



Department of Computer Science & Engineering

UE17CS355 - Web Tech II Laboratory

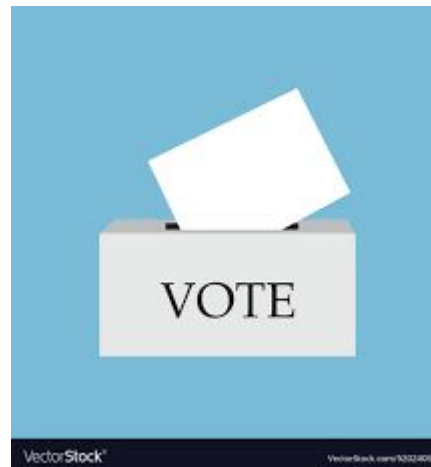
# Project Evaluation

Project Title : Voting system using Blockchain  
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## Project Description

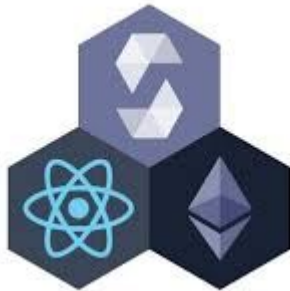
- All-rounded polling application.
- Uses blockchain to validate the user and check for discrepancies.
- Can monitor polling in real-time.





## Technologies Used

- **FRONTEND:** ReactJS
- **BACKEND:** Flask, Web3.py
- **INTELLIGENT FUNCTIONALITIES:** Solidity, Ganache



# Flask



## Techniques Implemented

The 2 techniques implemented here are:

- Rest API
  - Values to Vote
  - Cast Votes
  - Update Votes
- Periodic Refresh
  - Used to update votes every 30 seconds or on refresh







## Intelligent Functionality

- Blockchain has smart contracts(a piece of program)
  - Smart contracts are used to verify credentials
  - Smart contracts are typically written on a language called Solidity.
- Interact with smart contracts on blockchain using web3.py
- To deploy and interact with the blockchain, one has to pay cryptocurrency.

### Advantages

- Highly secure and reliable
- Transparency
- No central authority

### Disadvantages

- Scalability
- Difficult to fix bugs and make updates





Thank You

