User Manual

for

SAC Election Software

Version 1.0

Prepared by

Group No: 17

Hadif Yassin Hameed	B190513CS	hadif_b190513cs@nitc.ac.in
Abhinav Ajithkumar	B190461CS	abhinav_b190461cs@nitc.ac.in
Hanna Nechikkaddan	B190420CS	hanna_b190420cs@nitc.ac.in
Faseem Shanavas	B190515CS	faseem_b190515cs@nitc.ac.in
Harimurali J	B190547CS	harimurali_b190547cs@nitc.ac.in

Instructor: Abdul Nazeer K A

Course: CS3002D Database Management Systems

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1 Introduction and Purpose

The SAC Election Software serves as a platform for conducting the annual SAC election. SAC elections are usually conducted using Google Forms. As the results are calculated manually by the administrator, they can simply be tampered with. The administrator may also see who each voter votes for, and this information could be leaked. All of these flaws and concerns add up to Google Forms not being the ideal tool for conducting elections.

These significant concerns are addressed by our software. The software provides an appealing and user friendly interface for the users. Admins can easily set up an election by setting a schedule, and adding or deleting candidates for every position. Once the election is live, people can view the candidates and cast their votes. After the voting time has ended, the software calculates the results automatically, and users can view them without logging in. The software has certain constraints that prevent anyone from tampering with the result. Our software enables a smooth and transparent election process.

2 Document Objective

- To give the user the knowledge they need to utilise the product appropriately
- Specify the software and hardware prerequisites
- To help users (both voters and administrators) understand the full functionality of the web application.

3 Intended Audience

The purpose of this manual is to inform end users how to utilise this web application.

- Students of National Institute of Technology, Calicut who wish to cast their votes during the SAC election. These are the voters.
- The faculties who set up and manage the election. These are the administrators.

4 Hardware Requirements

- A modern computing device (laptop/desktop computer, mobile, tablet etc.). A desktop computer is preferred for better user experience.
- The device should have a stable internet connection.

5 Software Requirements

The software requirements for hosting the application locally is given below.

- Gunicorn 20.1.0 is the preferred web server to serve the application.
- PostgreSQL 14.0 or above is required as the relational database management system for the application.
- Python 3.8.5 or above is the requirement for the back-end to run the server and handle the requests from the client side.

More instructions to host the web application locally is mentioned in the README of the project.

The software requirements to run the web application is as follows.

• The web application which is already hosted can be accessed through any modern browser, preferably anything newer than Mozilla Firefox 50.0, Google Chrome 51.0, Microsoft Edge 79.0, or Safari 11.1.

6 User Interface

Administrator

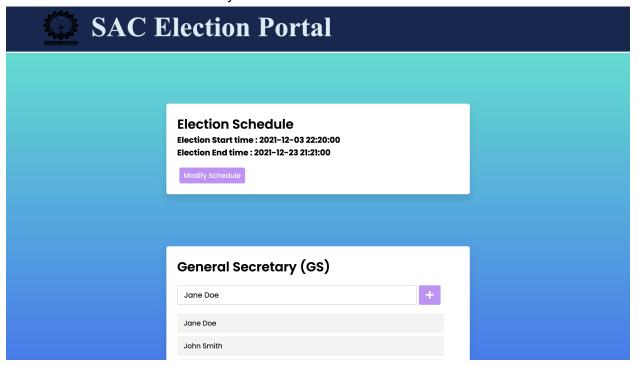
• **LOGIN PAGE** - The login credentials of the admin are already present in the database. These credentials are provided beforehand to the admin and he/she can login using this.



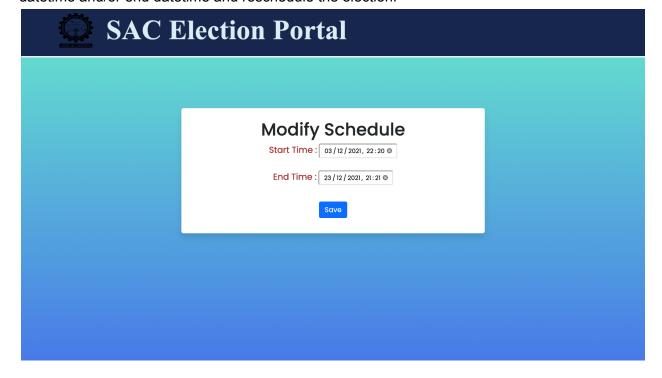
• **SCHEDULE ELECTION PAGE** - This is the first step to setting up an election. Once the admin logs in he/she is asked to set a schedule for the election. The admin can choose a start datetime and end datetime and schedule the election.



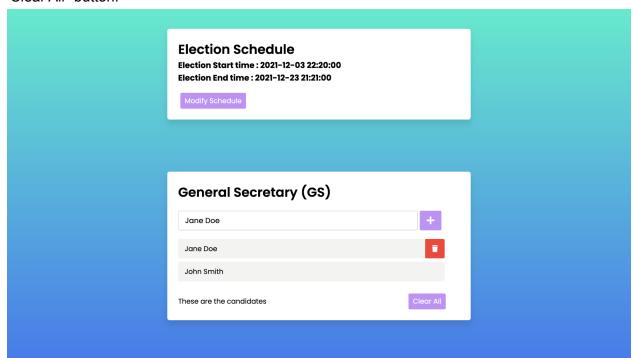
• **SET ELECTION PAGE** - After setting a schedule for the election, the admin can add or delete candidates as well as modify the schedule of the election.

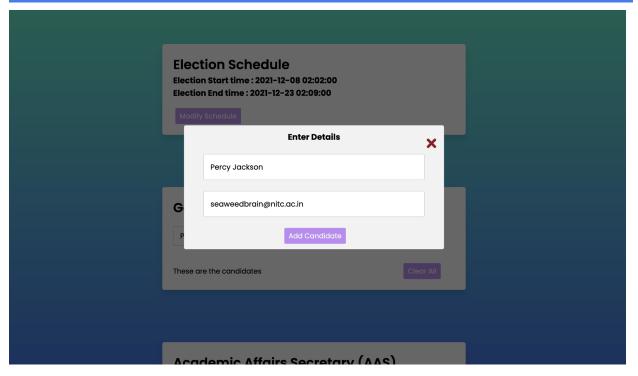


The admin can modify the schedule of the election by clicking on the "Modify Schedule" button. He/she will be redirected to the modify election page and can set the new start datetime and/or end datetime and reschedule the election.



• The admin can add candidates for each position by entering the name of the candidate and clicking the "+" button. A modal will appear and the email id of the candidate has to be entered after which the candidate can be added. A candidate can also be deleted by clicking on the trash can icon which appears when we hover the mouse pointer over the candidate. The admin can clear all the candidates of a particular position by clicking the "Clear All" button.



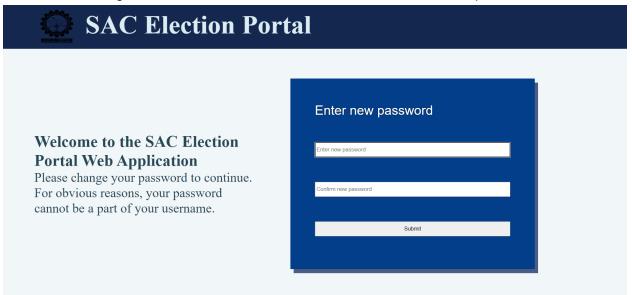


Voter

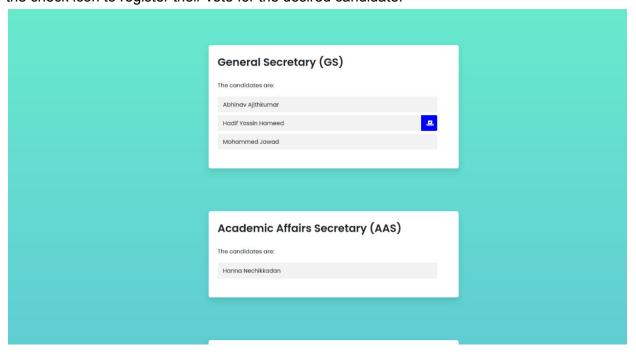
LOGIN PAGE - The login credentials of the voter are already present in the database.
The email ID here is the NITC email ID of the student and the default password is the student's roll number.



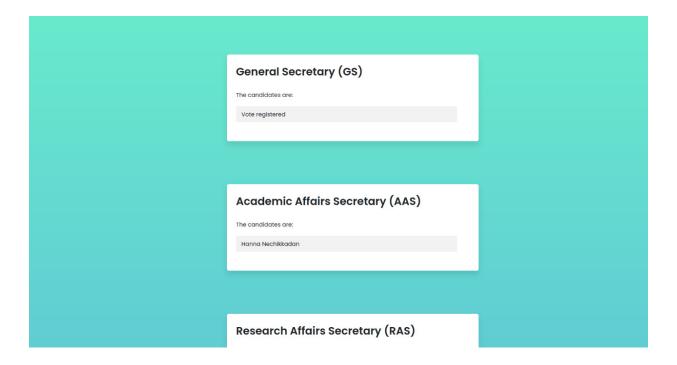
When the voter logs in for the first time he/she will be asked to set a new password.



 VOTING PAGE - After the voter logs in he/she can view the candidates competing for various positions and vote for one candidate from each position. The voter can click on the check icon to register their vote for the desired candidate.



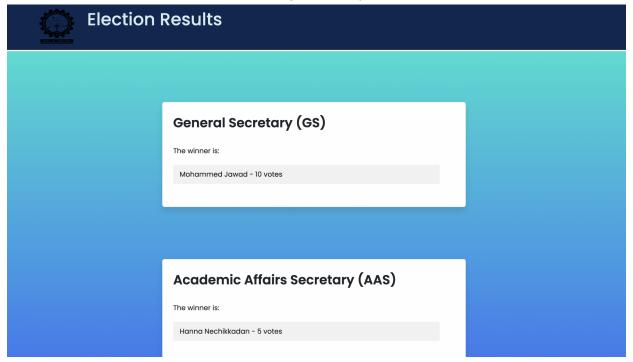
After registering their vote , the column will be updated and the voter can't cast their vote again.



• **RESULTS PAGE -** After the election is concluded a Results button will appear in the home page of the web application. The users can click on this button without logging in.



Upon clicking the button the user will be redirected to the results page and they will see the winners for each position and the votes garnered by the victor.



Thus the user will be able to take part fully in the election process with ease. And the administrator will be able to conduct the election without trouble in a fair manner.