

**MINI PROJECT REPORT**

**ON**

**"CHARITY DONATIONS"**

**By**

Kavan Dave(180110116008)

Ayush Kmbhani(180110116020)

**under the guidance of**

Prof. Deven Gol

(Information Technology Department)



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## **INTRODUCTION**

### **1. Blockchain**

- Blockchain technology is most simply defined as a decentralized, distributed ledger that records the provenance of a digital asset.
- Blockchain is an especially promising and revolutionary technology because it helps reduce risk, stamps out fraud and brings transparency in a scalable way for myriad uses.

### **2. Smart contract**

- A smart contract is a computer program or a transaction protocol which is intended to automatically execute, control or document legally relevant events and actions according to the terms of a contract or an agreement.

### **3. Solidity**

- is an object-oriented programming language for writing smart contracts. It is used for implementing smart contracts on various blockchain platforms, most notably, Ethereum.

## **ABSTRACT**

It is highly common in society to receive anonymous donations for various purposes. Financial resources with centralized leadership are far easily prone to corruption. There is a need to decentralize the distribution of resources. This can be achieved using blockchain and smart contracts. It is a transparent, decentralized and distributed technology which operates without a central control organ. The main purpose of this system is to eliminate the corruption in organizations by means of which, black money is legalized, or resources are manhandled. The system will be decentralized, not owned or operated by a single person or organization but rather shared among users. We have developed a blockchain and smart contract-based Donation System capable of decentralizing the resources used by a given organization. The user may take initiative to collect funds for valid means and others will be able to donate money in the organization. This resource can only be used by the organization after getting consent from the users in network. This makes people the actual owners of the resources and brings transparency to the entire process of charity system. Thus, making wrong and illegal use of money donated to organizations will be minimized to a great extent and thereby, corruption will be reduced with the use of this system, solving problems in many nations.

## TOOLS AND TECHNOLOGIES USE FOR IMPLEMENTATION

### TOOLS

1. Remix - Ethereum IDE(For creating Smart Contract)
2. Meta Mask Wallet( Metamask is a crypto wallet- it allows you to store and transact Ethereum or any other Ethereum-based (ERC- 20) tokens.)
3. VSC - IDE (For creating Front-end using)

### TECHNOLOGIES

1. HTML
2. CSS
3. JAVASCRIPT
4. SOLIDITY

### CODE AND DEMO

**Smart contract:-**

```
1  pragma solidity ^0.6.8;
2
3  contract Donation{
4      int runid;
5      int DonationAmount;
6      struct Donor{
7
8          int id;
9          string name;
10         string number;
11         int amount;
12     }
13
14     Donor []dns;
15     constructor() public
16     {
17         DonationAmount = 0;
18         runid = 0;
19     }
20
21     function addDonor(
22         string memory name,
23         string memory number, |
24         int amount
25     ) public{
26         Donor memory e
27         =Donor(runid,
28             name,
29             number,
30             amount);
31         dns.push(e);
32         runid = runid + 1;
33         DonationAmount = DonationAmount + amount;
34     }
```

```
36  function getDonor(  
37      int id  
38  ) public view returns(  
39      string memory,  
40      string memory,  
41      int){  
42      uint i;  
43      for(i=0;i<dns.length;i++)  
44      {  
45          Donor memory e  
46              = dns[i];  
47  
48  
49          if(e.id==id)  
50          {  
51              return(e.name,  
52                  e.number,  
53                  e.amount);  
54          }  
55      }  
56  
57      return("Not Found",  
58          "Not Found",  
59          0);  
60  }  
61  function getTotalCollection() view public returns(int)  
62  {  
63      return DonationAmount;  
64  }  
65  
66  function totalno() view public returns(uint256)  
67  {  
68      return dns.length;  
69  }  
70  
71 }
```

## Charity Donation

Donation Collected : 11

Donate

## Charity Donation

**Name:** ayush

**Number:** 9988776655

**Amount:** 5

**Total Records:** 4

Show Records

## **CONCLUSION**

To conclude, this application can regain trust in people by avoiding potential cases of fraud and misappropriation of charitable funds as well as economic, financial and social repercussions. The use of the Blockchain technology and Smart contract together in the charity sector represents another dimension, an improvement that has nothing to do with what has been done so far. Money has always been collected and used in humanitarian funds, but today this kind of applications can be done in a better, secure, efficient and transparent way.