

**Major-Project Report**

**On**

**Stiften Donation Application**

**Submitted as partial fulfillment for the award of**

**BACHELOR OF TECHNOLOGY**

**DEGREE**

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**in**

**COMPUTER SCIENCE & INFORMATION  
TECHNOLOGY**

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## **CERTIFICATE**

This is to certify that Project Report entitled “ Stiften Donation Application” which is submitted by AMAN SHARMA for the fulfillment of the requirement for the MAJOR PROJECT in Department of Computer Engineering and Information Technology of ABES ENGINEERING COLLEGE is a record of the candidate’s own work carried out by him under my supervision.

**Supervisor**

**Date**

# STUDENT'S DECLARATION

I hereby declare that the work being presented in this report entitled “**Stiften Donation Application**” is an authentic record of my own work carried out under the supervision of Mr. **Ashwin Perti (Assistant Professor)**, Mr. **Shashank Shekhar (Assistant Professor)**, Computer Science.

The matter embodied in this report has not been submitted by us for the award of any other degree.

**Date: 02/12/2021**

**Name: Aman Sharma**  
**Roll No: 1803211007**  
**Department: CS**

This is to certify that the above statement made by the candidate(s) is correct to the best of my knowledge.

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I acknowledge the motivation of the Department of Computer Science and ABES Engineering College for providing me with this opportunity to work on this project.

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## ABSTRACT

The purpose of the project entitled as “**STIFTEN DONATION APPLICATION**” is to computerize the Donation System of India to develop software which is user friendly simple, fast, and cost effective. It is a donation dapp (decentralised) that can accept payment done through both medium that is crypto currency and normal indian currency. It is made to be ease the work for the good donors, they won't be needed to find the organisation from different corners of the world. Instead they will have the list of organisation from all the places. It will help in gaining trust of customers (donors). It will be supporting donations in both Indian currency via Razorpay payment gateway and in crypto currency both.

## Chapter 1

### INTRODUCTION

We are making a donation Dapp based on react and solidity. It will help in gaining trust of customers (donors). It will be supporting donations in both Indian currency via Razorpay payment gateway and in crypto currency both. In today's world nothing can be trusted blindly and the good donors don't have enough time to do the background check for all the organisations so what we do all the work for them already. We will have a personal curated list for those good donors so that they don't have to waste their time checking the background for the organisation that wether it is fake or real. In any case they know how is the organisation, they can rate and comment about that organisation. The list will be shown to him according to their location. The organisations details will be provided along with list. The details will have the organisation name, address and the nearest site where they provide the services so that if you want then you can go there and watch things for yourself. It will also be containing a slideshow of the images. Once a customer get him verified on the app. He will be allowed to become the active volunteer for the organisation. He will be provided with the contact within the app so that he can talk to them and ask them where is the nearest site for him to help. If there is no site near to his place or not in his city, and there is a place where help is needed he can apply for the new site for that city and he will be needed to wait to get verified. Verification will be done on the basis of number the applications for the particular site.

## Chapter 2

### PROBLEM STATEMENT

**Integrity:** Stiften solves all the problem regarding the organization integrity, you can check

where does the organization uses your money

**Confidentiality: -**

Stiften solves your currency barriers, now you can pay in both indian cuurency and crypto currency

**Crypto Currency Barrier: -**

Stiften solves your currency barriers, now you can pay in both indian cuurency and crypto currency.



## Chapter 3

### PROJECT OBJECTIVE

Stiften is a Ethereum based React.js decentralized application. It is made to ease the problems regarding security and assurance of the donators money while donating in several organisations.

The organisations details will be provided along with list. The details will have the organisation name, address and the nearest site where they provide the services so that if you want then you can go there and watch things for yourself. It will also be containing a slideshow of the images

### SCOPE

The project would allow users to donate to the favorite organizations with ease in both crypto currency and Indian currency through razorpay gateway.

This will help users to make their donations more precise and worthy that will satisfy them.

Solidity is used in this application.

## **Chapter 4**

### **Project Modules**

The entire project mainly consists of 4 modules, which are:

- Admin Module
- User Module
- Organization Module

#### **Admin Module:**

- Different portals for customers, organizations, and admin.
- Authentication will be implemented.
- Admins can add new organizations and accept the application of organisations and NGOs.
- Admins will verify user and can deactivate account of user due to inactivity.
- Admins can monitor all the transactions and provide the receipt.

#### **User Module**

- Customers will be a number of organizations and NGOs
- Each organization will have a details page.
- The organisation list will have the two filters one for nearest to customer location and the second will be through ratings.
- Customers can rate the NGO or organisation
- Customer can pay in indian currency as well as cryptocurrency.
- Customers can participate in the ngo activities that are near them through participation tab.

#### **Organisation Module:**

- New Organisations can apply to this app.
- They can update their information about them.
- They can add new activities that will be performed by them.
- New volunteer can be accepted by them and that volunteer's contact will be shared to them.

# **Chapter 5**

## **Technology Used**

### **2.1 Technical Feasibility:**

Implementing the designed would require the following technology stack:

1. React.js
2. Express.js
3. Node.js
4. Next.js
5. MongoDB
6. Solidity

Devices it will be working on:

- a) On any mobile or desktop browser

Installation and usability of each device:

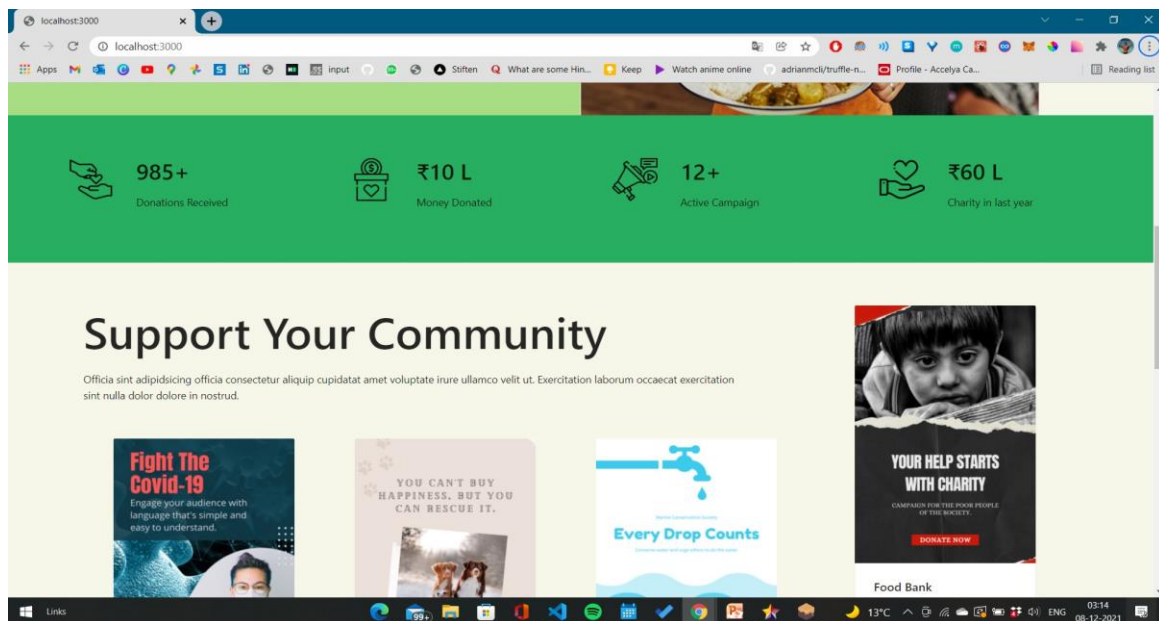
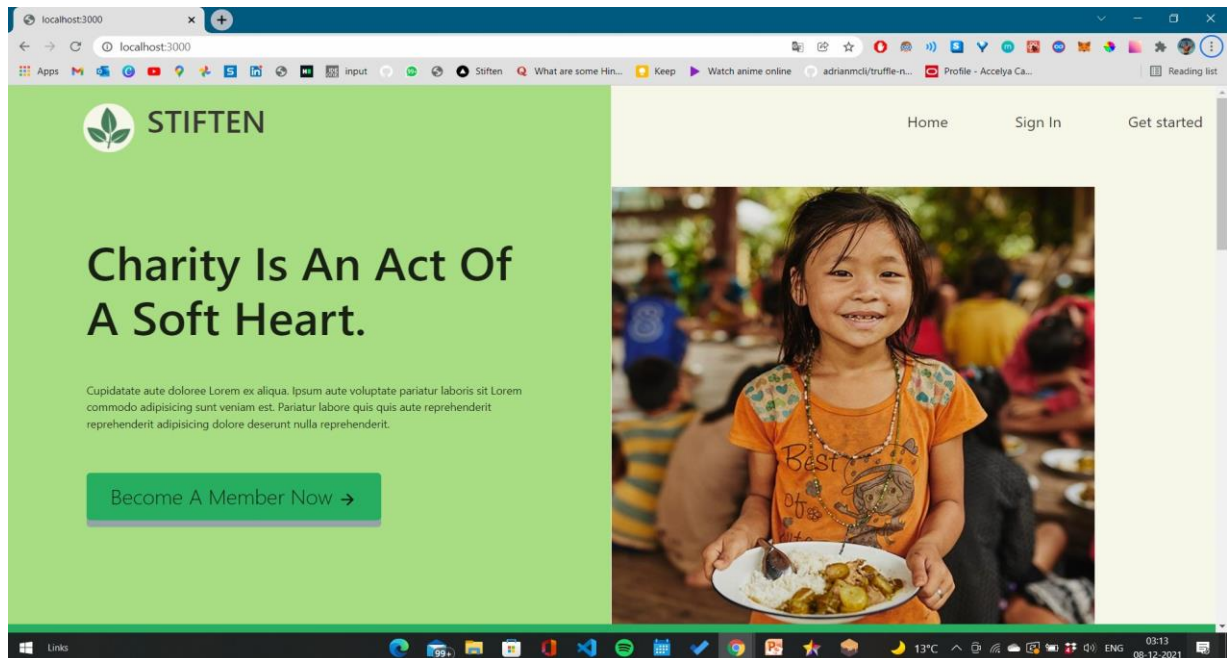
You need a stable internet connection on your device





## Chapter 6

### Implementation And Result





## **Conclusion**

Taking into account all the mentioned details, we can make the conclusion that the Stiften Donation Application is the inevitable part of the lifecycle of the modern donation institution. It automates numerous daily operations and enables smooth interactions of the users. Developing the donation system software is a great opportunity to create the distinct, efficient and fast delivering education model. Implementation of Stiften Donation Application project helps to store all the kinds of records, provide coordination and user communication, implement policies, improve day-to-day operations, arrange the supply chain, manage financial and human resources, and market hospital services. This beneficial decision covers the needs of the users, staff and simplifies their interactions. It has become the usual approach to manage the hospital. Many college and school have already experienced its advantages and continue developing new Stiften Donation Application project modules.



## References

- <https://docs.soliditylang.org/en/v0.8.10/>
- <https://reactjs.org/docs/getting-started.html>
- <https://nextjs.org/docs/getting-started>
- <https://docs.mongodb.com/>
- <https://nodejs.org/en/docs/>
- <https://devdocs.io/express/>