

## Rahaat – A Web Application Based Donation Platform For Unused/Near To Expiry Medicine

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**Abstract**— Medicine is a major part of healthcare system and availability of these medicine is a task which all government struggle with, to tackle this selling and buying of medicine was introduced in Indian Market. Online marketing is growing at a great pace and with growth in online marketing more and more online pharmacies are getting in the business. Other than this this industry frequently faces the issue of shortage and wastage of medicine and to tackle this problem an idea could be developed. Online medicine trade is worldwide popular due to the cost cutting it offer and easiness. Though online pharma chains provide everything which include prescribed drugs to machines such as bp monitor, glucometer, etc. India's health sector is expanding for both online and offline supply stores, both are working together to expands their profit. Scarcity of resuscitative medicines have been turned up in most of country around world. Medicines scarcity cause risks for patient well-being and being as a consequence of no-medication, under-medication and possible medicine errors from attempts to substitute missing medicine. While medicine scarcity is a not something new, they have been climbing alarmingly in recent years. Accessible stats from various healthcare facilities and local non governmental organizations specify that products in shortage include many regularly used medicines such as antibiotics, tb(tuberculosis) medicines, cardiovascular(heart related) medicines and many more.

**Keywords**—Medicine, Pharmacies, Shortage, Sell, NGO, Online, Offline, Stats.

### I. INTRODUCTION

To incurve the expanding dictate for advancement and astonishment in the health facilities, health care machinery ,aid and by avoiding the decimation, of these resources by using the power of internet and its wide system, by using which individuals or organization can assist each and everyone with just one touch of their mouse. The Unused Medication Donation application implied here aims at giving an online platform for donating unused medications to the applications admin which can direct it to NGO which can provide it to needy people or directly providing these unused medicine to all the people in need. Users / Organization / Pharmacy can list themselves on this platform by providing their necessary details like name and password. Once submitted the users can list the medicines by providing details as per the form available on the application. The system will prolong an online data collection of donated medicine and these medicine could be detailed to NGO in that area where there executive can pick this medicine making this process very fast and easy. The users can also raise a system request to avail the medicines from the application, here the admin would look for the prescription and would directly respond to individual. The administration of this implementation is based on donation of near to expire medicine that will reduce the decimation and thus provide a cleaner environment and would also decreases shortage cases. Therefore, it could be said that this platform main ain is to

lay out a place for people with extra medicine to donate it to the person in need. This application aim is to benefit other in numerous ways and help humanity and world. The application provide convenience for NGO by reducing their work to just accepting donation and providing it to needy. We all can take a few minutes out of our life to donate all of our extra unused medicine to the one in need.

### IMPORTANCE OF THE STUDY

This study is majorly focused on reducing the wastage due to unused and near to expiry medicine by providing a platform to donate them to nearest NGO using this application, these application will automatically redirect it to the nearest NGO and then NGO could assign executive to collect medicine.

Other than this it would help individual to directly request medicine from the application which would help the needy one's to get medicine for free.

This application is built with interest of environment and helping needy one to get their medicine which they can't afford.

### II. LITERARY SURVEY

1. "RAHAAT- DONATION PLATFORM FOR UNUSED MEDICINE"- An Internet Platform act As An Application for Donation of Unused Medicine. Radhika Singhal<sup>1</sup>, Prof. Vasudha Bahl<sup>2</sup> , Prof. Nidhi Sengar<sup>3</sup> , Prof. Amita Goel<sup>4</sup> Student<sup>1</sup>, Mentor<sup>4</sup>, Panel<sup>2,3</sup>

Department Of (IT)Information Technology (MAIT)Maharaja Agrasen Institute Of Technology, Delhi, India. This implementation allow donation of unused medicine which can be used by other who are in urgent need. Platform will perform as a only stop for the unused medicine which individuals /organisations/ pharmaceuticals donate and these donations are directed to nearby NGO after monitoring.

2. This platform is created to meet the day-to-day need of NGO around the globe to get donated medications without giving any extra effort and to steer clear of wastage, it is seen nearly 35,756 (Mt )metric ton in 2017 and 40,509 Mt metric ton in 2018 showing increase of around 4.12 percent in waste produced by medicines. The medicinal waste is treated mainly by following measures such as authorized treatment (81.20percent), followed by the recycling (19.63percent) and then comes the last but not the least which is self-treatment of this waste(1.39percent), but this implementation could reduce this waste of these medicine.

3. Guidelines for Medicinal Donations was adapted in 2010 by (World Health Organization) WHO Library Cataloguing in Publication Data Guidelines for medicine donations in revised 2010.

- Pharmaceutical devising for supply and distribution.
- Essential drugs for supply and distribution.
- Relief work.
- Emergencies.
- Inter institutional relations.

### III. METHODOLOGY

The Project is user centric and work on the requirement of user. Home page of project let user choose the preferred option according to needs of particular user.

#### 1. Individual Donations

- In this user could login/ signup on the portal
- After the above step user needs to fill the form to donate medicine which would require address medicine name , quantity and other extra information
- This request are raised to admin where admin would approve it after checking the request.

#### 2. Organization Donations

- Organisation such as colleges or offices could login/ signup on the portal
- After the above step organisation needs to fill the form to donate medicine which would require address medicine name , quantity and other extra information
- This request are raised to admin where admin would approve it after checking the request.

#### 3. Pharmaceutical Donations

- Pharmacy could login/ signup on the portal

- After the above step pharmacy needs to fill the form to donate medicine which would require address medicine name , quantity and other extra information. Pharmacy could donate the medicine which are near to expiry and are waste to them.
- This request are raised to admin where admin would approve it after checking the request.

#### 4. Executive

- Executive could login/ signup on the portal and could select the NGO he/she represent
- The executive would get the request from NGO to collect medicine after it is approved by admin and sent to a NGO.
- Executive need to look for the request and contact the donor and should share the slip to get the donations.

#### 5. NGO

- Ngo could register themselves on the portal.
- Ngo would get request approved by admin and they need to work on that request.
- Ngo assign executive for collection of donations.

#### 6. Admin

- Admin act as a central point in this application.
- Admin approve request raised by donors
- Then it assign this request to the NGO best suited for the area.
- Admin could allow request for the medicine raised by an individual and mail them to confirm there medicine request.

#### 7. Individual Request

- Individual could request medicine from the admin by providing valid prescription.
- Admin would validate the prescription and would assign medicine to the individual.

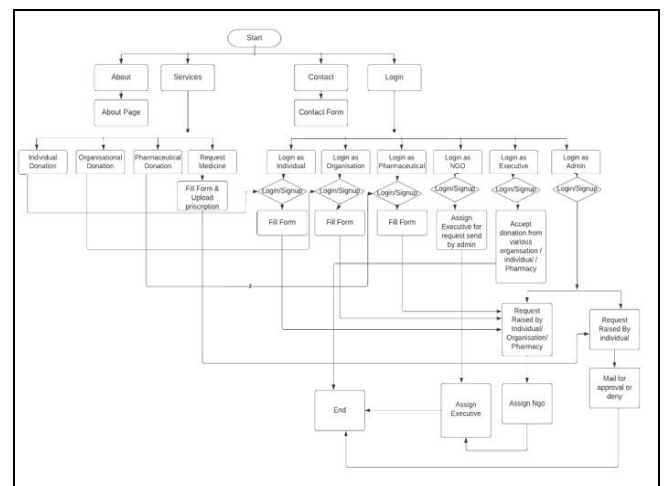


Figure 1: FLOW CHART

IV. RESULTS

The platform thrived could be implemented to donate medicine to local NGO, which will allow them to assign executive to receive medicine from the donor with providing them a receipt of proof. It also allow Individual to request medicine from admin.

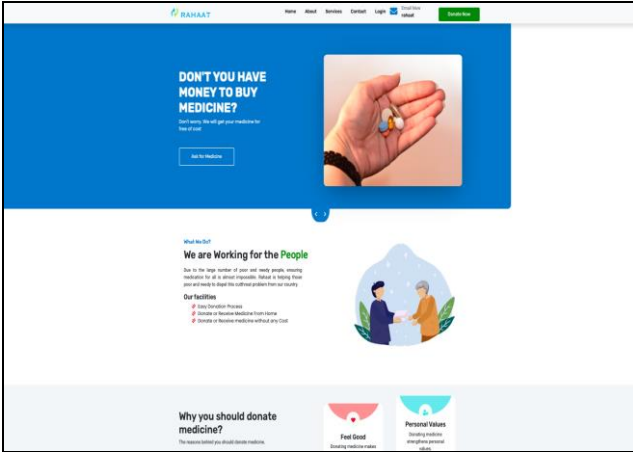


Figure 2: HOME PAGE

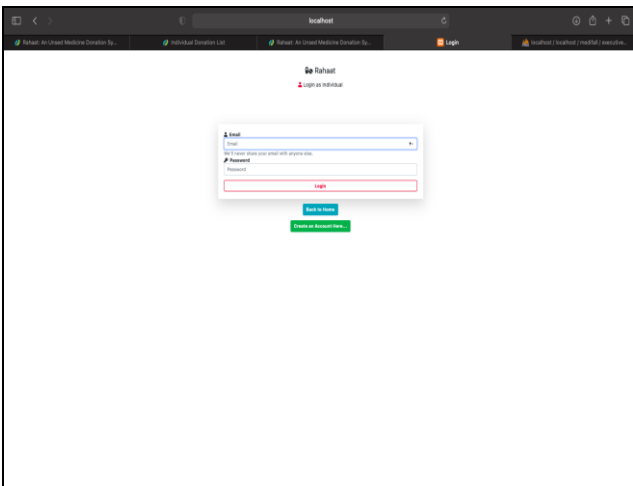


Figure 2: LOGIN PAGE FOR INDIVIDUAL

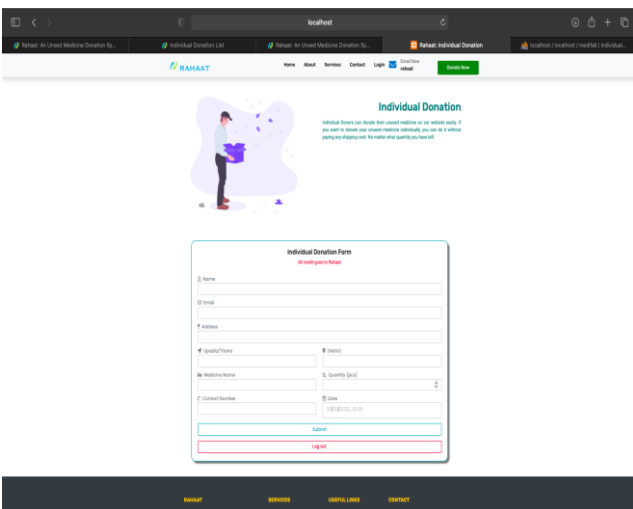


Figure 3: DONATION FORM

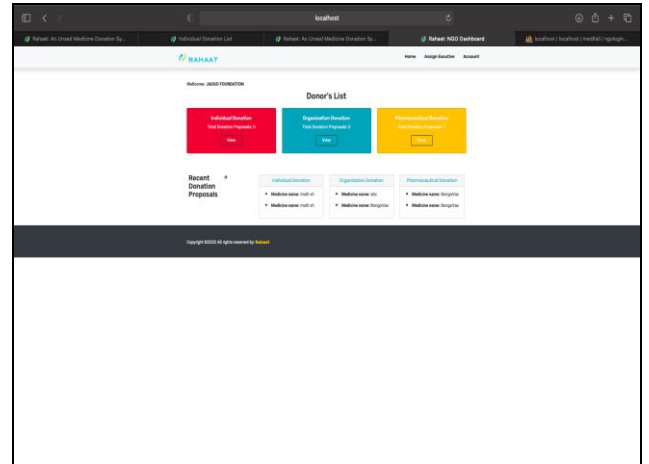


Figure 4: NGO HOME PAGE

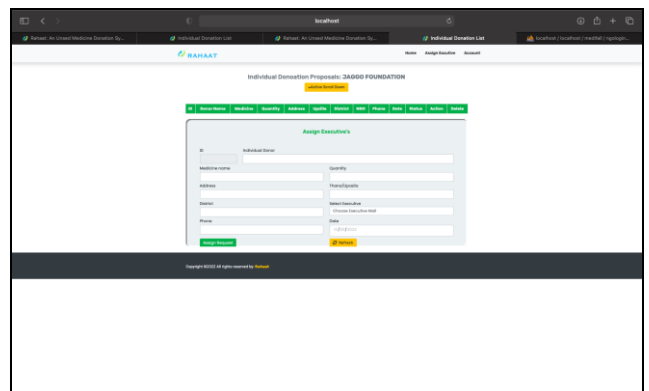


Figure 5: EXECUTIVE ASSIGNMENT PAGE

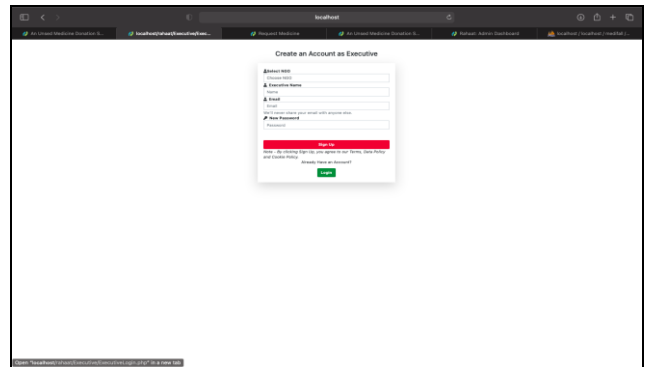


Figure 6: EXECUTIVE SIGNUP PAGE

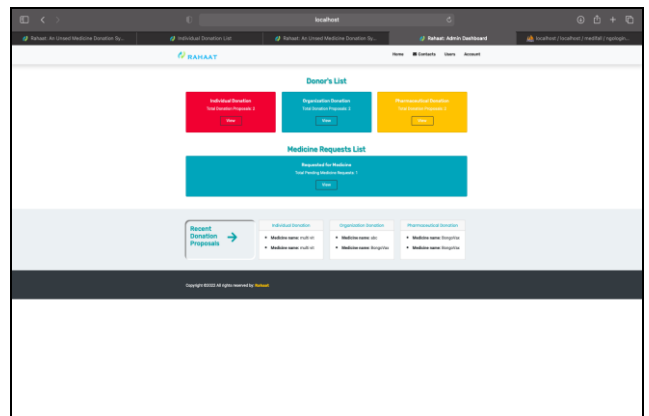


Figure 7: ADMIN HOME PAGE

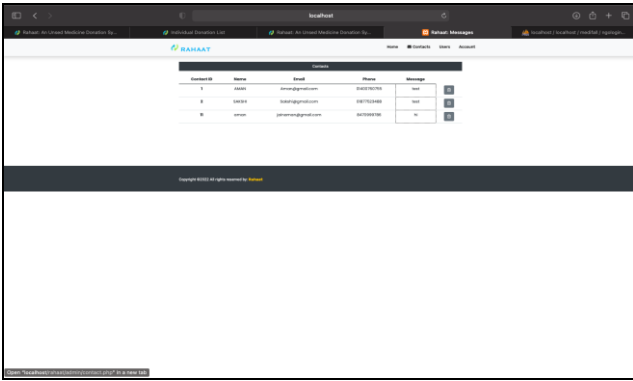


Figure 8: USER LIST PAGE

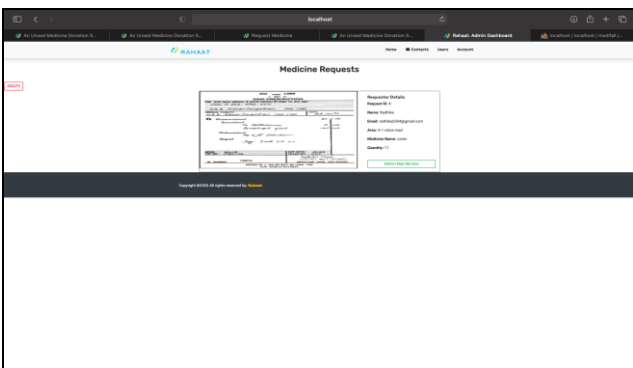


Figure 9: PRSCRIPTION VALIDATION PAGE

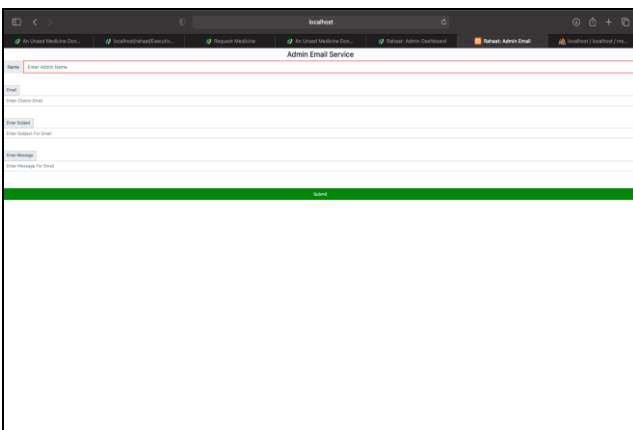


Figure10: MAILER PAGE

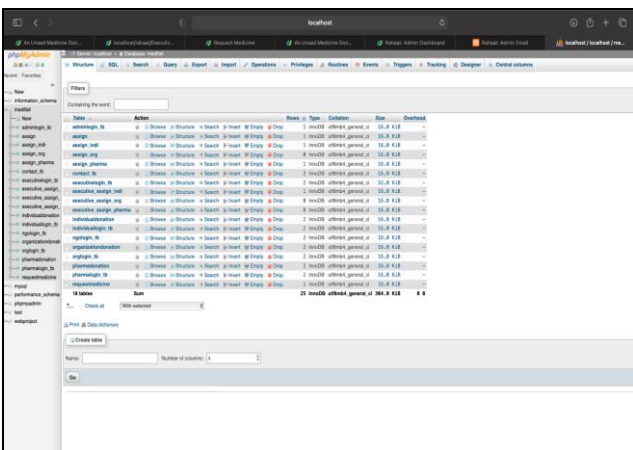


Figure 11: DATABASE

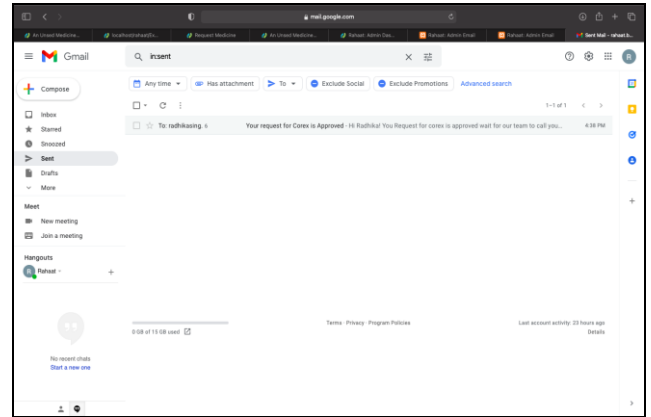


Figure 12: RECEIVED EMAIL

### V. CONTRIBUTION TOWARD SOCIETY

As this application main objective is to make a system which can help NGO get donated medicine and individuals, pharmacies and institution to donate their unused medicine which is of no use to them. It could be a revolution in our society by limiting the wastage of medicine and help the local NGO to get medicine easily without much hassle. Other than this it would allow individual to get medicine from the platform. Primary objective is to help people using the platform or in the society by availing them medicine which is of no use to someone and could be life saving for them. For example, you have some medicine for your use but now as you have fully recovered you don't need this medication, this medicine are of no use to you, you can approach this application and list these medicine on this application so that we could assign this medicine to a NGO nearest to your residence and they can collect from you and provide it to the needy one this would make our world a better place and help the one in need get medicine which they can't afford.

This project is for the people by the people to the people, it aim to reduce the wastage caused by unused medicine which can't be treated due to drugs present and of no use to someone transforming to a life saving boon for the other. Whole world has seen covid'19 and we all know the problem which arises when there is no proper medication and shortage of medicine, with this project we aim to tackle such situation in future.

### VI. CONCLUSION

With the system introduced I aim to lower the wastage of medication and eliminate chances of any sort of shortage of any medication and assist the one in need by providing them a platform to get medication. Also aim to make a chain of NGO that could donate these medicine and provide it to the person in need. The main objective of this project is to serve other humans and our environment by reducing wastage of life saving medication and give a platform to NGO and other institution to get donated medication and distribute it to poor and needy.

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