User Manual

Project: Votegrity

Author 1:   Thomas Kelly - 20361526
Author 2:   Rishabdev Sidhu - 20309616

Supervisor: Geoffrey Hamilton

Completition Date: 18/04/2024

Abstract

Votegrity is an innovative blockchain-based voting system designed to enhance the transparency, security, and accessibility of election processes in a world where technology, transparency, and confidence in democratic processes are all fast advancing. Leveraging the decentralized and tamper-resistant nature of blockchain technology, The system ensures the voting integrity of each vote cast while providing a secure and transparent platform for users, employs smart contracts to automate and validate the voting process, eliminating the risk of fraud and manipulation. Votegrity prioritizes user privacy and trust, employing cryptographic techniques to safeguard sensitive information and accommodates various authentication and verification methods, ensuring a seamless and accessible voting experience for all users.
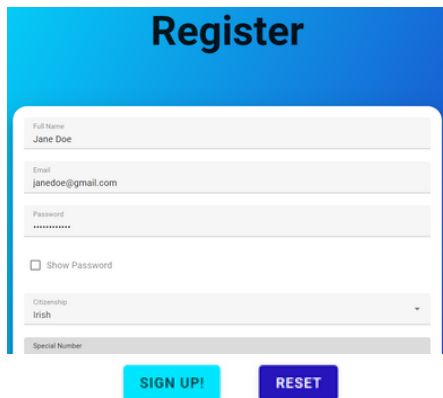
Requirements

Computer with access to the internet and browsers

User Guide - User

1. Register

- To use the system you must first create an account
- Go to the url and you will automatically be redirected to the login page
- Click the register button on the top right to go the register form
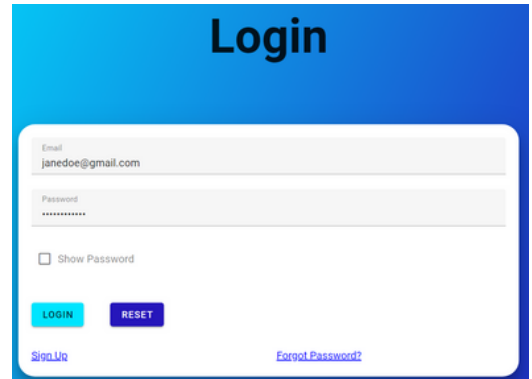- Fill in your details and click 'Sign Up!' to create your account

2. Login

- Enter the email and password you provided in the register form to login and click the 'Login' button

3. Authentication

- You must authenticate your account by entering in the 6 digit code sent to the email address you provided when registering your account, then click 'Verify'
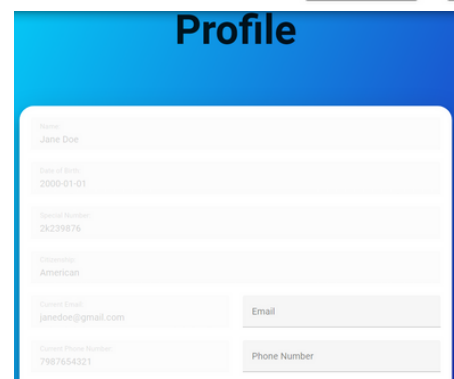- This will only be required to complete successfully once

4. Profile

- To view or change your details, click the profile button on the top right
- If you wish to change your email or phone number, provide the new details and 'Submit'
- The details will change successfully provided no other person with an account has the same email or phone number you provided
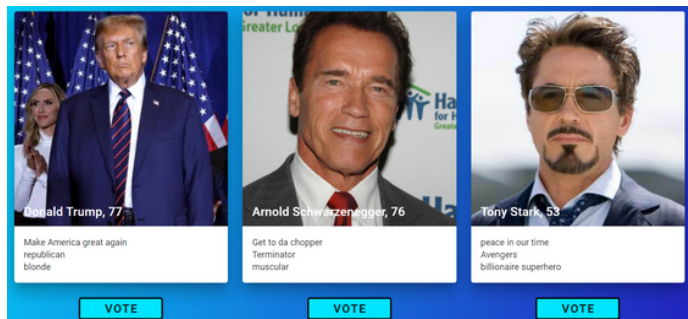
5. Vote

- Each election will have it's own voting system and requires you to vote differently
- First choose the election you wish to vote for
- Then depending on the election process, you must choose one candidate to vote for or assign rankings to all candidates with 1 being the highest preference
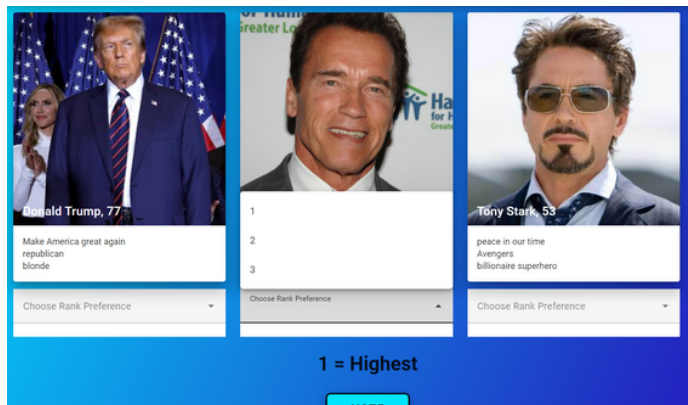- Click 'Vote' once you have made your choice
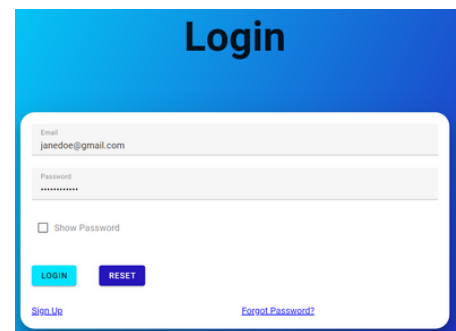
6. Change password

- To change your password you must be logged out of the system
- On the login form click 'Forgot Password?' at the bottom middle of the form
- Enter the email address associated with your account
- A 6 digit code will be sent to that email, input the code and answer the security questions correctly to change your password
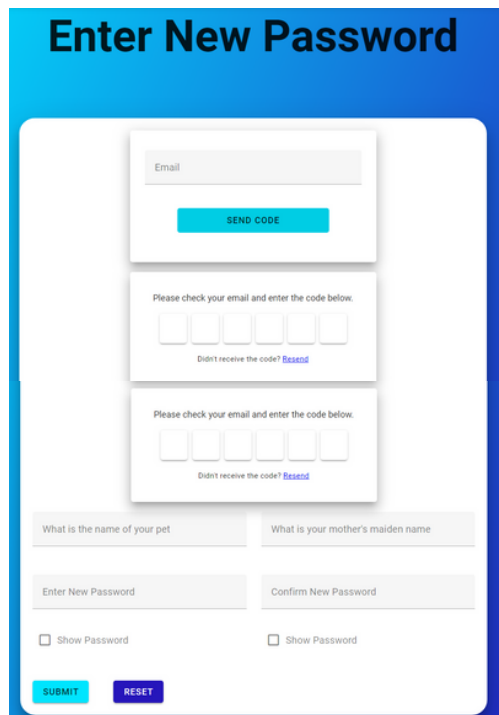- You may then login using your new password
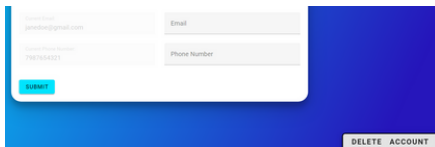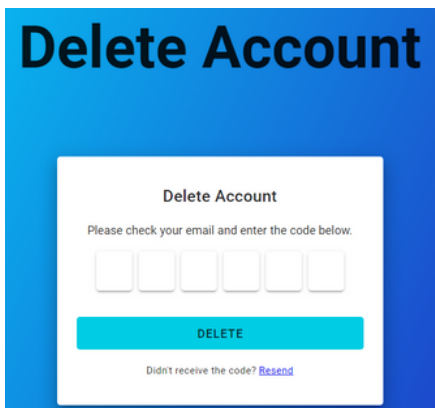
7. Delete account

- On your profile page at the bottom right click the delete account button
- Enter the 6 digit code sent to your email to successfully delete your account
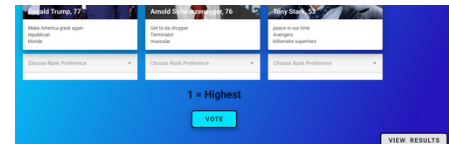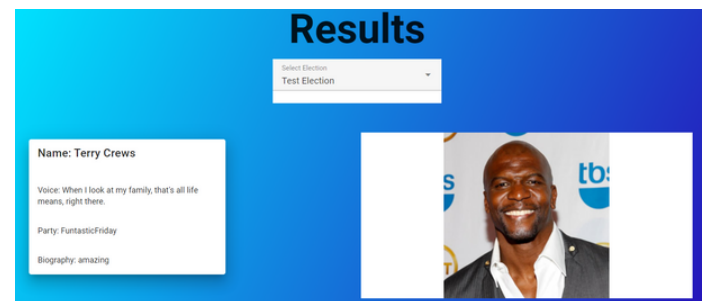

8. Results

- To view the results of an election go to the vote page and click the view results button on the bottom right
- Select the election for which you wish to view the results for
- Here you can view the details of the candidate(s) for the selected election

9. Logout

- To log out of the system click the logout button on the top right

User Guide - Admin

1. Login

- Enter the email and password you provided in the register form to login and click the 'Login' button
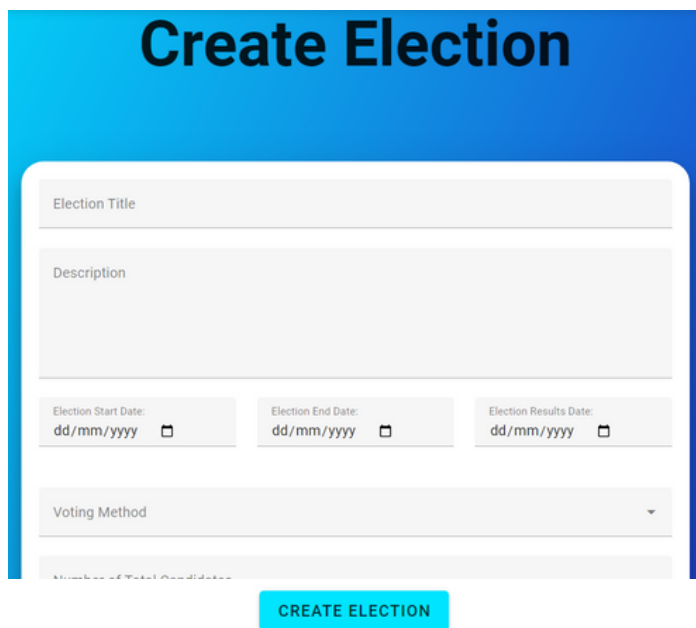

2. Admin dashboard

- You will automatically be redirected to the dashboard upon logging in successfully
- Here you can select an election to view it's details, how many candidates are in the election and how many days are left until the end
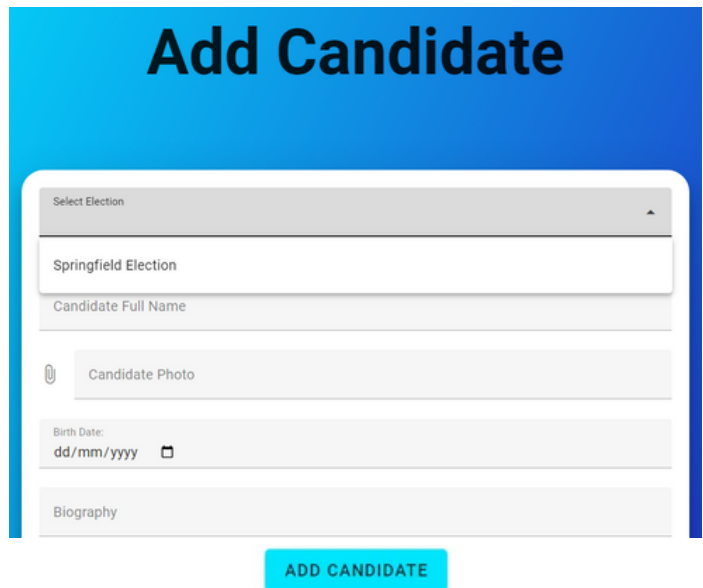
3. Create election

- To create an election click the add election button on the top right
- Enter the details for the new election
- Once the required details have been filled in, click 'Create Election' to create new election
- You will receive a key that will be used to publish the election, it is extremely vital to keep the key and not to share with anyone
- You will be redirected to the candidate form to add the number of required candidates for the new election

4. Add candidate

- To add a new candidate to an election, choose the election you wish to add a candidate to
- Enter the details for the candidate you wish to add
- Once the required details have been filled in, click 'Add candidate' toad the candidate to the selected election
- Repeat this process until all candidates have been added

5. Publish results

- To publish the results of an election on the dashboard page click the publish election button on the bottom right
- Choose the election for which you wish to publish and enter the publish key you will have received via email when the election was first created

6. Logout

- To log out of the system click the logout button on the top right