INSTRUCTION MANUAL



BICOL UNIVERSITY COLLEGE OF EDUCATION INTEGRATED LABORATORY SCHOOL - HIGH SCHOOL DEPT.

BS COMPUTER SCIENCE 3A

BICOL UNIVERSITY COLLEGE OF SCIENCE COMPUTER SCIENCE AND INFORMATION TECHNOLOGY DEPARTMENT ACADEMIC YEAR 2020 – 2021

MAY 2021

SOFTWARE DESCRIPTION

Description

The Bicol University College of Education Integrated Laboratory School High School Department (BUCEILS HS) Online Voting System is a web-based software that allows students to vote electronically anywhere for the annual Student Supreme Government Elections. It also permits administrators, specifically the Commission on Election (COMELEC) of the institution, to conduct the election and manage its process and other necessary information.

Benefits and Value

- Election accessibility inside and outside of the institution
- Fast collection and counting of votes and other required information
- Automated generation of results and reports

Platform Requirements

Any device with browsers supporting HTML, CSS, and JavaScript, and has stable internet connection that can access the system.

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GETTING STARTED

Software Users

The BUCEILS HS Online Voting System shall be utilized by three types of users:

Student

A user who is officially enrolled in the secondary level of Bicol University and has the capability to vote for their preferred candidates of the current academic year's election. The student can likewise view the information of the candidates, previous electoral winners, and the final results of the election with the use of the system.

Administrator

A user who is officially enrolled in the secondary level of Bicol University and is an active member of the Commission on Elections during the academic year of the election. The administrator can manage student accounts, update candidate information, configure the election schedule and signatories, and monitor other information, such as results and logs.

Head Administrator

A user who is part of the faculty in the secondary level of Bicol University and is the appointed adviser of the Commission on Elections. The head administrator can access all administrator related features, which includes the management of administrator accounts and tied results.

Login

1. Go to buceilsvoting.online

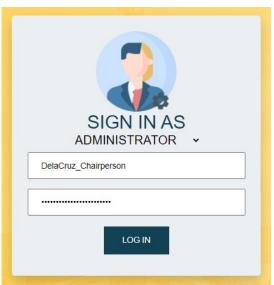


2. Click on the dropdown button to choose whether to login as student or as an administrator.



3. For students, enter your Bicol University e-mail and password, while for administrators, enter your username and password, then click "Login". You will be redirected to your dashboard once your login credentials were verified.





• In case the user failed to input the correct login credentials three times, the user is required to re-enter their details and respond to the CAPTCHA below.

Dashboard

The software contains two different dashboard layouts, one for the students and the other for the administrators. Similarly, both dashboards serve as the home page containing a small description of the website, navigation, and the election timeframe countdown.





Logout

1. On the upper right corner of the website, click or hover your mouse on the user icon.



2. Click "Logout".



ADMINISTRATOR

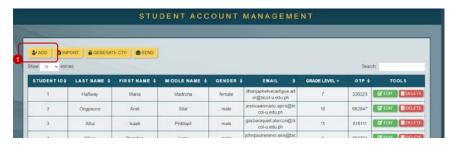
This section will serve as guide for regular administrators navigating through the whole system. This includes the configuration of the election and the management of student information.

Account Management

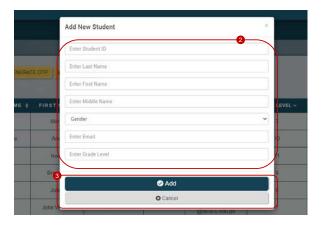
The administrators have the capability to manage student accounts, such as adding, deleting, and editing details. Only the head administrator can make changes for the administrator account management, while the regular administrators are limited to viewing. Selected buttons will be disabled during the election. For regular administrators, click on "Accounts" displayed on the navigation bar, then select "Students".

Student Accounts

- Add individual student account:
 - 1. Select "Add"



- 2. Enter the required information on the text fields.
- 3. To proceed, click "Add", otherwise, select "Cancel".

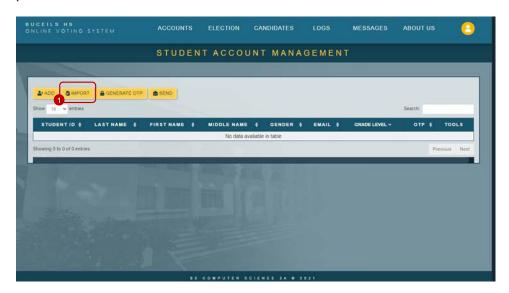


Add list of students and accounts with file:
 Before you proceed to upload a new list of students, please follow the format for the CSV file:

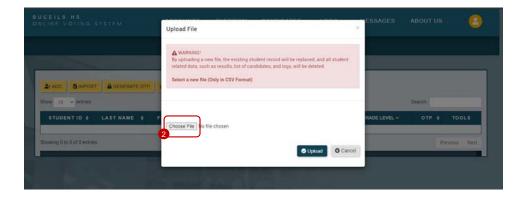
Stude	nt First Name	Middle Name	Last Name	BU email	Grade Level	OTP*	Voting Status*
1234	56 Juan	Cardo	Dela Cruz	juancardo.delacruz@bicol-u.edu.ph	12	0	0

Note: All values for OTP and Voting Status should be zero (0).

1. Select "Import".

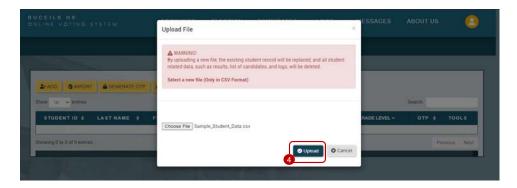


2. Click on "Choose File".



3. Select the CSV file containing the list of students, then click "Open".

4. Click "Upload" to add or overwrite the existing list of students.

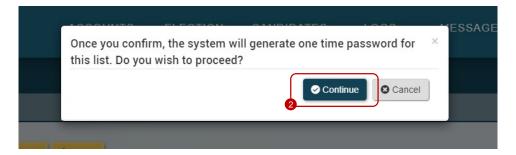


Note: If you proceed to upload the new file, all of student related data, specifically the current stored list of students, access logs, list of candidates, vote status, vote results, and vote summary, will be deleted.

- · Generate password
 - 1. Select "Generate Password".

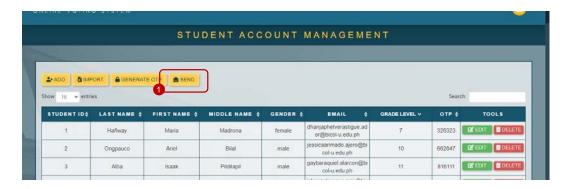


2. Click on "Continue" to proceed with the generation of password.

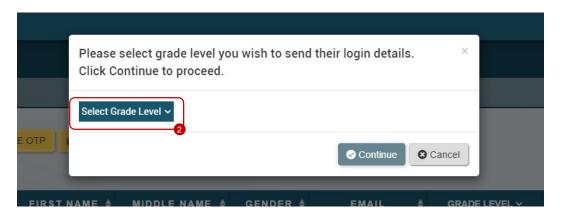


Note: Users will be redirected to the login page when password changed.

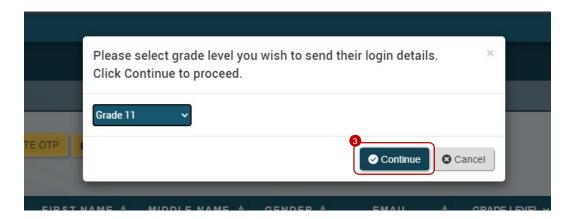
- Send login credentials via e-mail:
 - 1. Select "Send".



2. Select a grade level you wish to send their login details.



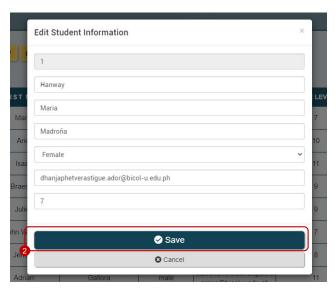
3. Click on "Continue" to proceed with the sending of login credentials to students.



- Edit account details:
 - 1. In the table under "Tools", click on "Edit". A dialog box will appear.



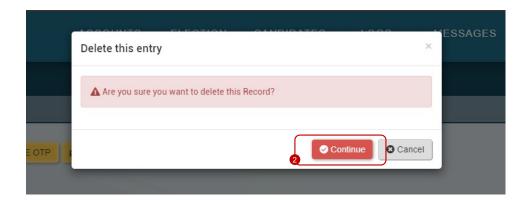
2. After the changes made, click "Save".



- Delete account:
 - 1. In the table under "Tools", click on "Delete".



2. Click on "Continue" to confirm.

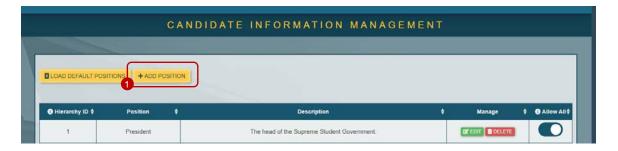


Candidate Information Management

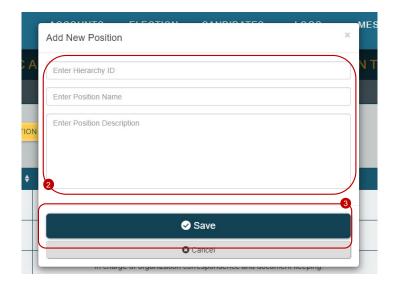
The administrators are responsible for updating the roster of running candidates. To proceed, click on "Candidates" located in the navigation bar, then select "Update Position" to update the officer positions, or "Update Info" to manage the details of running candidates. Selected buttons will be disabled during the election.

Customize Positions

- Add position:
 - 1. Click "Add Position".



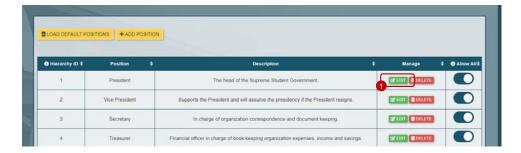
- 2. Fill up the form with necessary details. The "Hierarchy ID" should indicate the position number, one being the highest, and the largest number being the lowest. "Position Name" refers to the title of a person currently required in the organization. The main responsibilities of the mentioned position should be filled up on "Position Description".
- 3. Press the "Save" button to continue.



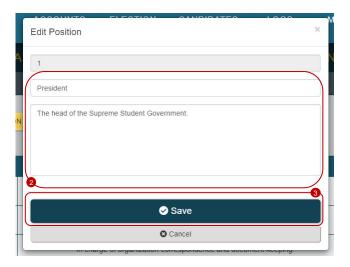
Note: The "Allow All" switch determines which position can be voted by students in all grade levels. Some positions, such as representatives, are only voted by their respective grade level, therefore, the switch should be turned off.



- Edit position:
 - 1. Click on the "Edit" button located in the table.



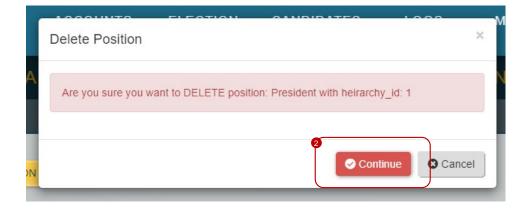
- 2. Edit the details you wish to change. The Hierarchy ID can't be edited.
- 3. Once finished, click on "Save".



- Delete position:
 - 1. Click on the "Delete" button located in the table.



2. To confirm, click "Continue".

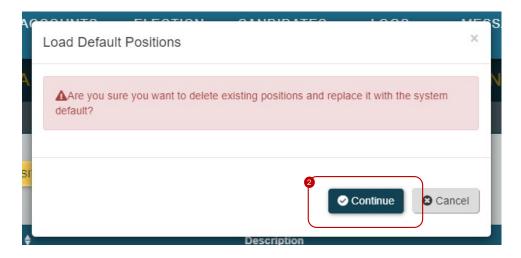


Note: A position cannot be deleted when there is an existing candidate.

- Load Default Positions:
 - 1. To replace the existing positions with the system's default, click on "Load Default Positions".



2. Click "Continue" to proceed.



Update Info

- Add new candidate:
 - 1. Click on the "+ Add New Candidate" button.



- 2. A pop-up form will appear. Fill out the necessary information. The name of the candidate should depend on the list of students under student account management.
- 3. Click on "Save" to officially add the candidate, otherwise, select "Cancel".



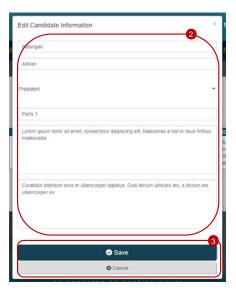
To add the profile image of the candidate, select "Upload Photo" on the row of the candidate. Browse and select for the image to add. To change, select "Change Photo". The image file should not exceed 1 megabyte (MB).



- Edit candidate details:
 - 1. Click on the "Edit" button located in the table.



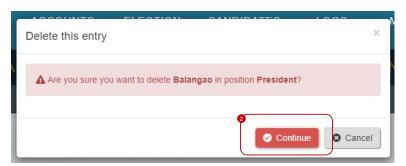
- 2. A pop-up form will appear containing the current information applied. Edit the details by clicking on the fill-up forms.
- 3. To apply changes, click on "Save, otherwise, select "Cancel".



- Delete candidates:
 - 1. Click on the "Delete" button located in the table.



2. To confirm, click "Continue".



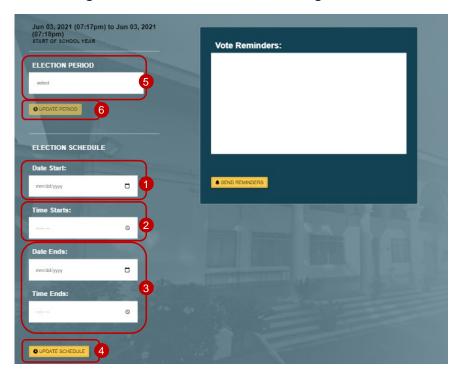
Election Configuration

The election configuration allows administrators to limit the ballot access of students depending on the set time and date of the election. It also let administrators select who will sign the election results report.

Election Schedule and Period Configuration

- 1. Input the starting date of election by month, day, and year (mm/dd/yyyy). You may also select the calendar button to select the date on dropdown.
- 2. Input the starting time of election by hour (12-hour format), minutes, and period (AM/PM). You may also select the clock button to select the time on dropdown.
- 3. Repeat the same process for the end time and date of election.
- 4. Click on "Update Schedule" to set the election schedule.
- 5. After setting up the election schedule, proceed by selecting the election period.
- 6. Click on "Update Period" to continue.

Notes: In case the schedule needs to be edited or updated, repeat the same process. The updating of election period shall only be available after setting up the schedule and before the election schedule begins. The election period is important to set since it will affect which students from different grade levels are applicable for candidacy and voting. The box on the right side of the screen is for sending reminders to all students through their BU mail.

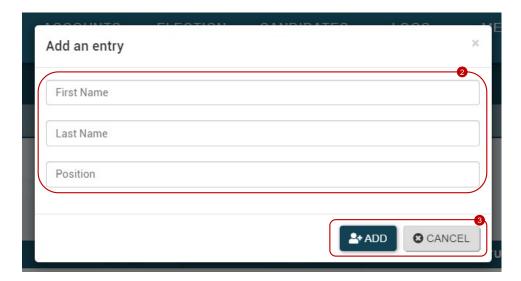


Election Report Signatory Configuration

- Add signatory:
 - 1. Select the "Add" button. A dialog box will appear.



- 2. Search for the name or position of the admin by using the text fields.
- 3. Click on "Add" to continue, otherwise "Cancel".



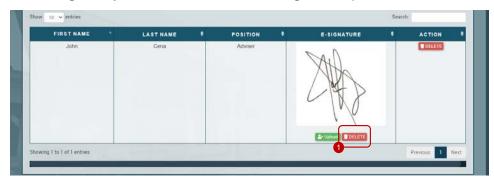
- Upload E-Signature
 - 1. Click "Upload".



2. "Choose File", then select the image you want to use, then click "Upload".



- Delete signatory:
 - 1. To remove a signatory, make sure that the e-signature photo is deleted.



2. Select "Delete" under Action.



3. To proceed, click "Yes".



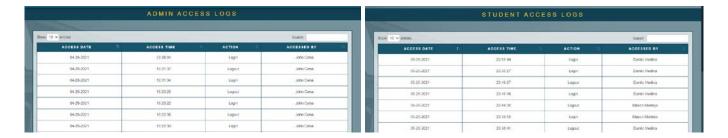
View System Logs

The system logs permit administrators to monitor the activity of students and administrators based on their entry and exit in the system. It also monitors the modifications made by administrators. To access, select "Logs" on the navigation bar, then choose "Access Log" or "Activity Log" to proceed.

Note: All stored logs that exceed 30 days will automatically be deleted.

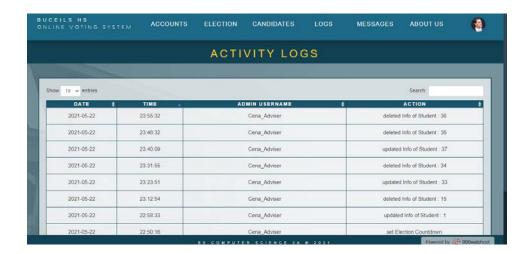
System Access Logs

The page contains two tables, one for the access logs of the administrators, and below for the students. The view can be sorted by clicking on the arrows on the head column. You may also filter the view for a particular date, time (in 24-hour format), action, and name of administrator or student by using the search field on the upper right corner above the table.



Administrator Activity Logs

The table contains the date, time, administrator username, and action taken. You may filter the view by using the search field on the upper right corner above the table.

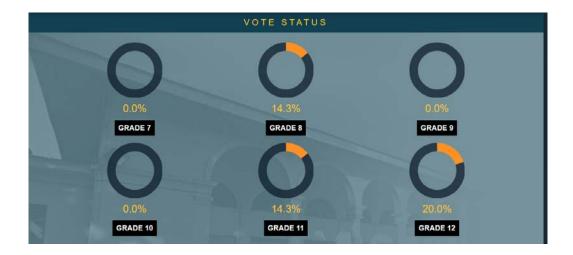


Election Monitoring

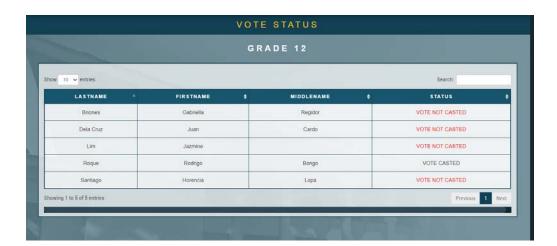
The administrators shall monitor the data input during the election, such as student voting status and election results. Selected buttons and features shall be disabled during the election.

View Student Vote Status

1. On your navigation bar under "Election, select "Vote Status". Circular graphs will appear showing the percentage of students who have voted in different grade levels.

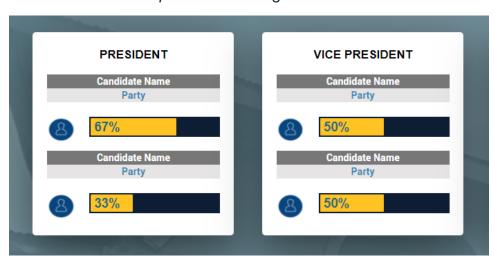


2. To see the list of students and their status, click on their respective grade level.



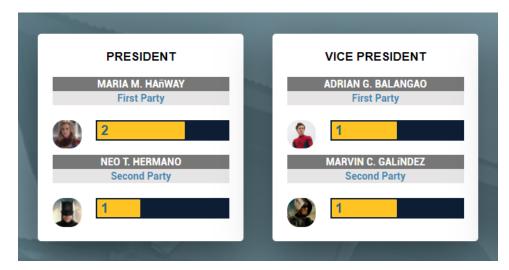
View Election Results

The Election Results will display a list of candidates with their respective number of votes. During the ongoing election, the candidates will be hidden, labeled as anonymous, and the data will be updated for every five seconds. After the election, the names of candidates and their respective number of votes received will be revealed.



Sample results during the election:

Sample results after the election:



Post Result

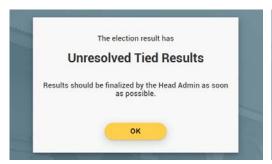
 the election results will not be displayed on the student dashboard until the "Post Result" button will be selected.

Reset Election

 when selected, the number of votes will return to zero, the voting status of all students will be reset, returning to the "not voted" status, the election schedule will be deleted, and the display of election results on the student dashboard will be removed.

Generate Election Results Report

After the election, the system automatically generates the report of the election results. If the election has tied results, a message will appear until the head administrator finalizes the results. If the head administrator has finalized the results or if the election has no tied results, the election report will be available for download or printing.









View Vote Summary

The Vote Summary allows administrators to view the votes made individually by all students. The names of students will remain encrypted for privacy purposes. Administrators are allowed to print or download a copy of the vote summary.



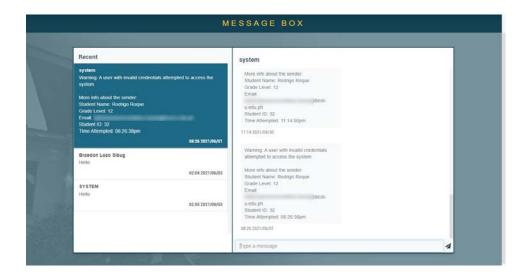
View Election Archive

The election archive allows both administrators and students to view winners of previous elections. *Note: Two consecutive finished elections with the same end date should not be allowed to avoid conflict with the display.*



Use Message Box

The Message Box will allow administrators to assist students online. It also allows administrators to receive warning messages about suspicious behavior made by students on the system. The left side of the chat box displays the inbox, while the right side displays the full conversation on the selected message. A message on the inbox displaying a blue background indicates that no reply or message was sent to the user.



STUDENT

This section will serve as guide for students who will be utilizing the system for the election. This includes the submission of votes and the viewing of election-related information.

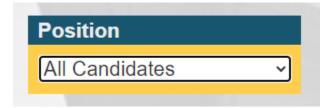
View Election Guide

This page consists of details considering the proper procedure of online voting that should be observed during the election.

View Candidate Information

This contains the list of all candidates who are running for the election. It offers assistance to students for their selection of candidates by providing information about the candidates including their credentials and platforms.

To filter the view by position, click on the dropdown located at the left side of the screen, then select the position you want to view.

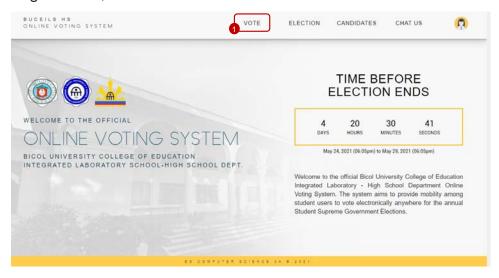


Voting

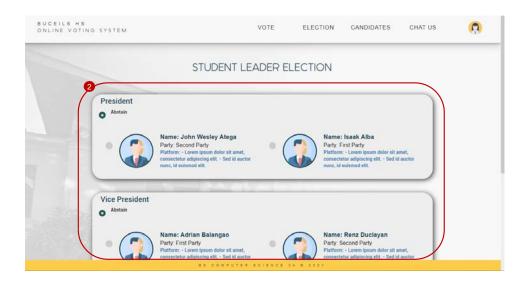
The ballot shall only be accessible during the said schedule of the election. If the student had already voted, the "Vote" navigation will allow the students to re-download their vote receipt.

Cast Votes

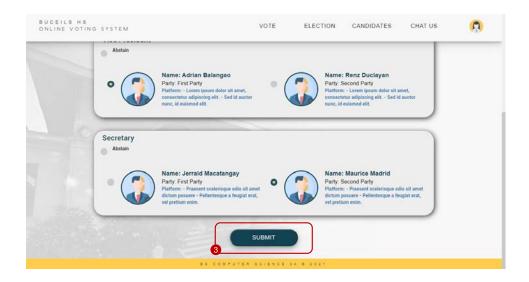
1. On your navigation bar, click on "Vote".



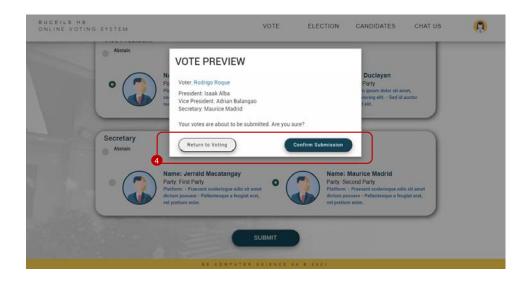
2. Select your preferred candidate by clicking the button on the left side of the candidate; otherwise, select "Abstain".



3. After selecting your preferred candidates for each position, click on "Submit".



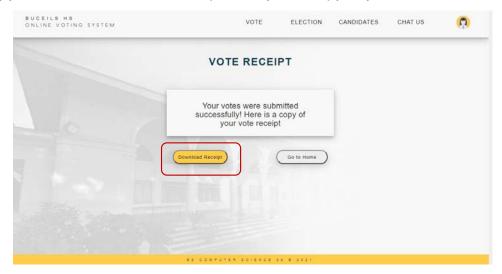
4. A pop-up box will appear, showing the summary of your selection. If you wish to proceed, click on "Confirm Submission"; otherwise, to make changes, click on "Return to Voting".

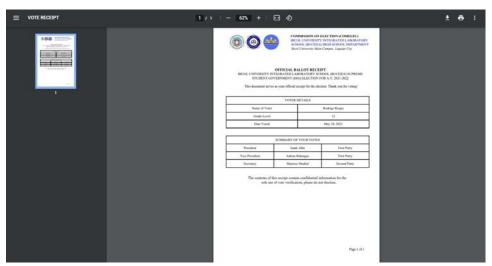


* If the election timeframe has ended while the student is still voting, the votes will not be accepted.

Vote Receipt Generation

After submitting your votes, the software will provide you a copy of your votes in a PDF file.





View Election Results

This page will display the list of all candidates and their vote results after the election. The results will be posted by the administrators.

View Election Archive

The election archive contains the list of students who won during the previous elections.

Use Message Box

The message box will allow students to communicate with administrators for assistance.

- 1. On your navigation bar, click on "Chat Us".
- 2. Type your message on the text box below, then click on the send icon or press "Enter" to send.
- 3. Once the conversation ends, click on "End Chat" located at the top right of the message box to officially end the discussion.
- * If the student forgot to select "End Chat", the messages will automatically be deleted when tab closed or refreshed.



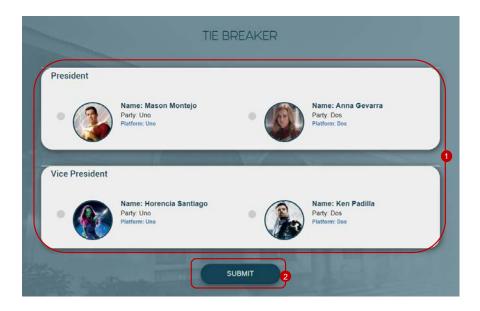
HEAD ADMINISTRATOR

This section will serve as guide for the head administrators who will be utilizing the system for the election. This includes the configuration of the tied election results and the management of administrator information.

Election Tied Results

The tie-breaker will only appear under the Election Report page if there are tied results during the election. It will also only be displayed if the tied results reached the 50% number of students quota. For the selection of winner, the decision will be done outside of the system.

- 1. Once the decision of winner/s was made, the head administrator shall select on the winning candidate's radio button.
- 2. Click on the "Submit" button. A preview will appear before the head administrator confirms or return to the selection.



Administrator Account Management

The head administrators have the capability to manage administrator accounts, such as adding, deleting, and editing details. Selected buttons will be disabled during the election. To proceed, click on "Accounts" displayed on the navigation bar, then select "Admin".

Add an account

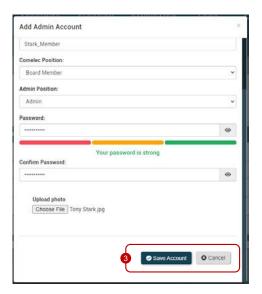
1. Click on the "Add Account" button.



2. Fill out the necessary details.

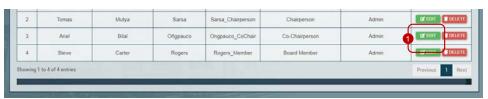


3. To continue, click "Save Account", otherwise, click "Cancel".

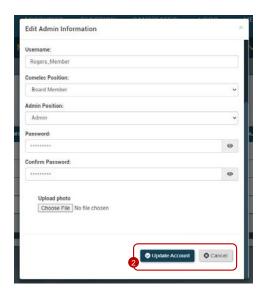


Edit account details

1. Under the "Action" column of the table, select "Edit".

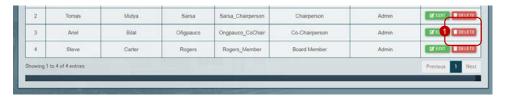


2. Edit the details, then select "Update Account", otherwise, select "Cancel".

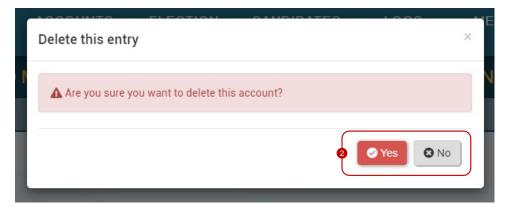


Delete an account

1. Under the "Action" column of the table, select "Delete".



2. To proceed, click "Yes", otherwise, select "No".



ELECTION SETUP PROCEDURE

This section will guide administrators on the procedure of setting up the election.

Before the Election

- 1. Login as administrator.
- 2. For the head administrator/s, select "Accounts" then "Admin". Add, edit, or delete administrators.
- 3. If previous election data exists, select the "Reset Election" button that can be found on the "Vote Results" page, and delete the existing candidates or go to "Students" then import a new list of voters. If no existing data, proceed to step 4.
- 4. Go to "Accounts" then "Students". Add the current school year's list of students applicable for voting by importing a new list with a CSV file to replace the old records or by adding the students individually with the "Add" button.
- 5. Select "Generate Password" then send their login credentials by clicking "Send".
- 6. Setup the schedule by clicking "Election" then "Configuration", proceed to "Scheduler". Set the Election Schedule first then set the Election Period.
- 7. Proceed to "Candidates", then "Update Position". Add, edit, or delete positions required for the election.
- 8. Select "Candidates" then click on "Update Info". Add, edit, or delete candidates required for the election. Setup their photos by clicking "Upload Photo" or "Change Photo".
- 9. Setup the signatories for the Election Results Report by selecting "Election", then under "Configuration" click on "Signatory". Add or delete the signatories and their e-signatures.

During the Election

- To check on the ongoing results, click on "Election" then "Vote Results".
- To monitor the election status, select "Election" then "Vote Status".
- In case the election needs to be repeated, click on "Election" then go to "Vote Results". Below the election results, click on "Reset Election". After resetting the election, go to "Election", under "Configuration", select "Scheduler". Set the new Election Schedule, then proceed setting the new Election Period.
- In case the election schedule needs to be extended, proceed to the "Election Scheduler" then
 set the starting date and time with one minute after the current date and time of setting, then set
 the ending date and time you wish the extended election should end. Proceed by selecting
 "Update Schedule".

After the Election

- 1. To preview the results, under "Election", select "Vote Results".
- 2. If tied results were shown, the head administrator/s should proceed to "Election Report" then select candidates to be declared as winner. If no tied results, proceed to step 3.
- 3. To reveal the results to the students, on the "Vote Results" page, select "Post Results".
- 4. Generate the election results report under the "Election Report" page. The final results will also be displayed on the "Election Archive".
- 5. If the election period is officially closed, the administrators may proceed taking down existing data from the system by selecting "Reset Election" and delete the candidates.