DeAudit

Decentralized Elections Audit System

E2ED Elections Audit on Blockchain

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PROBLEM - Lack Of Trust In Reported Election Results

SOLUTION - DeAudit Elections Verification System

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DeAudit Elections Verification System

– Universal blockchain-based framework for voting results audit to make elections more democratic and fair

– Make the voting transparent and trustworthy by crowdsourcing the results validation process.

– Core functionality is the audit of protocols from polling stations with the use of observers and volunteers.

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Background

– Today observers from all interested parties are present in all polling locations during elections

– The presence of observers does not increase trust in results

– Suggested solution is the use of DeAudit technology by observers and reporting of results and evidences of possible violations

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How is the voting process monitoring modified by DeAudit?

All the protocols from polling stations, violations and deviations from the established procedure are recorded and uploaded to the Decentralized Auditing System. Making this data public increases transparency and allows for easier auditing.

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Why blockchain and what are the advantages?

- Blockchain makes it impossible to tamper with the records and allows to record all of the actions in a system to a chain of blocks.
- Modern blockchains are based on Proof-of-Stake consensus mechanism, which is eco-friendly, efficient, easy to use and fast.
- Blockchain allows for full public access to information recorded in it.

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Known violations in voting process.

- Obstacles in the voting process for certain groups of voters
- Throwing out undesirable votes
- Wiping of large portions of votes from voting rolls
- Fake ballots & Fake voters

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Which problems does DeAudit solve and how?

- Lack of trust and lack of transparency of the results of voting.
- Bad actors - DeAudit allows to track all of the actions of observers and other participants.
- In case of errors or violations - DeAudit allows to input correct data by creating a complete dataset with absolute trust.

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DeAudit Process: participants, action team, collators, validators.

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Participant

Anyone willing to assist with a Decentralized Voting Audit. To do that one must register as a participant using Voting Audit application.

After that they can become one of the following:

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Action Team A reputable group of people that initiates a DeAudit.

Observer Anyone who initiated new Polling Center Protocol verification or uploaded any documents relevant to the voting process.

Validator Anyone who is registered as a validator in the DeAudit system and performs this function.

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Rewards and Slashing

DeAudit app has a built-in protection system against spam attacks and malicious actors that is standard to blockchain systems. It is based on monetary safety deposits that are made by all the participants.

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Rewards – for honest participants in DeAudit the rewards are paid out in Democracy Tokens.

Observer – when a Validator or a Collator are not supported by the majority of Validators, their stakes will be slashed resulting in loss of the stake. This is mainly a spam protection mechanism which also ensures that both Validators and Collators do their jobs properly.

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DeAudit Results – the algorithm allows you to get primary data from polling stations with a high level of confidence, confirmed by independent validators. Thus, the formation of general results has a high degree of transparency and public confidence, which significantly increases the democratic value of the voting procedure.

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Technology

https://github.com/radianceteam/voting-audit

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Thank you!

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