MINI PROJECT REPORT

ON

"CHARITY DONATIONS"

By

Kavan Dave(180110116008)

Ayush Kmbhani(180110116020)

under the guidance of

Prof. Deven Gol

(Information Technology Department)





TABLE OF CONTENTS

- 1. INTRODUCTION
- 2. ABSTRACT
- 3. TOOLS AND LANGUAGE USE FOR IMPLEMENTATION
- 4. CODE AND SCREENSHOT OF DEMO
- 5. CONCLUSION

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)

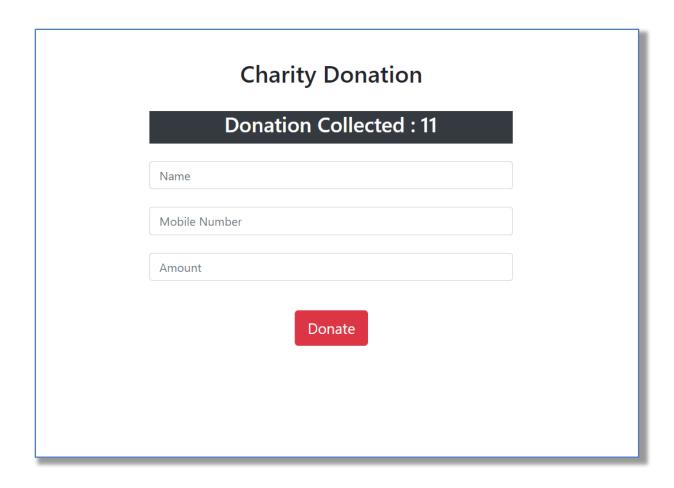
TECHNOLOGIES

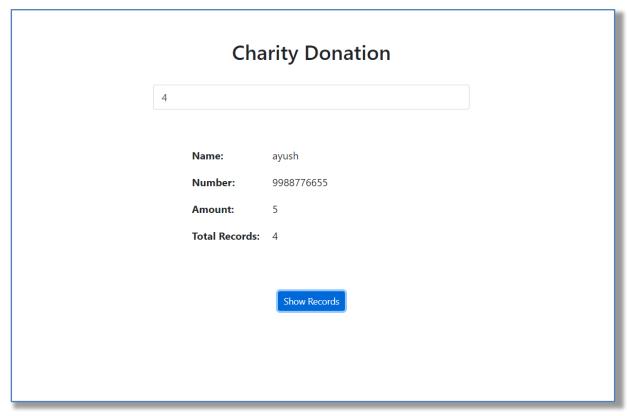
- 1. HTML
- 2. CSS
- 3. JAVASCRIPT
- 4. SOLIDITY

CODE AND DEMO

Smart contract:-

```
pragma solidity ^0.6.8;
contract Donation{
   int DonationAmount;
   struct Donor{
       string name;
        string number;
        int amount;
  Donor []dns;
constructor() public
         DonationAmount = 0;
   function addDonor(
    string memory name,
string memory number,
     int amount
   ) public{
       Donor memory e
          =Donor(runid,
                     name,
                     number,
                      amount);
        dns.push(e);
       runid = runid + 1;
DonationAmount = DonationAmount + amount;
```





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 done it in better, secure, efficient and in transparent way.