



**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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**PREPARED FOR
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**DATE OF SUBMISSION
09 FEBRUARY 2026**

1. FINAL DATABASE DESIGN

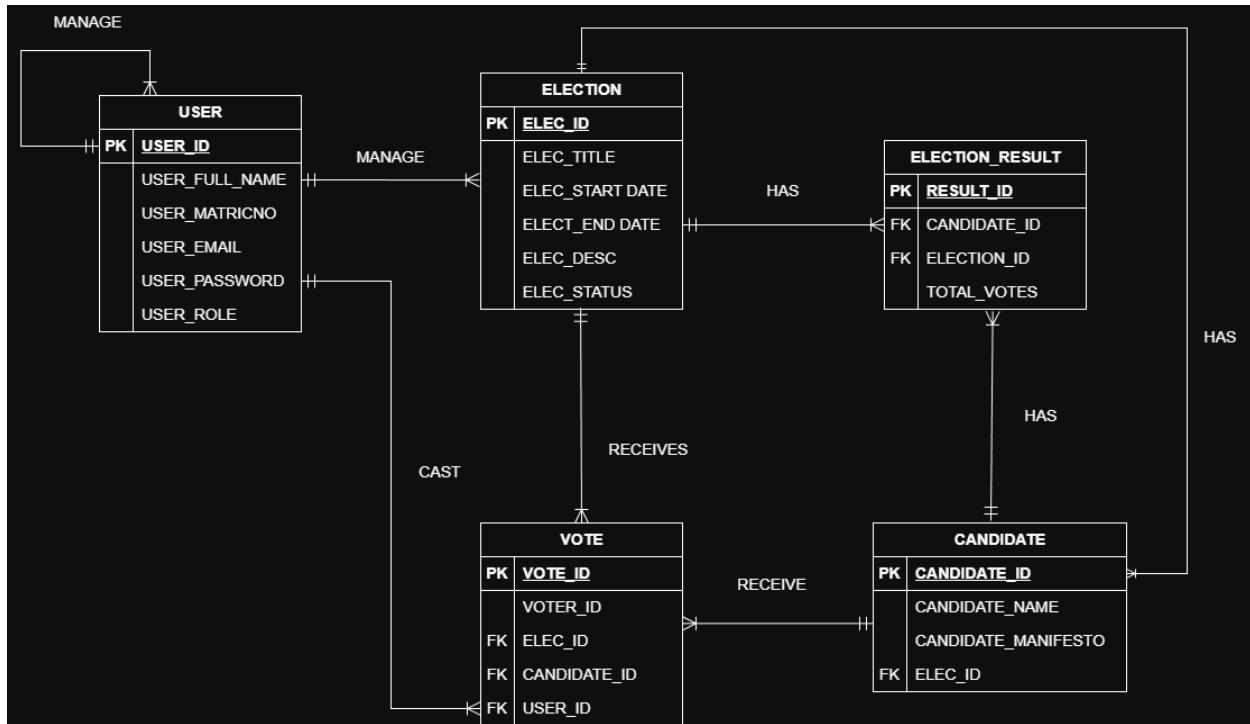


Figure 1: Entity Relationship Diagram (ERD) for Online Voting System

2. MVC FRAMEWORK

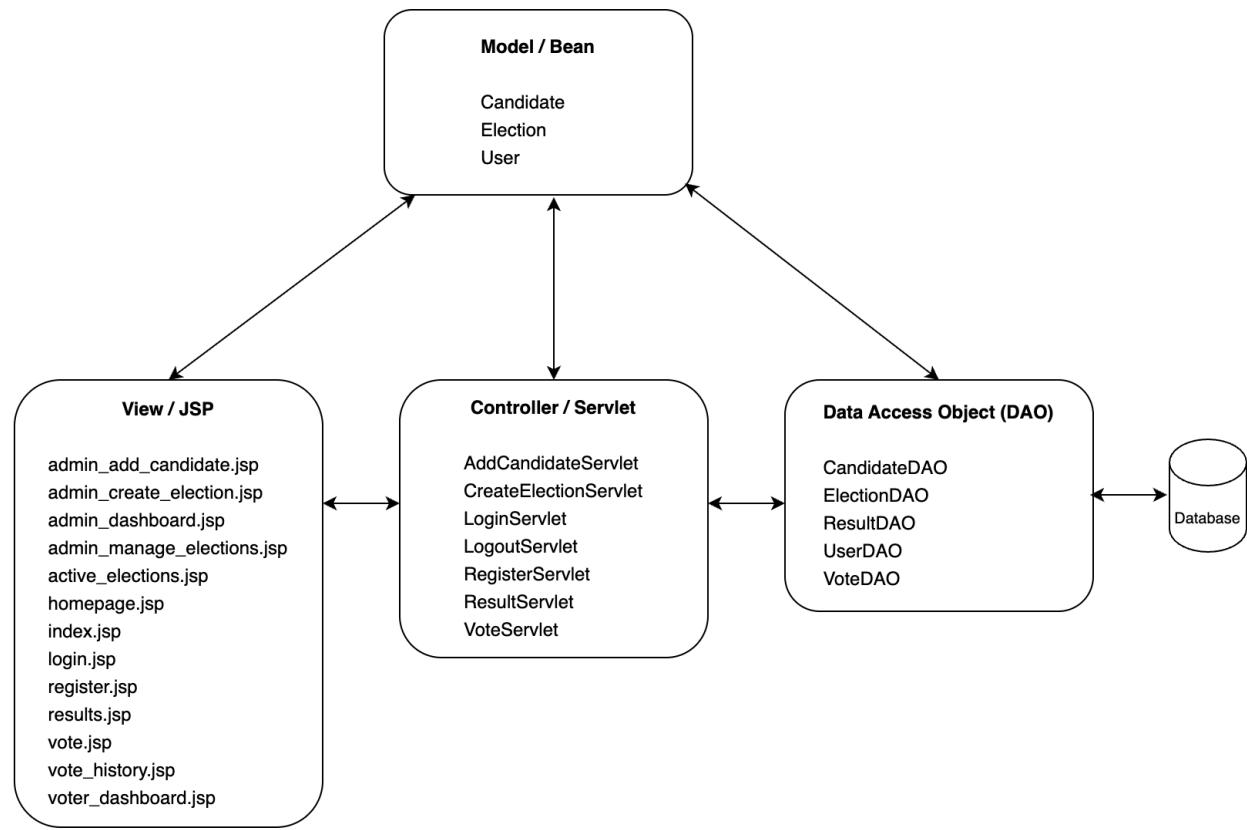


Figure 2: Model View Controller (MVC) Framework Design of Online Voting System

USER MANUAL

**ONLINE STUDENT ELECTION
MANAGEMENT SYSTEM**

1.0 Homepage

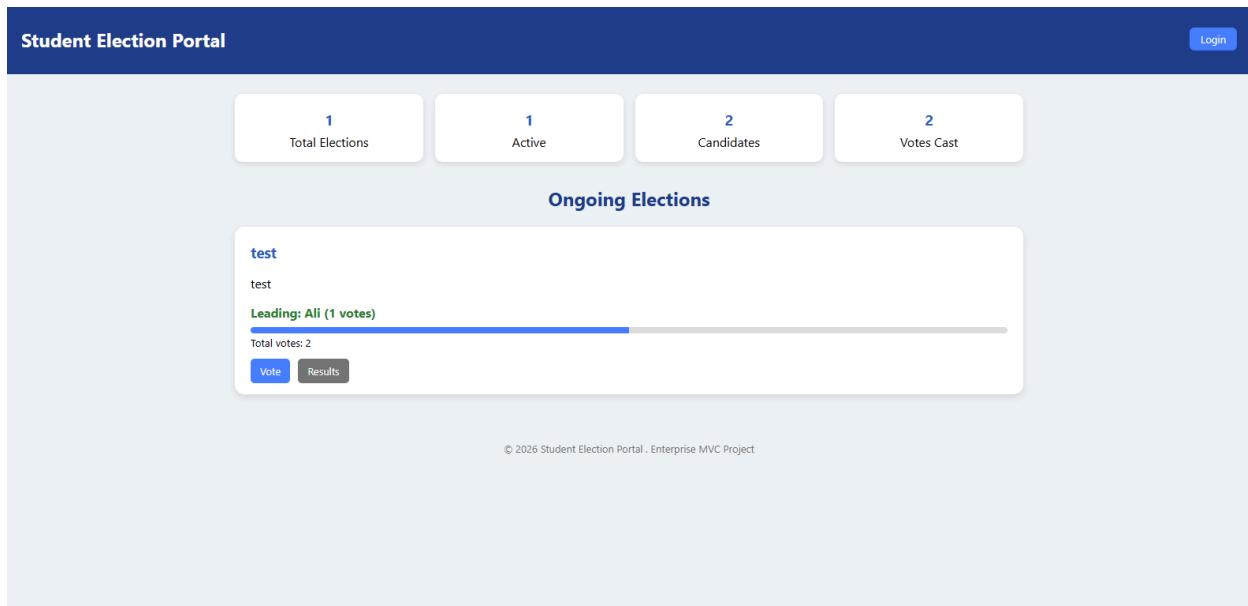


Figure 1 : Homepage

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

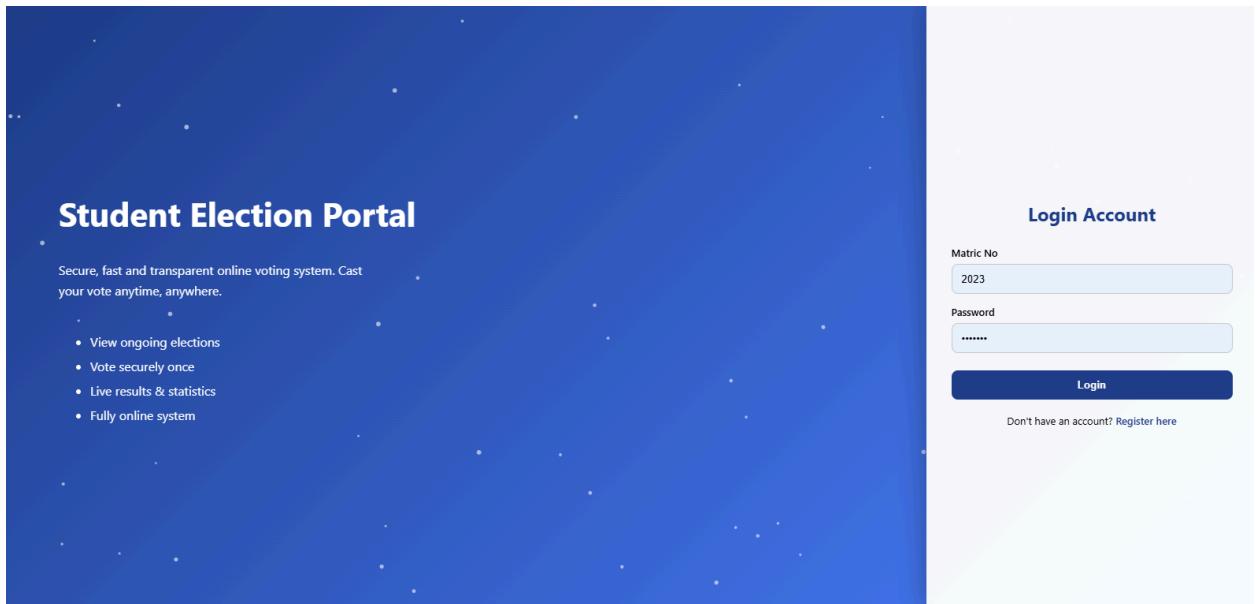


Figure 2 : Login page

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

The screenshot shows a registration form titled "Create Account". It includes fields for "Full Name", "Matric Number", "Email" (containing "2023"), and "Password" (containing "*****"). A "Register" button is at the bottom, and a link to "Login here" is at the bottom right.

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

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

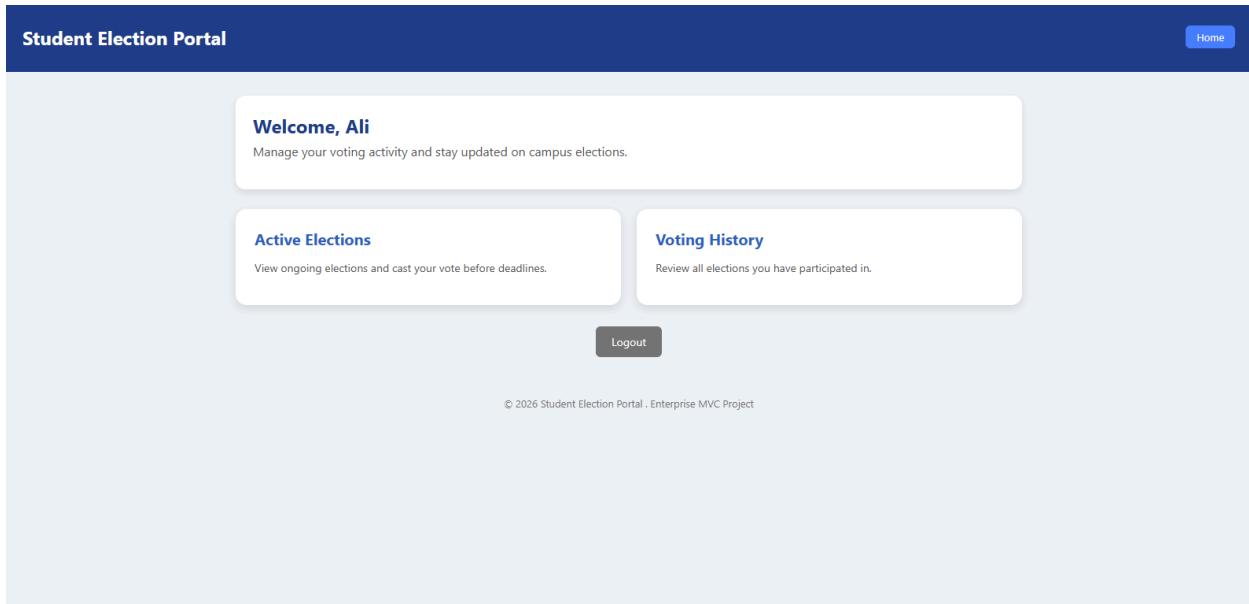


Figure 4 : Voter Dashboard page

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

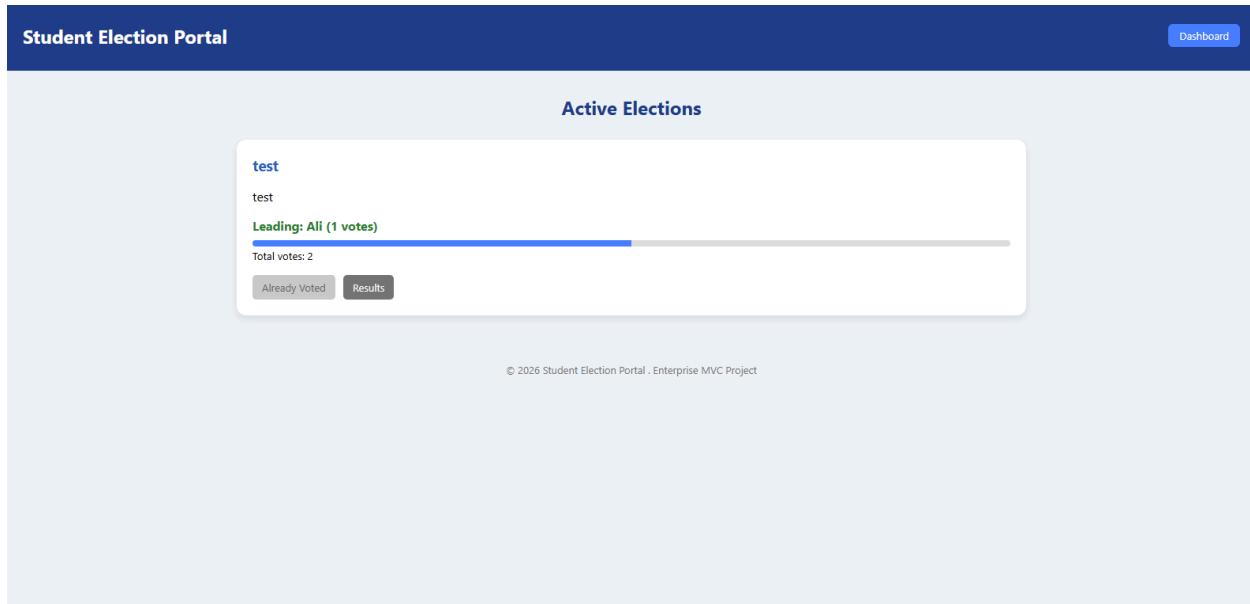


Figure 5: Active Elections page

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

The screenshot shows a web application titled "Student Election Portal". At the top right, there is a "Dashboard" button. Below the title, the word "test" is displayed in bold, followed by the word "test" in a smaller font. A modal window is centered on the screen, prompting the user to "Please select **ONE** candidate and submit your vote." It contains two radio buttons: one for "Ali" and one for "Abu". At the bottom of the modal are two buttons: "Submit Vote" (highlighted in blue) and "Cancel". Below the modal, a small note states: "Your vote is anonymous, secure, and final."

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

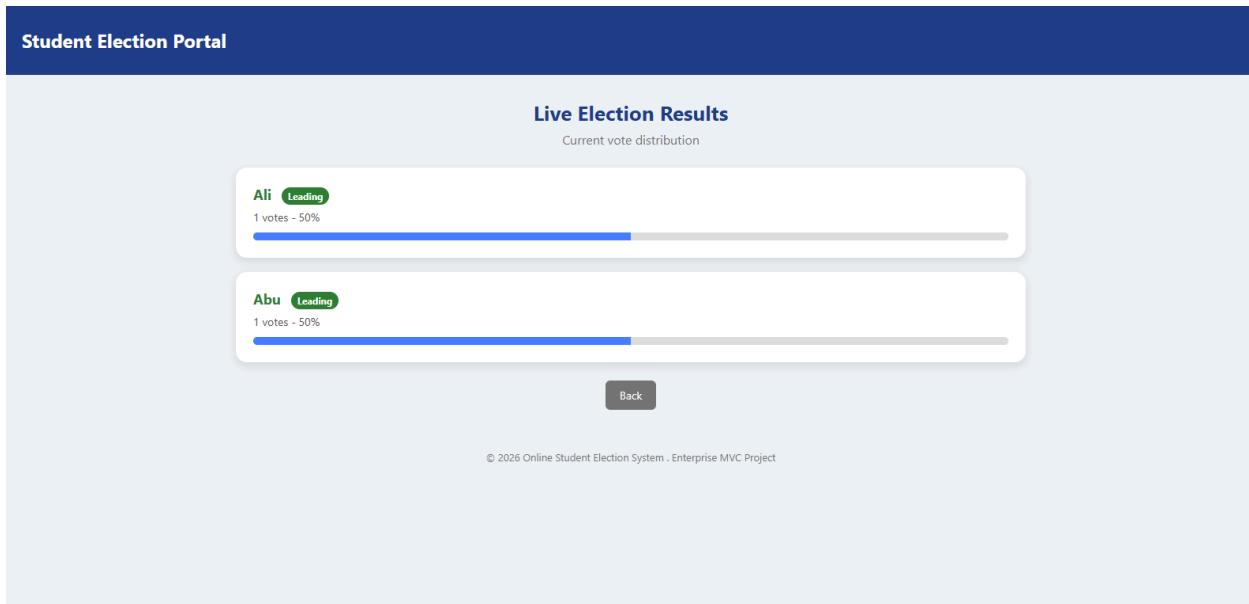


Figure 7 : Live Election Results page

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

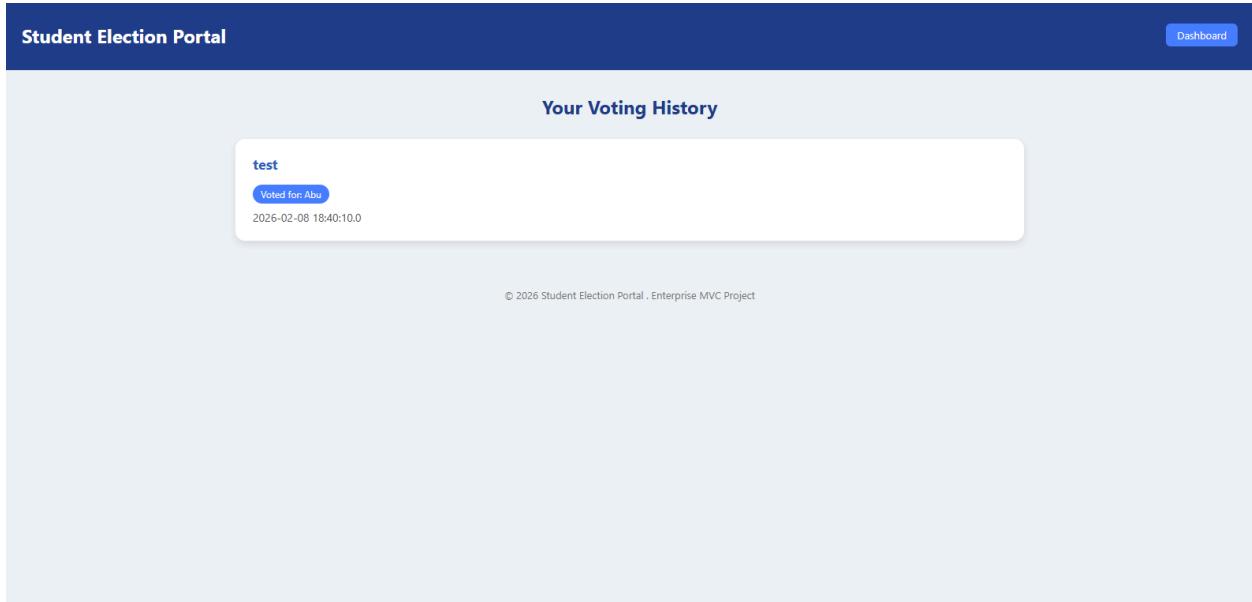


Figure 7 : Voting History page

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

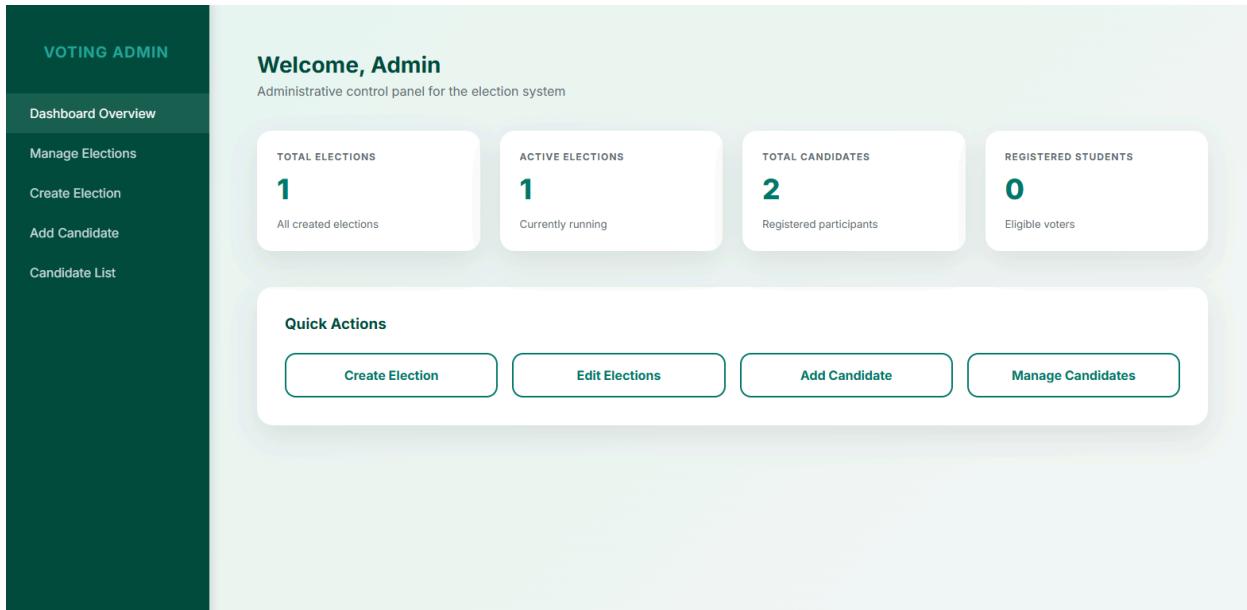


Figure 9 : Admin Dashboard page

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

The screenshot shows the 'Manage Elections' section of the Voting Admin interface. On the left, a sidebar lists navigation options: Dashboard Overview, Manage Elections (which is selected and highlighted in green), Create Election, Add Candidate, and Candidate List. The main content area is titled 'Election Management' with the subtitle 'Monitor, edit, and track all student voting events.' A green button at the top right says '+ Create New Election'. Below this is a table with columns: ELECTION TITLE, START DATE, END DATE, STATUS, and ACTIONS. There is one row in the table with the following data:

ELECTION TITLE	START DATE	END DATE	STATUS	ACTIONS
test	2026-01-12 09:04:00	2026-01-17 09:04:00	ACTIVE	Edit Delete

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

The screenshot shows the 'Edit Election' page within a dark-themed 'VOTING ADMIN' application. On the left, a vertical sidebar lists navigation options: Dashboard Overview, Manage Elections (which is highlighted in green), Create Election, Add Candidate, and Candidate List. The main content area is titled 'Edit Election' and has a subtitle 'Update election details and status.' It contains several input fields: 'Election Title' with the value 'test', 'Description' with the value 'test', 'Start Date & Time' set to '01/12/2026 09:04 AM', 'End Date & Time' set to '01/17/2026 09:04 AM', and a 'Status' dropdown currently showing 'Active'. A large green 'Update Election' button is at the bottom.

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

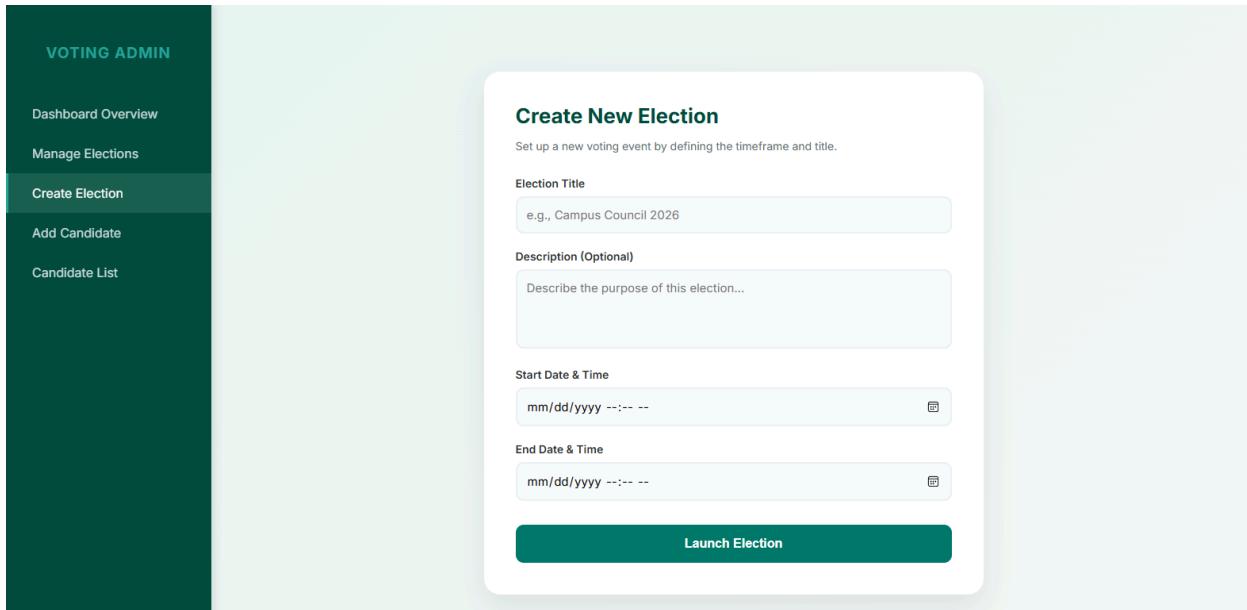


Figure 11 : Create Election page

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 shows the 'VOTING ADMIN' dashboard with a sidebar on the left containing links: 'Dashboard Overview', 'Manage Elections', 'Create Election', 'Add Candidate' (which is highlighted in blue), and 'Candidate List'. The main content area is titled 'Add New Candidate' and contains instructions: 'Assign a student to an active election and add their manifesto.' It features three input fields: 'Select Active Election' (a dropdown menu showing '-- Choose Election --'), 'Candidate Full Name' (an input field with a placeholder 'Full Name'), and 'Manifesto' (a large text area). A green 'Register Candidate' button is at the bottom.

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

The screenshot shows a user interface for 'Candidate Management'. On the left, a dark sidebar titled 'VOTING ADMIN' contains links: 'Dashboard Overview', 'Manage Elections', 'Create Election', 'Add Candidate', and 'Candidate List', which is highlighted. The main area has a light green header 'Candidate Management' with the sub-instruction 'View candidates and their manifestos by election.' Below this is a search bar with 'Election ID' input '1' and a 'View Candidates' button. A table lists two candidates: 'Ali' with manifesto 'sigma' and 'Abu' with manifesto 'Yes 2', each with 'Edit' and 'Delete' actions.

CANDIDATE NAME	MANIFESTO	ACTIONS
Ali	sigma	Edit Delete
Abu	Yes 2	Edit Delete

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

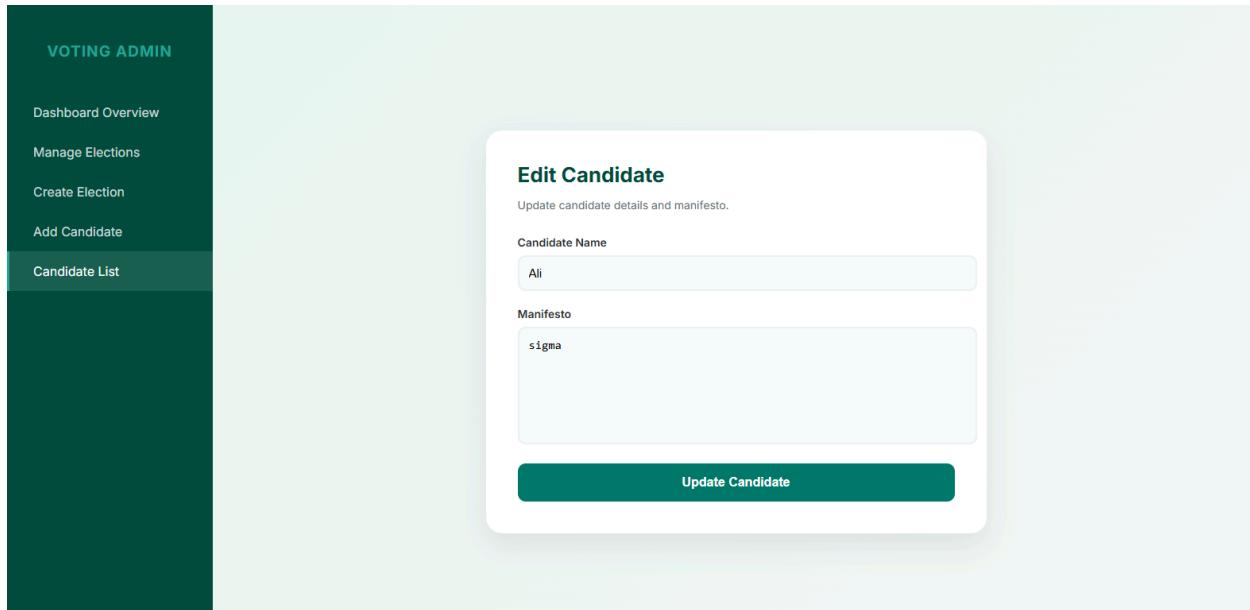


Figure 13.1: Candidate List

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.