user has not registered as a user, the user can click on the “Register” option below the “Login” button.

### 3.0 Register

**Join the Election Portal**

Create your student account to participate in campus elections and make your voice count.

- Secure registration
- One student = one vote
- Instant results
- Fully online system

**Create Account**

Full Name

Matric Number

Email

Password

**Register**

[Already have an account? Login here](#)

Figure 3 : Register page

**Description:** Upon clicking the “Register” option, the system will display this page with a form where users can fill in all relevant details such as their full name, matric number, email and password. Once all the required details are filled, they can click on the “Register” button below which will register them into the voting system. After successfully registering, the user will be redirected back to the login page and fill their details before logging into the system.

## 4.0 Voter Dashboard

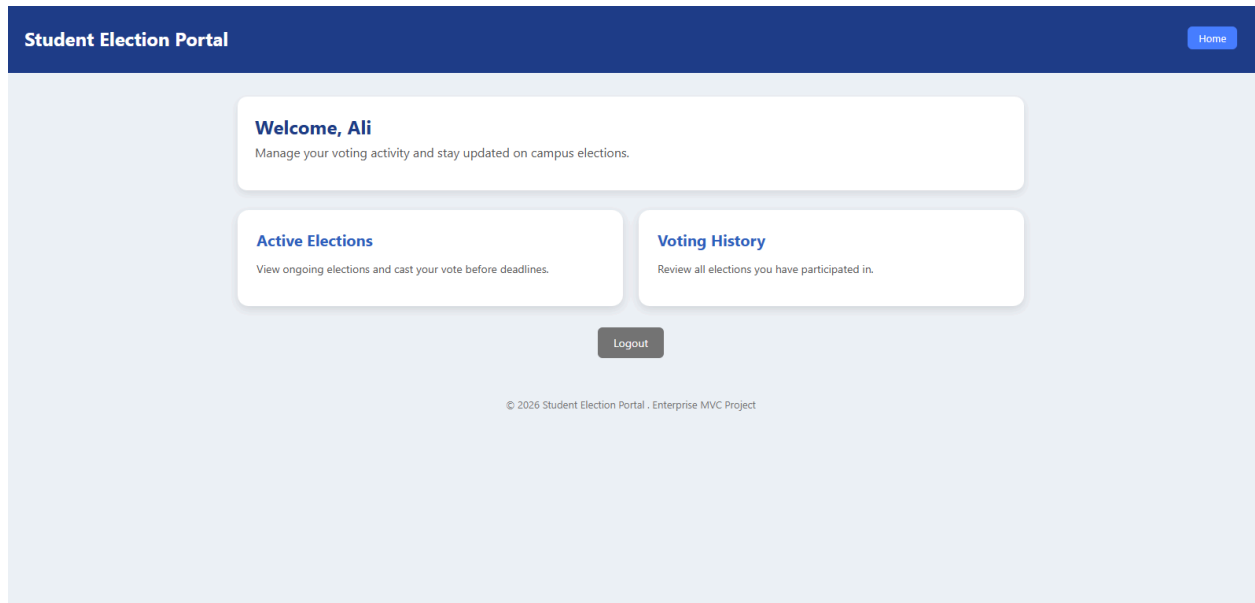


Figure 4 : Voter Dashboard page

**Description:** Once logged in as a voter, the system will display this page. The user can perform their desired action by clicking on the options displayed such as “Active Elections” to view and participate in the ongoing elections. The user will also be able to look back on the voting history that they have made by clicking on the “Voting History” option. In this page, users can also log out of the system by clicking the “Logout” button at the bottom of this page.



## 5.0 Active Elections

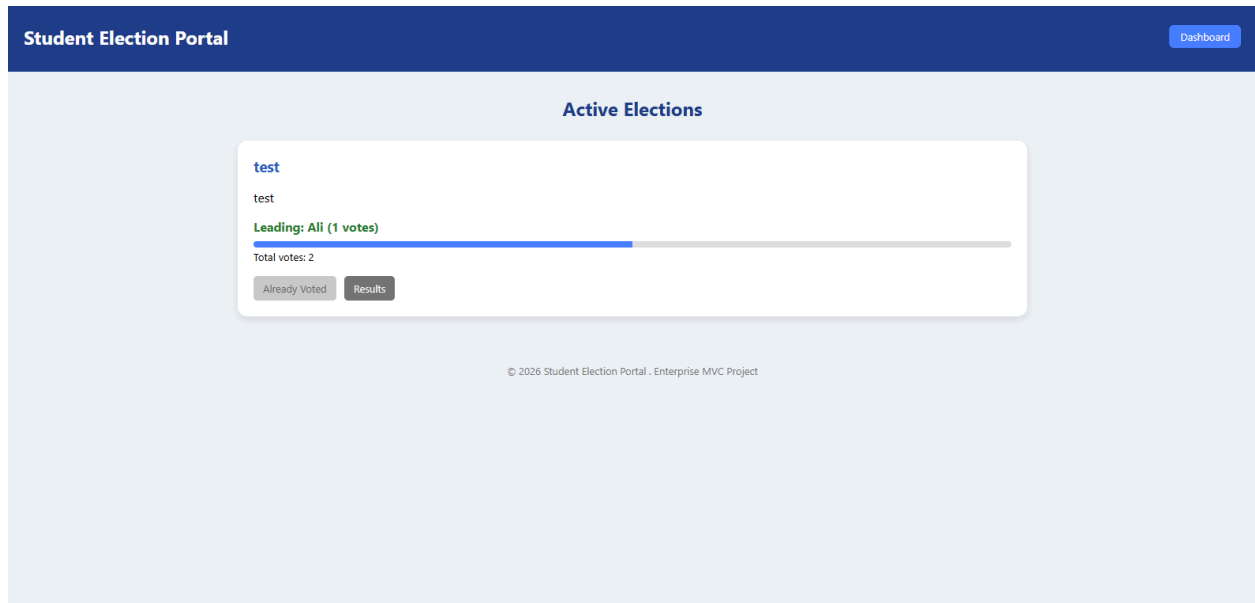


Figure 5: Active Elections page

**Description:** On the Active Elections page, users can view a list of all current polls along with real-time statistics, such as the leading candidate and the total number of votes cast. If a user has already participated, the "Vote" button will appear as "Already Voted," but they can still click on the "Results" button to view the live election standings.

## 6.0 Vote

Figure 6 : Vote page

**Description:** In the Vote page, users can select their preferred candidate by clicking the radio button next to the candidate's name. After making a selection, the user can click the “**Submit Vote**” button to finalize their choice or click “**Cancel**” to return to the previous screen without voting.

## 7.0 Live Election Results

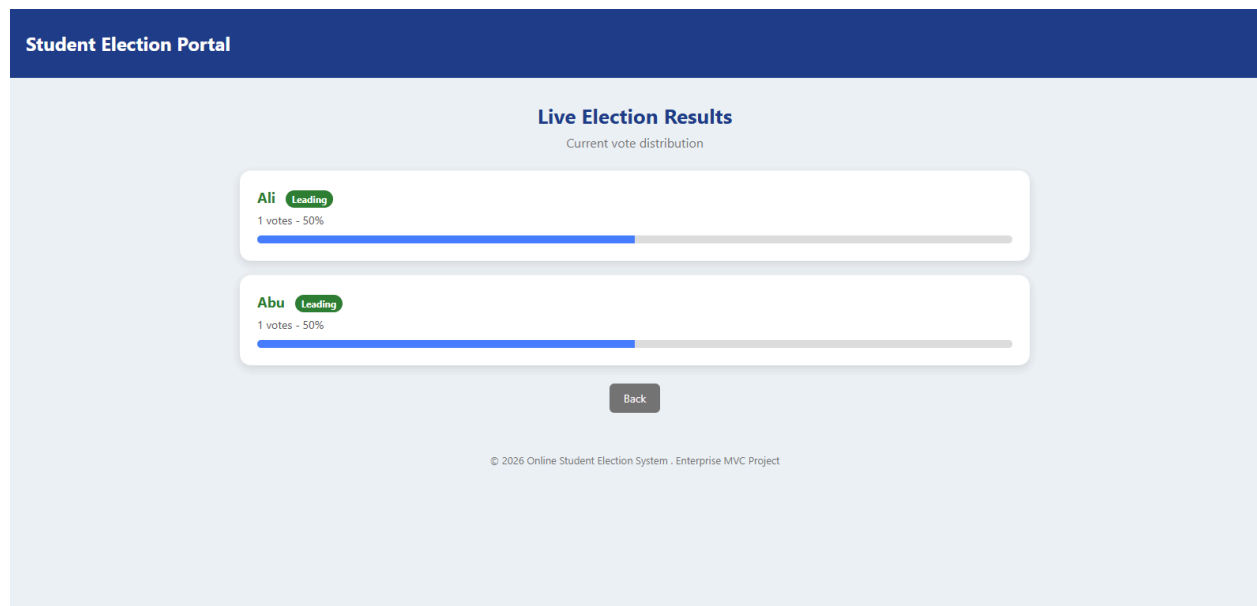


Figure 7 : Live Election Results page

**Description:** The Live Election Results page displays the current vote distribution for each candidate through visual progress bars and percentage markers. Users can see which candidates are currently leading and can click the **“Back”** button at the bottom of the page to return to the main dashboard.

## 8.0 Voting History

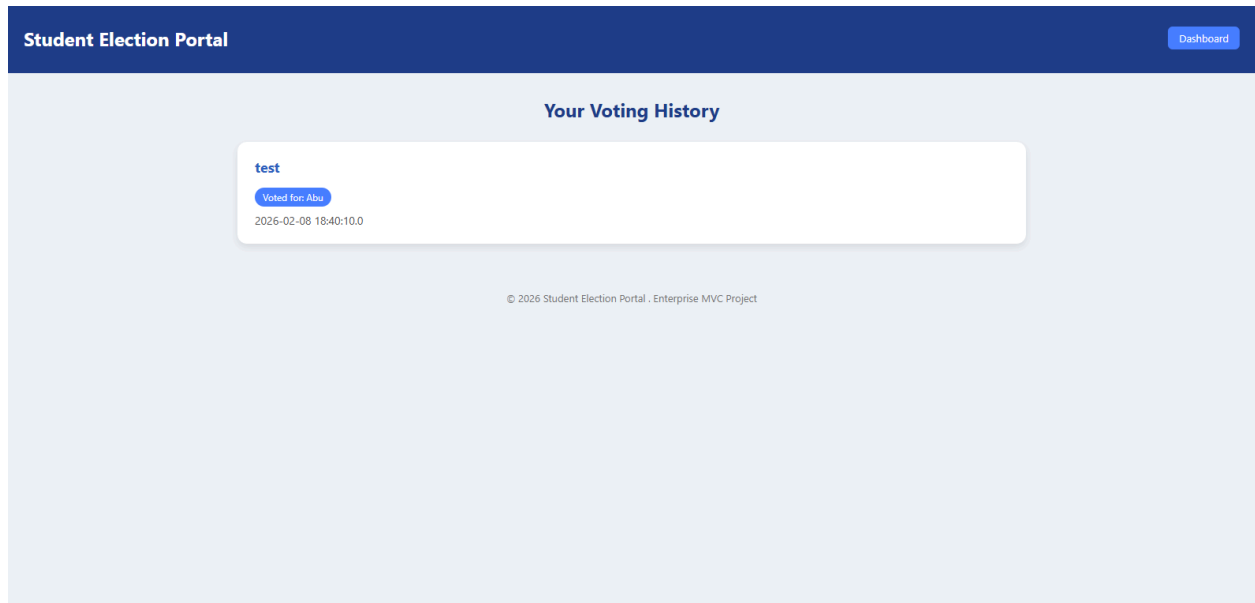


Figure 7 : Voting History page

**Description:** In the Voting History page, users can review a record of their past participation, including the name of the election, the candidate they voted for, and the exact date and time the vote was cast. Users can click the “**Dashboard**” button in the top right corner to return to the main landing page.

## 9.0 Admin Dashboard

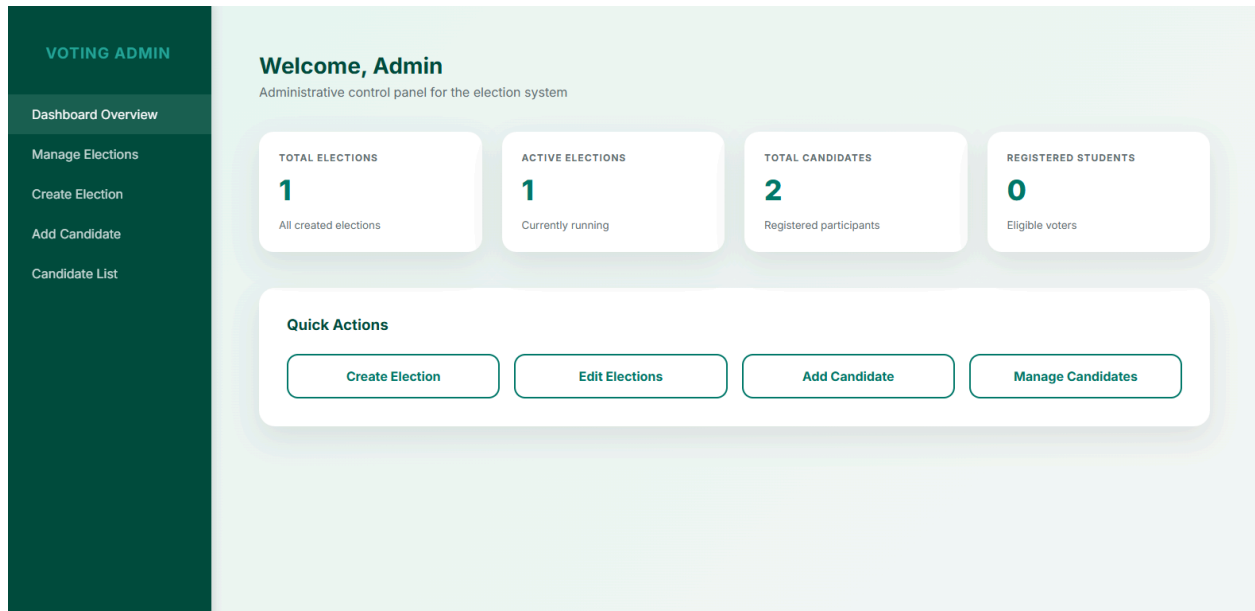


Figure 9 : Admin Dashboard page

**Description:** The Admin Dashboard provides administrators with a summary of the system, displaying total elections, active polls, registered candidates, and total eligible voters. From this page, administrators can use the “**Quick Actions**” buttons or the sidebar menu to create elections, manage candidates, and oversee the entire voting process.

## 10.0 Manage Election

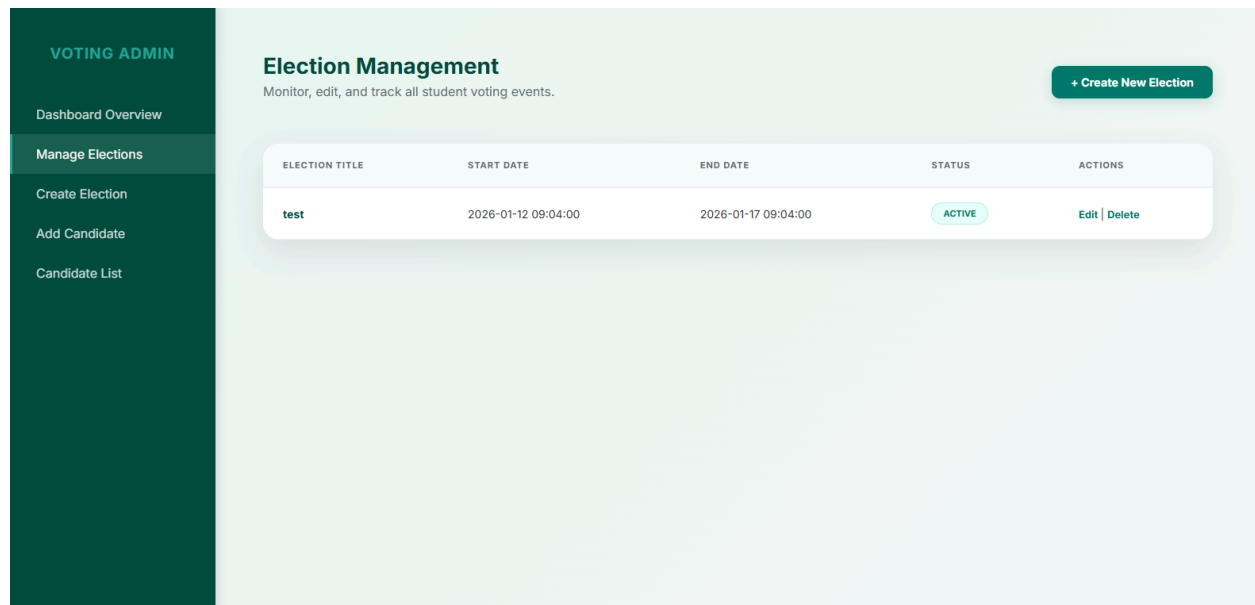


Figure 10 : Manage Election page

**Description:** In the Manage Election page, administrators can monitor, edit, and track all student voting events within a centralized table. This page displays the election title, start and end dates, and current status, while providing **“Edit”** and **“Delete”** actions for each specific event.

## 10.1 Edit Election

**VOTING ADMIN**

- Dashboard Overview
- Manage Elections**
- Create Election
- Add Candidate
- Candidate List

### Edit Election

Update election details and status.

**Election Title**

test

**Description**

test

**Start Date & Time**

01/12/2026 09:04 AM

**End Date & Time**

01/17/2026 09:04 AM

**Status**

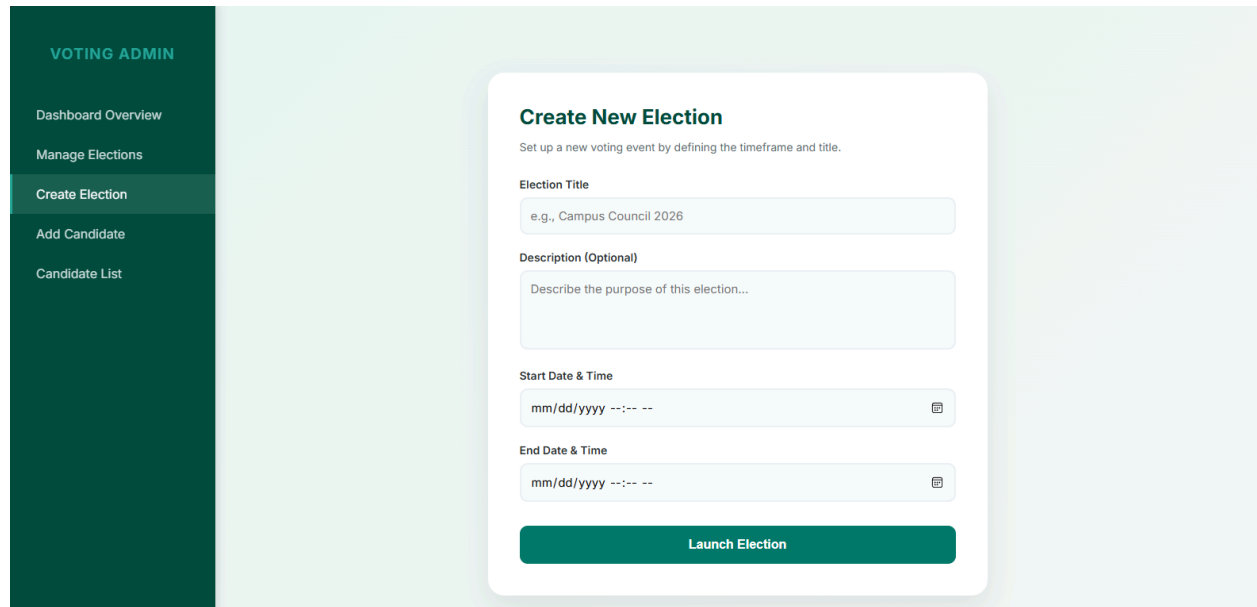
Active

**Update Election**

Figure 10.1: Edit Election page

**Description:** In the Edit Election page, administrators can update the details of an existing poll, including the election title, description, and the scheduled start and end dates. Administrators can also change the election status using the dropdown menu and click the **“Update Election”** button to save their changes.

## 11.0 Create New Election



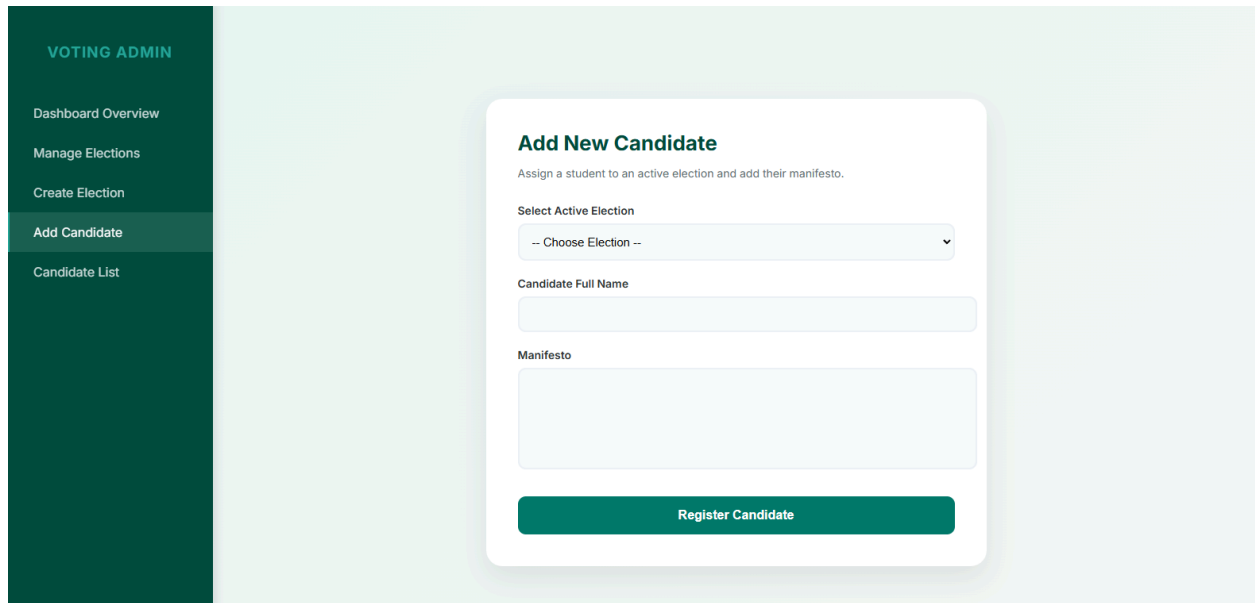
The screenshot displays the 'Create New Election' interface. On the left is a dark green sidebar with the following menu items: 'VOTING ADMIN' (highlighted), 'Dashboard Overview', 'Manage Elections', 'Create Election' (current page), 'Add Candidate', and 'Candidate List'. The main content area is light green and contains a white card titled 'Create New Election'. Below the title is a subtitle: 'Set up a new voting event by defining the timeframe and title.' The form includes four input fields: 'Election Title' (with placeholder text 'e.g., Campus Council 2026'), 'Description (Optional)' (with placeholder text 'Describe the purpose of this election...'), 'Start Date & Time' (with placeholder text 'mm/dd/yyyy --:-- --' and a calendar icon), and 'End Date & Time' (with placeholder text 'mm/dd/yyyy --:-- --' and a calendar icon). At the bottom of the card is a prominent green button labeled 'Launch Election'.

Figure 11 : Create Election page

**Description:** In the Create Election page, administrators can set up a new voting event by defining the timeframe and title. After entering the election title, an optional description, and the specific start and end dates, the administrator can click the **“Launch Election”** button to make the poll available to students.



## 12.0 Add Candidate



The screenshot displays the 'Add New Candidate' interface. On the left is a dark green sidebar with the title 'VOTING ADMIN' and a list of navigation items: 'Dashboard Overview', 'Manage Elections', 'Create Election', 'Add Candidate' (which is highlighted), and 'Candidate List'. The main content area has a light green background and features a white card with the title 'Add New Candidate' and a subtitle 'Assign a student to an active election and add their manifesto.' The card contains three input fields: a dropdown menu for 'Select Active Election' with the placeholder '-- Choose Election --', a text input for 'Candidate Full Name', and a larger text area for 'Manifesto'. At the bottom of the card is a dark green button labeled 'Register Candidate'.

Figure 12 : Add Candidate page

**Description:** In the Add Candidate page, administrators can assign a student to an active election by selecting the specific poll from the dropdown menu and entering the candidate's full name. Additionally, the administrator can input the candidate's manifesto before clicking the **“Register Candidate”** button to add them to the ballot.

## 13.0 Candidate List

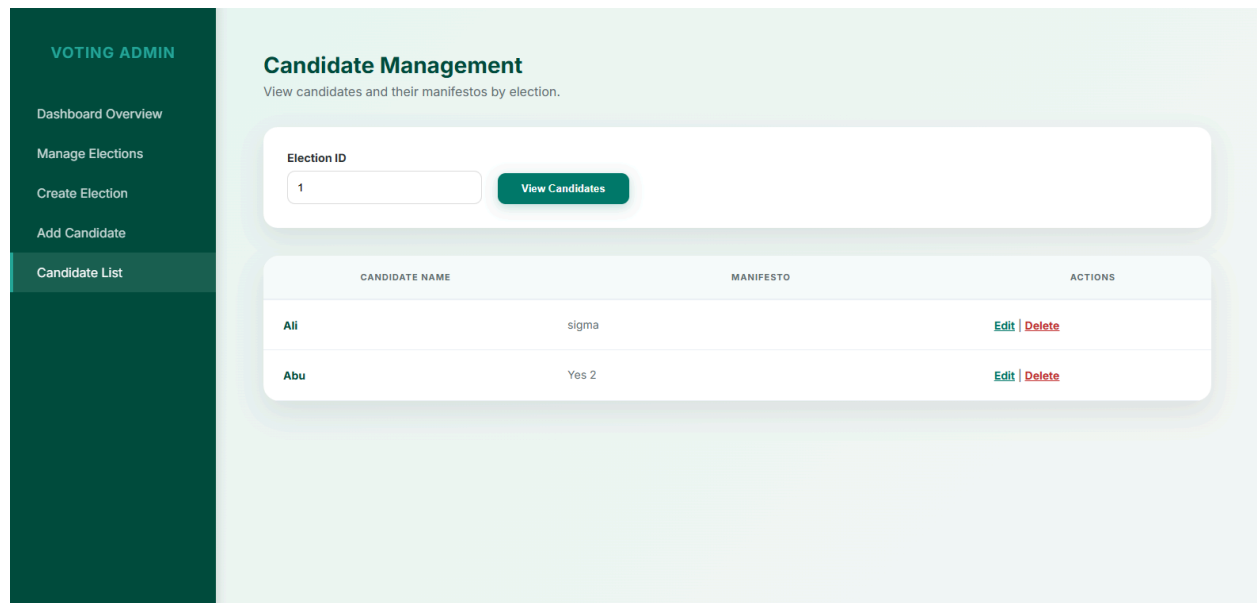
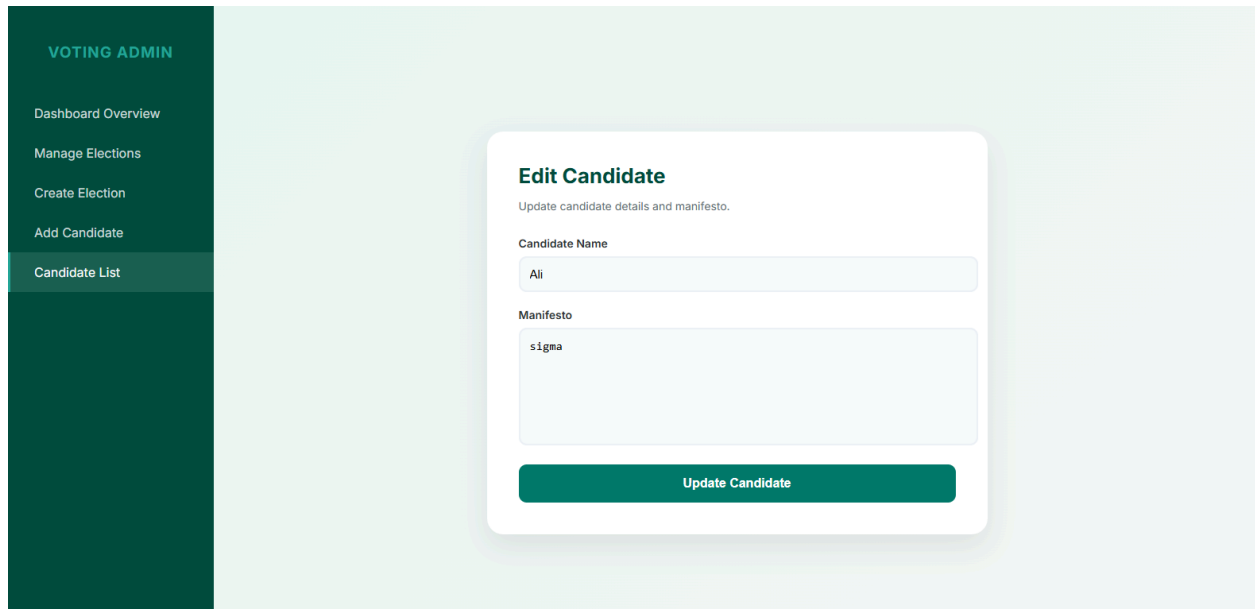


Figure 13: Candidate List page

**Description:** In the Candidate List page, administrators can view a list of candidates and their manifestos filtered by a specific Election ID. The page displays a table with the candidate's name and manifesto, providing “**Edit**” and “**Delete**” actions for managing each participant's entry.

## 13.1 Edit Candidate



The screenshot shows a web application interface for a voting system. On the left is a dark green sidebar with the text 'VOTING ADMIN' at the top. Below it are several menu items: 'Dashboard Overview', 'Manage Elections', 'Create Election', 'Add Candidate', and 'Candidate List'. The 'Candidate List' item is highlighted with a lighter green background. The main area of the page has a light green background. In the center of this area is a white rounded rectangle with a subtle drop shadow. This rectangle contains the 'Edit Candidate' form. The form has a title 'Edit Candidate' in bold dark green, followed by a subtitle 'Update candidate details and manifesto.' in a smaller, lighter green font. Below the subtitle are two input fields. The first is labeled 'Candidate Name' and contains the text 'Ali'. The second is labeled 'Manifesto' and contains the text 'sigma'. At the bottom of the form is a dark green button with the text 'Update Candidate' in white.

Figure 13.1: Candidate List

**Description:** In the Edit Candidate page, administrators can update a specific candidate's details and manifesto. The page provides input fields for the candidate's name and a text area for their manifesto, which can be saved by clicking the **“Update Candidate”** button.