

# **Abstract (Hack36 2k20)**

## **Team:-EnigmaHaxx**

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### **Central Theme: - Security and Surveillance**

**Problem to be solved:** - Maintaining transparency and security while transferring assets (money or important data) from top level to bottom level in a hierarchical organization/system thus ensuring that all intended assets reach bottom-most level without leakage.

A Real Life Problem - In 1985 Rajiv Gandhi said that for every 1 rupee allotted to any project, only 15 paisa reaches to the ground level. Our Project will solve this issue seamlessly.

### **How we are able to solve this:-**

- We are creating smart contract in Solidity which will handle public money or valuable assets  
And will not allow to transfer assets into their own account.
- For mimicking real world architect we are deploying contracts in Hierarchical format just like Tree (data structure).
- For Hierarchical format we are deploying self-replicated contract.
- Any organization can create their root node and can create its child organization between which  
They are able to transfer valuable assets.
- Only through leaf nodes valuable assets can be transferred into private organization.  
There we can either through public opinion or through our own survey can decide completion of project and after that finalize request to transfer valuable assets to private Individual completing our basic aim.
- Between any parent-child organization only manager of either organization is able to request  
Assets transfer between them.
- Every time before deploying organization or node or contract we are asking whether this node is leaf node or lowest level organization. So that only this kind of organization is capable to transfer assets to private individual and we will get to know which organization is more inclined towards fraudulence.

## Technology Stack:-

- Ethereum, Solidity, Matic, ERC20 token.
- Node.js, React.js, Web3.js, Next.js
- OrbitDB (decentralized database based on IPFS)

## Flow Chart

