

**WTA MINI PROJECT REPORT**  
**CHARITY MANAGEMENT SYSTEM**

*submitted by*

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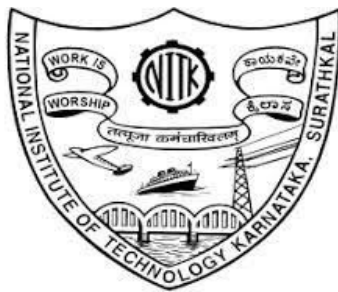
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## **Abstract**

Many NGOs experience difficulties while executing their services due to lack of donors as there would be many people who would want to donate but are ignorant of how to do it. Many expensive medicines which people want to donate goes to the bin not knowing to whom to give it to. So we created a Charity Management platform named 'Helpify!' where a person can donate the funds or unused medicines and the NGOs can place requests in the portal in order to request for the donations and get the benefit. This is done under the supervision of an Admin who checks documents submitted by the NGO and agrees or rejects the request made by the NGO. This helps the needy to get medicines free of cost and the donors to donate without any hassle. This project consists of 5 modules Admin, Bank, Money Donation, Medicine Donation and request from NGO.

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## **1.Introduction**

The Charity Management System involves a method to provide convenience for the NGOs to find the donors which is a difficult task for funds and specially unused medicines (expensive). This platform is also convenient for many donors willing to donate but ignorant of how to donate or feel that process can be a hassle. The donor just has to visit the website and donate money by giving his details and medicines by giving the descriptions of the medicines.

The login module is implemented for the users. The admin logs in and can accept or reject the NGO requests and monitor the funds and donations made. When accepted or rejected a mail is sent to the NGO who made a request informing them the request is accepted or not. Bank module is used to search for the available medicines in a city with donor details. If the medicine name is unknown, the city is taken as priority. Medicine Donation Module for a donor to donate medicine with the details of the medicine being donated where the expired medicine will be deleted from the database automatically. This is done by the event check which runs every minute. Money donation module for a donor to donate money, where the donation through card is validated and a dummy bank is created. NGO Module for the NGO to request for funds by giving the required details which will later be accepted or deleted by the admin.

## **2. Requirement Analysis**

### **Software:**

Frontend: html, css, ejs templates

Backend: nodejs, expressjs, MySQL connectors

Database: MySql

### **Hardware:**

One machine in which all the required softwares is installed to run the local server and load the page.

The hardware requirements are very minimal.

- Processor: 64-bit, Above x86
- Processor speed: 500 MHz and above
- RAM: storage space 4GB and more

### **3. Literature Survey**

**Sally McDonald, Alice Fabbri, Lisa Parker, Jane Williams, Lisa Bero- Medical donations are not always free:an assessment of compliance of medicine and medical device donations with World Health Organization guidelines(2009-2017)**

Advantage: Analysis of donation patterns and how it can improve the quality of life for some.

Limitation: Difficult to coordinate on such a huge scale as it may lead to confusion in the data.

#### **Online Charity Management System**

Advantages: NGOs will get donors easily. Donors can donate a few things to needy people just by sitting at home.

Limitation: It needs an active internet connection without any interrupt.

**Sarwat Iqbal\*, Kamran Ahsan, Muhammad Azhar Hussain and Adnan NadeemTechnology-Based Charity Model through Enterprise Architecture: An Elderly Case**

The proposed work uses ArchiMate for the organization task of charity organization. Through ArchiMate the activities of the charity organization are aligned and structure and operation of the organization are described. ArchiMate helps the organization to run its tasks in a smooth way. The proposed work describes the process of verification of elderly as well as needy through the use of some national database system. A process has been defined which provides regular statistics to the donors about the use of his donations. In this way the donors always remain up to data about his money and feel more satisfied. The donor is facilitated through technology and can provide his contribution to the organization in a very sophisticated way. The needy were facilitated through the defined process and were helped in a decent way.

## 4. System Design/Architecture

We've used Three Tier Architecture for our web application. Three-tier architecture is a client-server software architecture pattern in which the user interface (presentation), functional process logic, computer data storage and data access are developed and maintained as independent modules, most often on separate platforms.

- **Presentation Layer** - It is a layer which users can access directly (such as a web page, or an operating system's GUI). We use ReactJS to build our Presentation Layer.
- **Logical Layer** - The logical tier is pulled out from the presentation tier and, as its own layer, it controls an application's functionality by performing detailed processing. We use NodeJS and ExpressJS to build our Logical Layer.
- **Data/Resource Layer** - The data tier includes the data persistence mechanisms (database servers, file shares, etc.) and the data access layer that encapsulates the persistence mechanisms and exposes the data. We use MySQL as our database in Data/Resource Layer.

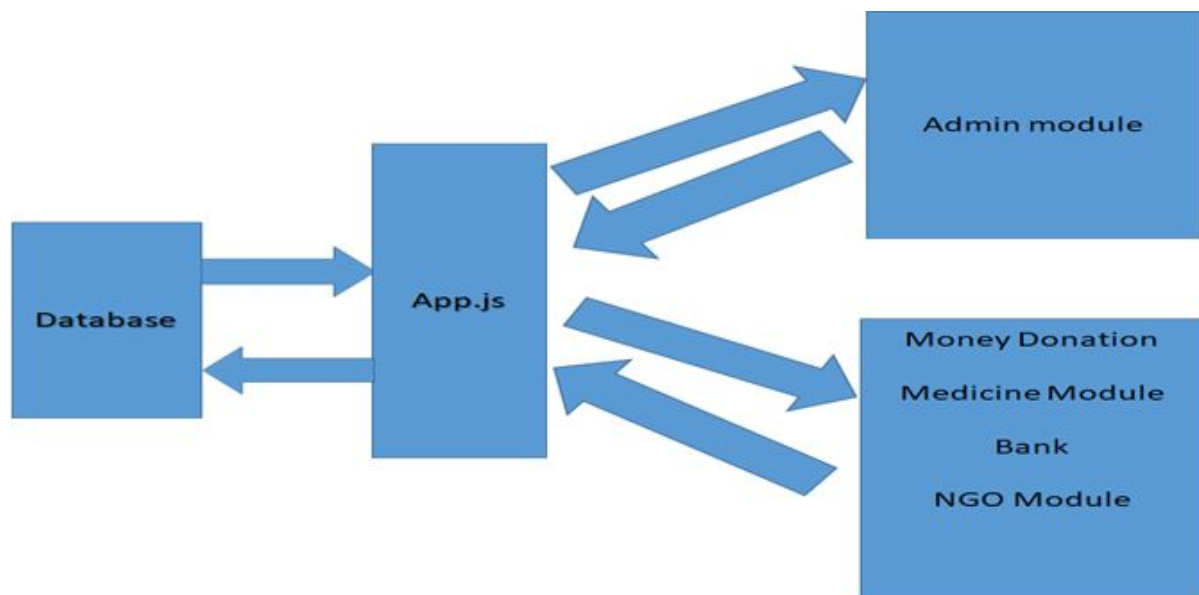


Fig 1. System Architecture

## **5. Methodology**

### **Admin Module**

Admin can login to this module using an assigned username and password which is validated. The admin has 3 mini modules 'NGO request ', ' Medicine Donors' and 'Money Donor '. The admin has access to manage the monetary funds as well as the donated medicines. He can also send requests for donations to previous money donors. Admin is also incharge of selecting NGOs to collaborate with by approving or rejecting a NGO's request. It also has a logout option and once logged out the Admin has to give proper credentials to login again.

- NGO Request
  - In This Module we can approve or delete request from NGO
- Medicine Request
  - In this Module Admin can delete any medicine
- Money Donors
  - In this module admin can request any Money donor to donate again.

### **Bank Module**

Users can search for medicine donors for medicine or illness type in the medicine bank. Donors contact details will be displayed who want to donate the medicine needed.

### **Medicine Donation Module**

Any medicine donor can donate medicine by providing his contact details. Medicine whose expiry date is gone will automatically be removed from the database and won't be saved anywhere.

### **Money donation Module**

Any money donor can donate money by providing the correct information. All the fields in the money donation form are necessary to be filled and are validated. The values of fields like card number, cvv and expiry date are also validated.



## **NGO Module**

NGO can request for funds by providing information about them which is validated. The decision is taken by the admin after checking the documents submitted if they are eligible for a fund. If the documents are perfect, admin sends a request Else a Reject button is selected in the Admin page and an email of rejection is sent to that NGO.

## **CRUD Operations**

### **1) Create Operation**

When the medicine donor, money donor, ngo enters the information to the table. Insert operation is performed on donor, money and ngo table.

### **2) Read Operation**

Read operation is performed when the user is trying to login to the module and displaying the information of all donors. Read operation is performed on ngo, admin, money, medicine and ngo table.

### **3) Update Operation**

Update operation is performed when a request to the money donor is sent. Update operation is performed on money table

### **4) Delete Operation**

Delete operation is performed when the admin wants to delete the medicine or NGO request. Delete operation will be performed on medicine and NGO table

## 6. Implementation

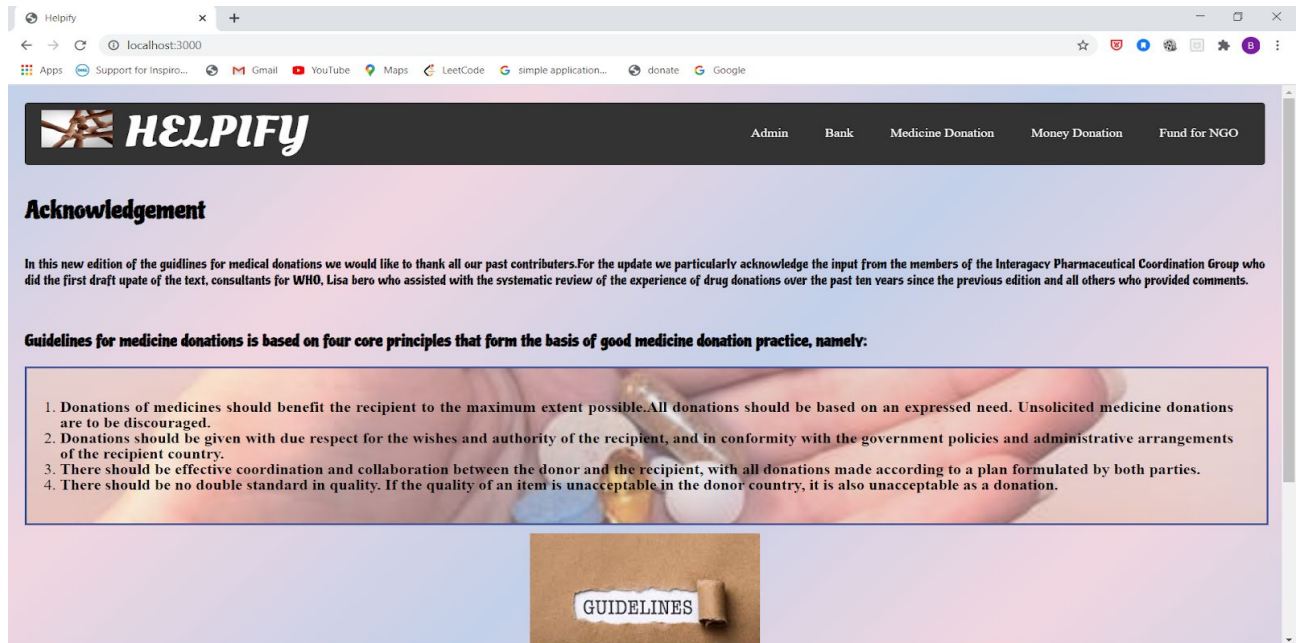


Fig 1. The home page of the website that has a guidelines for donation that can be downloaded and also the navigation bar which leads to other pages.

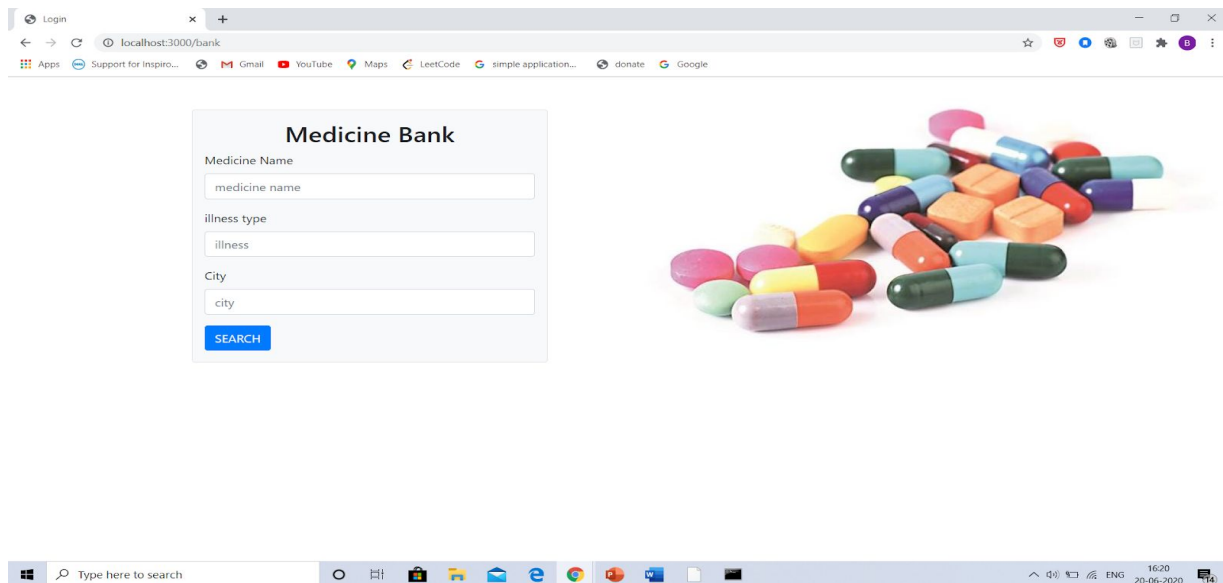
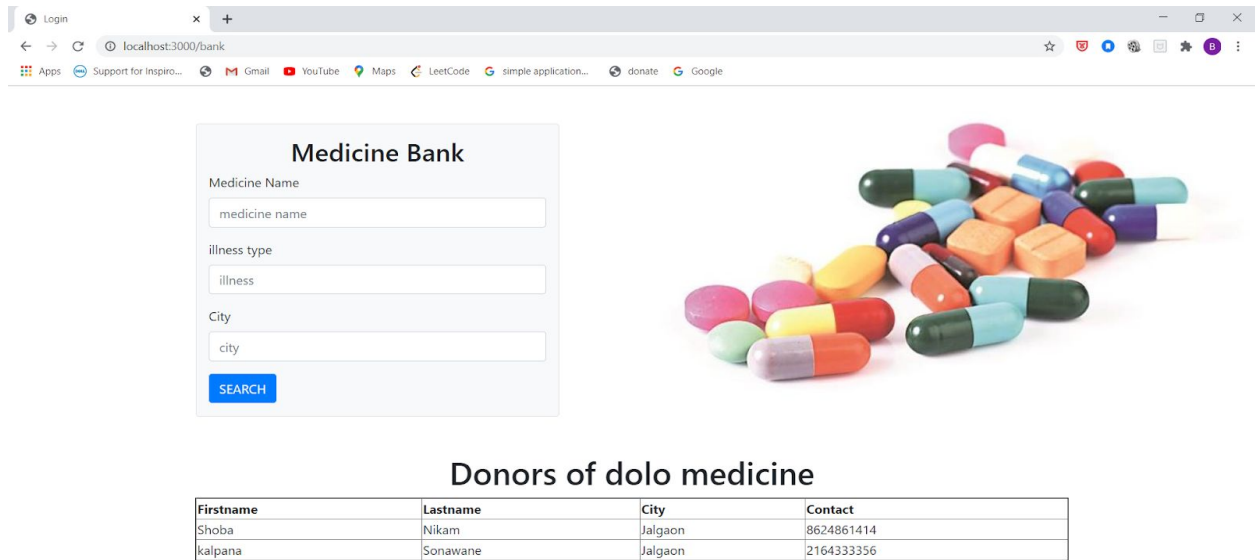


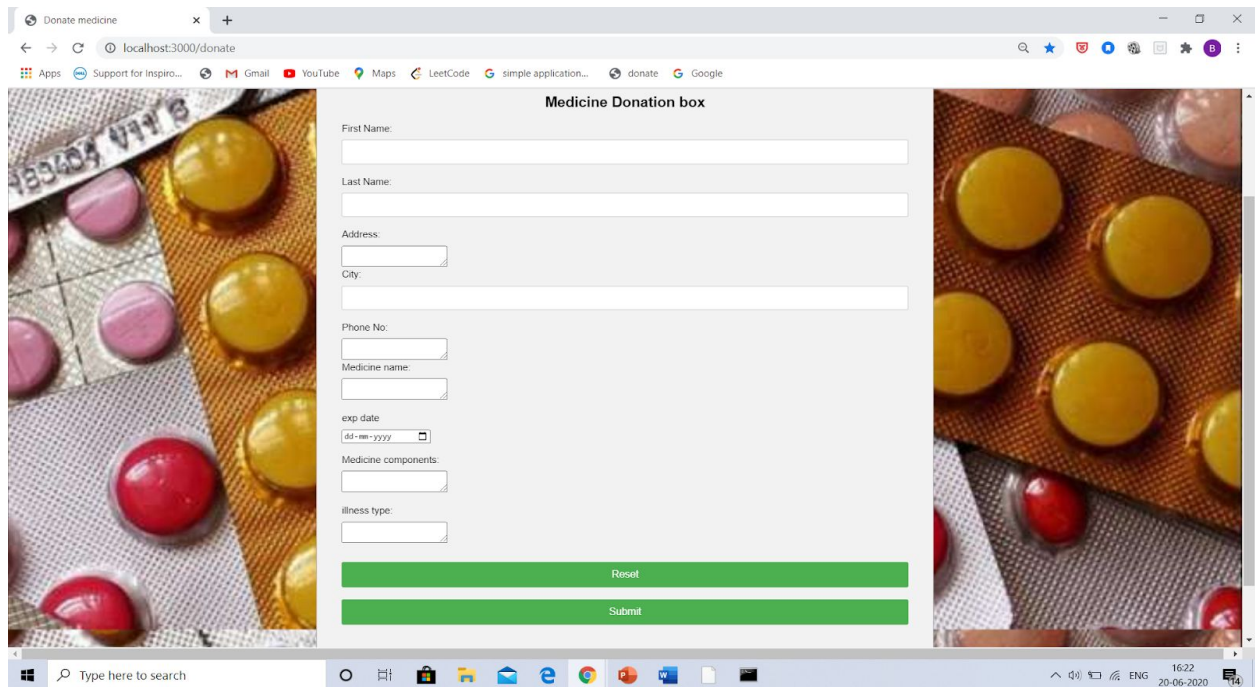
Fig 2. A person who needs a certain medicine can enter the details in this page and see the availability accordingly.



The screenshot shows a web browser window with the address bar displaying 'localhost:3000/bank'. The page features a 'Medicine Bank' form with the following fields: 'Medicine Name' (with placeholder 'medicine name'), 'illness type' (with placeholder 'illness'), and 'City' (with placeholder 'city'). A blue 'SEARCH' button is located below the form. To the right of the form is a photograph of various colorful pills and capsules. Below the form and image, the title 'Donors of dolo medicine' is centered above a table.

Firstname	Lastname	City	Contact
Shoba	Nikam	Jalgaon	8624861414
kalpana	Sonawane	Jalgaon	2164333356

Fig 3. When the user enters the details of the medicine they need, the relevant data stored is fetched from the database and displayed.



The screenshot shows a web browser window with the address bar displaying 'localhost:3000/donate'. The page features a 'Medicine Donation box' form with the following fields: 'First Name:', 'Last Name:', 'Address:', 'City:', 'Phone No:', 'Medicine name:', 'exp date' (with a date picker set to 'dd-mm-yyyy'), 'Medicine components:', and 'illness type:'. At the bottom of the form are two green buttons labeled 'Reset' and 'Submit'. The form is flanked by two photographs of blister packs containing yellow and red pills.

Fig 4. Donors who want to donate medicines need to fill this form with their details and the medicine and its component along with the expiry date that they want to donate. All the fields are necessary and the phone number is validated. Also if the medicine is expired the data is removed from the database.

**MONEY DONATION**

**Details**

Full name

Email

Amount

City

State

**Payment**

Accepted Cards

Name on Card

Credit card number

CVV

Exp Month

Exp Year

**Make donation**

**Reset**

Fig 5. The donor who wants to give monetary donations can use this page and fill this form. All the fields are necessary and the card details are all validated.

**NGO Information**

Name of NGO:

Address(Area,street):

City:

State

Email

Phone No:

**Reset**

**Submit**

Fig 6. NGOs can fill this form to ask for collaborating with the website.



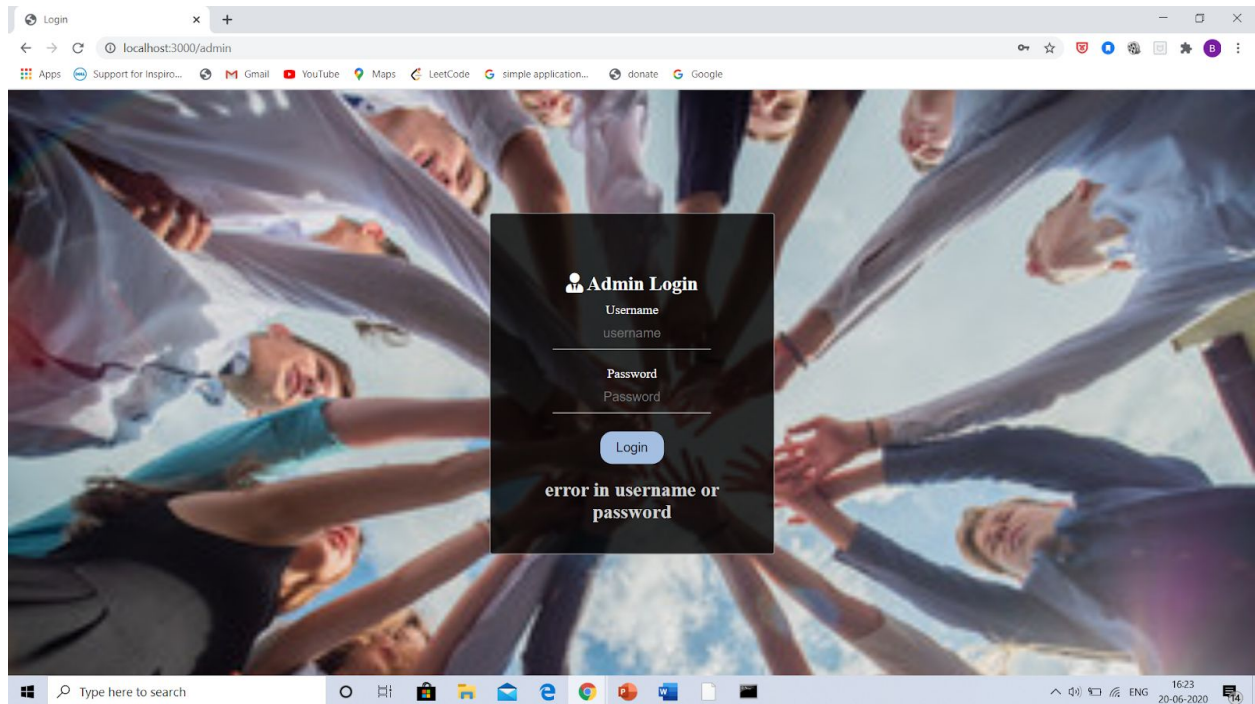


Fig 7. The page for the admin to login with the assigned username and password.

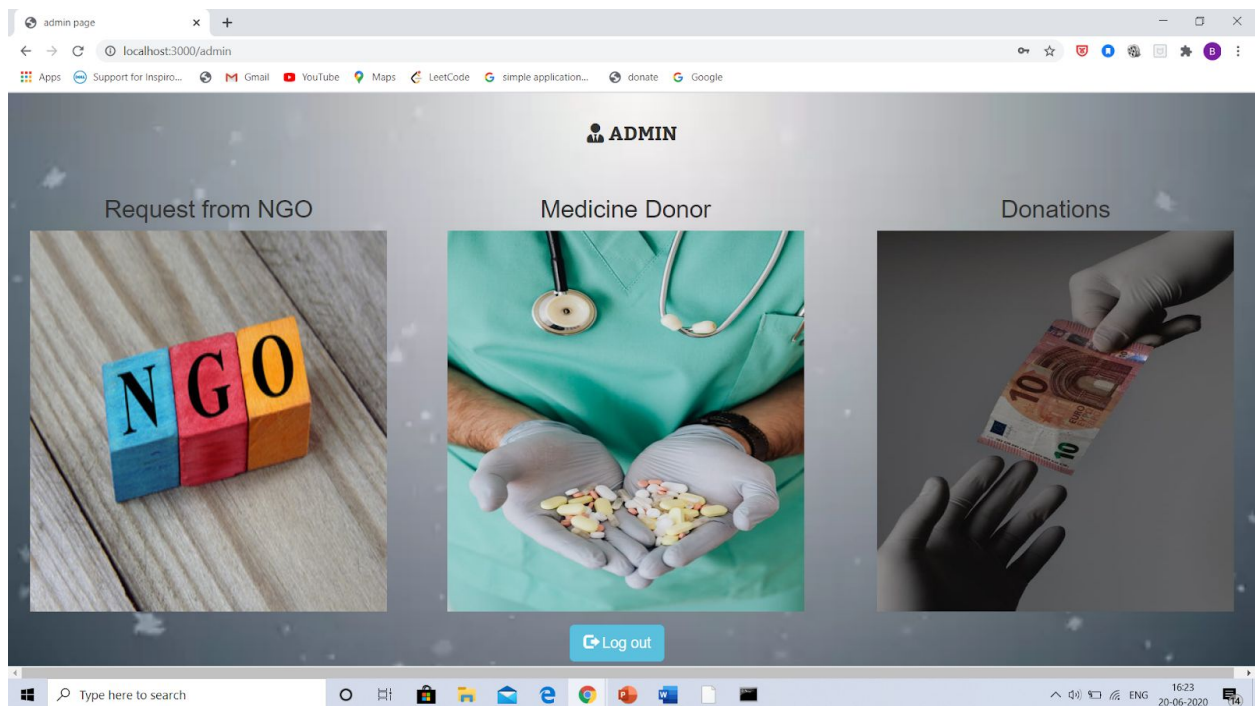


Fig 8. The admin overlooks the requests received from NGOs, medicines donated and the money donations made.

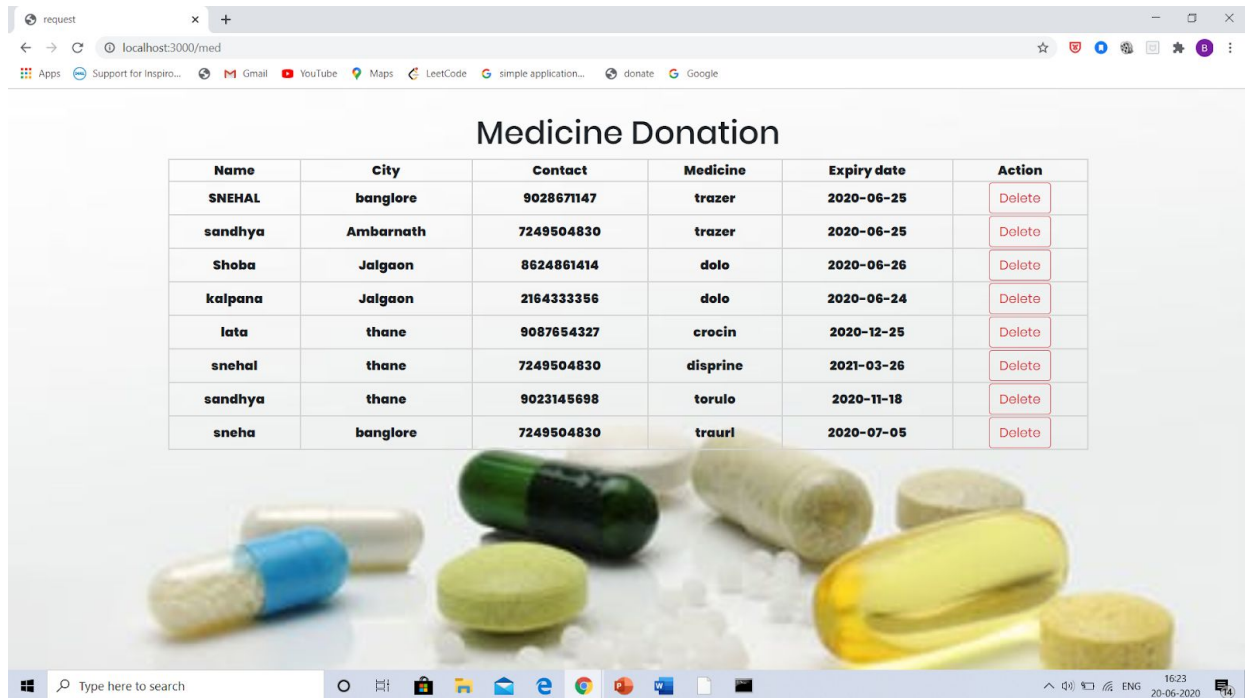


Fig 9. The admin can see the list of all the donations made with their details. The admin can also be deleted by the admin.

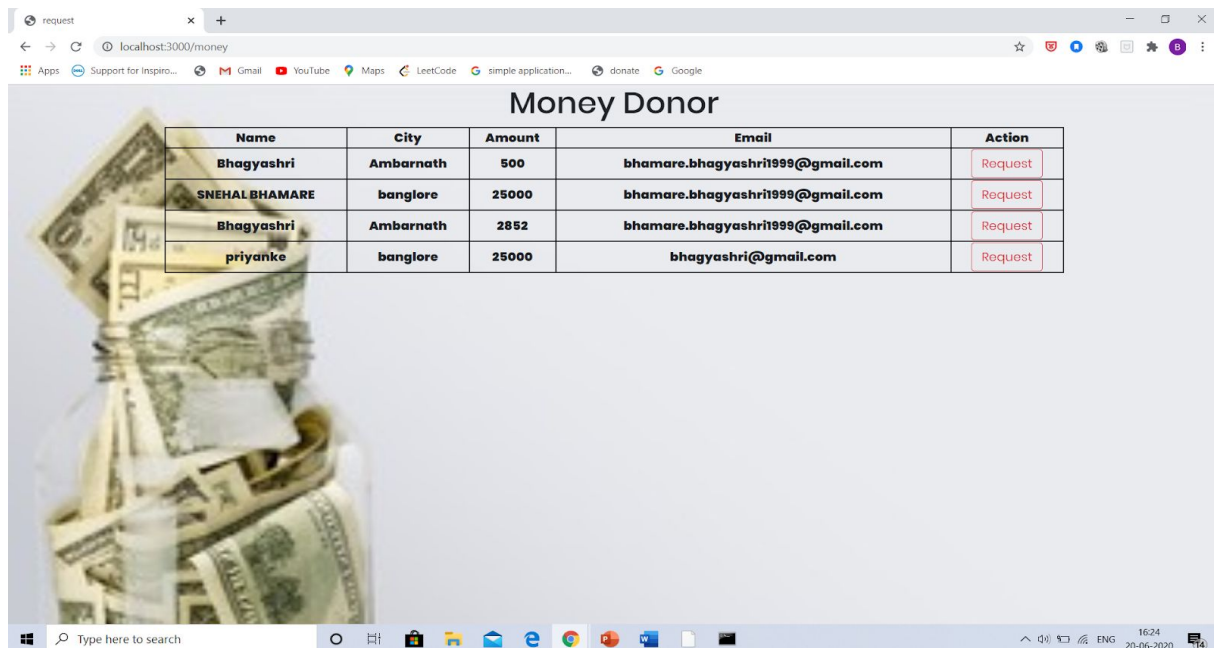


Fig 10. This page displays the money donated and the admin can request a previous donor for new donations.

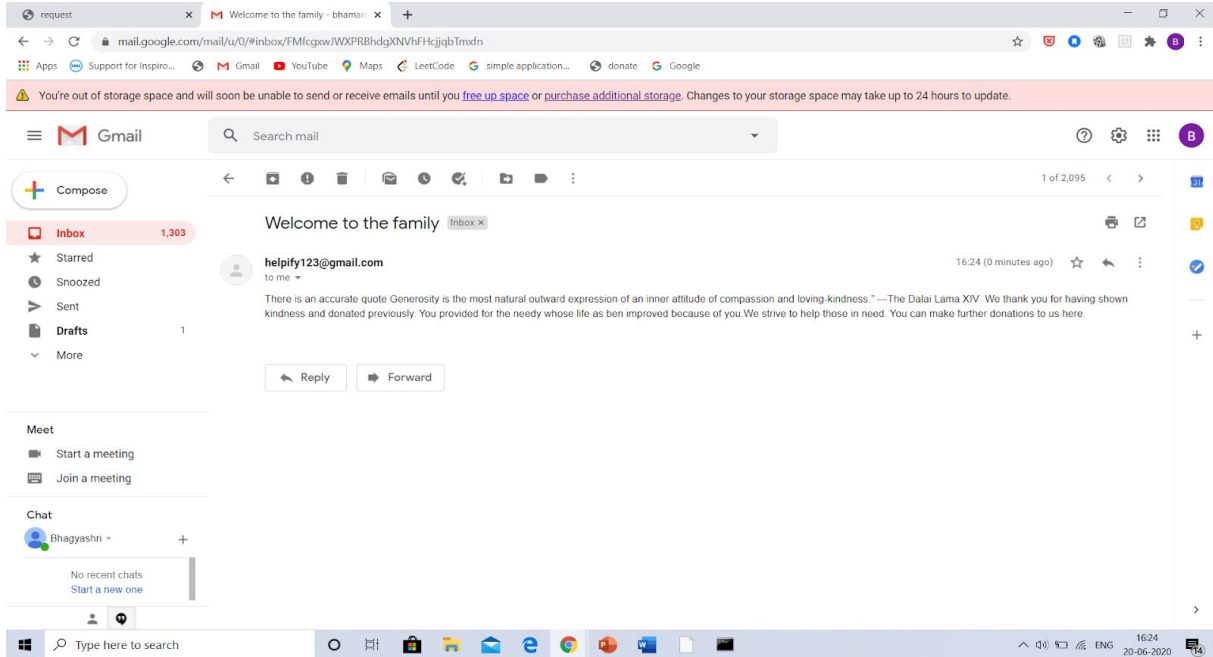


Fig 11. An example of the mail that can be sent to a previous donor requesting for more donations if possible.

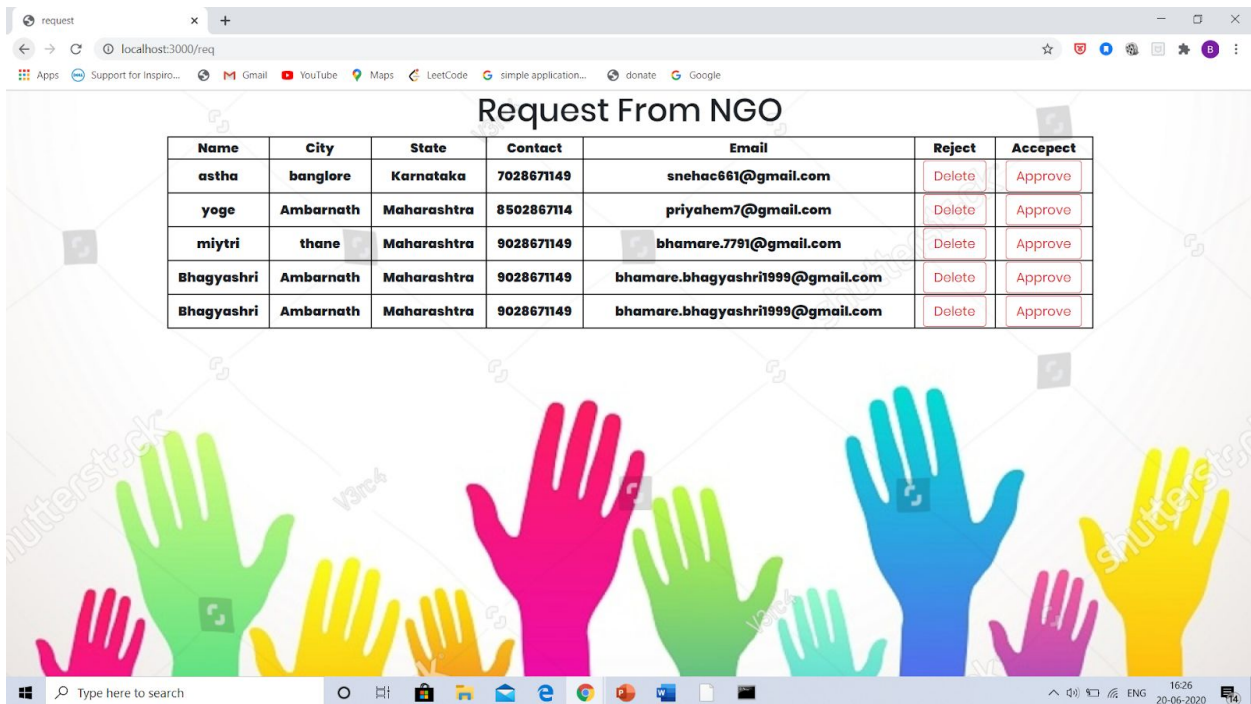


Fig 12. This page displays the requests sent from NGOs. The admin can accept or reject these requests and the corresponding mails are sent to the NGO.

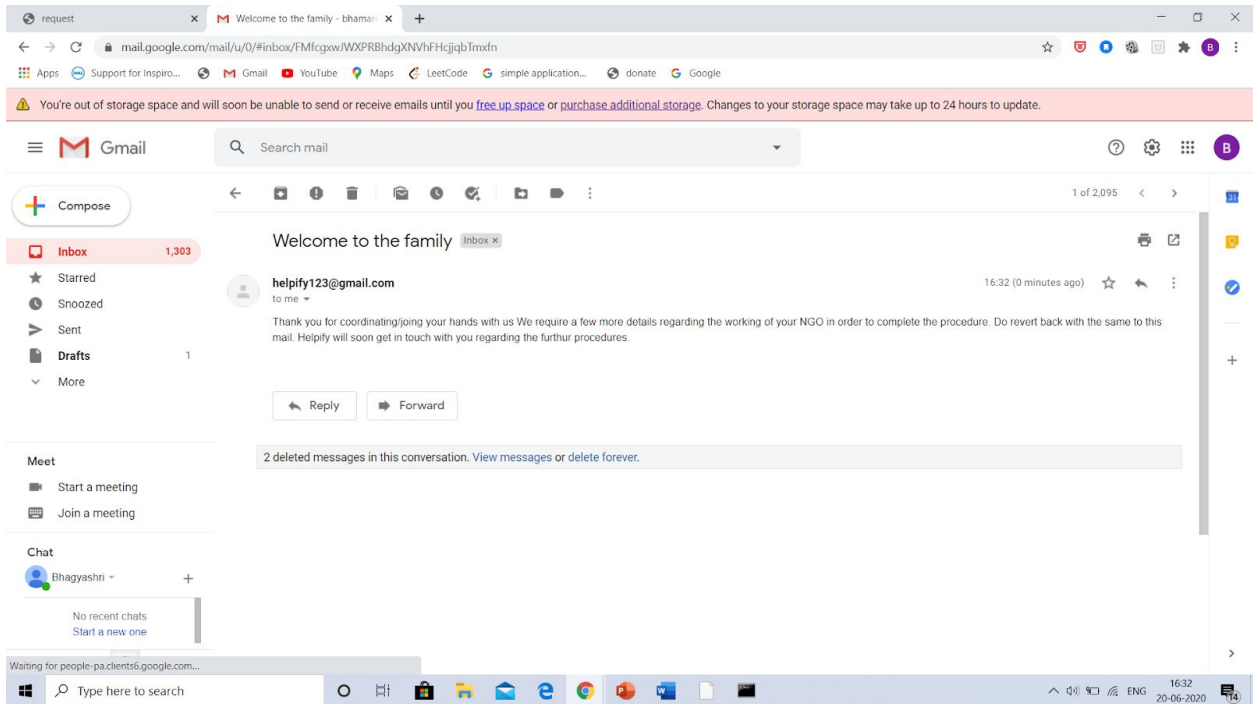


Fig 13. An example of the mail sent to NGO on being accepted by the admin.

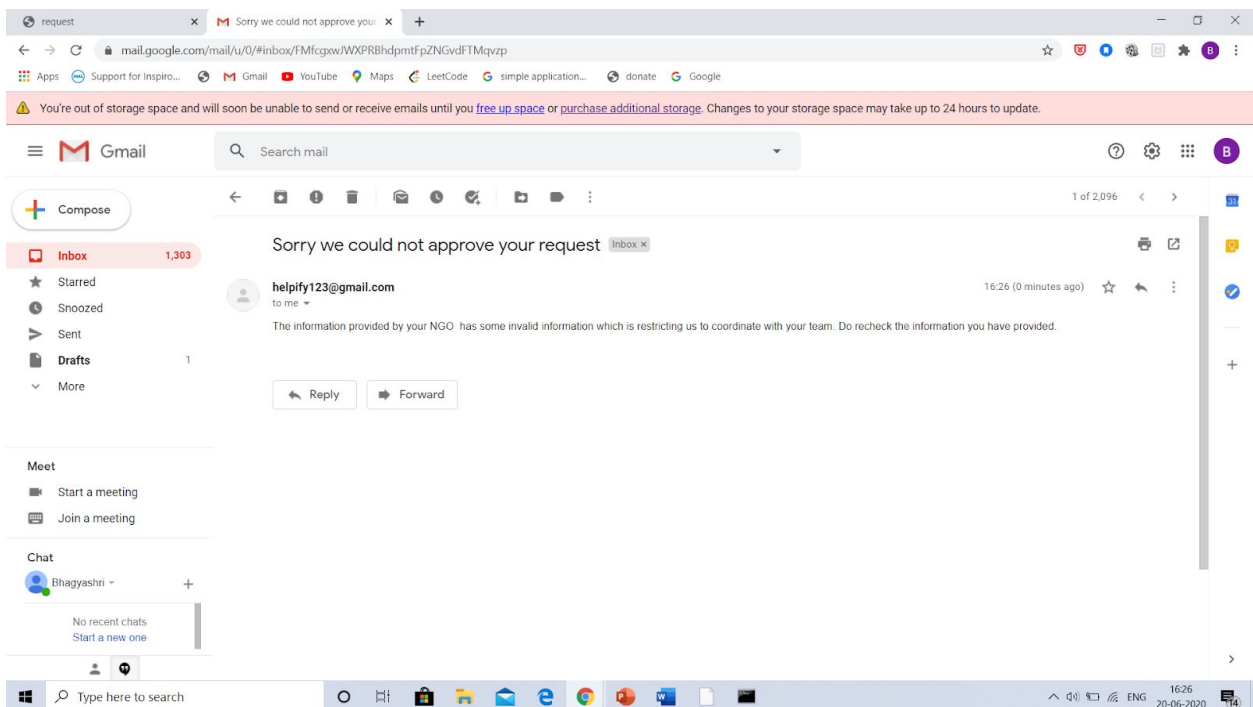


Fig 14. An example of the mail sent to NGO on being deleted by the admin.



## **7. Results**

The web application works as planned. Helpify is a website that lets an admin overlook the donations made and channel them to the needy. And those who have an excess of a medicine can donate them instead of it going to waste. People can also make monetary donations. These funds can then be given to NGOs that are collaborating with the admin.

## **8. Conclusion**

The application, although is completely usable in its current state, we could do few refinements and future developments. Create a separate portion of the webpage for donors forums, FAQs and blog posts, to engage and promote user interactivity. Integrate a chat application with the purpose of providing answers to basic questions posed by the user regarding process of donation etc. Create a new module for delivery and pickup of medicine donations. In this world where some people don't even have enough resources to take the needed medications this website could be a game changer to their lives.

## 9. REFERENCE

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