Decentralized voting app "GetVoted"

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OUTLINE OF REPORT

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1. **Project Overview:**

GetVoted is a decentralized voting dApp that makes use of blockchain technology to enable safe and transparent elections. The project intends to guarantee voting process integrity, get rid of fraud, and give users an easily accessible and verifiable platform on which to cast their votes.

Our decentralized voting app seeks to fundamentally alter how elections and decision-making are carried out. The main goal is to offer a trustworthy, open, and incorruptible platform for voting.

GetVoted is important essential in making sure that voting processes are fair and reliable, not only for political elections but also for corporate decision-making.

2. **Goals:**

The primary goals of GetVoted include:

• Implementing a decentralized voting system to enhance transparency and trust.

• Providing a secure and tamper-proof platform for election processes.

• Offering an admin panel for election management and user verification.

3. **Specific Features:**

Decentralization: Utilize blockchain to decentralize the voting process, ensuring immutability and transparency.

Admin Panel: Enable administrators to initiate and manage elections, add candidates, and conclude the voting process.

User Pages: Provide users with a secure platform to cast their votes, view ongoing elections, and access election results once concluded.
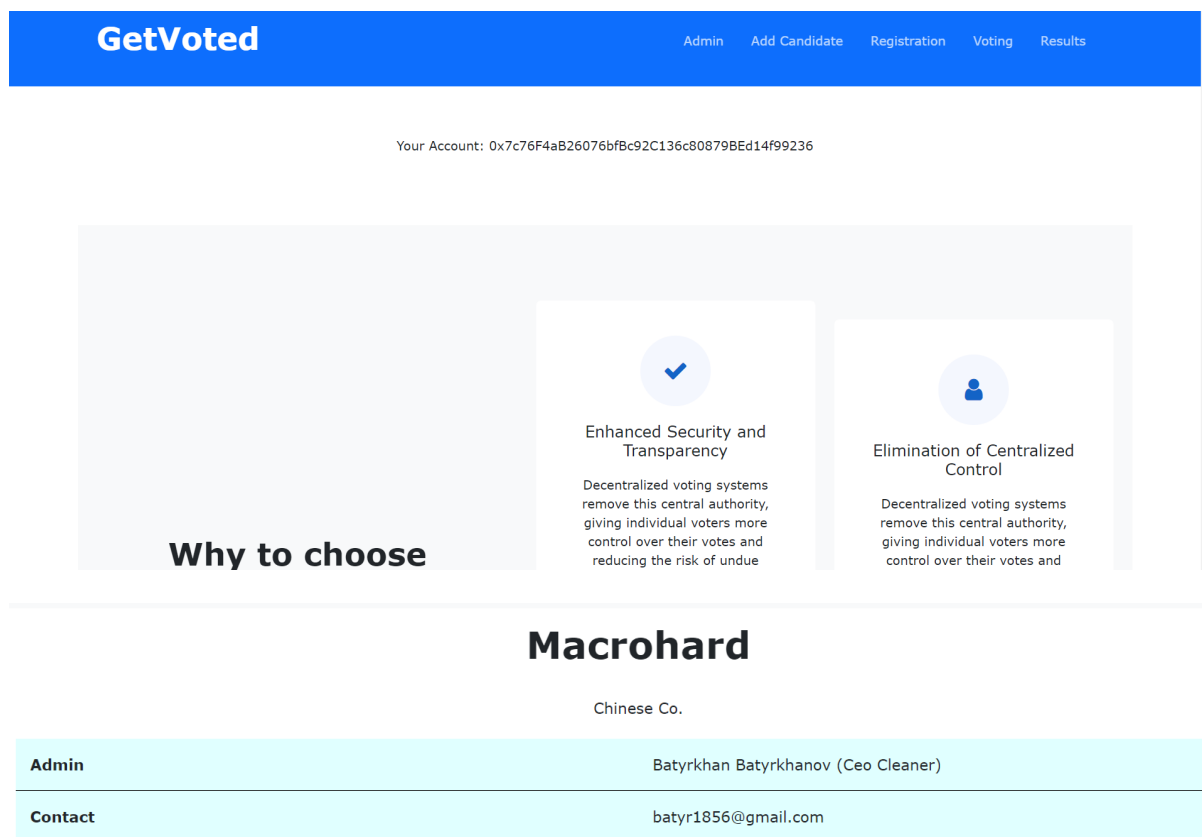
4. Tech Stack:

Frontend: React.JS, HTML, CSS, JavaScript

Backend: Solidity, Truffle, Ganache

5. Page Documentation

1) Home Page

The starting page for the User, it describes the advantages of decentralized voting, and also shows the account with which you accessed the site.

2) Admin Panel

The Admin page, which appears only when logging in from an account marked Admin. Here the Administrator can create a new vote; to do this, he must fill in information about the creator of the vote, the name of the vote and the purpose of the vote. There are also buttons for creating a vote and ending it.

GetVoted   Admin   Add Candidate   Registration   Voting   Results

Your Account: 0x7c76F4aB26076bfBc92C136c80879BEd14f99236
Set up the election.

Full Name

First Name

Last Name

Email

ex. you@example.com

Job Title or Position

ex. CEO

Election Title

ex. Title of poll

Organization Name

Full Name

First Name

Last Name

Email

ex. you@example.com

Job Title or Position

ex. CEO

Election Title

ex. Title of poll

Organization Name

ex. NMN limited.

Start Election

Macrohard

Chinese Co.

Admin	Batyrkhan Batyrkhanov (Ceo Cleaner)
Contact	batyr1856@gmail.com

The election has started.

End Election

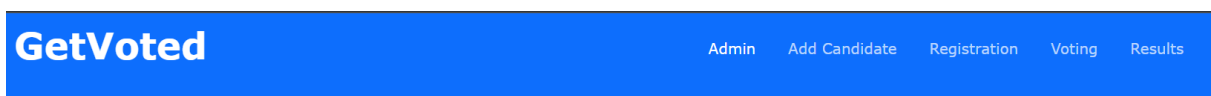**GetVoted** Admin Add Candidate Registration Voting Results

Your Account: 0x7c76F4aB26076bfBc92C136c80879BEd14f99236

Re-deploy the contract to start the election again.

The election has ended.

3) Verification Page

Verification page, where the administrator can see applications from users who want to participate in voting. He can admit them or keep them on the waiting list.

GetVoted Admin Add Candidate Registration Voting Results

Verification Page
Total Voters: 1
List of registered voters

Account address	0x891A7B7a193D7154f2F69354dB421D42caf61DCE
Name	Svetlana Batyrkhanova
Phone	7777777777
Voted	False
Verified	False
Approve	

4) Add Candidates Page

When creating a vote, by default there are no candidates; there is a separate page for adding candidates. On this page, the administrator can add Candidate Name and Candidate About.

Add a new candidate

Total candidates: 3

Candidate (full name or name of company)

Description

Add

Candidates List:

0. **Batyrbek Batyrkhanov**: I will be the best vicepresident
1. **Batyrzhan Batyrkhanov**: No, I will be the best vicepresident
2. **Batyrkhan Batyrbekob**: Everybody hands up

5) Registration Page

Applications for verification (registration) are submitted on the Registration page, where each user must submit their data to the admin.

Registration

Total registered voters: 1

Account Address

0x891A7B7a193D7154f2F69354dB421D42caf6:

Name

ex. Adibor

Phone number

ex. 7771231234

Update

Your Registered Info

Account Address:	0x891A7B7a193D7154f2F69354dB421D42caf61DCE
Name:	Svetlana Batyrkhanova
Phone:	7777777777
Voted:	False
Verification:	False
Registered:	True

6) Voting Page

The Voting page is the page where the voting itself takes place; here, using a metamask, users can vote for the candidate they prefer.

You're not registered. Please register first.

Candidates

Total candidates: 3

Batyrbek Batyrkhanov #0

I will be the best vicepresident

Vote

Batyrzhan Batyrkhanov #1

No, I will be the best vicepresident

Vote

Batyrkhan Batyrbekob #2

Vote

Go ahead and cast your vote.

Candidates

Total candidates: 3

Batyrbek Batyrkhanov #0

I will be the best vicepresident

Vote

Batyrzhan Batyrkhanov #1

No, I will be the best vicepresident

Vote

Batyrkhan Batyrbekob #2

Everybody hands up

Vote

7) Results Page

The results page on which the winner will be determined, and also shows a table of all candidates with the number of their votes.

GetVoted   Home   Registration   Voting   **Results**

The election is currently in progress.

Results will be displayed once the election has ended.

Go to Voting Page

Winner!   Total Votes:

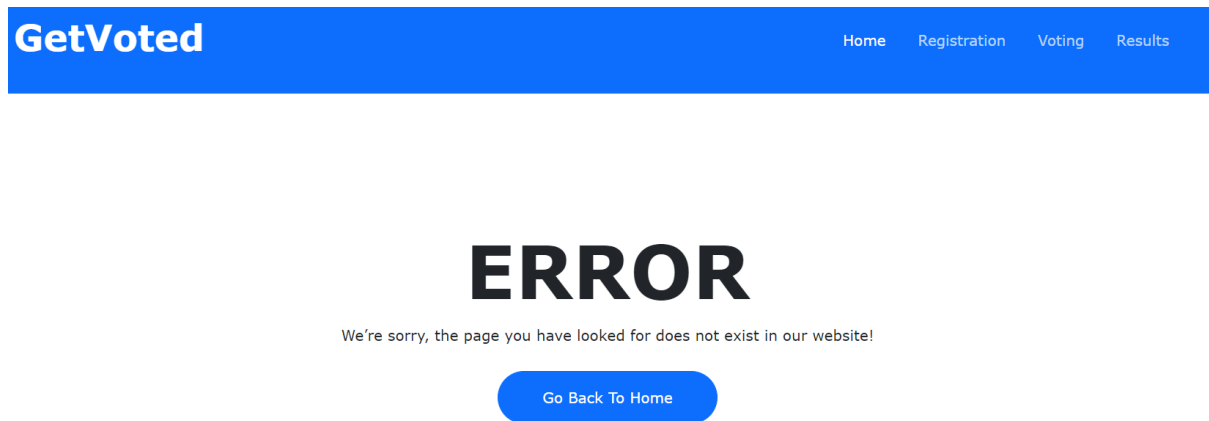**Batyrkhan Batyrbekob**

Everybody hands up   **1**

Results

Total candidates: 3

Id	Candidate	Votes
0	Batyrbek Batyrkhanov	0
1	Batyrzhan Batyrkhanov	0
2	Batyrkhan Batyrbekob	1

Thank you for using our service.

8) Error page

ERROR

We're sorry, the page you have looked for does not exist in our website!

Go Back To Home

6. Financial Analysis

Since we used Ganache's personal blockchain (without integration with the mainnet) and also use the Truffle development environment, we use our own test coin. Future integration of this service will require the creation of your own mainnet and coin.

Finances spent by the admin, each operation requires 0.02 ETH (coin name):

• Start/end voting

• Adding a candidate (for each)

• User verification

Finances spent by the user, each operation requires 0.02 ETH (coin name):

• Registration on the service

• Voting for a candidate

7. Possible improvements

• Implementation of user mail verification

• Implementation of images for candidates

• Document verification for users

• Implementation of multiple voting simultaneously

8. Conclusion

It was a great experience for our group to work in a new area of Blockchain development for us. The project met our expectations and met all our requirements. Each participant was able to contribute to this project. In the future, with the addition of appropriate improvements, the project can be used in various areas and purposes (voting for the selection of new positions in companies, choosing a candidate for the position of the new party chairman).