Property Records And Registration Using Blockchain

Batch -17
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Abstract:

Property records and registarion is a simple Dapp based on the ethereum blockchain.It is use for buying and selling property.the entire process is transparent and the transaction happens between the the two clients without any intermediarie

Problem Statement :

Digitaliztion the property record and registration system from paper to blockchain.

Domain / Technology / Hardware & Software :

1. **Domain**: Distrubuted App (Blockchain)
2. **Software**:
   a. **Backend** : solidity 0.6.0
   b. **Frontend:**
       Framework:Angular 7.1.0
   c. **Tools**:
       Ganache 2.3.0 linux -x86_64
       MetaMask chrome /firefox 7.5.3,
       Truffle 4.0.1
   d.**Platform:**
       Distributor ID: Ubuntu
       Description: Ubuntu 16.04.6 LTS
       Release: 16.04
       Codename: xenial
3. **Hardware:**
       Processor : intel core i5
       RAM :8GB

Rationale and Significance :

Rationale

In the existing solution,current problem is
1. Liable to be challenged in Court
2. There could be multiple parties claiming for ownership
3 .Verification process is cumbersome/ time consuming
4. Many broker inolved in between to registration.

 Significance

1. Increase the security.
2. It will take less time to verify the property and registration.
3. transaction happens between the the two client without any intermediate

Approach/methodology adopted:

1. Property records and registarion is a simple Dapp based on the ethereum blockchain. 2. It can be used as an alternative to the existing approach. Here the land owner registers 3. the land details along with the land value by providing necessary proofs. Only a 4. registrar or government authority who is registered as the superadmin can do the registration process.
5. Lands coming under a particular area can register to the system only through the superadmin assigned to that area.
6. Smartcontract has been written in such a way that the owner has to transfer his full asset to the buyer and no partial transaction of the asset is allowed.
7. Even though the registration process requires a government authority, the entire process is transparent and the transaction happens between the the two clients without any intermediarie

Significant outcomes achieved:

1 . To reduce the time for register ,selling and buying property without any using third parti 2. Remove the broker party and we don't need to pay extra charge to any broker.
3. Convert centralize system to decentralize system

Suggestions for further work :

1) For future enhancement one more feature can be added like property on rent using this project structure.