



KIET Group of Institutions, Ghaziabad

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Project Presentation (KCS 753) E-Voting System using Blockchain (PCS 24-23)

Project Guide : Mr. Akash Goel (Asst. Prof.)

Project Members

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Problem Statement

- The manual voting takes long time as there is a lot of paperwork and then human effort also for the counting of votes.
- Manual Voting consumes lot of time for the complete process.
- Online Voting Systems are prone to tampering of votes and it lacks transparency.
- We need an Online Voting System that tackles all these problems.

Objectives

- **Provide secure and transparent platform for voting**
- **Prevent tampering of votes**
- **Ensuring results are accurate**
- **You can vote anytime/anywhere (During Pandemics like COVID-19 where it's impossible to hold elections physically).**
- **More reliable process**

Technology Used

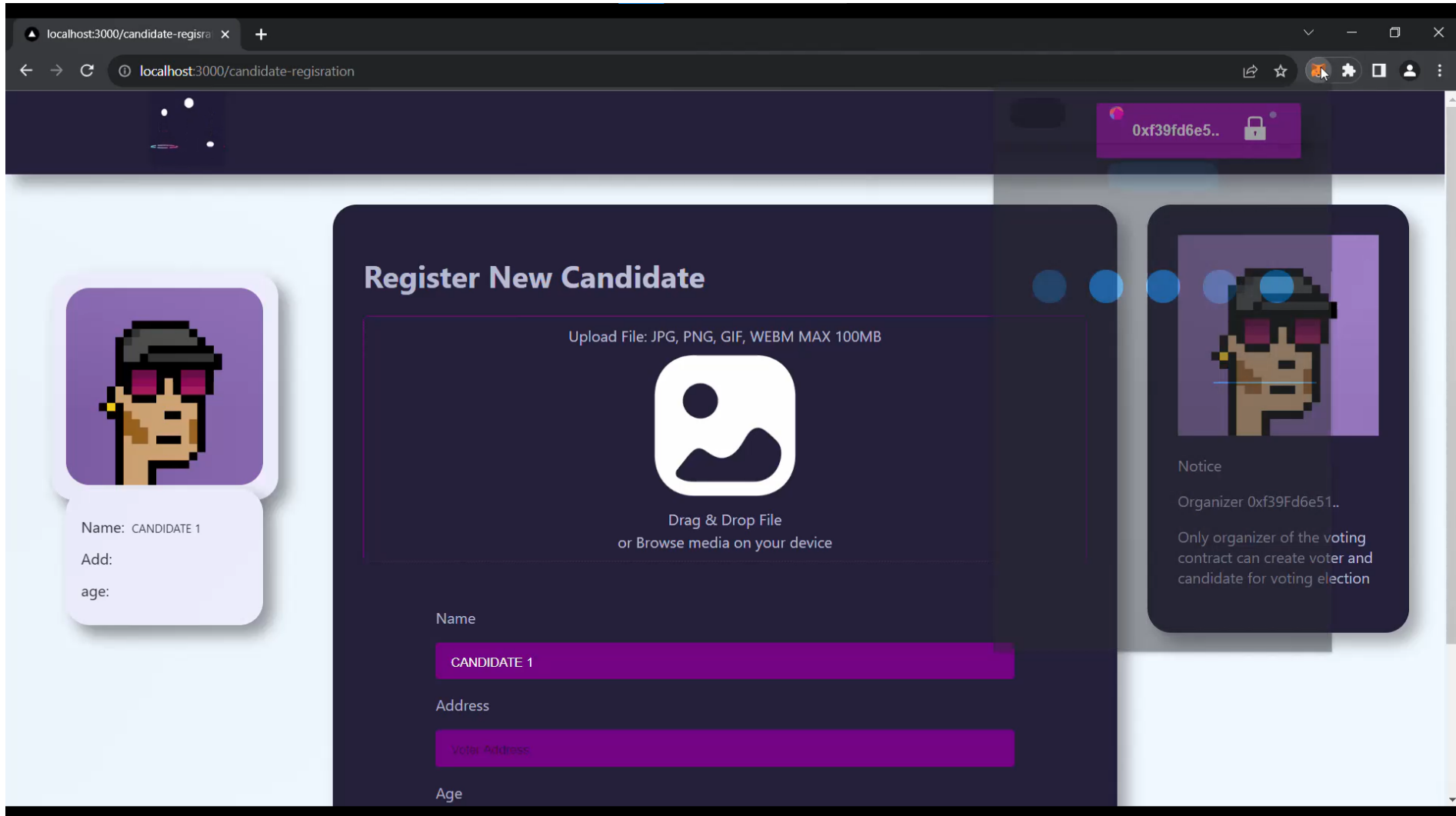
- Blockchain – Ethereum platform
- Hardhat
- Solidity
- MetaMask
- React.js
- Node.js

Patent Status

- Submitted
- Approved by HOD
- Under processing

						DIRECTOR	PENDING	category
2	21331	AKASH GOEL	CS	a.goel54@yahoo.com	Online Voting System using Blockchain	VIEW	—	VIEW
						<u>LEVEL</u>	<u>Status</u>	<u>Remark</u>
						HOD	APPROVED	Ok
						RND	PENDING	—

Project Status - 90%



The screenshot shows a web browser at localhost:3000/candidate-registration. The page has a dark purple header with a lock icon and the text '0xf39fd6e5..'. The main content area is light blue. On the left, there is a profile card for 'CANDIDATE 1' with a pixel art avatar and fields for 'Add:' and 'age:'. In the center, a dark purple card titled 'Register New Candidate' features a file upload section with a camera icon and the text 'Upload File: JPG, PNG, GIF, WEBM MAX 100MB' and 'Drag & Drop File or Browse media on your device'. Below this are input fields for 'Name' (containing 'CANDIDATE 1'), 'Address' (containing 'Voter Address'), and 'Age'. On the right, another profile card for 'Organizer 0xf39fd6e51..' shows a pixel art avatar and a 'Notice' stating: 'Only organizer of the voting contract can create voter and candidate for voting election'.

localhost:3000/candidate-registra x +

localhost:3000/candidate-registration

0xf39fd6e5..

Register New Candidate

Upload File: JPG, PNG, GIF, WEBM MAX 100MB

Drag & Drop File
or Browse media on your device

Name

CANDIDATE 1

Address

Voter Address

Age

Name: CANDIDATE 1

Add:

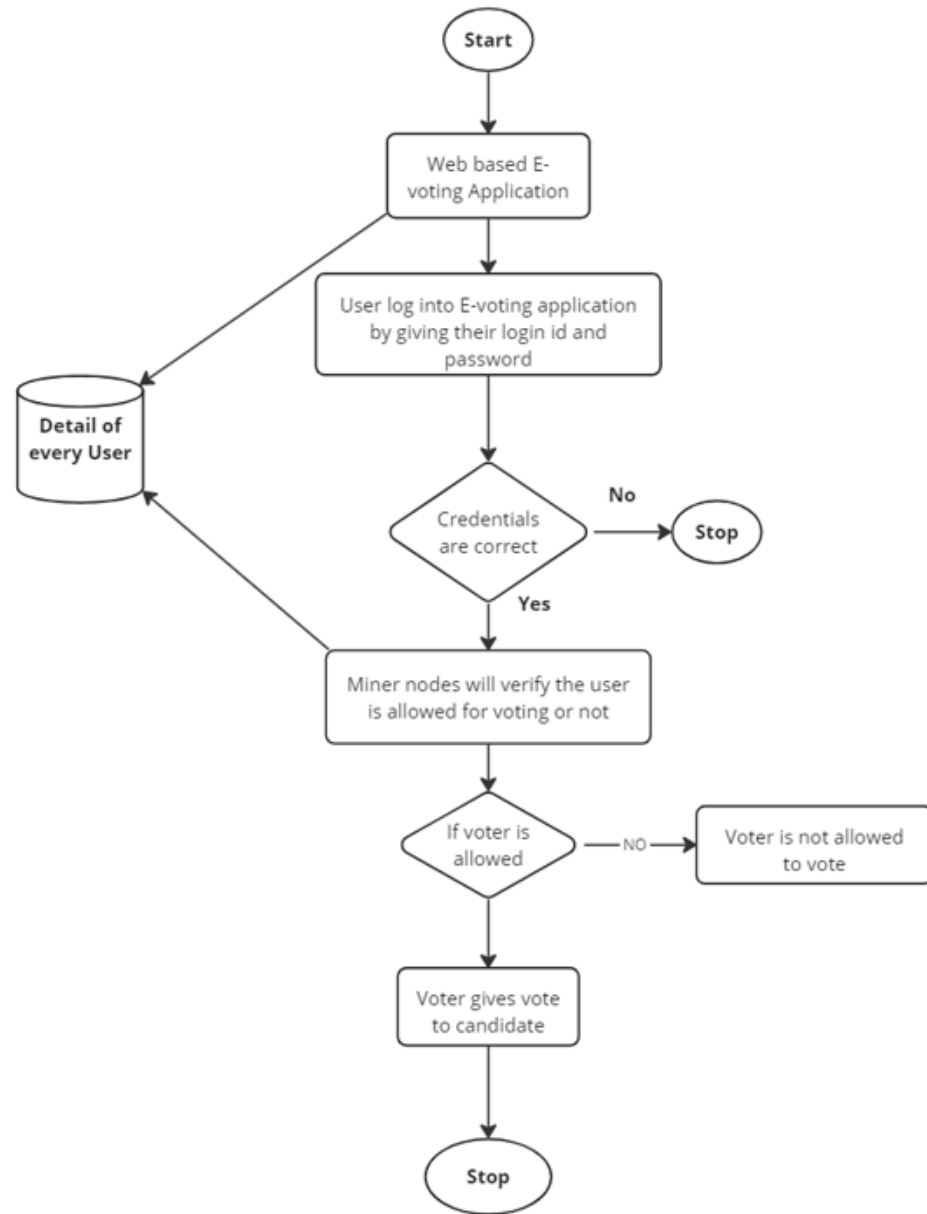
age:

Notice

Organizer 0xf39fd6e51..

Only organizer of the voting contract can create voter and candidate for voting election

Flow of Application



Research Paper Status

Working on Research Paper.

References

- 1. https://www.researchgate.net/publication/325096329_Secure_Digital_Voting_System_Based_on_Blockchain_Technology
- 2. https://www.researchgate.net/publication/331730251_Blockchain_And_The_Future_of_the_Internet_A_Comprehensive_Review
- 3. https://www.usenix.org/system/files/soups2022-poster61_ghesmati_abstract_final.pdf
- 4. <https://www.sciencedirect.com/science/article/pii/S0268401219302014>