
zkVoting2.0 Manual

zkVoting2.0 Manual – Members(Organizations) , Voters

Website. <https://www.zkvoting.com/>
Email. contact@zkrypto.com



User Manual for Members(Organizations)

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1. Sign-up

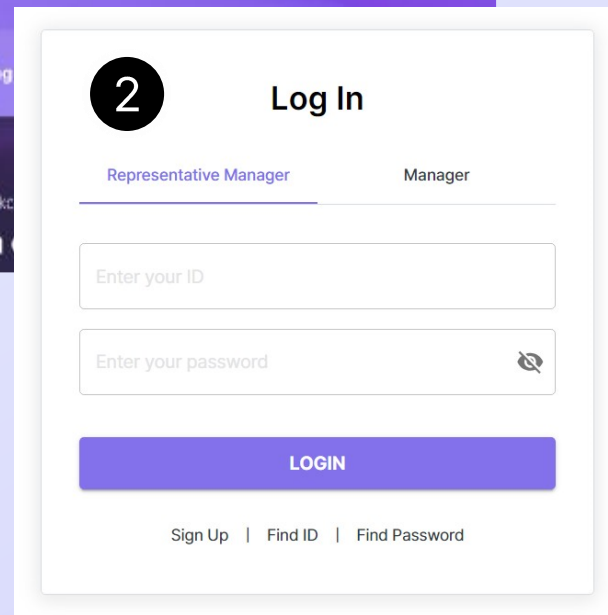
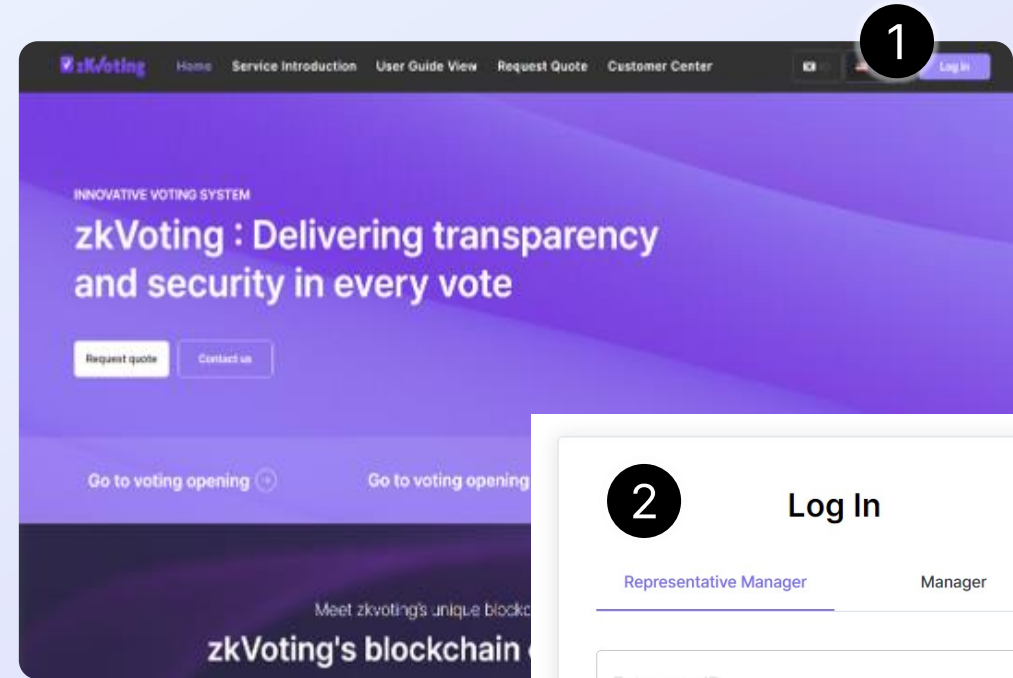
1) Company/Organization Information-Part 1/2

1 Go to <https://www.zkvoting.com/> and Click the

Log in

button

2 On the login page, click Sign up

A screenshot of the zkVoting login page. The page has a white background with a blue header. The title 'Log In' is in blue. Below the title are two tabs: 'Representative Manager' (selected) and 'Manager'. There are two input fields: 'Enter your ID' and 'Enter your password' (with a toggle icon). A blue 'LOGIN' button is below the fields. At the bottom, there are links: 'Sign Up', 'Find ID', and 'Find Password'. A red circle containing the number '2' is next to the 'Sign Up' link.

1. Sign-up

1) Company/Organization Information- Part 2/2

1 Enter Company/Organization Information

1. Enter the name of the company/organization.
2. Select the type of company/organization.
3. Enter the business registration number.
*Click "**Verify**" to confirm the validity of the business registration number before completing the registration.
4. Enter the fax number.

2 Enter Address Information

1. Click "**Search Postal Code**" to enter the postal code.
2. Enter the detailed address.

3 Enter Representative Information

1. Enter the representative's full name.
2. Enter the representative's contact information.

4 Attach Supporting Documents

1. Click **Attach File** to upload the business registration certificate (or unique identification number file).
*Accepted file formats are jpg, jpeg, pdf, doc, docs, and hwp, with a maximum file size of 10MB per file.
2. Additional files can also be attached if necessary.

5 If all fields are completed without any missing information and meet the requirements, click Next.

The screenshot displays a multi-step sign-up form titled "Sign up". At the top, a progress bar shows four steps: 1. Company/Organization Info, 2. Contact person's Info, 3. Account Info, and 4. Application completed. Step 1 is currently active and highlighted with a blue circle.

Step 1: Company/Organization Info

- Company/Organization Information *Required: A text input field with placeholder text "Company/Organization Name".
- Company/organization classification *Required: A dropdown menu.
- Company Registration Number* *Required: A text input field with placeholder text "Please enter the company registration number." and a "SEARCH" button.
- FAX: A text input field with placeholder text "Please enter the fax number."

Step 2: Address

- Postal code * *Required: A text input field with a "FIND ADDRESS" button.
- Your detailed address *Required: A text input field with placeholder text "Please enter the full address."

Step 3: Representative's name

- Representative's name *Required: A text input field with placeholder text "Please enter the CEO's name."
- Representative contact information *Required: A text input field with placeholder text "Please enter the CEO's contact information."

Step 4: Attach supporting documents

- Business Registration Certificate (Enter BSN) *Required: A text input field with an "ATTACHMENTS" button.
- Other: A text input field with an "ATTACHMENTS" button.

Step 5: NEXT

At the bottom of the form, there are two footnotes: "•Please attach no more than 10MB per file." and "•Uploadable file formats : jpg, jpeg, png, pdf".

1. Sign-up

2) Manager Information

1 Enter Contact Person Information

1. Enter the contact person's name.
2. Enter the email address.
3. Enter the department they belong to.
4. Enter their position/title.
5. Enter their phone number (mobile).

2 Enter Address Information

1. Click **Search Postal Code** to enter the postal code.
2. Enter the detailed address.

*You can select the "Same as Company/Organization Address" checkbox to set it as the same address.

3 If all fields are completed without any missing information and meet the requirements, click Next.

Sign up

✓

2

3

4

Company/Organization InfoContact person's InfoAccount InfoApplication completed

1

Contact person's Info

Name *Required

Enter contact person's name

Email *Required

Enter contact person's Email

Department *Required

Enter contact person's department

Rank *Required

Enter contact person's rank

Information(Cell phone) *Required

Enter contact person's phone number

Information(landline)

Enter contact person's landline Number

2

Address

Postal code *Required

Please enter the postal code.

FIND ADDRESS

☐ Same as company / organization address

Detail address

Enter contact person's detail address

3

BACKNEXT

1. Sign-up

3) Account Information

1 How to Enter Account Information

1. Enter a username.
2. Enter a password.
*The password must be 8–18 characters long and include a combination of letters, numbers, and special characters.
3. Read the terms and policies, then click the checkbox to agree.

2 Read the terms and policies, then click the checkbox to agree

3 If all fields are completed without any missing information and meet the requirements, click Next.

Sign up

✓

✓

3

4

Company/Organization InfoContact person's InfoAccount InfoApplication completed

1

Account Info

ID *Required

test01

CHECK ID
DUPLICATION

Password *Required

.....

Verify password *Required

Please confirm your password.

Terms and Policies

Terms of Service

Article 1 (Purpose)

These terms and conditions set forth the conditions and procedures for the use of the electronic voting service zkVoting provided by Zkrypto Inc., (hereinafter referred to as "the Company") and other necessary details for its use.

Article 2 (Definitions)

1. "zkVoting System" (hereinafter "the System") refers to the electronic system developed by the Company to provide electronic voting and related services.

2. "zkVoting Service" (hereinafter "the Service") refers to services such as electronic voting, consulting, and operational support provided by the Company through the System.

☐ Agree to terms and conditions.

Privacy Policy

Article 1 (Purpose)

Zkrypto Inc., (hereinafter referred to as "the Company") establishes this privacy policy (hereinafter referred to as "this Policy") to comply with the Personal Information Protection Act, the Act on Promotion of Information and Communications Network Utilization and Information Protection (hereinafter referred to as "the Information and Communications Network Act"), and other relevant laws. The purpose is to protect the personal information of individuals (hereinafter referred to as "Users" or "Individuals") using the Company's services (hereinafter referred to as "Services") and to promptly and effectively address any grievances related to personal information protection.

Article 2 (Principles of Personal Information Processing)

1. The Company may collect Users' personal information in accordance with applicable laws and

☐ Agree to personal information processing policy

☐ Totally agree.

BACK

4
APPLY FOR MEMBERSHIP

1. Sign-up

4) Membership Registration Complete

1 Your membership registration request has been successfully submitted.

1. You can start using the service after approval by Zkrypto.
2. The review results will be sent to your contact number and email within 2 business days.
3. Click **Home** button to return to the main page.

Sign up


✓

✓

✓

4

Company/Organization InfoContact person's InfoAccount InfoApplication completed



Your membership application has been completed.

You can use it after approval from a Zkrypto representative.
We will notify you of the screening results via contact information (wireless) and email within 2 business days.

1

HOME

2. Voting Opening

1) Enter Voting Information

1 Enter Basic Information

1. Enter the main voting title.
2. Enter the number of voters.

2 Select Voting Features

1. Choose between Automatic Start or Manual Start.

3 Set Voter List

1. Select the type of information to include in the voter list: mobile phone number, email, or personal identification number.
2. Choose the voter verification method based on the selected voter list information.

4 If all fields are completed without any missing information and meet the requirements, click Next.

Open voting

1

2

3

Enter voting information

Candidate/Agenda input

Opening completed

1

Voting Name *Required

*Please enter the voting name

2

setupVoting.forms.votingType.label

Online voting

Number of voters *Required

*Please enter the number of voters

Start date/time *Required

MM/DD/YYYY hh:mm

End date/time *Required

MM/DD/YYYY hh:mm

Voting function

Voting start method *Required

Voting end method *Required

Voter list

☒ Name ☒ Phone number ☐ Email ☐ Personal identification number

Voter verification method *Required

4

NEXT

2. Voting Opening

2) Enter Candidates/Agenda

- 1 Enter the candidates or agenda items.
- 2 Add options
 1. Click the **Add Option** button to add options.
 2. Click **Add Additional Information** to provide more details about each option.
- 3 Click **Create Voting** to finalize the setup.

Open voting

✓

2

3

Enter voting informationCandidate/Agenda inputOpening completed

1

Candidate/Agenda Information

Question

Question

2

View

ADD VIEW

View1

View1

Enter Additional Information

View2

View2

Enter Additional Information

3

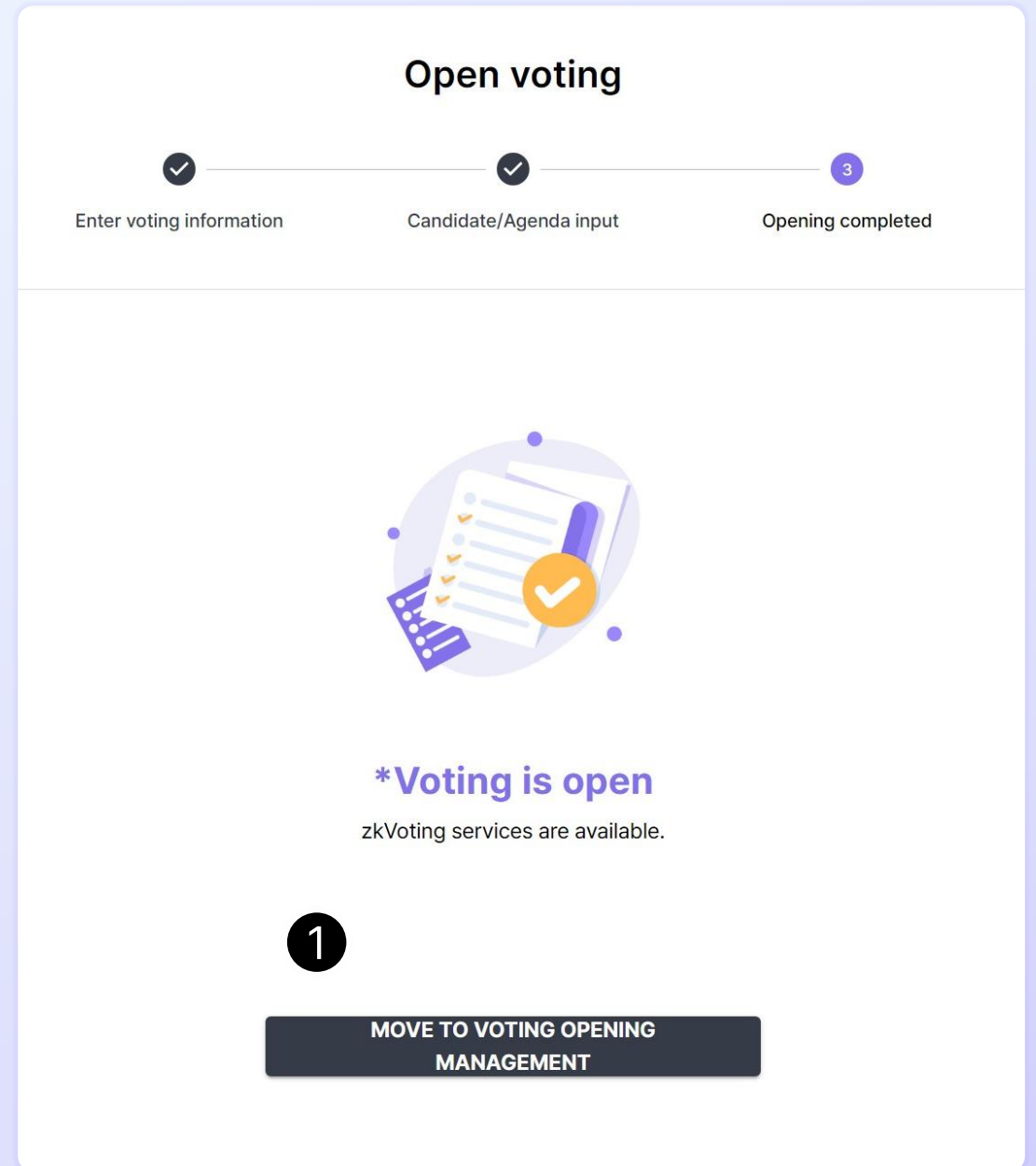
BACK

*OPEN VOTING

2. Voting Opening

3) Voting Setup Complete

- 1 Click the Go to Voting Management button to navigate to the Voting Management page.



3. Voting Process

1) Register Administrator – Part 1/2

1 How to Add an Administrator

1. Select the management permissions for the administrator.
2. Enter the administrator's name.
3. Enter the administrator's mobile phone number.
4. Enter a username and click **아이디 중복확인**
5. Click Add, and the added administrator will appear in the administrator list.

2 From the Administrator List, Click the Checkbox:

1. The selected administrator will receive a username and temporary password.
 2. Click **View Details** to see the administrator's detailed information.
 3. Click **Reset Password** to reset the administrator's password.
- *Administrators cannot be added or removed after voting has started.

Voting opening management > test > Operator management

Operator management

1 Add Operator

Administrative rights
☐ All ☐ Roll management

Name
Enter your name.

Cell phone number
Enter your cell phone number.

ID
Enter your ID.

2

Operator List

☐ Name Rights ID Latest delivery date and time

Please register an operator.

DELETE SELECTION An ID and temporary password will be sent to the selected administrator. SEND PASSWORD

<input type="checkbox"/>	Name	Rights	ID	Latest delivery date and time	
<input type="checkbox"/>	bab	All	test3334	2024.12.18 15:34	DETAILS

User Guide

- Election Management: This role has all management permissions except for voting setup and settlement management.
- Voter List Management: This role only has permission to manage the voter list.

ADD

3. Voting Process

1) Register Administrator – Part 1/2

1 Verify the Username and Password via Notification

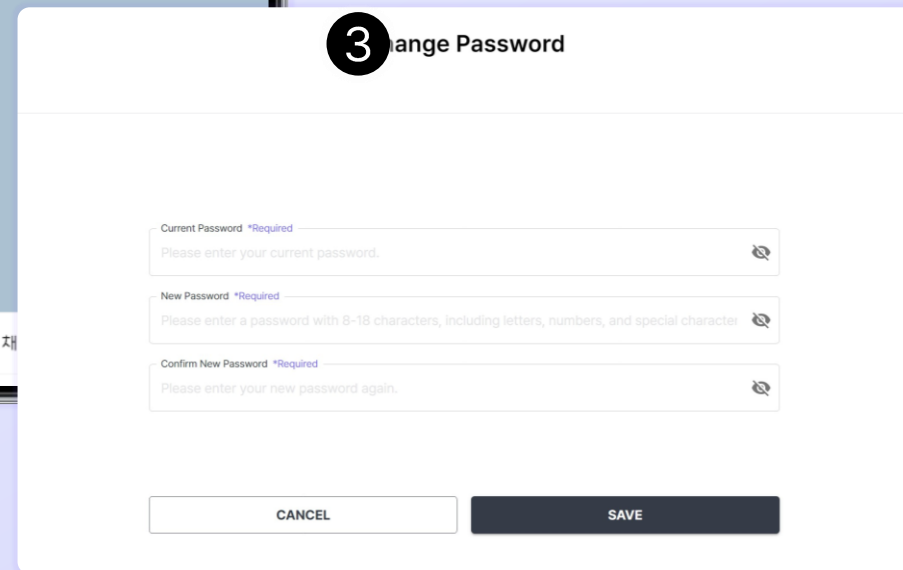
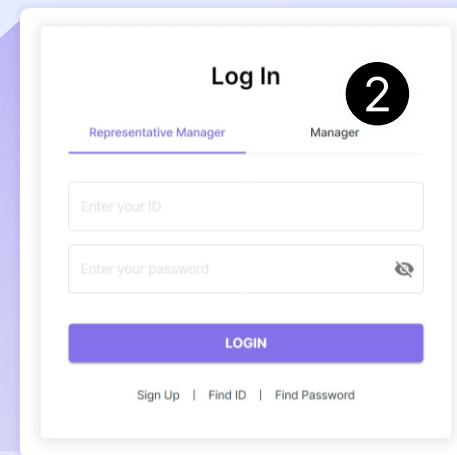
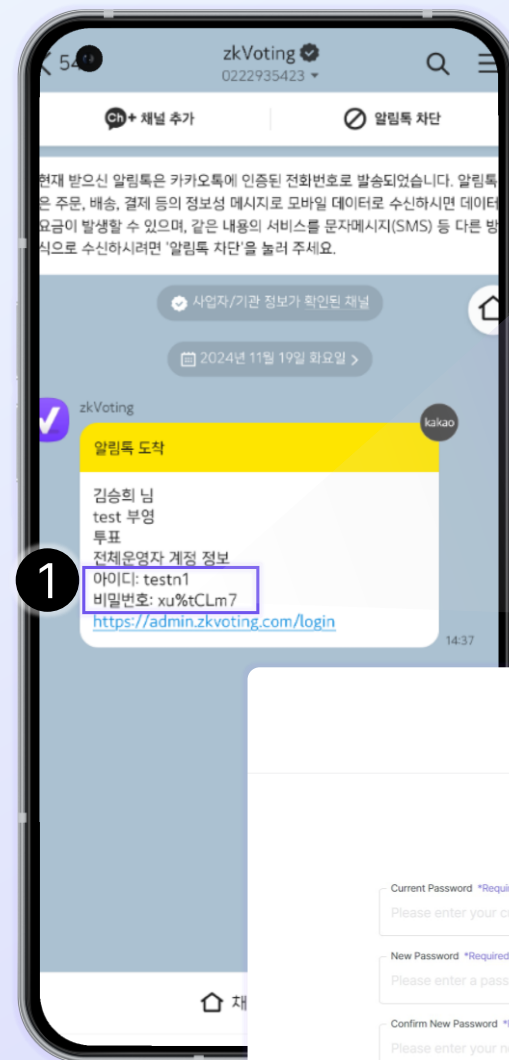
*Check the **Notification Talk** for the username and password.
Click the link to log in directly from your mobile phone.

2 Log in as an Administrator on the zkVoting Login Page

1. Click **Administrator**, then enter the username and password received via Notification Talk

3 Set a New Password

1. On the password change page, set a new password.
2. Click **Save**, then log in again using the newly set password and the previously received username.



3. Voting Process

2) Registering a Roster

- 1 Click on the Roster Management menu
- 2 Add a voter list
 1. Click **Download Template** to download the form, then click **Upload File** to upload the roster
 2. Alternatively, click **Add Individually** to manually add voter names and the voter information specified earlier.
- 3 Click **Finalize Roster** to complete the roster setup.

The screenshot displays the zK/voting web application interface. On the left is a dark sidebar menu with the 'zK/voting' logo at the top. Under the '*VOTING STATUS' section, the '*REGISTER ROLL' option is highlighted. The 'Main Menu' section lists various management options, with 'List management' selected and highlighted in grey. The main content area has a breadcrumb trail 'Voting opening management > test > List Management' and a title 'List Management'. Below the title are tabs for 'List Registration' (active) and 'List Closed'. An orange warning banner states: 'Once the list registration is complete, be sure to close the list. Voting can begin only after the list is closed.' The 'Voter List' section features buttons for 'UPLOAD FILE', 'ADD', and 'DOWNLOAD FORM'. Below these is a table with columns: 'No', 'Name', 'Cell Phone Number', 'Email', 'ID', and 'Registrant'. The table is currently empty, displaying the message 'No registered list found. Please upload a list.' and buttons for 'DELETE SELECTION', 'RESET', and 'CLOSE LIST'. A modal window titled 'List Registration' is open, showing input fields for 'Name' and 'Cell Phone Number', and an 'ADD' button. At the bottom of the screen, a preview of the 'Voter List' table is shown with one entry: '1', 'tester', '01012345678', and 'test01'. This preview includes 'DELETE SELECTION', 'RESET', and 'CLOSE LIST' buttons.

1 Click on the Roster Management menu

2 Add a voter list

3 Click Finalize Roster to complete the roster setup.

3. Voting Process

3) Message Management

- 1
- Click on the Message Management menu.
- 2
- In the Auto-Send Management section, you can select senders for each category
 1. Check the boxes to select the desired senders for each category.
 2. Click **Save** to save the changes.
- 3
- Click Message History to review the message delivery history.

1

zKvoting

VOTING STATUS

*REGISTER ROLL

Main Menu

Voting overview

Operator management

List management

Voting management

Message management

Email management

*Progress Dashboard

Counting management

Counting results

*Voting verification

Voting opening management >

Message Management

2

3

Manage Automatic Sending

Send History

Manage Automatic Sending

category		Voter	Head Administrator	Voting Manager	Electoral Administrator
Voting Start, URL Information Notice	PREVIEW	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
End Notice	PREVIEW	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Tally Notice	PREVIEW	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Administrator Account Send	PREVIEW			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Press Save to update changes

SAVE

Send History

NO	Template Name	Send Target	Scheduled Send Time	Scheduled End Time	Total List Sent	Number of Pending	Notification success count	Successful Transfers	failed send counts
4	Administrator Account Send	Voting Manager	2024.12.18 16:24:40	2024.12.18 16:24:40	1	0	0	0	1
3	Administrator Account Send	Voting Manager	2024.12.18 16:24:27	2024.12.18 16:24:27	1	0	0	0	1
2	Administrator Account Send	Voting Manager	2024.12.18 15:55:04	2024.12.18 15:55:04	1	0	0	0	1
1	Administrator Account Send	Voting Manager	2024.12.18 15:34:11	2024.12.18 15:34:11	1	0	0	0	1

3. Voting Process

4) Email Management

- 1 Click on the Email Management menu.
- 2 In the Auto-Send Management section, you can select senders for each category
 - 1. Check the boxes to select the desired senders for each category.
 - 2. Click **Save** to save the changes.
- 3 Click Email History to review the Email delivery history.

zK/voting

VOTING STATUS

*REGISTER ROLL

Main Menu

Voting overview

Operator management

List management

Voting management

Message management

Email management

*Progress Dashboard

Counting management

Counting results

*Voting verification

Voting opening management > test > Message Management

Message Management

2

3

Automata

Send History

Manage Automatic Sending

	category		Voter	Head Administrator
	Voting Start, URL Information Notice	PREVIEW	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	End Notice	PREVIEW	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Tally Notice	PREVIEW	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

To update changes, please check or uncheck options and then click the Save button.

SAVE

3

Manage Automatic Sending

Send History

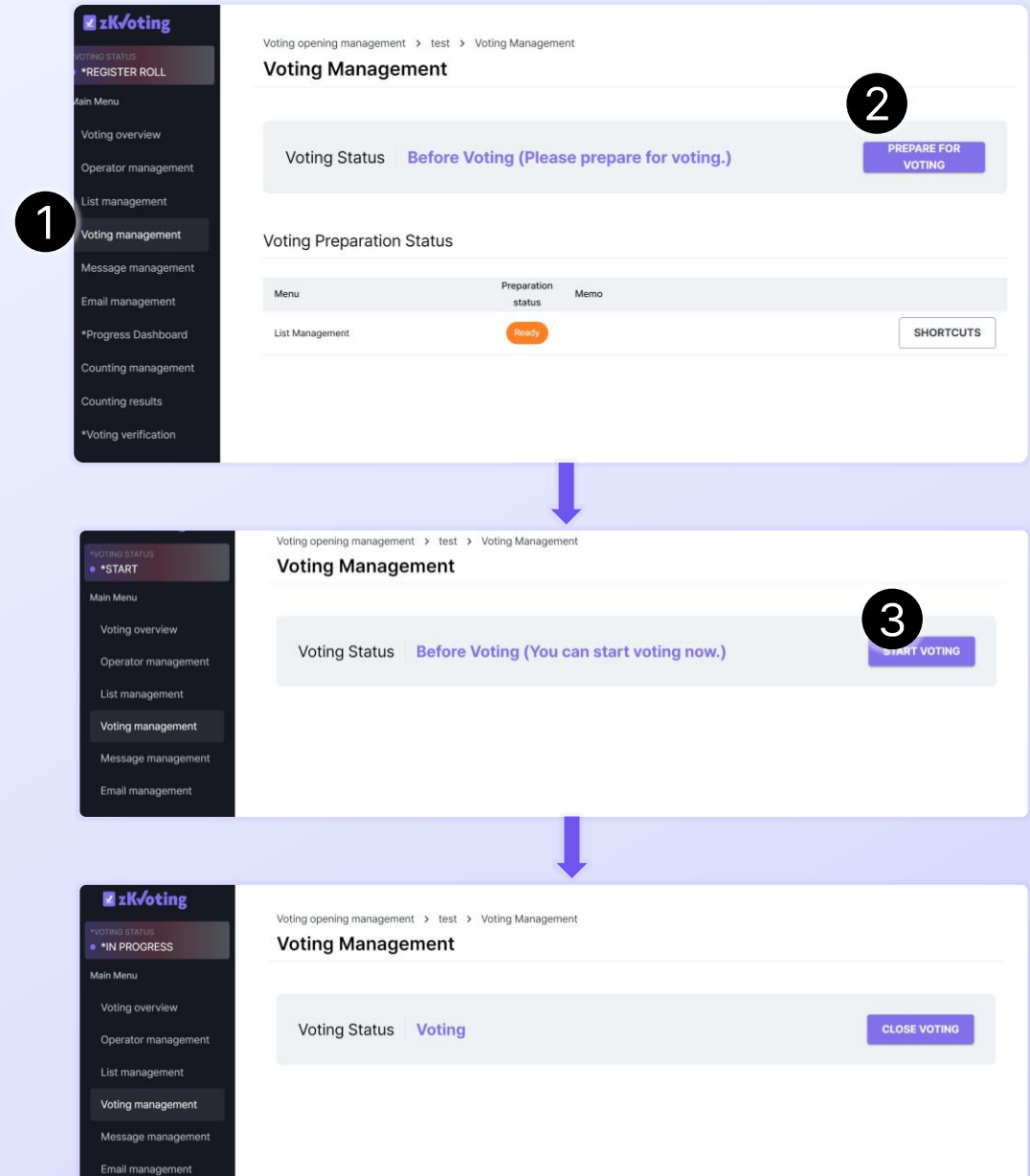
Send History

NO	Template Name	Send Target	Scheduled Send Time	Scheduled End Time	Total List Sent	Number of Pending	Failed Sends
< < 1 > >							

3. Voting Process

5) Start Voting

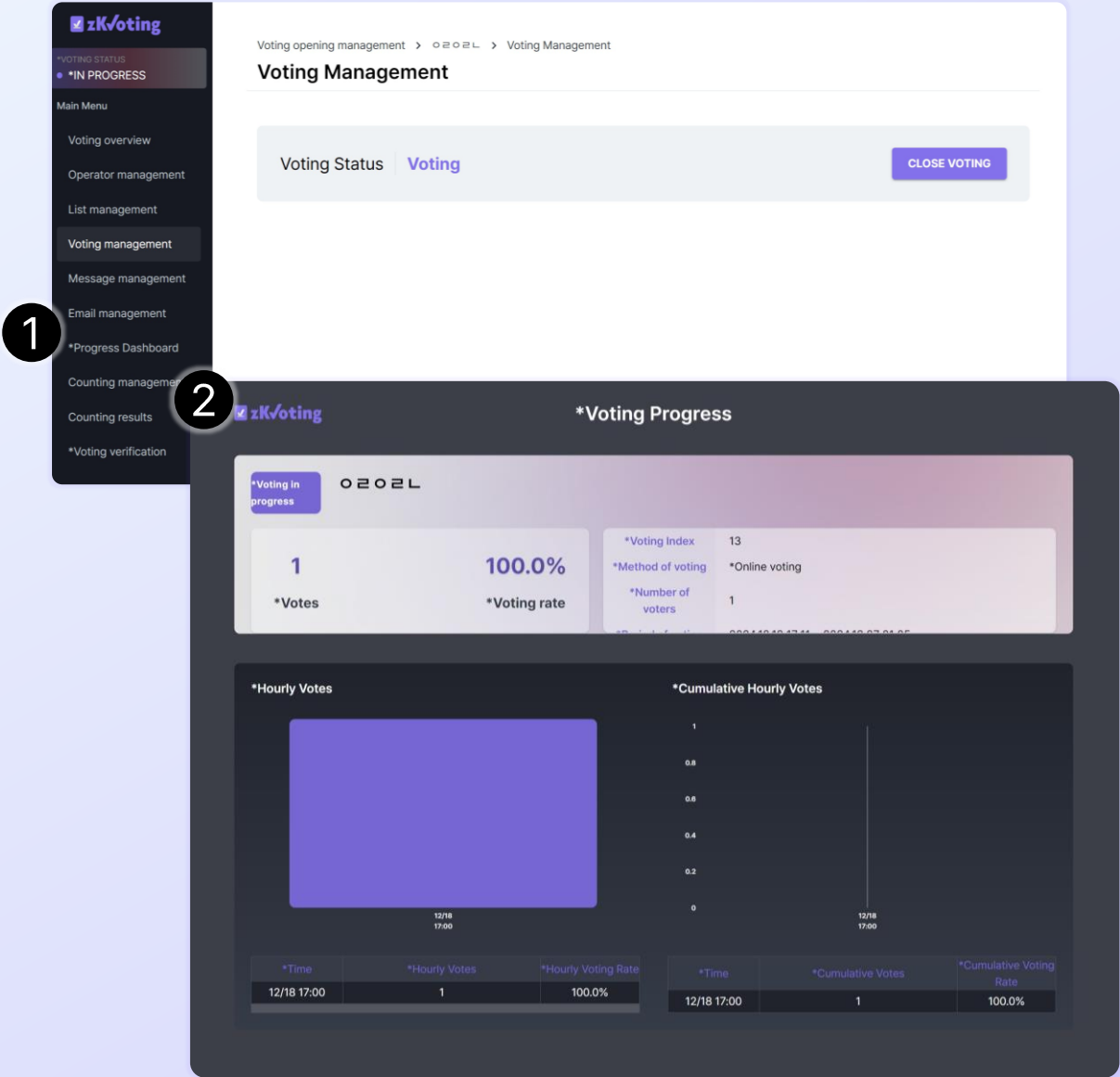
- 1 Click on the Voting Management menu.
- 2 Click **Prepare Voting** to begin setting up the vote.
- 3 Click **Start Voting** to initiate the voting process.



3. Voting Process

6) Monitor Voting Progress

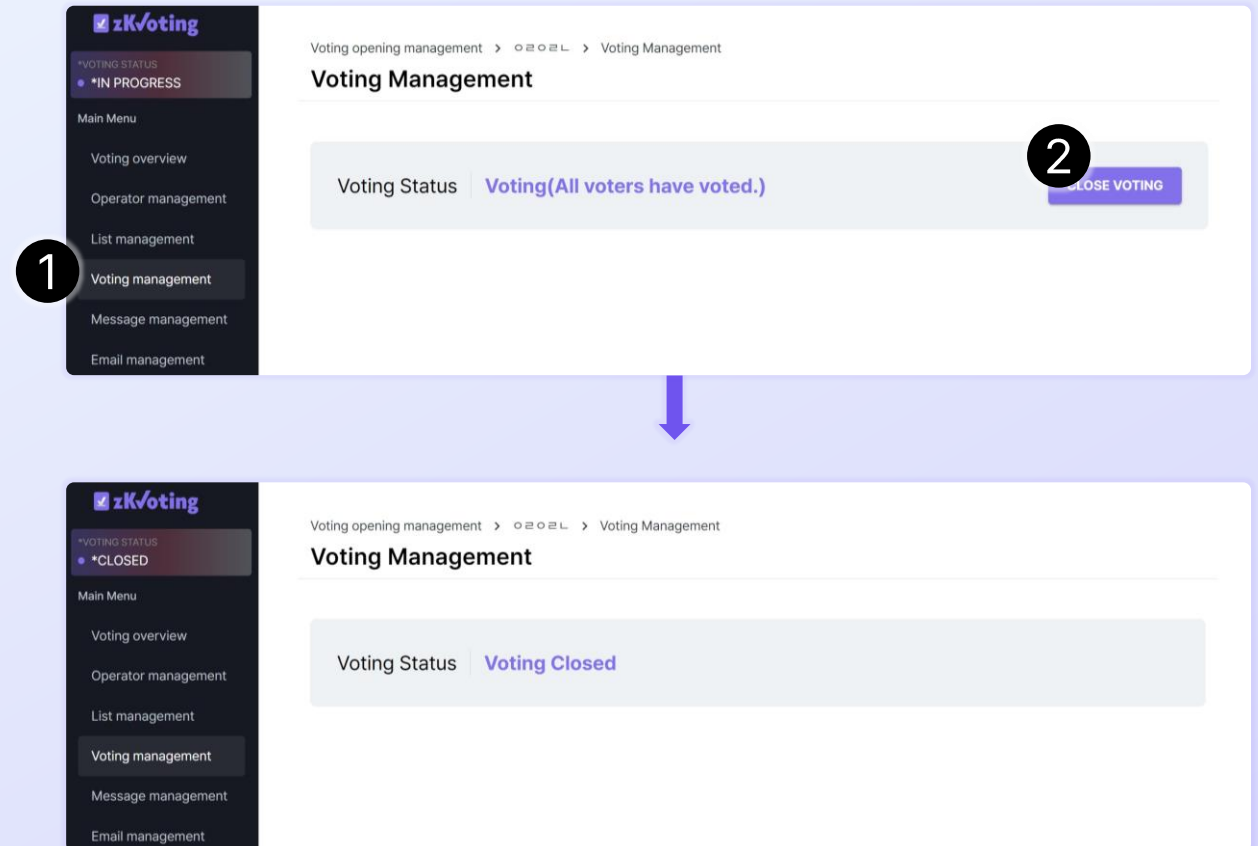
- 1 Click on the Voting Progress menu.
- 2 You can check the current status of the voting process.



3. Voting Process

7) Close Voting

- 1 Click on the Voting Management menu.
- 2 Click **Close Voting** to end the voting process.



4. Vote Counting

1) Counting Votes

- 1 Click on the Counting Votes Management menu.
- 2 Click **Start Counting** to finalize the counting process

The screenshot shows the zK Voting interface. On the left is a dark sidebar with a 'Main Menu' containing options like 'Voting overview', 'Operator management', 'List management', 'Voting management', 'Message management', 'Email management', '*Progress Dashboard', 'Counting management' (highlighted with a circled '1'), 'Counting results', and '*Voting verification'. The top of the sidebar shows 'VOTING STATUS' with a dropdown menu set to '*CLOSED'. The main content area is titled 'Ballot Counting Management' and shows a breadcrumb 'Voting opening management > 0202L > Ballot Counting Management'. Below the title, there's a status bar with 'Ballot Counting Status' and 'Before Counting'. A circled '2' points to a purple 'START BALLOT COUNTING' button. Below this is a section 'Ballot Counting Preparation Status' containing a table with columns 'Menu', 'Preparation status', and 'Memo'. The table has one row for 'Voting Management' with a 'Ready' status and a memo 'Votes can be counted after voting closes.' A 'SHORTCUTS' button is to the right of the table.

Menu	Preparation status	Memo
Voting Management	Ready	Votes can be counted after voting closes.

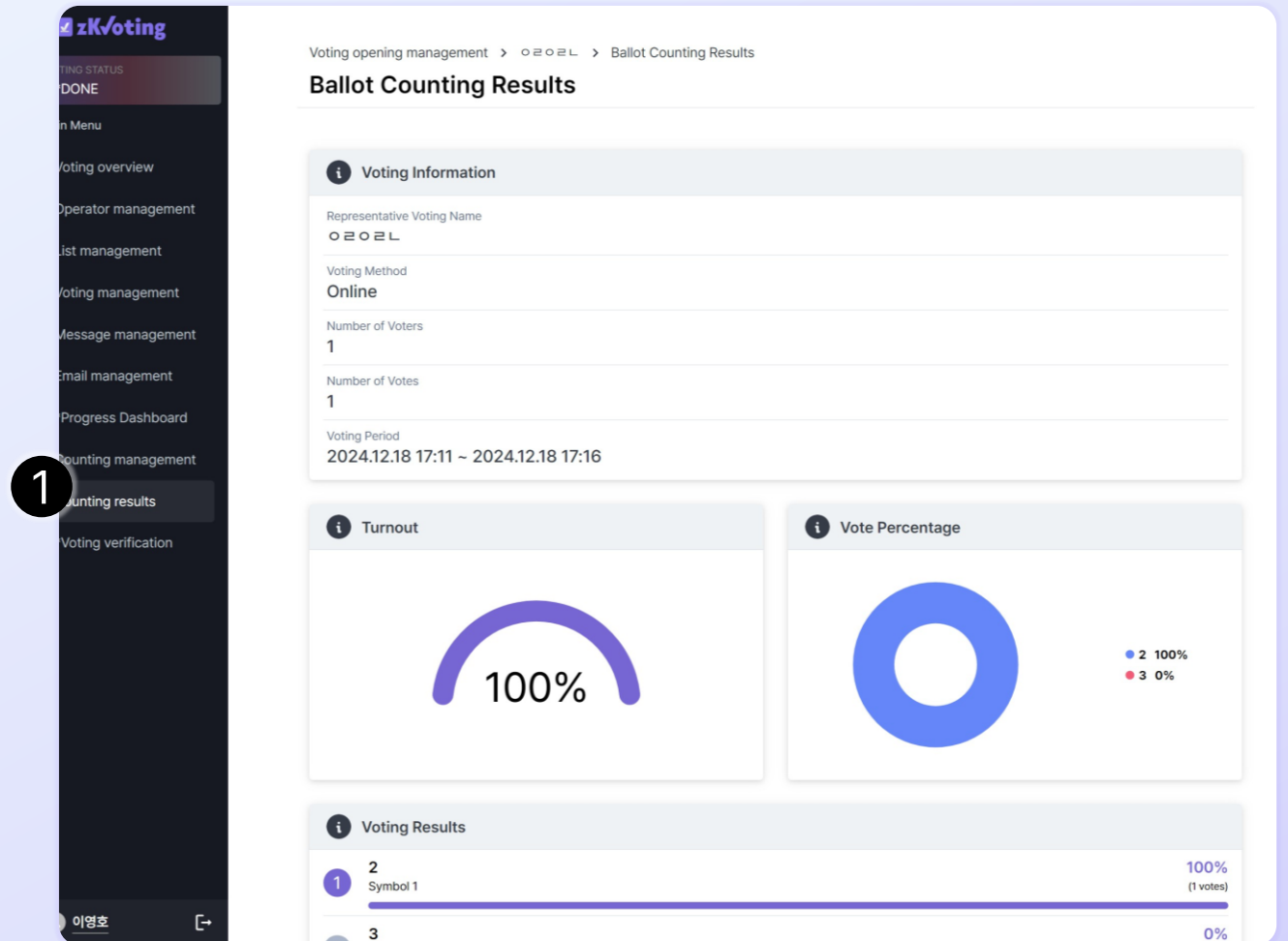
This screenshot shows the same zK Voting interface after the counting process is complete. The 'VOTING STATUS' dropdown is now set to '*DONE'. In the 'Ballot Counting Management' section, the status bar now shows 'Counting Completed' instead of 'Before Counting'. The 'START BALLOT COUNTING' button is no longer visible. The 'Ballot Counting Preparation Status' table remains the same, with 'Voting Management' in 'Ready' status and the same memo. The 'SHORTCUTS' button is still present.

Menu	Preparation status	Memo
Voting Management	Ready	Votes can be counted after voting closes.

4. Vote Counting

2) View Voting Results

- 1 Click on the **Voting Results** menu to view the Voting results



4. Vote Counting

3) Verify Voting Process

- 1 Click on the **Voting and Counting Verification** menu
- 2 Click **Vote Verification** to finalize the vote verification process
 1. When a notification appears confirming that the Zero-Knowledge Proof verification of the voting data is complete, click **Confirm**.
- 3 You can check the vote verification results.
 1. Click **Download Verification Results** to download the verification results.

The screenshot displays the zK/voting web application interface. On the left is a dark sidebar menu with the 'Voting verification' option highlighted. The main content area is titled 'Voting and Vote Counting Verification' and includes a 'Vote Verification' button. A confirmation dialog box with a checkmark and the text 'Zero-Knowledge Proof Verification of Voting Data Complete' and a 'CONFIRM' button is overlaid. Below this, a 'Verification Results' section shows a table with verification details and a 'DOWNLOAD VERIFICATION RESULTS' button.

Voting and Vote Counting Verification

Vote Verification | Ballot Counting Verification

ZKP Voting Verification

Zero-knowledge proof voting verification ensures the consistency of encrypted voting data on the blockchain, which cannot be tampered with or altered.

2 VERIFY VOTES

1

Zero-Knowledge Proof Verification of Voting Data Complete

CONFIRM

Zero-Knowledge Proof Voting Verification Complete

We have confirmed that all voting data is accurate.

Start time of zero-knowledge proof verification: 2024. 12. 18. 오후 5:22:13

End time of zero-knowledge proof verification: 2024. 12. 18. 오후 5:22:13

Number of voters verified through zero-knowledge proof: 1

Verification Results

The first 100 results will be displayed in voting order, and the entire verification result can be downloaded.

DOWNLOAD VERIFICATION RESULTS

No.	Transaction ID	Blockchain storage time	Verification Result
1	0x915c3d7f0b2783f0ac52b437478302b5153bc0f197fedd2c118601300bde374c	2024.12.18 17:14:50	Success

< 1 >

4. Vote Counting

4) Verify Counting Results

- 1 Click on the **Voting and Counting Verification** menu
- 2 Click **Counting Verification** to finalize the vote verification process
 1. When a notification appears confirming that the Zero-Knowledge Proof verification of the voting data is complete, click **Confirm**.
- 3 You can check the vote verification results.

The screenshot displays the ZK Voting web application interface. On the left is a dark sidebar with a menu. The main content area shows the 'Voting and Vote Counting Verification' page. A navigation bar at the top includes 'Voting opening management', 'Voting and Vote Counting Verification', and a sub-menu with 'Vote Verification' and 'Counting Verification'. The 'Counting Verification' option is highlighted with a red circle labeled '1'. Below this, a card titled 'ZKP Voting Verification' contains a description and a red button labeled '2 VERIFY VOTES'. A modal dialog box is open, showing a green checkmark and the text 'Zero-Knowledge Proof Verification of Voting Data Complete', with a 'CONFIRM' button. Below the modal, a success message states 'Zero-Knowledge Proof Voting Verification Complete' with a timestamp. A table titled 'Verification Results' provides details for the verification process, including start and end times and the number of voters verified. A 'DOWNLOAD VERIFICATION RESULTS' button is also present.

Voting opening management > 0202L > Voting and Vote Counting Verification

Voting and Vote Counting Verification

Vote Verification Counting Verification

ZKP Voting Verification Zero-knowledge proof voting verification ensures the consistency encrypted voting data on the blockchain, which cannot be tampered with or altered.

VERIFY VOTES

Zero-Knowledge Proof Verification of Voting Data Complete

CONFIRM

Zero-Knowledge Proof Voting Verification Complete
We have confirmed that all voting data is accurate.

Start time of zero-knowledge proof verification 2024. 12. 18. 오후 5:22:13

End time of zero-knowledge proof verification 2024. 12. 18. 오후 5:22:13

Number of voters verified through zero-knowledge proof 1

Verification Results The first 100 results will be displayed in voting order, and the entire verification result can be downloaded.

DOWNLOAD VERIFICATION RESULTS

No.	Transaction ID	Blockchain storage time	Verification Result
1	0x915c3d70b2783f0ac52b437478302b5153bc0f197fedd2c118601300bde374c	2024.12.18 17:14:50	Success

5. Accouting

**1) Issuance of Usage Details by Zkrypto Administrator
(sent to Member's Email)**



2) View Member Usage Details



3) Issuance of Tax Invoice by Zkrypto Administrator



4) Member Payment

User Manual for Voters

CONTENT

1

Participating in Voting

- 1) Check URL Received
- 2) Participate in Voting
- 3) My Ballot Box

2

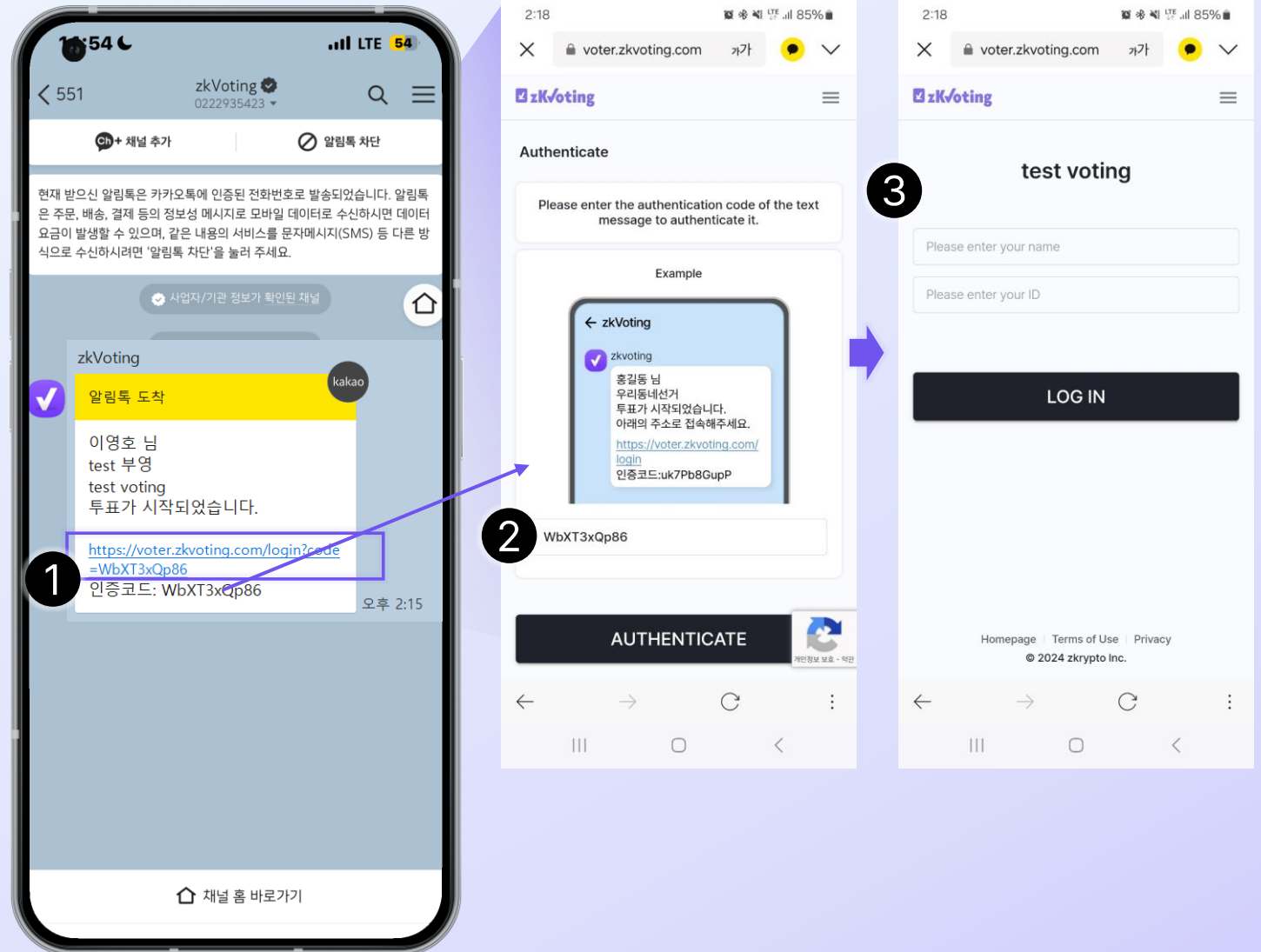
Viewing Voting Results

- 1) Check URL Recieved
- 2) Log In
- 3) View Voting Results

1. Participating in Voting

1) Check URL Received

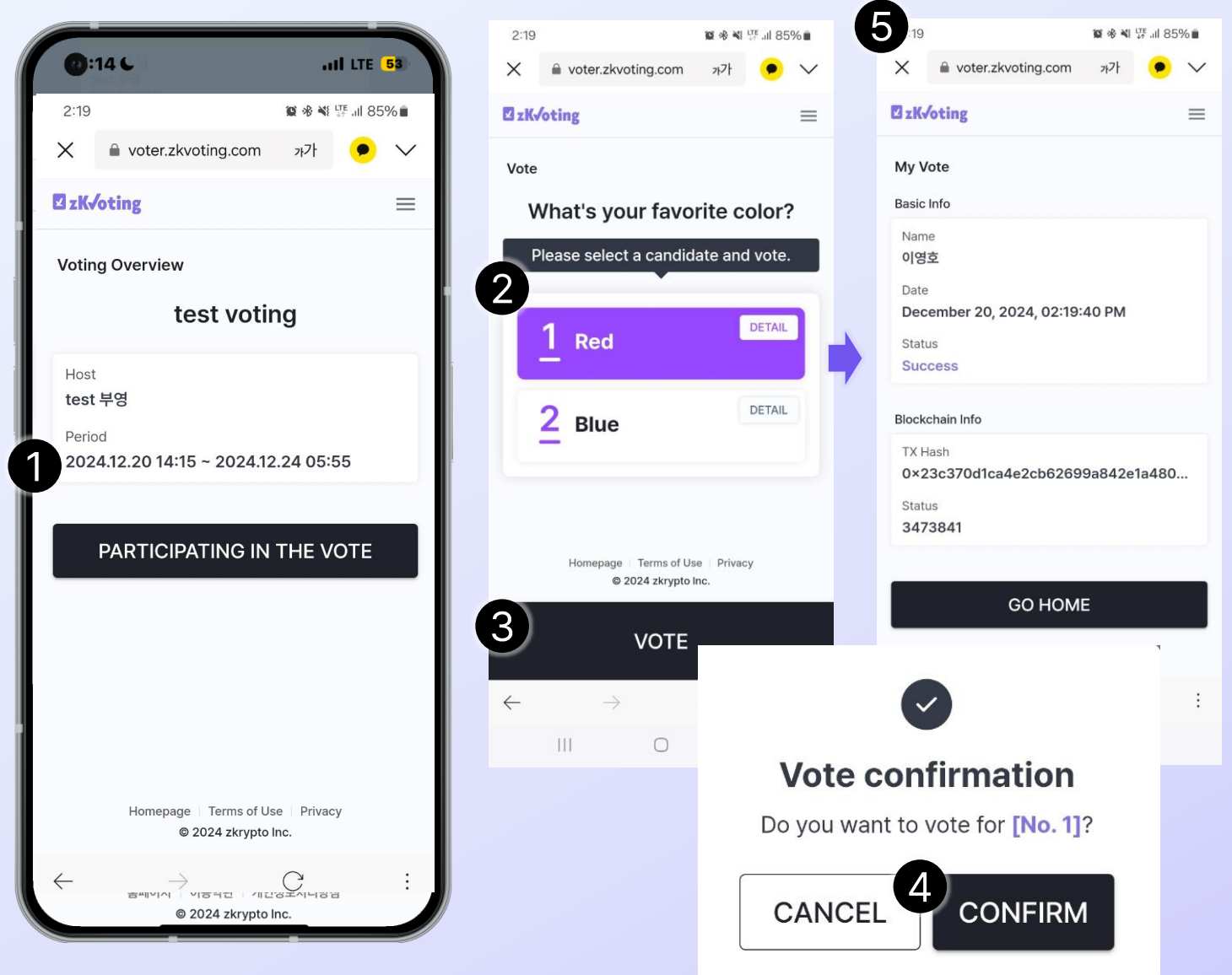
- 1 **Confirm receipt of the URL via Alert Talk.**
*Click the link to log in on your phone.
- 2 **Click the URL to log in.**
 1. If the authentication code is entered correctly, click the Login button.
- 3 **Enter your name and phone number, then click Login.**



1. Participating in Voting

2) Participate in Voting

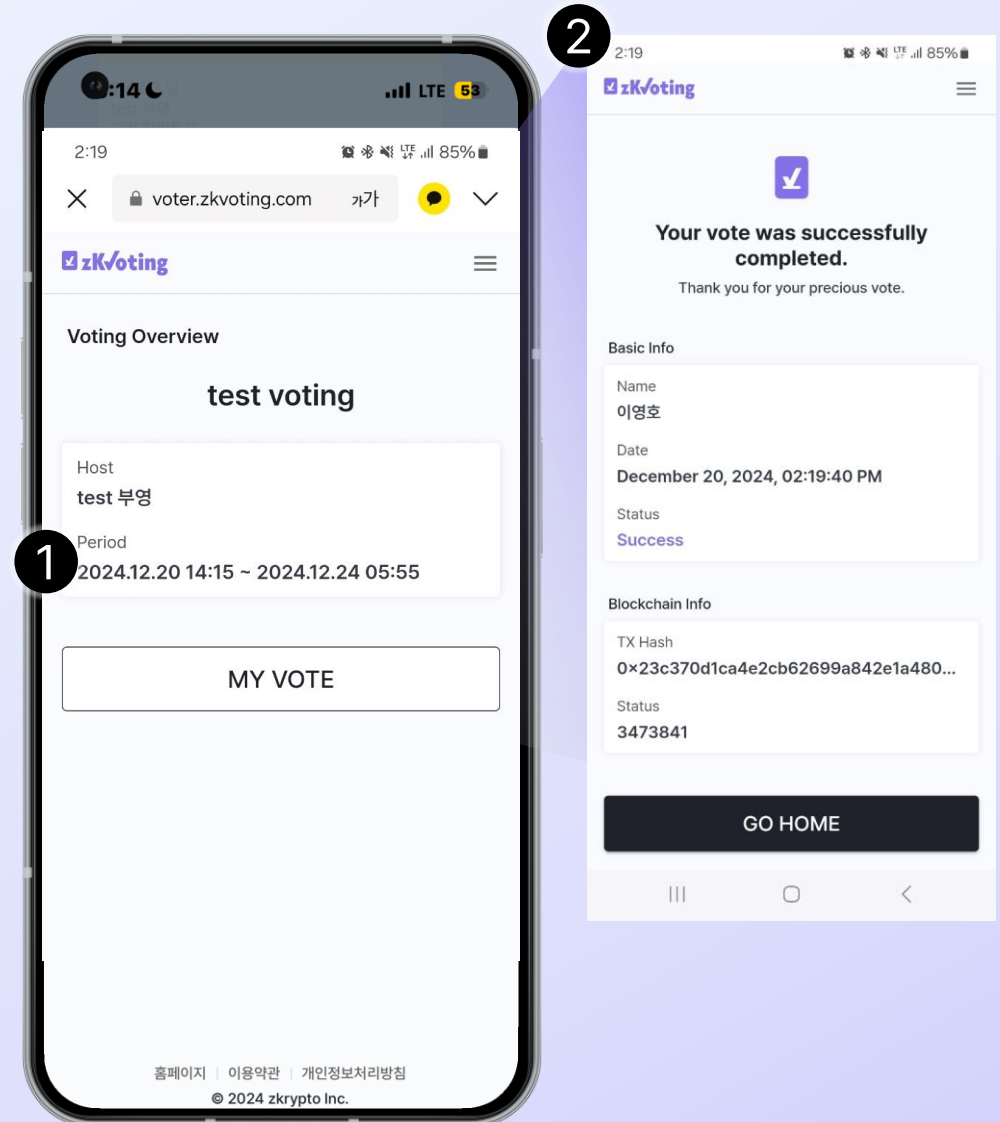
- 1 Click Participate in Voting to join the vote.
- 2 Select the item you wish to vote for from the list.
*Click View Details to see more information about each voting item.
- 3 Click Vote.
- 4 When the confirmation window appears, click Confirm.



1. Participating in Voting

3) My Ballot Box

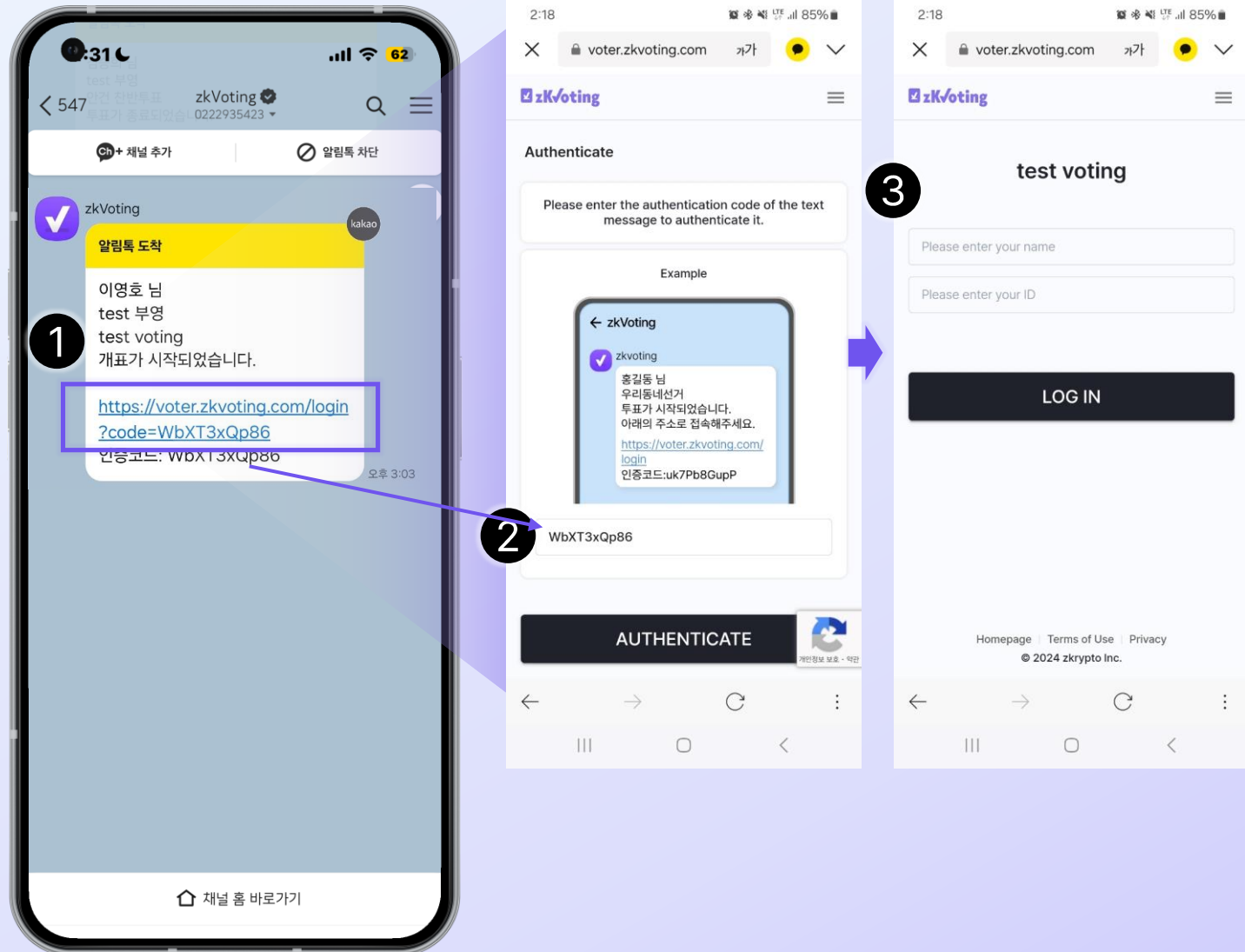
- 1 Click on My Ballot Box
- 2 In the ballot box, you can view your information and blockchain data



2. View Voting Results

1) Confirm Receipt of URL and Log In

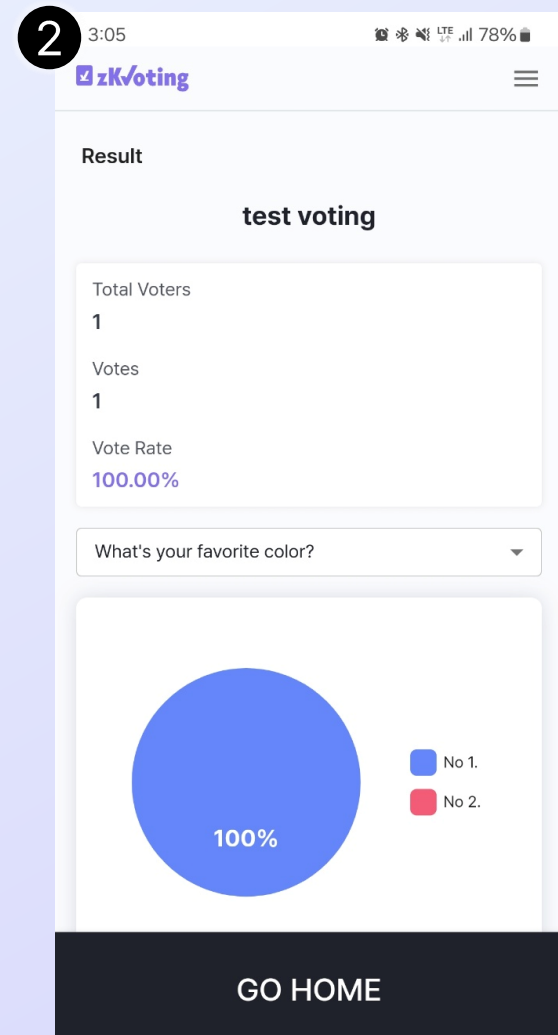
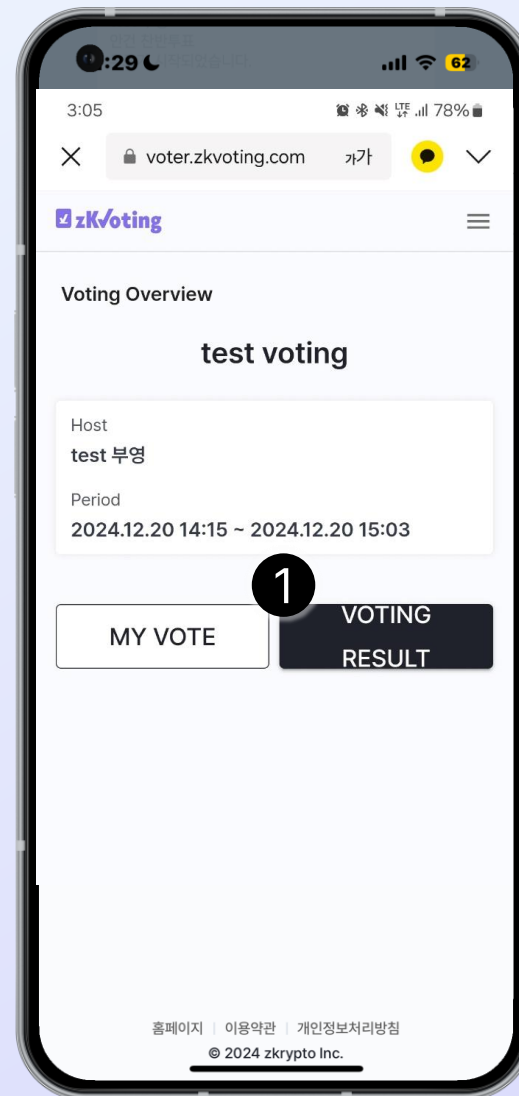
- 1 **Confirm receipt of the URL via Alert Talk.**
 1. *Click the link to log in on your phone.
- 2 **Click the URL to log in.**
 1. If the authentication code is entered correctly, click the Login button.
- 3 **Enter your name and phone number, then click Login.**



2. View Voting Results

2) View Voting Results

- 1 Click on Voting Results
- 2 You can view the voting results for the agenda items



zkVoting2.0

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