



Department of Computer Science & Engineering

UE17CS355 - Web Tech II Laboratory

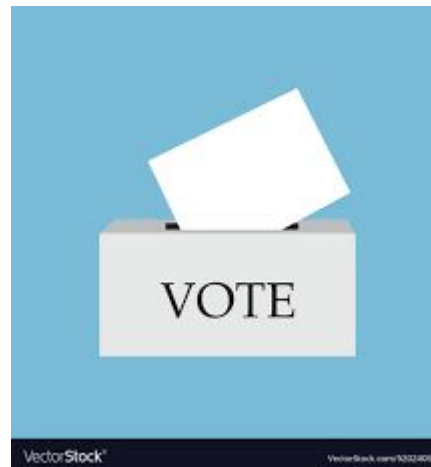
Project Evaluation

Project Title : Voting system using Blockchain
Project Team : PES1201700050-Akhilarka Jayanthi
PES1201700659-Kevin Arulraj
PES1201701452-Atul Anand Gopalakrishnan



Project Description

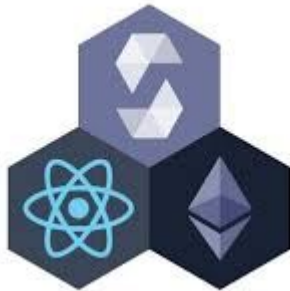
- All-rounded polling application.
- Uses blockchain to validate the user and check for discrepancies.
- Can monitor polling in real-time.





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

