

# **Project Report On Good2Give**

Submitted in partial fulfillment for the award of  
**Post Graduate Diploma in Advanced Computing (PG-DAC) from  
C-DAC, ACTS (Pune)**



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## ACKNOWLEDGEMENT

This project “**Good2Give**” was a great learning experience for us and we are submitting this work to Advanced Computing Training School (CDAC ACTS).

We are very glad to mention the name of *Ms. Sarita* for her valuable guidance to work on this project. Her guidance and support helped us to overcome various obstacles and intricacies during the course of project work.

We are highly grateful to *Ms. Risha P.R.* (Manager (ACTS training Centre), C-DAC, for her guidance and support whenever necessary while doing this course Post Graduate Diploma in *Advanced Computing (PG-DAC)* through C-DAC ACTS, Pune.

Our heartfelt thanks goes to *Ms. Shilpi Shalini* (Course Coordinator, PG-DAC) who gave all the required support and kind coordination to provide all the necessities like required hardware, internet facility and extra Lab hours to complete the project and throughout the course up to the last day here in C-DAC ACTS, Pune.

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# **1. Introduction of project**

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## **1.1 Overview**

The project entitled “Good2Give” is a web-based donation management system. This platform connects people to nearby donation centers like temples, churches, NGO etc. where they can donate clothes, books and other things according to the requirement generated by donation centers.

The donation centers can upload there requirements on this portal, and when the donors with specific donations matching requirement comes it will notify organization to approve that request for donation.

## **1.2 Purpose**

Poverty and hunger are the main problem of our country. There are many NGO's or Organizations that are working to minimize poverty and hunger in society. These organizations take donations for this purpose and arrange fund raising events/ processes so that everyone can donate anything. This project will build an efficient management system for such organizations to manage their resources and donations

Project helps in connecting NGOs, Temples, Churches etc. with the donors and help each of them to share common platform. This project target needy to get his needs fulfilled with the help of organizations working for the cause of helping people in need.

## **1.3 Scope**

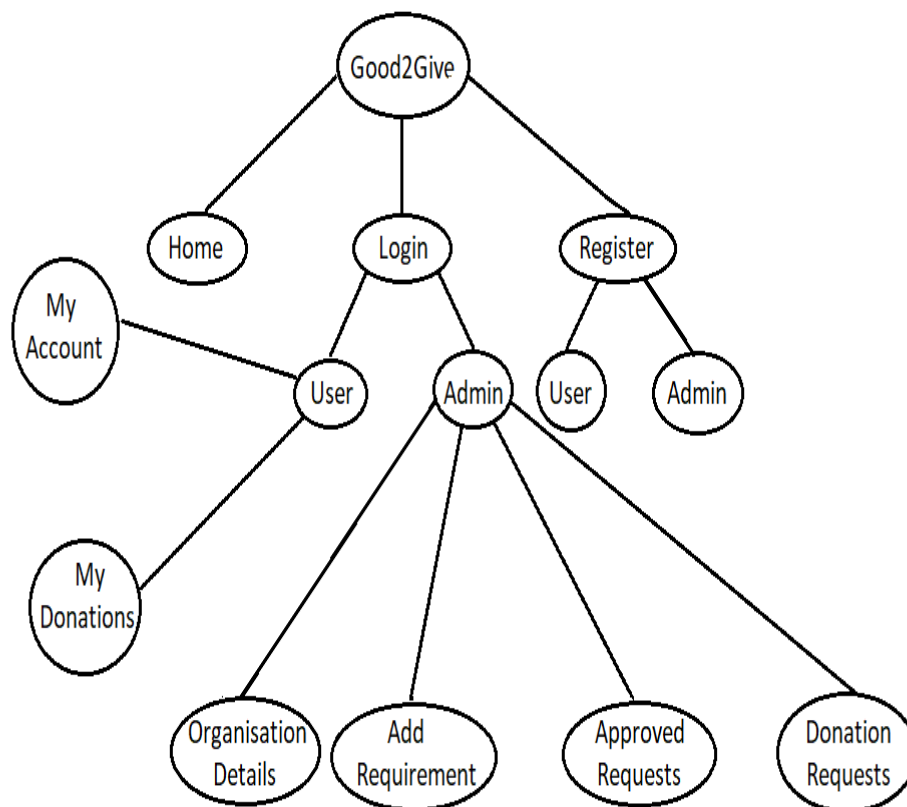
Scope of this project is very wide because there are very less project as such which are helping Organizations to connect with donor on one to one basis, this project will also prove very helpful in contribution to eradicate poverty and hunger from our nation, and will help in serving humanity.

## 2. Requirements

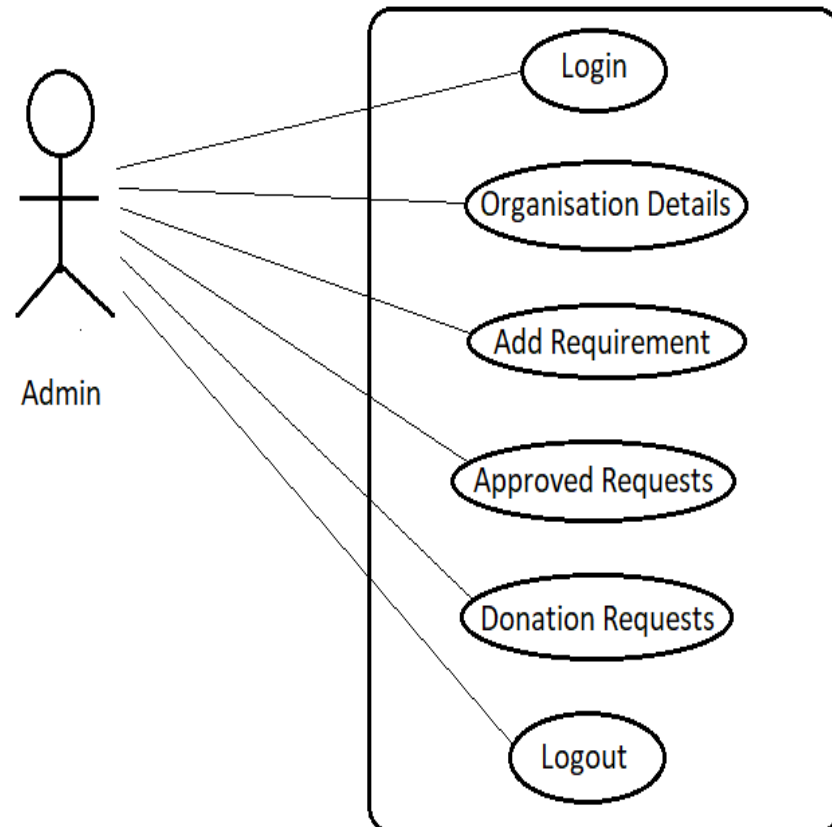
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### 2.1 Functional requirements

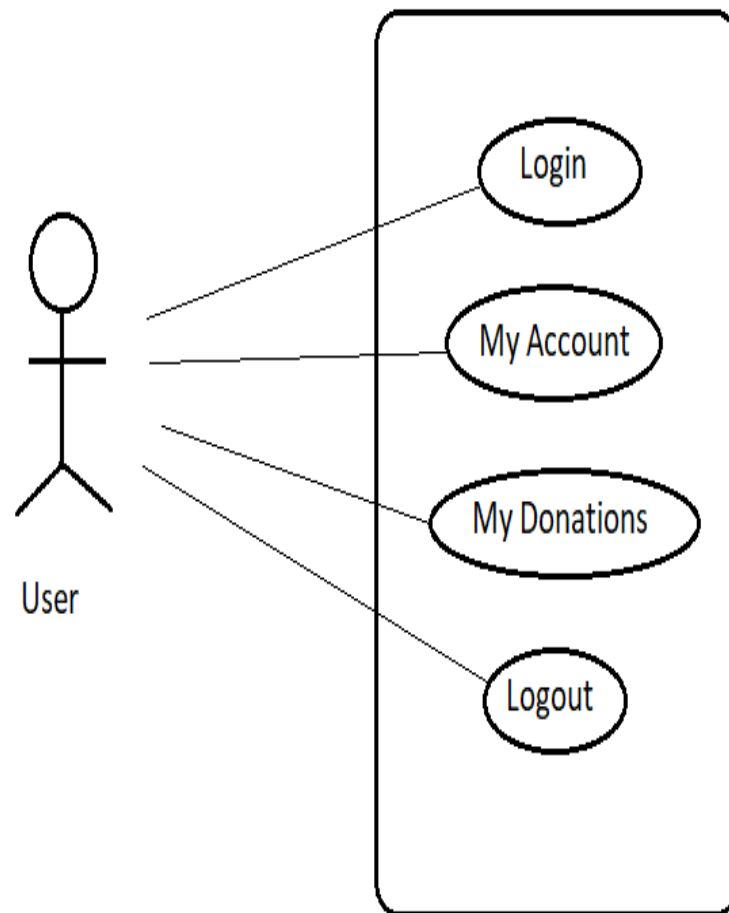
#### 2.1.1 Complete system



## 2.1.2 Administrator task



### 2.1.3 User task



## **2.2 System requirements**

### **2.2.1 Hardware requirements**

Processor : Pentium 2.4 GHz or above  
Memory : 256 MB RAM or above  
Cache memory : 128 KB or above  
Hard disk : 10 GB or above (at least 3 MB free space required)

### **2.2.2 Software requirements**

Operating system : Ubuntu / Windows-10  
Front-End Tool : Angular 11 using bootstrap  
Back-End Tool : Java (Spring boot)  
Database : MySql



## 3. Design

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### 3.1 System design

#### What is a Methodology?

Software engineering is carried out by using preferred procedure techniques to progress the quality of a software development effort. A methodology is defined as a collection of procedures, techniques, tools, and documentation aids which will help developers in their efforts (both product and process related activities) to implement a new system. For successful implementation, a well-organized and systematic approach is crucial. Therefore, several methodologies were developed to encourage the systematic approach to planning, analysis, design, testing and implementation. Methodologies offer various tools and techniques to assist in analysis, design and testing in terms of detailed design of software, data flowcharts and database design.

#### Why Methodology?

To complete a project within time and budget with the expected scope and quality we need methodologies which provide for a framework.

Most methodologies have a general planning, developing and managing stages in common. They suggest the development team the ways of thinking, learning and arriving at a regular feasible solution.

**To select an ideal methodology was based on project requirements and goals.**

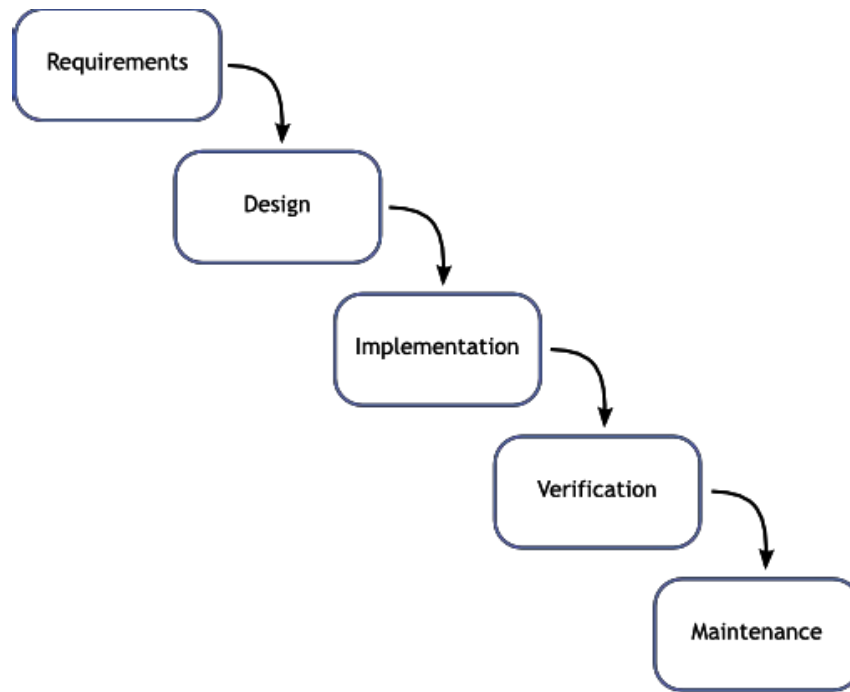
- **Functional Decomposition:** The methodology should have stages according to the interrelated activities which can be grouped into different functional areas.
- **Requirement Changes:** If required, methodology provides scope to change the requirement.
- **Manage Risks:** Determined the risk is an important activity to develop a project.

- **Iterative approach:** Iteration allows refinement of requirement as well as design.
- **Documentation:** Methodology provides support for large documentation.
- **Analysis and Design Support:** A well-defined structure of the methodology helps for analysis and designing to development process.
- **Implementation:** The system should be implemented as per plan.
- **Testing Support:** More testing, more reliable the product is.
- **Object Oriented Approach:** Object oriented concepts will be used in developing the project as it supports component reusability.

### **Suitable Methodologies:**

#### **Waterfall Methodology**

All projects can be managed better when segmented into a hierarchy of chunks such as phases, stages, activities, tasks and steps. It follows a linear structure starting from requirement analysis, through design, implementation and maintenance. Most widely accepted methodology for student projects, this model has been well tried and tested. Each phase of it has sub phases which produce deliverables. Requirements are fixed at initial stages before proceeding with development plans in system development projects; the simplest rendition of this is called the "waterfall" methodology, as shown in the following figure:



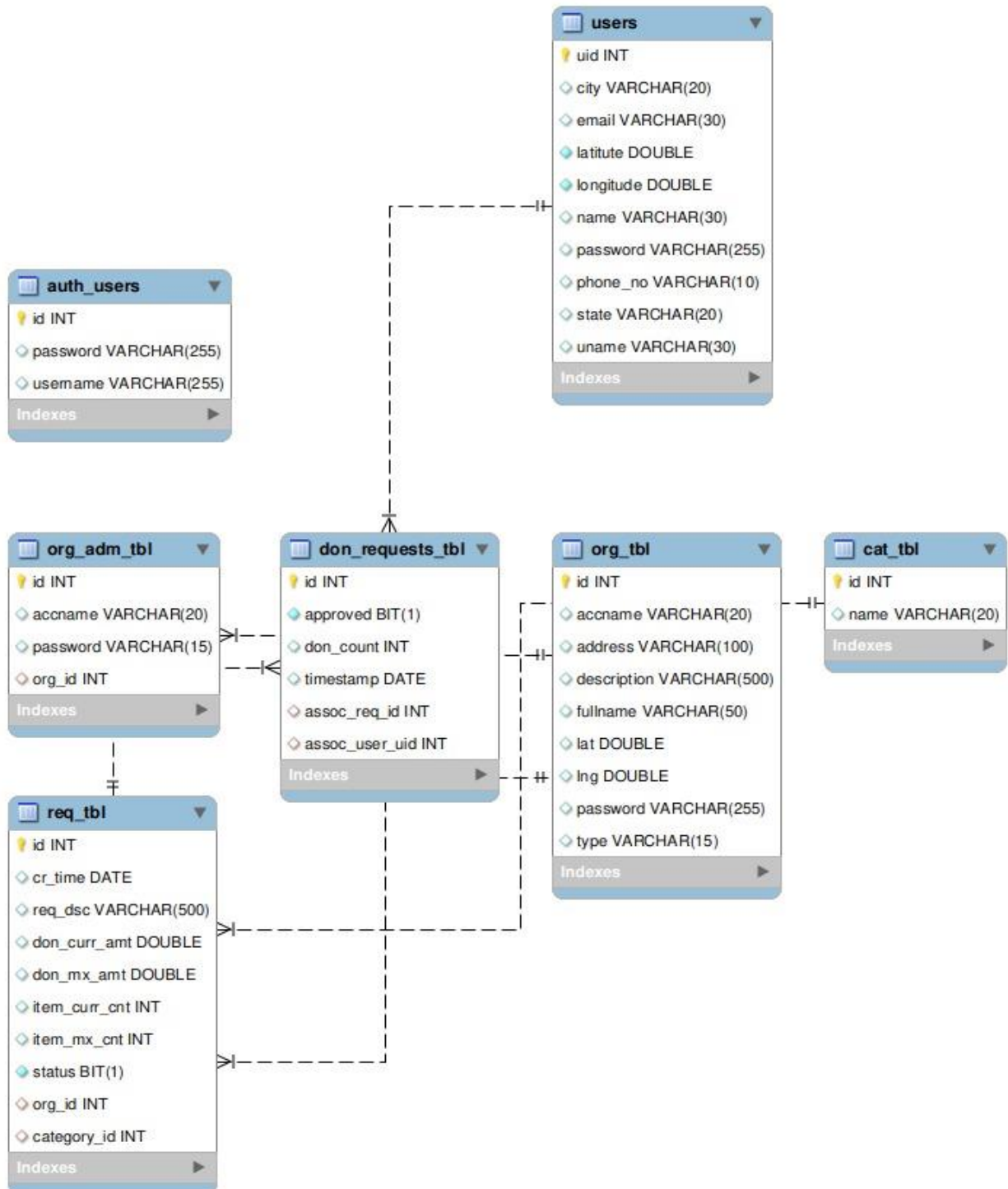
Waterfall model

The graphic illustrates a few critical principles of a good methodology:

- Work is done in stages,
- Content reviews are conducted between stages, and
- Reviews represent quality gates and decision points for continuing.

The waterfall provides an orderly sequence of development steps and helps ensure the adequacy of documentation and design reviews to ensure the quality, reliability, and maintainability of the developed software. While almost everyone these days disparages the "waterfall methodology" as being needlessly slow and cumbersome, it does illustrate

### 3.2 ER diagram



### 3.3 Database design

#### Users Table:-

```
mysql> desc users;
```

Field	Type	Null	Key	Default	Extra
uid	int	NO	PRI	NULL	auto_increment
city	varchar(20)	YES		NULL	
email	varchar(30)	YES	UNI	NULL	
latitude	double	NO		NULL	
longitude	double	NO		NULL	
name	varchar(30)	YES		NULL	
password	varchar(255)	YES		NULL	
phone_no	varchar(10)	YES		NULL	
state	varchar(20)	YES		NULL	
uname	varchar(30)	YES	UNI	NULL	

#### Organization Table:-

```
mysql> desc org_tbl;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
accname	varchar(20)	YES		NULL	
address	varchar(100)	YES		NULL	
description	varchar(500)	YES		NULL	
fullname	varchar(50)	YES		NULL	
lat	double	YES		NULL	
lng	double	YES		NULL	
password	varchar(255)	YES		NULL	
type	varchar(15)	YES		NULL	

## Category Table:-

```
mysql> desc cat_tbl;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| id     | int           | NO   | PRI | NULL    | auto_increment |
| name   | varchar(20)   | YES  |     | NULL    |                |
+-----+-----+-----+-----+-----+-----+
```

## Requirement Table:-

```
mysql> desc req_tbl;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| id             | int           | NO   | PRI | NULL    | auto_increment |
| cr_time        | date          | YES  |     | NULL    |                |
| req_dsc        | varchar(500)  | YES  |     | NULL    |                |
| don_curr_amt   | double        | YES  |     | NULL    |                |
| don_mx_amt     | double        | YES  |     | NULL    |                |
| item_curr_cnt  | int           | YES  |     | NULL    |                |
| item_mx_cnt    | int           | YES  |     | NULL    |                |
| status         | bit(1)        | NO   |     | NULL    |                |
| org_id         | int           | YES  | MUL | NULL    |                |
| category_id    | int           | YES  | MUL | NULL    |                |
+-----+-----+-----+-----+-----+-----+
```

### Donation requests Table:-

```
mysql> desc don_requests_tbl;
```

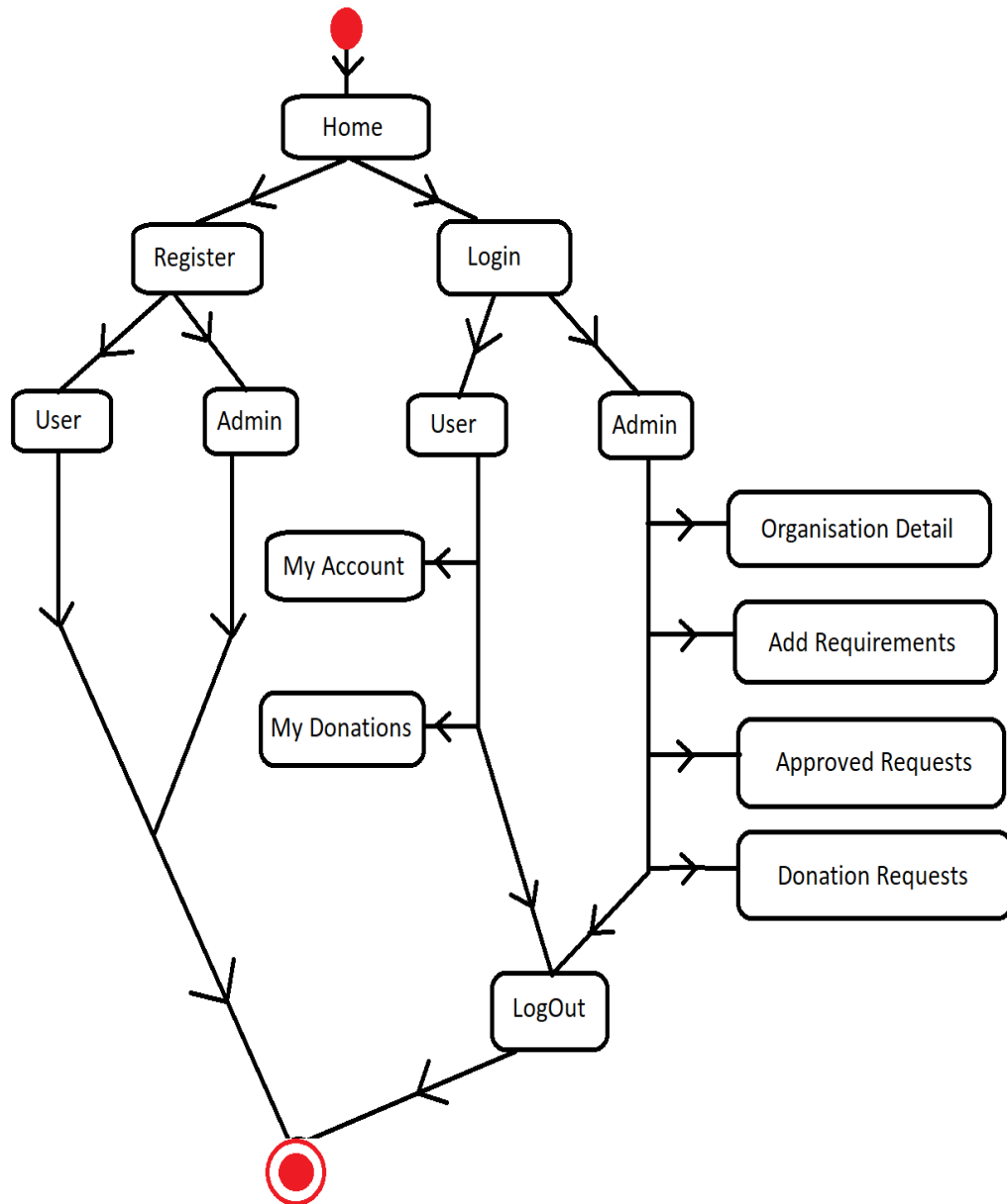
Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
approved	bit(1)	NO		NULL	
don_count	int	YES		NULL	
timestamp	date	YES		NULL	
assoc_req_id	int	YES	MUL	NULL	
assoc_user_uid	int	YES	MUL	NULL	

### Organization images Table:-

```
mysql> desc org_images;
```

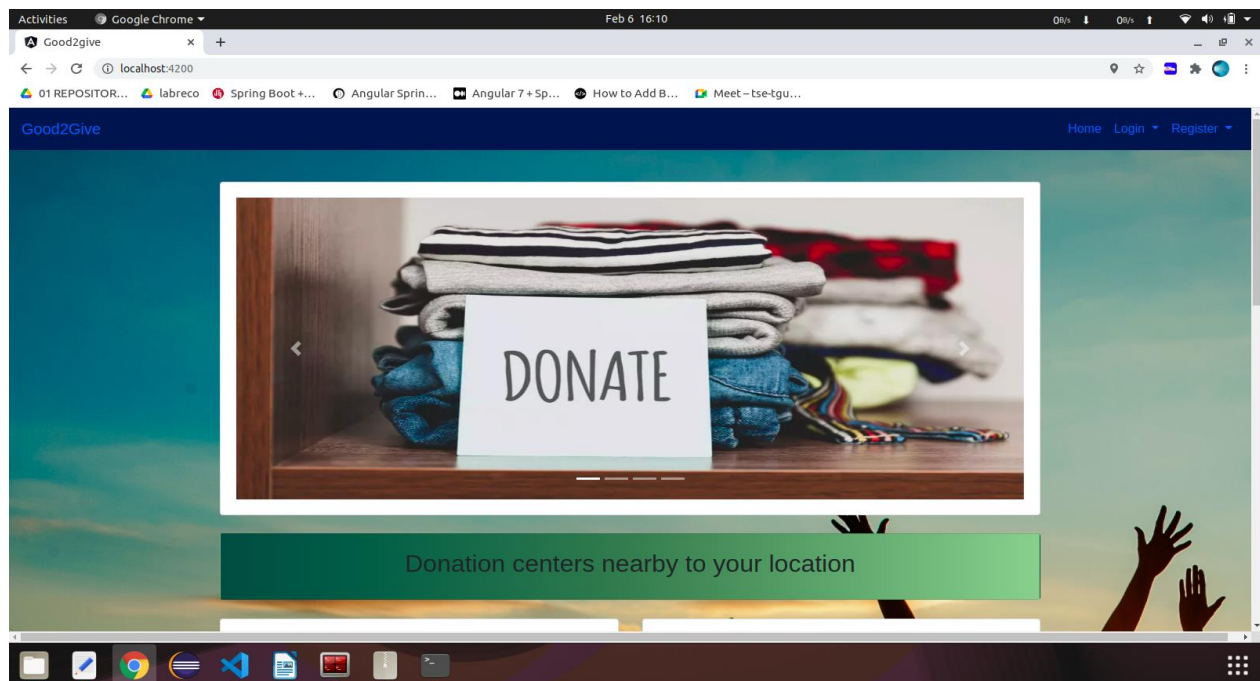
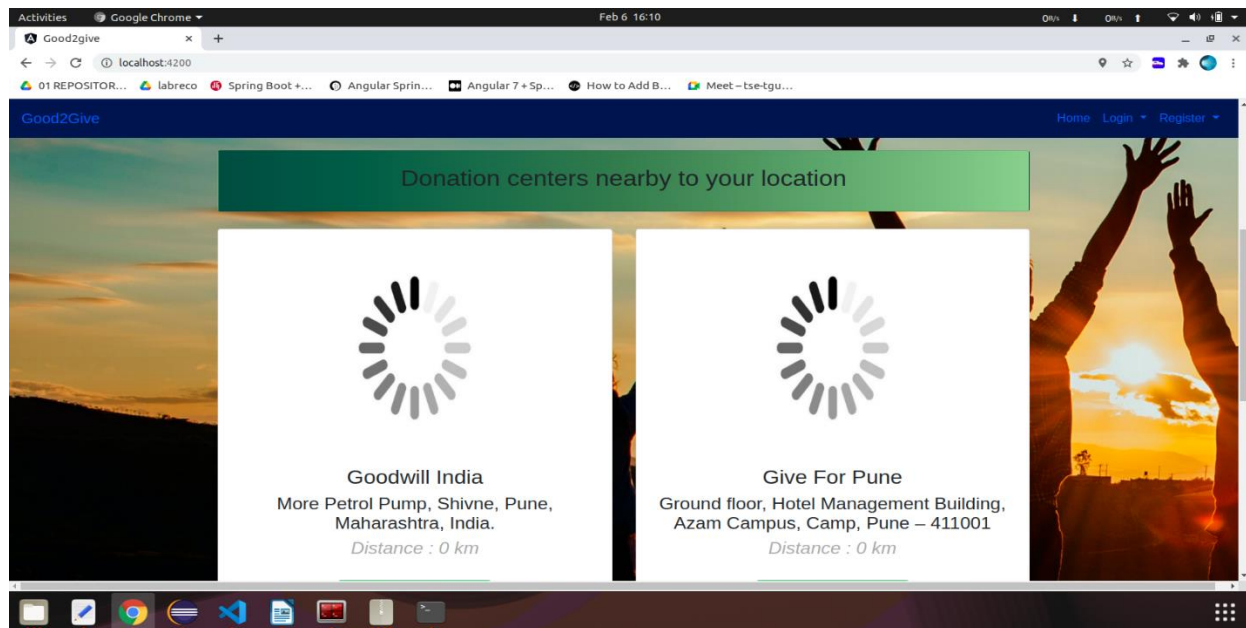
Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	
image	longblob	YES		NULL	
image_content_type	varchar(30)	YES		NULL	
assoc_org_id	int	YES	MUL	NULL	

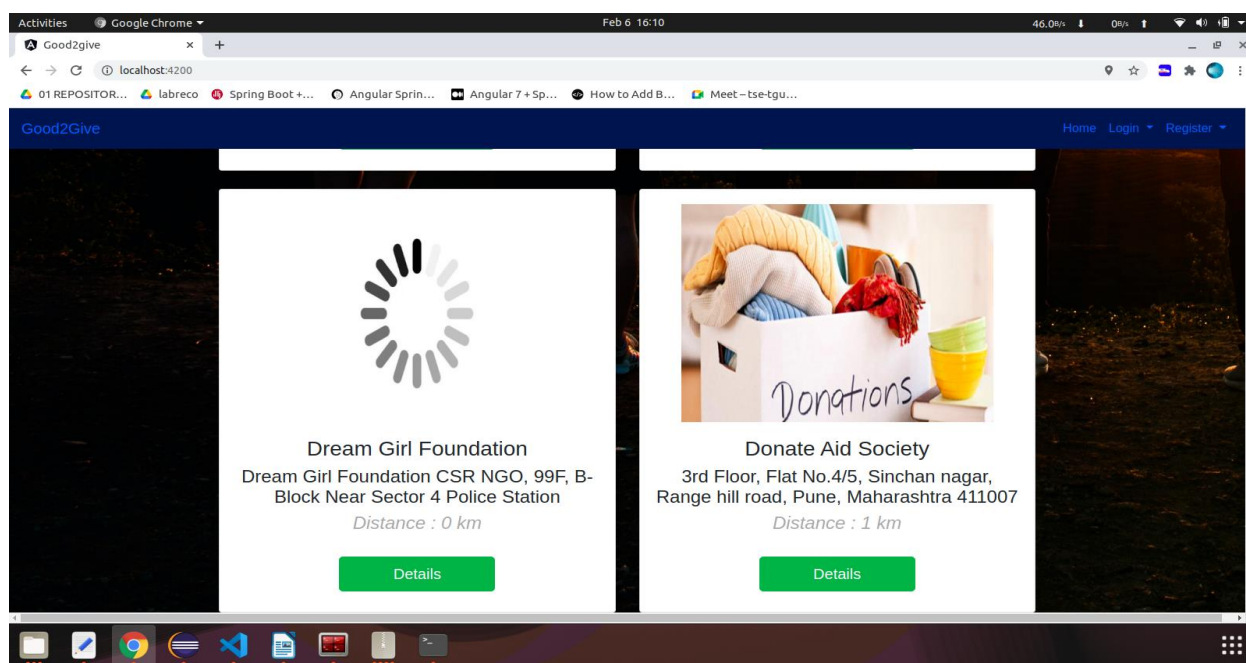
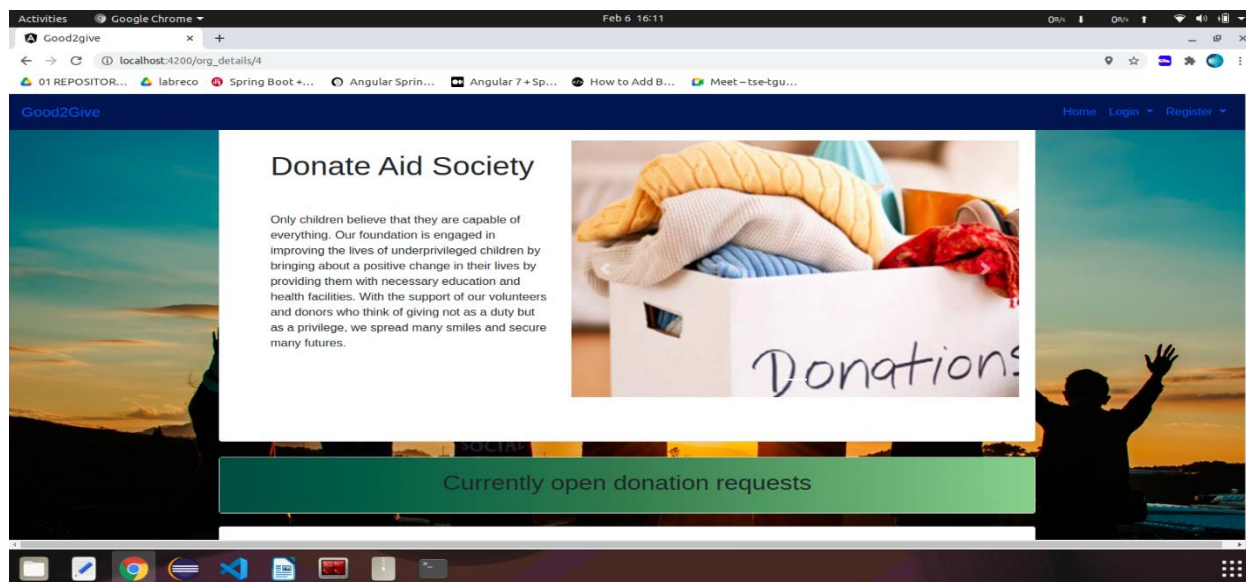
### 3.4 Activity diagram

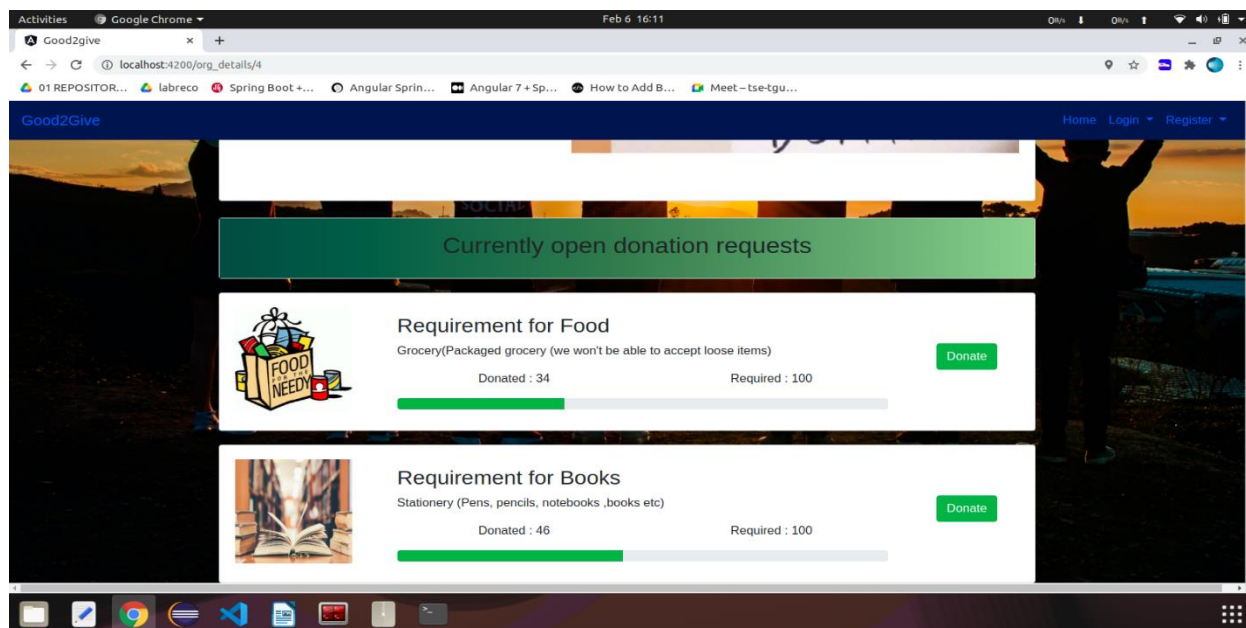
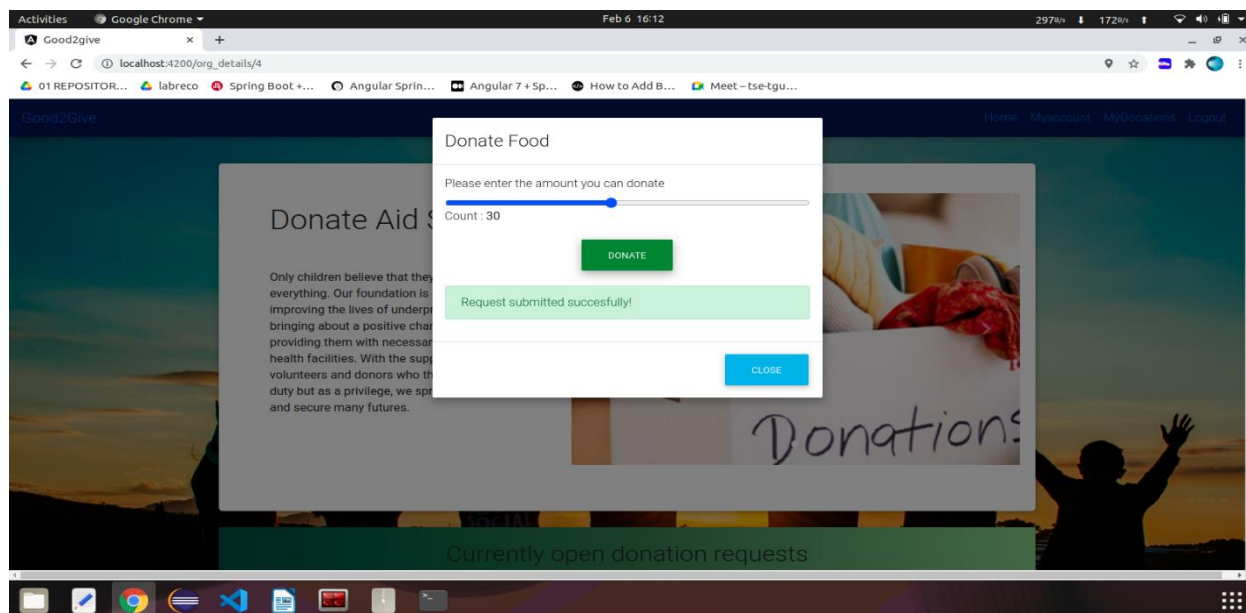




## 4. Interface







Activities Google Chrome Feb 6 16:13

Good2give localhost:4200/mydonation

01 REPOSITOR... labreco Spring Boot +... Angular Sprin... Angular 7 + Sp... How to Add B... Meet - tse-tgu...

Good2Give Home Myaccount MyDonations Logout

### Donation List

Donation Id	CategoryName	Qty Donated	Date	Donation Cente Details
1	Cloths	21	2021-02-05	<a href="#">VIEW DETAILS</a>
2	Books	31	2021-02-05	<a href="#">VIEW DETAILS</a>
5	Cloths	29	2021-02-05	<a href="#">VIEW DETAILS</a>

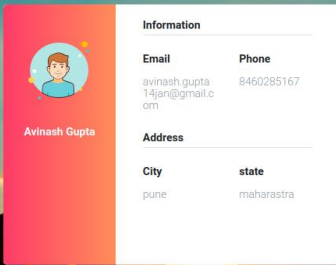
Activities Feb 6 16:13

Activities Google Chrome Feb 6 16:13

Good2give localhost:4200/useracc

01 REPOSITOR... labreco Spring Boot +... Angular Sprin... Angular 7 + Sp... How to Add B... Meet - tse-tgu...

Good2Give Home Myaccount MyDonations Logout



**Information**

**Email** Phone

avinash.gupta 8460285167  
14jan@gmail.c  
om

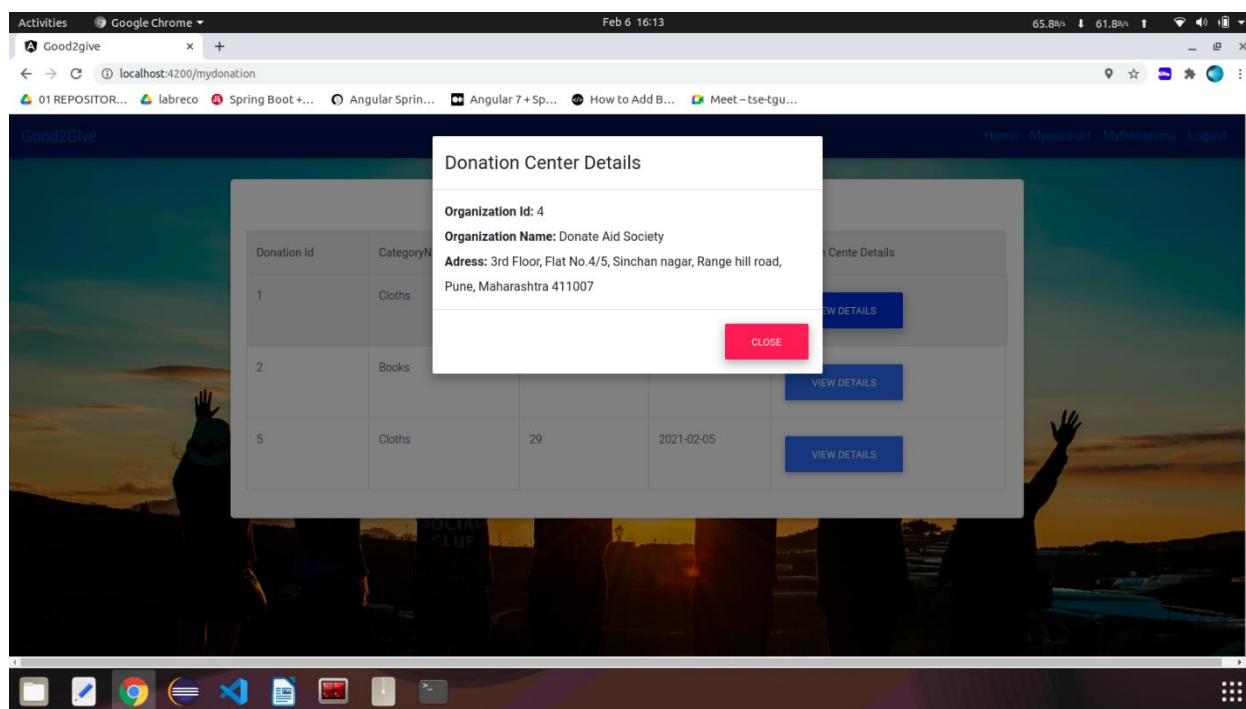
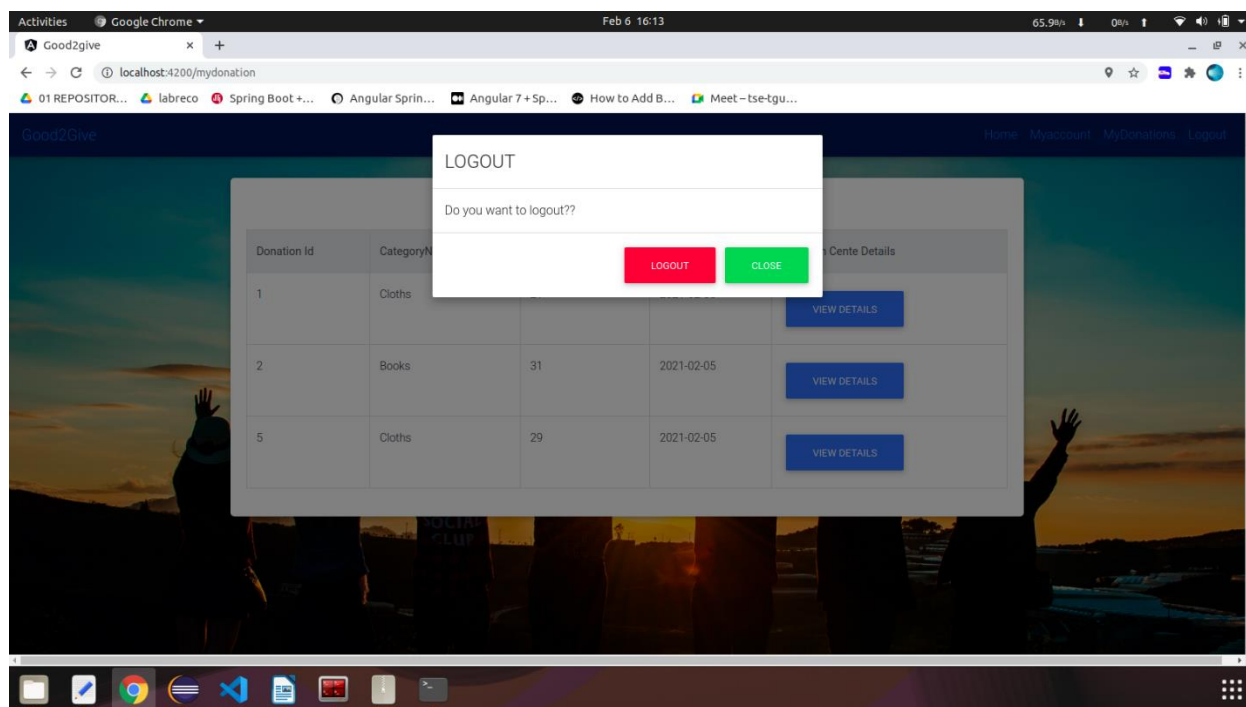
**Address**

**City** **state**

pune maharashtra


Activities Feb 6 16:13






Good2Give Home Login Register

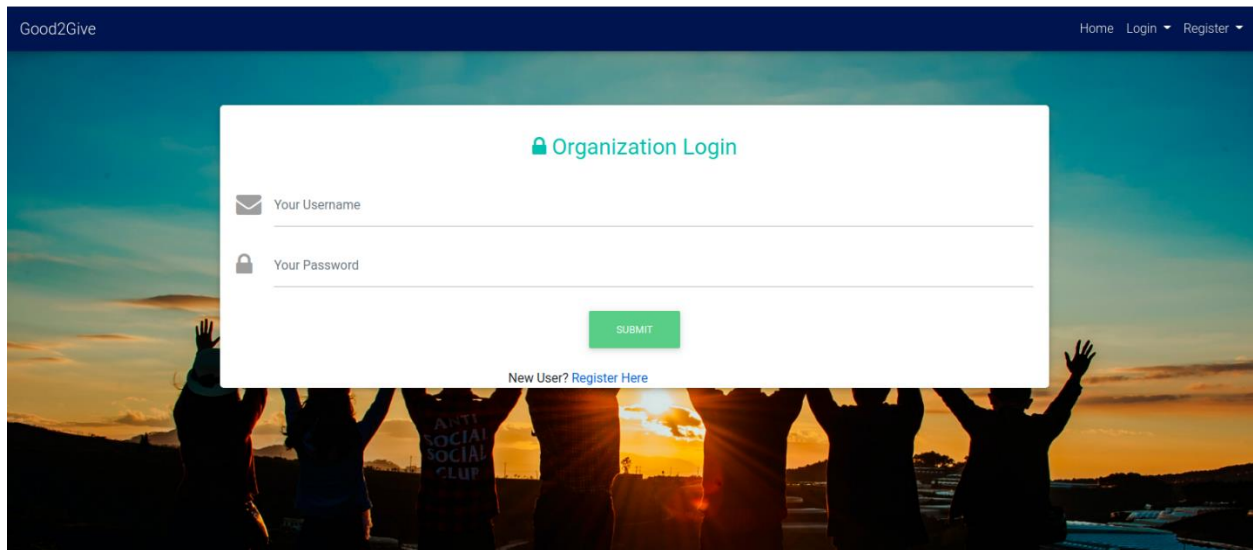
### Organization Login

 Your Username

 Your Password


[SUBMIT](#)


New User? [Register Here](#)



Good2Give Home Login Register

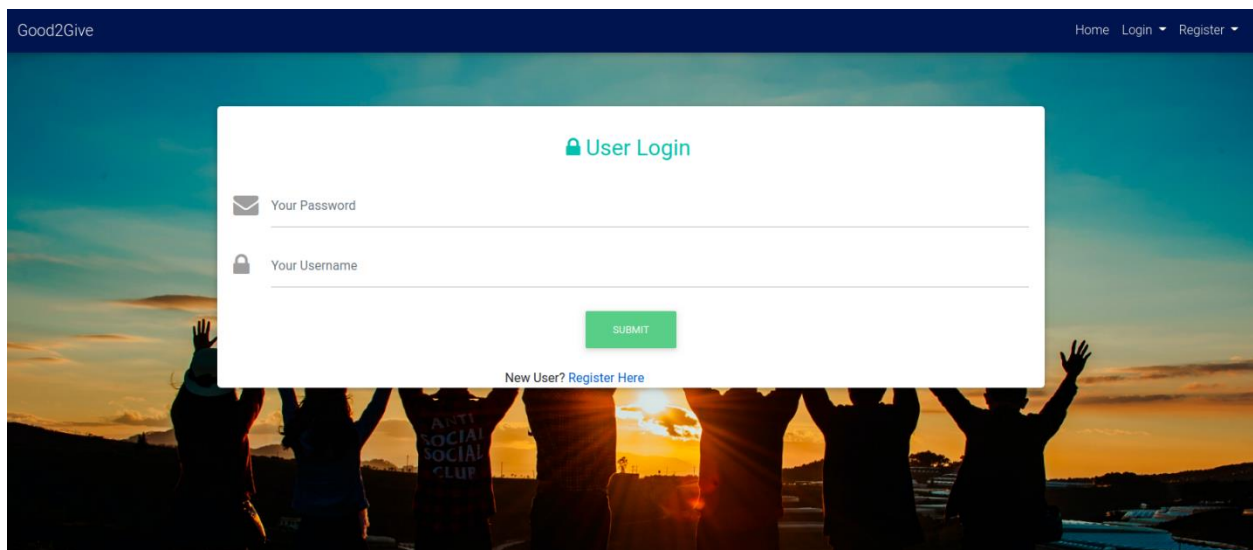
### User Login

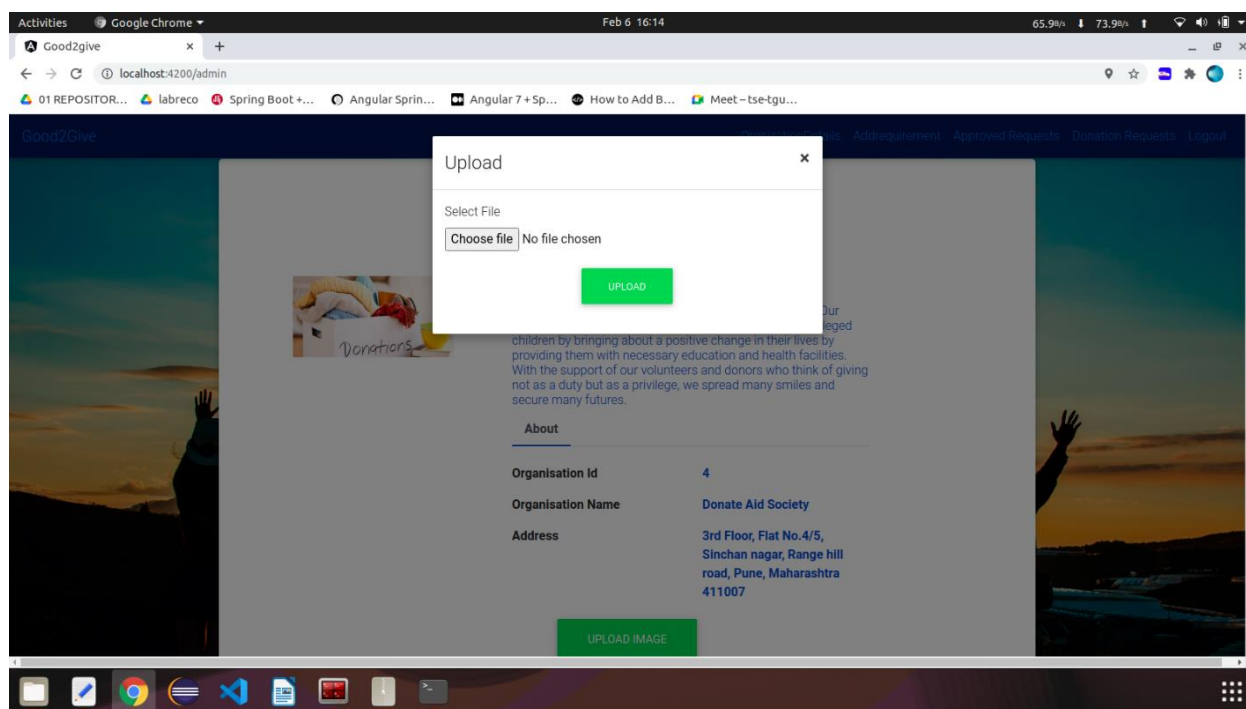
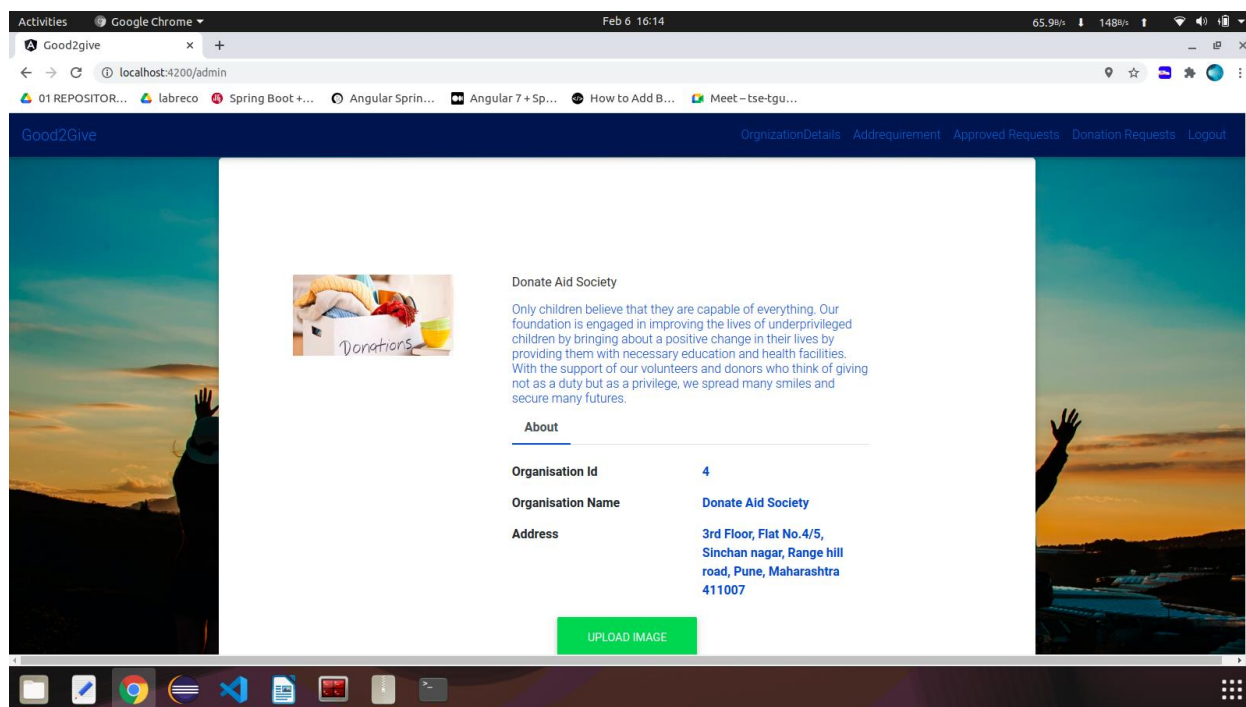
 Your Password

 Your Username

[SUBMIT](#)

New User? [Register Here](#)





Activities Google Chrome Feb 6 16:14 296% 74.0%

Good2give localhost:4200/addrreq

01 REPOSITOR... labreco Spring Boot +... Angular Sprin... Angular 7 + Sp... How to Add B... Meet - tse-tgu...

Good2Give OrganizationDetails AddRequirement Approved Requests Donation Requests Logout

### Enter Requirements for Your Organisation

Today's Date:  
Sat Feb 06 2021

Type Of Requirement:-

Items ☐ Money ☐

Description

1

Activities Google Chrome Feb 6 16:14 1,50% 71.0%

Good2give localhost:4200/approved

01 REPOSITOR... labreco Spring Boot +... Angular Sprin... Angular 7 + Sp... How to Add B... Meet - tse-tgu...

Good2Give OrganizationDetails AddRequirement Approved Requests Donation Requests Logout

### Donation List

Creation Date	Description	Required	Fulfilled	Status	
2021-02-05	Clothes (Old or new, in good wearable condition)	50	50	Served	<a href="#">DETAILS</a>
2021-02-05	Grocery(Packaged grocery (we won't be able to accept loose items))	100	34	Pending	<a href="#">DETAILS</a>
2021-02-05	Stationery (Pens, pencils, notebooks ,books etc)	100	46	Pending	<a href="#">DETAILS</a>

1



Activities Google Chrome Feb 6 16:15

Good2give localhost:4200/approved

01 REPOSITORY... labreco Spring Boot +... Angular Sprin... Angular 7 + Sp... How to Add B... Meet - tse-tgu...

Good2Give Approved Requests Donation Requests Logout

Details of Donour

Donor Name	Quantity/Amt.	Date	Contact No
Avinash Gupta	21	2021-02-05	8460285167
Avinash Gupta	29	2021-02-05	8460285167

Close

Creation Date

2021-02-05

Served

Details

2021-02-05	Grocery(Packaged grocery (we won't be able to accept loose items)	100	34	Pending	Details
2021-02-05	Stationery (Pens, pencils, notebooks ,books etc)	100	46	Pending	Details

Activities Google Chrome Feb 6 16:15

Good2give localhost:4200/approved

01 REPOSITORY... labreco Spring Boot +... Angular Sprin... Angular 7 + Sp... How to Add B... Meet - tse-tgu...

Good2Give Approved Requests Donation Requests Logout

Details of Donour

Donor Name	Quantity/Amt.	Date	Contact No
Avinash Gupta	21	2021-02-05	8460285167
Avinash Gupta	29	2021-02-05	8460285167

Close

Creation Date

2021-02-05

Served

Details

2021-02-05	Grocery(Packaged grocery (we won't be able to accept loose items)	100	34	Pending	Details
2021-02-05	Stationery (Pens, pencils, notebooks ,books etc)	100	46	Pending	Details

Activities Google Chrome Feb 6 16:15 42.0% 0% 0% 0%

Good2give localhost:4200/approved

01 REPOSITORY... labreco Spring Boot +... Angular Sprin... Angular 7 + Sp... How to Add B... Meet - tse-tgu...

Good2Give Approved Requests Donation Requests Logout

Details of Donour

Donor Name	Quantity/Amt.	Date	Contact No
Mukul Yadav	34	2021-02-05	8460285167

Close

Creation Date	Description	Quantity	Amt	Status	Details
2021-02-05	Clothes (Old or new, in good wearable condition)	50	50	Served	Details
2021-02-05	Grocery(Packaged grocery (we won't be able to accept loose items)	100	34	Pending	Details
2021-02-05	Stationery (Pens, pencils, notebooks ,books etc)	100	46	Pending	Details

01 REPOSITORY... labreco Spring Boot +... Angular Sprin... Angular 7 + Sp... How to Add B... Meet - tse-tgu...

Activities Google Chrome Feb 6 16:18 0% 0% 0% 0%

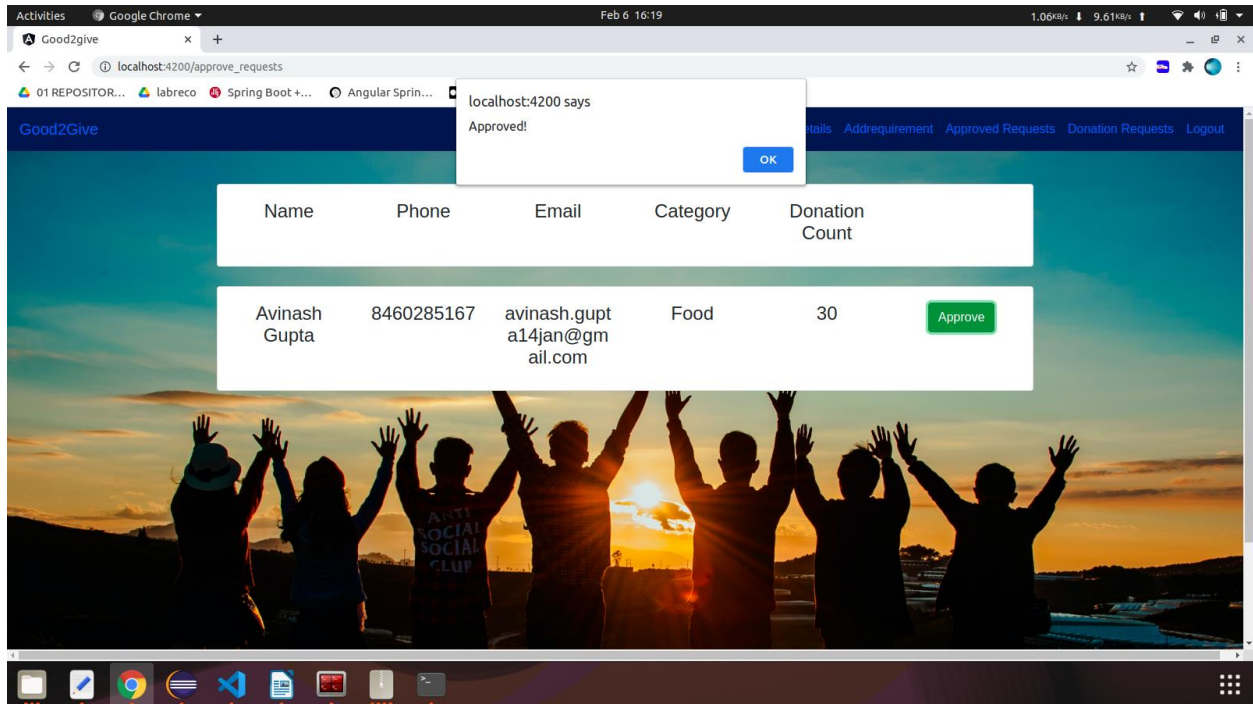
Good2give localhost:4200/approve\_requests

01 REPOSITORY... labreco Spring Boot +... Angular Sprin... Angular 7 + Sp... How to Add B... Meet - tse-tgu...

Good2Give OrganizationDetails Addrequirement Approved Requests Donation Requests Logout

Name	Phone	Email	Category	Donation Count	
Avinash Gupta	8460285167	avinash.gupta14jan@gmail.com	Food	30	Approve

01 REPOSITORY... labreco Spring Boot +... Angular Sprin... Angular 7 + Sp... How to Add B... Meet - tse-tgu...



## **5. Test report**

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One of the purposes of the testing is to validate and verify the system. Verification means checking the system to ensure that it is doing what the function is supposed to do and Validation means checking to ensure that system is doing what the user wants it to do.

No program or system design is perfect; communication between the user and the designer is not always complete or clear, and time is usually short. The result is errors and more errors. Theoretically, a newly designed system should have all the pieces in working order, but in reality, each piece works independently. Now is the time to put all the pieces into one system and test it to determine whether it meets the user's requirements. This is the best chance to detect and correct errors before the system is implemented. The purpose of system testing is to consider all the likely variations to which it will be subjected and then push the system to its limits. If we implement the system without proper testing then it might cause the problems.

The report of the testing is given here under:

Sr. No	Test Case Title	Description	Expected Outcome	Error Message	Result
1	Login Page- Admin	If Username=user id, Password= Admin Password	If Validated allow for Admin Page  If not redirect to same page	Username and password required	Passed
2	Login Page – User	If Username=user id, Password= User Password	If Validated allow for User Home Page  If not redirect to same page	Username and password required	Passed
3	Home page Displayed	Homepage display for every successful log in.	Home Page Displayed	No Error	Passed
4	Show Requirement List	Admin can see status of Requirements created by him.	Requirement List	No Error	Passed
5	New Admin registration	Should not allow any control to be empty if not null	Successful message and redirect to login page.	No Error	passed
6	Send email During registration	Successful email send after registration to users email	If valid email	No Error	Passed
7	New user registration	Should not allow any control to be empty if not null	If validated Allow to go to login page	Validation Error	Passed
8	Log out	User / Admin can logout by using Logout link	Successfully logout message	No Error	Passed

## 6. Future scope

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- System can be expanded with availability over worldwide
- Reaching as close as possible of the donor from emergency zone
- A smart phone application of the system can be mode
- Monetary Donation with payment gateway integration can be implemented in future

## 7. References

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<https://www.w3schools.com/>

<https://angular.io/docs>

<https://spring.io/guides/gs/spring-boot/>

[https://www.tutorialspoint.com/spring\\_boot/spring\\_boot\\_introduction.htm](https://www.tutorialspoint.com/spring_boot/spring_boot_introduction.htm)