**Software Engineering-II**

**Project**

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**Title: HELPING HANDS - NGO DONATION APPLICATION**

**OBJECTIVE:**

The objective of the project is to provide a platform for both ngo’s and donors easy access to each other to satisfy the requirement.

Ngos can have their own user id and password as well as users also has to create account to access the application.

After creating account ngo’s can create there projects accordingly which will be seen at users side, so user can donate if they are interested in particular project.

This application will be most helpful in such pandemic where the needy will be easily benefited through ngo’s.

**Background :**

Due to the pandemic situation, it is not possible for various NGOs to conduct the different events for their organization. So, this leads to the gap between Donors and NGOs . To overcome this situation, we decide to build an virtual platform for various

NGOs as well as Donors to organize their events and raise the funds , goodies for the needy.NOT only for the donors to donates , but also to a platform for the the members of NGO’s to show their products theat they have produced , donors can also help them by buying their products .

**Hardware requirements:**

Minimum ram: 4GB or above

Hard disk:80 GB

Processor:64-bit, four-core, 2.5 GHz minimum per core

**Software Requirements :**

* ReactJS
* NodeJS
* Express
* MongoDB
* Solidity
* Ethereum
* Truffle
* javascript

**Features :**

Helping hands is a Blockchain-based donation app running on a decentralized system in which donors can view the projects of NGOs and donate to the registered NGOs.The app removes the control of the central authority. All the Transaction history is maintained in a blockchain network. Blockchain makes the app more secure, trustable and fast.

It will help in increasing the involvement of more people in the NGOs as the task will be digitalized and so would not require much effort.The use of it made donors know where their money is used which probably increases the percentage of donation in India.

Application will be having two portals:

**A] For Donors:**

* Donor who is willing to donate have to register through an app if he/she wants to donate to an NGO.
* After successfully sign-up and login, the donor can access his dashboard.
* He/she can view all the projects which are raised by NGOs along with the detailed information like the purpose of the project,amount required as well as wallet address.
* Donors can select the NGO to donate the amount by blockchain based secure transaction.
* For selected projects the donor can see all the donorsAlong with that, the donor can see all his/her donation history to track the details.

**B] For NGOs :**

* NGO's can register with their details etc so that any person willing to donate can contact them.
* NGO's can raise projects provided with Amount, wallet address and a short description or purpose.
* They can view all the projects raised by them.
* NGO can track the amount donated to the particular project and can see all the amounts that will be donated across the network.
* Once a Project is raised donors can easily donate to the project raised.
* NGO's can create events on the website whenever they are organizing one for their NGO and it would be a good platform for them to raise funds for their event.