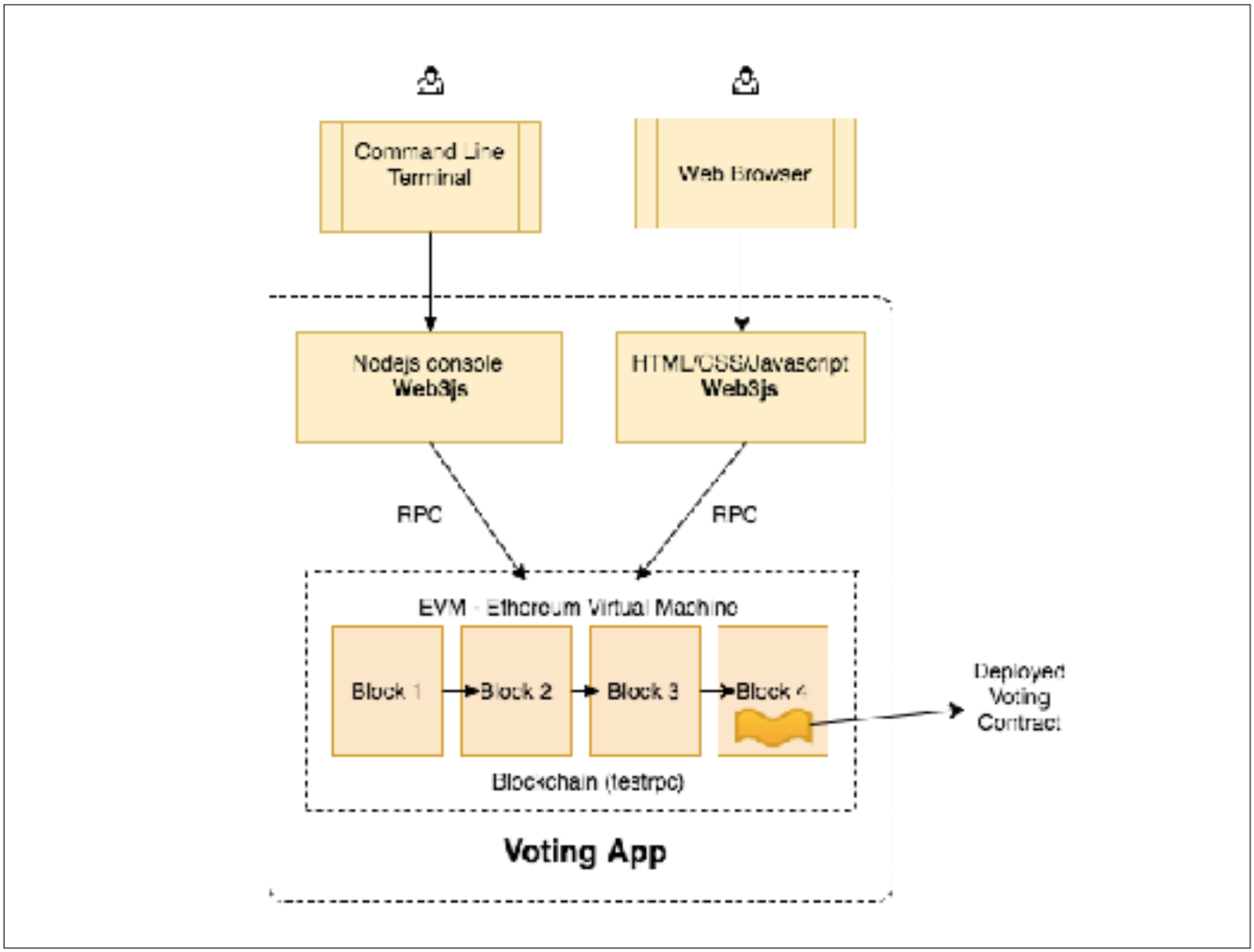


MyPoll

Shaswat Satapathy
Tapaswin padhy
Soumya Ranjan Patro
Shivani Singh

IIIT Bhubaneswar, Odisha

EXECUTIVE SUMMARY

Objective

"The best electoral system is the one that straightforwardly and most accurately reflects the preferences of voters," the legal scholar Donald Horowitz noted in his 2003 seminal essay on electoral systems. Voting in bypolls for Ajmer and Alwar Lok Sabha constituencies in Rajasthan was held peacefully on Feb 1, recording polling percentages of 65 percent and 62 percent respectively. There are numerous reasons for this.

- Some of the people between the age 18-22 are living away from their home to pursuit their higher/professional studies.
- Some people beyond that age group (in fact a large number) are working in metro cities.
- Difficult for aged people to actually go to the booth
- Fear of being attacked by suppressive groups, etc.

Goals

1. Set up the development environment.
2. Write a contract, compiling it and deploying it in our development environment.
3. Interact with the contract on the blockchain through a nodejs console.
4. Interact with the contract through a simple web app.

Solution

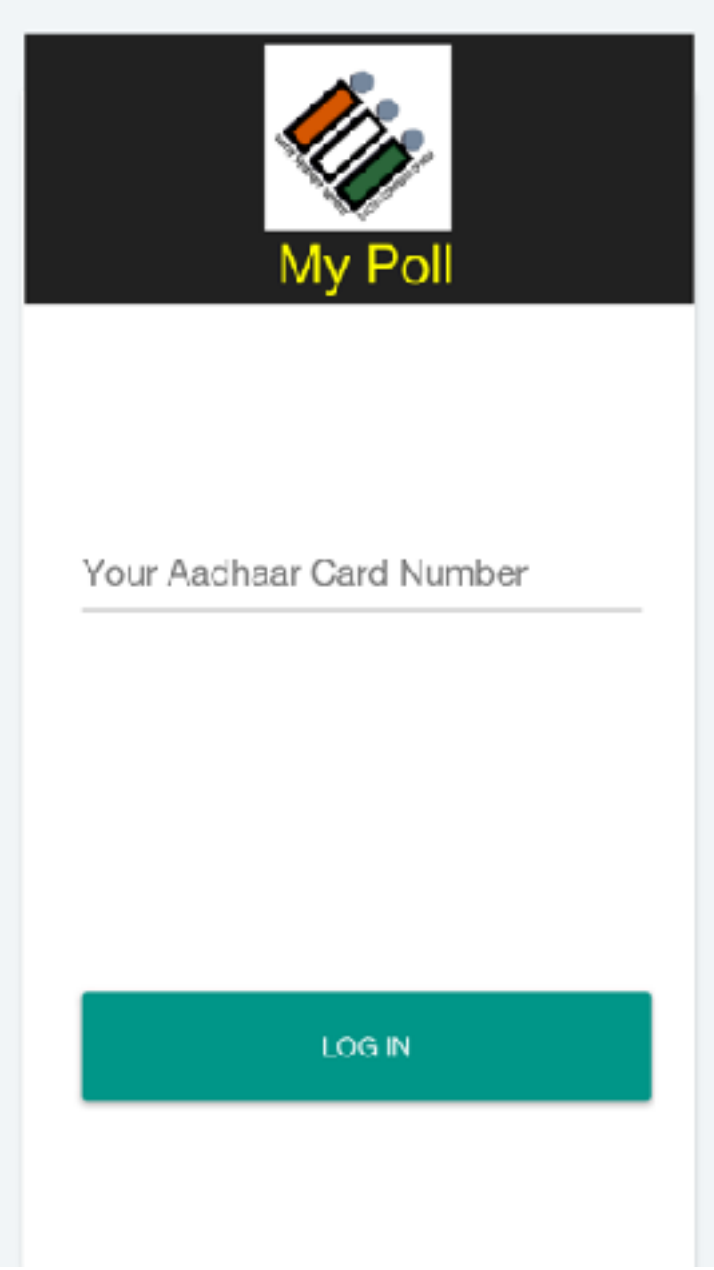
As a developer, the best way to design a new technology is by diving in and building toy applications. In this project, we'll be building a simple a Voting application using the concept of blockchain and computer vision (face identification and recognition).

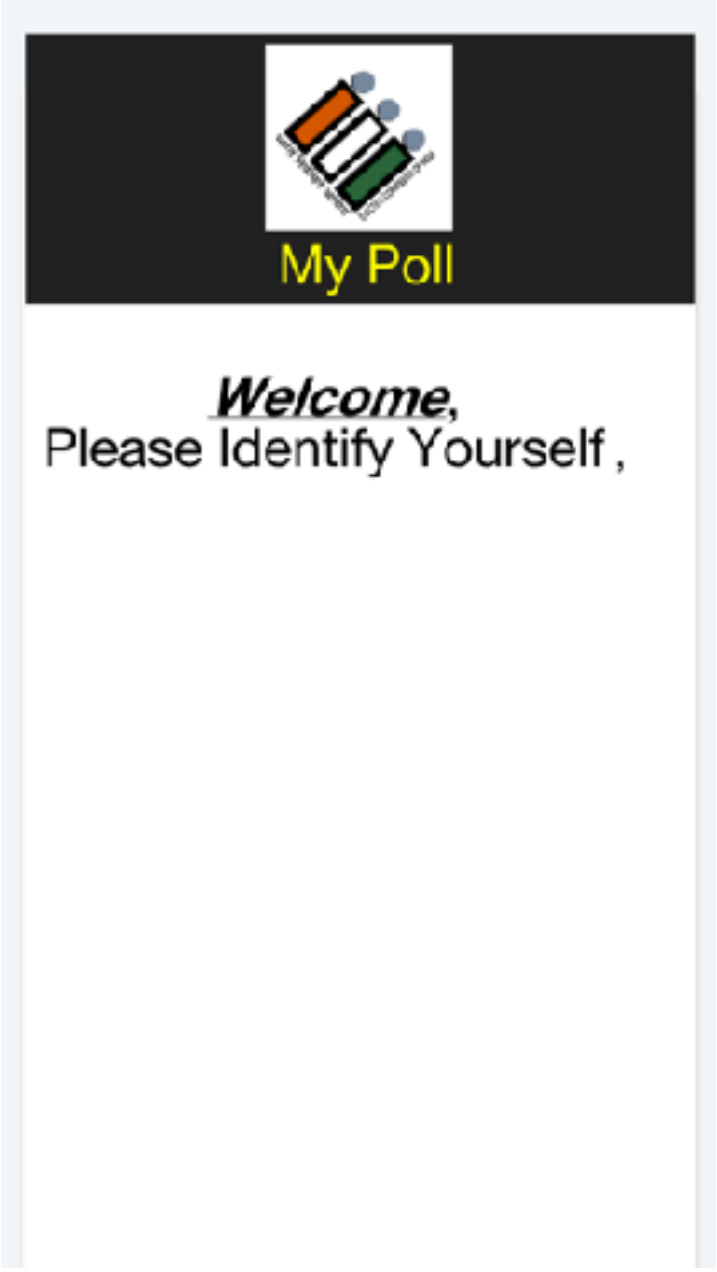
Project Outline

Th app we are proposing is distributed, i.e, no centralised server has the access to the data. Hence, this voting app is un-hackable. On the voting day, a voter has access to the app for 15 min. and if in any case he fails to vote in that 15 min. he gets a last chance after sometime. The voter can be anywhere across the Indian subcontinent. He first needs to verify his/her identity on the basis of a facial scan and Aadhaar card number. Then the party's agendas pops out to which a voter can refer to before giving a vote. The time slots

given to the voters would be decentralised, dynamic and random, leaving no scope for suppression by powerful groups. The app would work on 4 stages:

- Data is generated. This is the voters facial identity, retina scan, his adhaar number, etc.
- The data is encrypted and given an ID that is stored on the voters blockchain. This data is sent to the cloud storage.
- Data is requested by the election commissioner. The ID on the blockchain is used to retrieve the encrypted data.
- The data is decrypted and the vote is counted accordingly.





12:30

Voter ID 98787

10:59
12th March 2016

Name: Sweta
Age :23
Voted :No

106 Meeanee Rd Napier, Hawkes Bay, 4123, Rajasthan

Vote NOW

12:30

Resolve Report

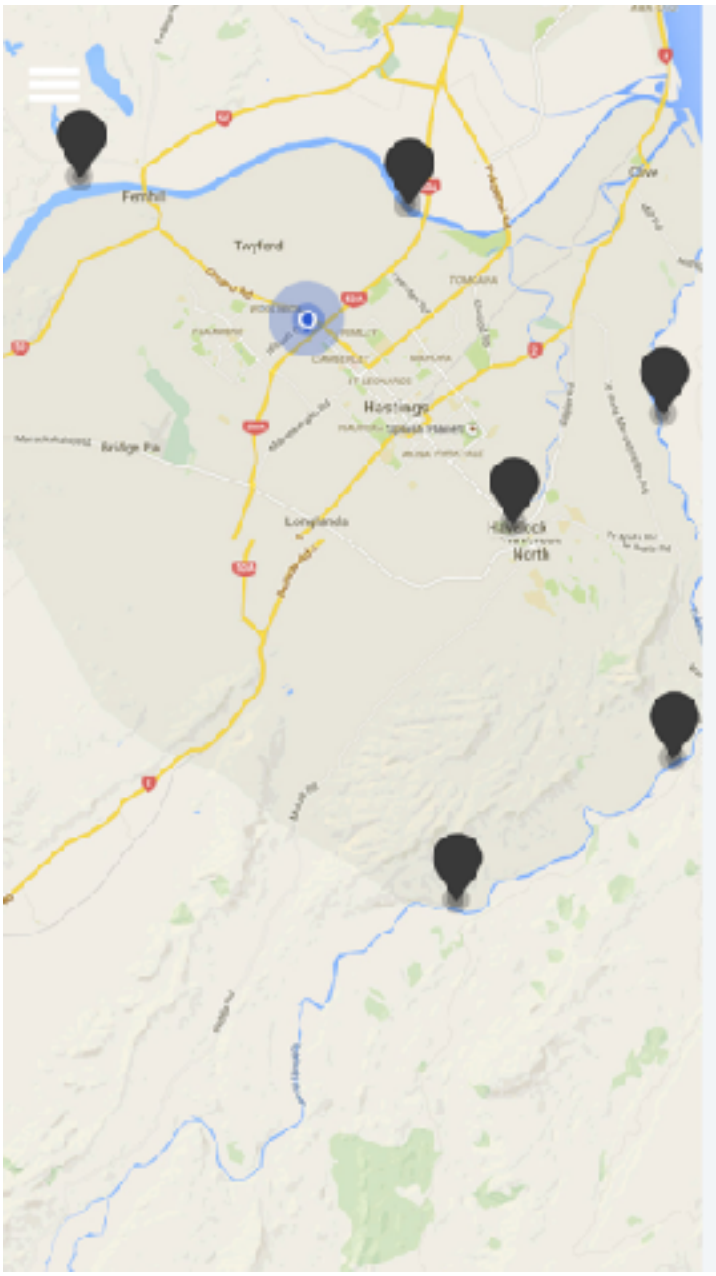
Issues while voting

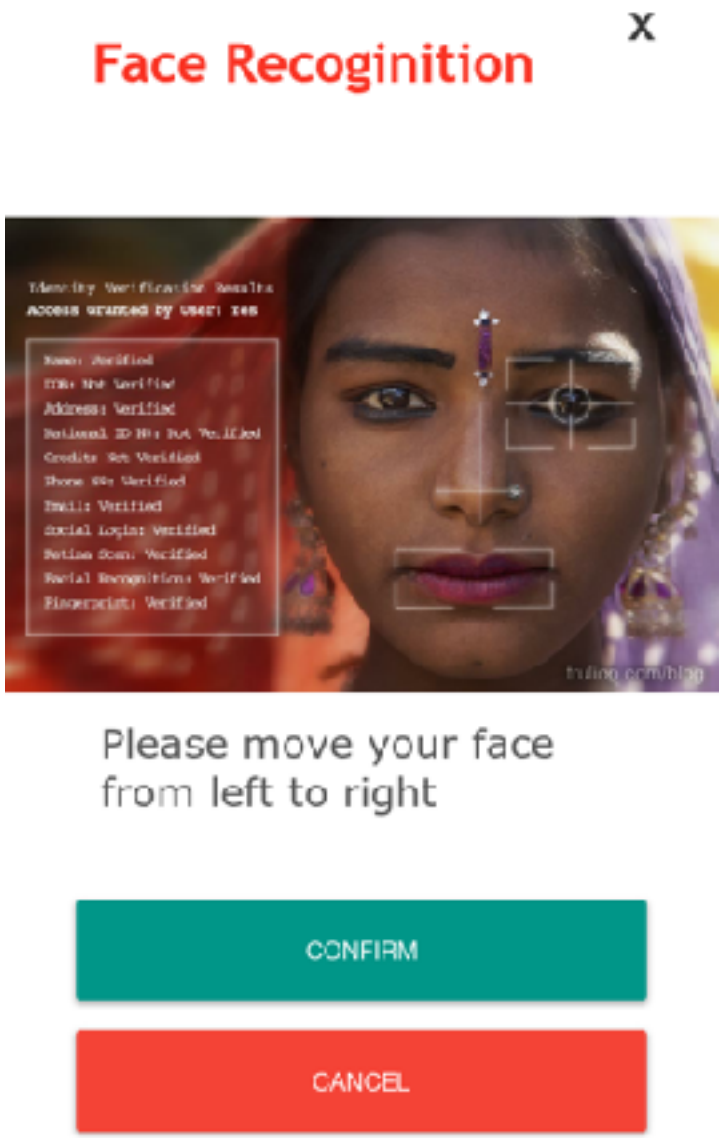
Are you sure this report has been resolved?

By selecting 'confirm' the report will be removed off the admin and public maps and the reporter will be notified.

CONFIRM

CANCEL





These are some of the prototype of the app we are proposing.

x

Tapaswin Padhy

Election commissioner

Tapaswin Padhy

12:30

Voter detail's

Details

First name

Swta

Type something

Last name

Sargent

Mobile number

+91 987878768

Aadhar no

9898 5656 6562 9859

Notifications

Allow push notifications

These are the information we have

Contact us for further information and support:

support@election.gov.in