

EVM DESIGN

FUNCTIONAL SPECIFICATION

1. Coercion Freedom

Person shouldn't be forced by someone else whom he or she has to vote for at the time of voting.

2. Secrecy

The vote of the person must be kept secret in the EVM. There must be no sources whatsoever to verify who the person has voted for, once he/she exits the polling booth.

3. Non -Repudiation

Voting machine should provide proof of the integrity and origin of data. How it's getting the data(that someone has actually voted : no data generation) and that it is counting it correctly(no data eviction) .

4. Verifiability, maintaining anonymity

The person himself must be able to verify that what is being recorded is actually what he has voted and the vote once recorded must not have a tag of who's vote it is .

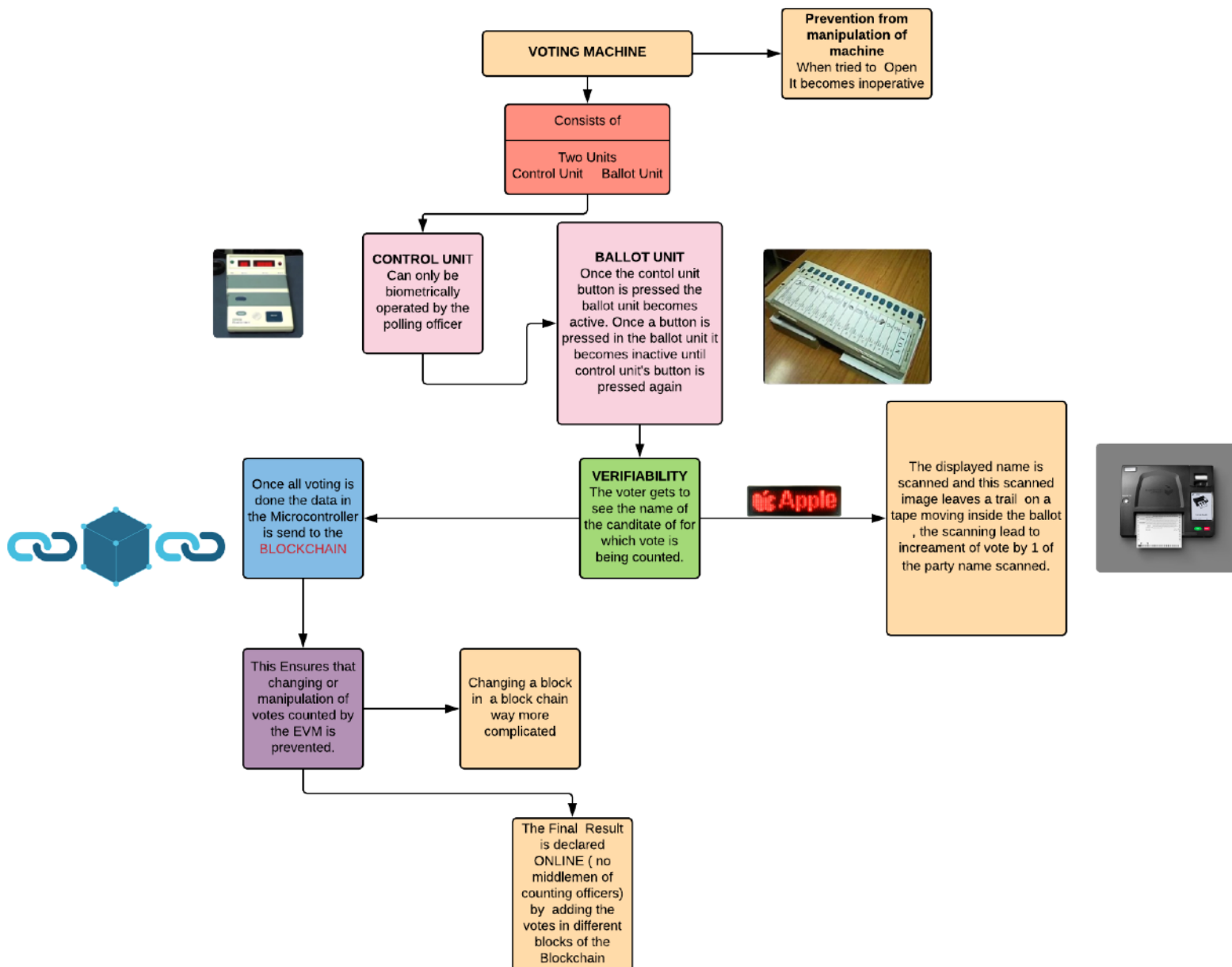
5. Security of Vote

The vote once made should be immutable in all forms and it with its value same as all the other votes. Value of a vote must be un-attenuable in its value.

6. Prevent Info Leakage

It should not leak the information it has recorded before a fixed date.

FUNCTIONAL DESIGN



The voter is all alone to vote and his actions aren't recorded so his voting isn't stored in any manner nor his name/identity is attached to his vote which preserves the anonymity of the voter.

Sending votes counted by the EVM to the blockchain prevents unnecessary involvement of Counting officers which also prevents the corrupt authorities from manipulating the votes.

The tape can be used to verify if the counting is done properly.