Why do we need a Smart EVM over traditional electronic voting machine?

"We have only one motive that is free and fair election"

Smart EVM

After Every few decades there is some modification in the voting machine. The journey of voting from paper ballot to traditional Electronic Voting Machine till now is having the required qualities but still over the years, there have been many issues related to traditional Electronic Voting Machine, the election commission of India has taken number of initiative to make it more secure voting systems. But still they faced the problem of misleading voting result and fake voting and illegal activities at polling booth

Today the technologies are so advanced that it makes sense to put the latest technologies in the voting system So as the Future Engineer we should able to solve the problem which is face by our society. Therefore, we decided to select the project Smart EVM to help the society. Thus all this cases of fake voting can Be stopped by using our project smart EVM.

This project proposes and implements a simple and secured method of polling vote by using biometric sensor and cloud technology. The improvisations aim at increasing the flexibility, security, reliability, scalability of the model and provide less time to announce the result. The fingerprint data of the citizen was already stored in the government database. Hence this project provides a best solution to avoid the false and fake voting. And it also helps to determine the proper result. The design implement in the Smart EVM is portable flexible and with minimum Power consumption.
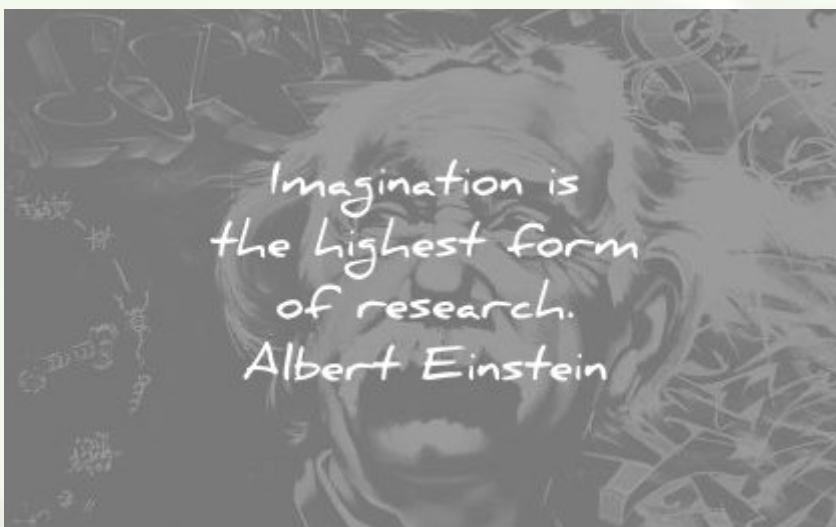
Process

Aadhaar has world's largest biometric ID system so we use aadhar details for authentications in Smart EVM. let's assume you are the first time voter and your details does not exist in voter database so then we can fetch your data from aadhar database to voter database and then you are ready of vote now to confirm you are the authentic person or not we will use your fingerprint details and if all the security and authentication is over and you are eligible then only you will able to vote the major role play by the cloud technology because the all the data will be present at remote database from voter details to result and it is only access to the admin of election commission of India due to this real time improvisation in the voting process can be done. The problem we will face while implementing the idea is that interfacing the

multiple Devices and performing the required task using algorithm in the framework and designing the perfect user interfaced.

Some key feature of the Smart EVM

Uses biometric detail for authentication
Voter database can update using aadhar database
Simplify process of voting
Due to automation it reduce paperwork and human resources
Result in minimum time
High level of encryption
It provide proper and authentic information to voter

In future to make it more secure we can add some feature like Face detection, Iris scanner, palm scanner and many more authenticated systems. The Smart EVM will play major role in building the trust among the citizen of India by providing authentic result at minimum time and with the help of cloud technology services we can make the voting process more secure. This project can be implemented in various government systems where bio-metric authentication is required like aero ports, passport offices, banking systems etc. so this project is not only dealing with Voting machine but we can implement this project in several government authentication processes.

Imagination is the highest form of research. Albert Einstein

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