

Dharmsinh Desai University, Nadiad

Faculty of Technology



Department of Computer Engineering

B. Tech. CE Semester – VI

Subject: System Design Practice

Project Title: NGO System

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Dharmsinh Desai University, Nadiad

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CERTIFICATE

This is to certify that System Design Practice Project entitled “**NGO System**”

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of Department of Computer Engineering ,Semester VI , academic year 2019-2020, under our supervision and guidance.

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Abstract

The project report upon the “**NGO System**” will provide various event information and one can donate with this website.

It is a system that enables users to check for different event available at the website and can register his/her self for volunteering on the site. He may even donate through a debit card/credit card. Once the donor makes an effective transaction he gets confirmation of donation. Donor can also donate other things like books, dresses, food etc. for that they can also send pickup request to NGO. One can also get location of our centers through map.

Introduction

1.1 PROJECT OVERVIEW:

The project comprises the list of available events displayed on different dates. He can even pay through a credit card or debit card. Once the donor makes an effective transaction he gets a confirmation message.

1.2 PURPOSE: GOALS & OBJECTIVES

The purpose of this project is to develop the user friendly and interactive website which will allow the user to donate online. user will be able to search and can send request for volunteering and can donate in terms of online Payments through Credit card/debit card and Get the confirmation message.

The main purpose of this project is giving flexibility to the Information as this website plays main role at admin side. Without login or any Customer, who have not idea about event, They easily Find and register themselves. Anyone will be able to open this site and get the information about the event details and can see achievements of NGO.

1.3 SCOPE

The aim of the project is to build a simple, effective computerized NGO system along with displaying the information of any types of query of event information in my web application.

Functions for user

- Registration
- Login
- Search event date and place wise
- Request for volunteering
- Donate money/other things
- Go For Checkout
- Edit account information
- Add Feedback

Functions for the Admin

- Admin Login
 - Manage All volunteer
 - Manage event details
 - View transaction/donated amount
 - Reply to feedback
-
- **Software requirement :**
 - Operating System : Microsoft Windows 7/8 or higher
 - Language: node js , Express js
 - Front End: HTML, CSS, JavaScript , Bootstrap , JQuery
 - Back-End : Node.js, Express js, phpMyAdmin
 - Designing Tool : Xampp
 - Documentation Tool: Ms-Word 2016, ERD Plus,Umlet

Software Requirement Specification for NGO System

Types of users:

- Admin
- Client

Client-

R1. Registration

Description: user enters personal details like name, email, phone number, address, Password

Input - Details are entered

Output - Successfully registered message

R2. Login

Description: user enters email and password

Input - Details are entered

Output - Successfully login message

R3. Manage donation

R3.1. Donation

Description: user enters type of donation(money or materialistic item), Name, email,phone number

Input-details are entered

Output-payment page (if money is donated)

R3.2.Payment

Description: user enters card name, card number, CVV and expiry date

Input-Details are entered

Output- confirmation message: Payment done successfully

R4. Apply as volunteer

Description: user can apply as volunteer in different events organized by ngo by entering name, email, phone number, address

Input - Details are entered

Output – confirmation message will be displayed

R5. Get Help

Description: description about problem is entered, name, phone number(optional), email

Input- details are entered

Output- Message sent

R6. Write to us

Input- user can give feedback or suggestions

Output- Message sent

ADMIN-

R1. Login

Description: user enters email and password

Input- Details are entered

Output- Successfully login message

R2. Manage event

Description- admin can add, update and delete event details

R2.1. Add event

Input- event details like title, place, date, description, guest name

Output- event added successfully

R2.2. Delete event

Input- User selection

Output- event deleted successfully

R2.3. update event information

Input- event details

Output- event information updated successfully

R3. Manage volunteer

Description- admin can choose and see volunteer details

Input- user selection

Output- confirmation message sent.

R4. display donation

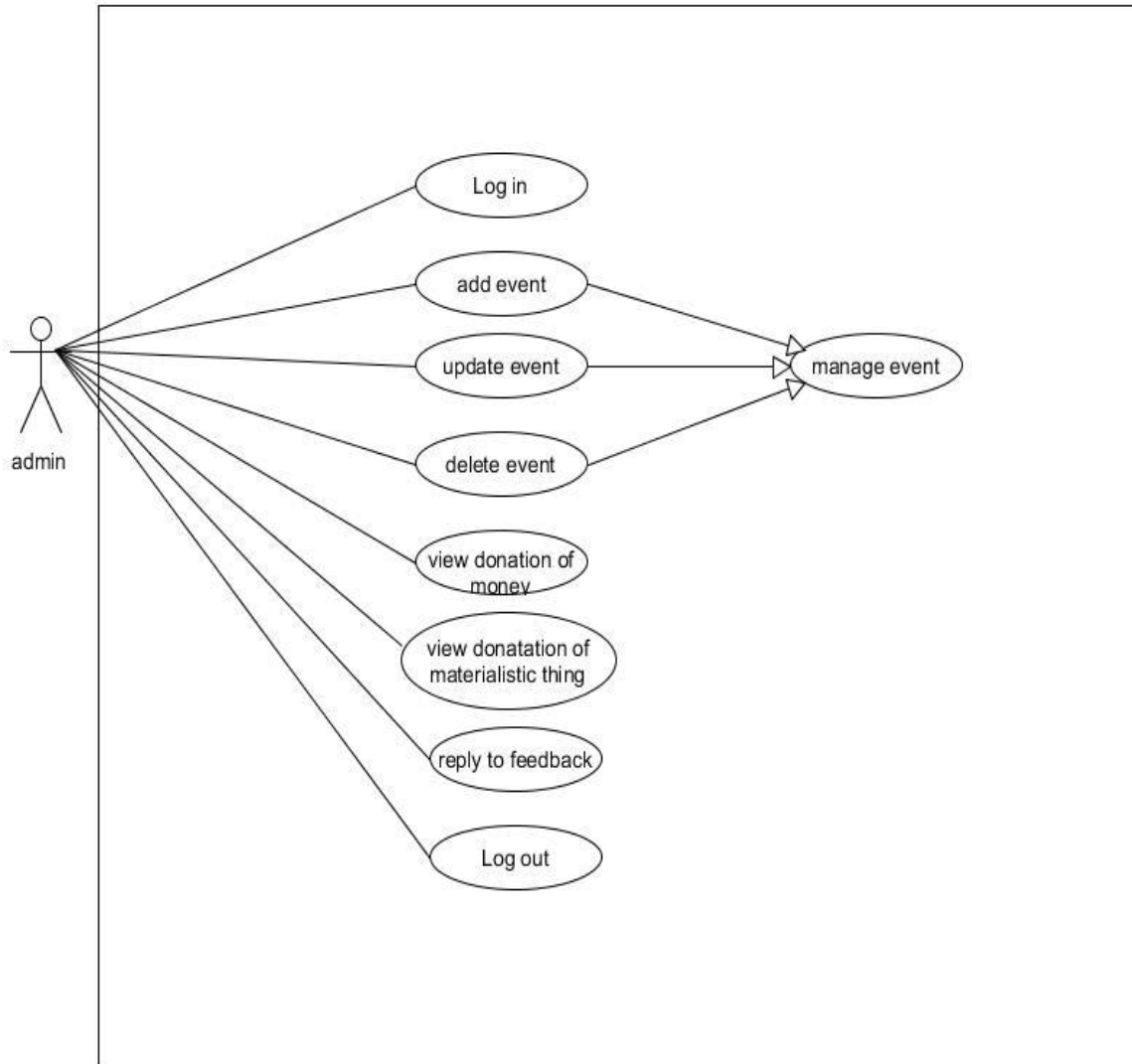
Description- admin can see donor's details and their contribution.

Input- user selection

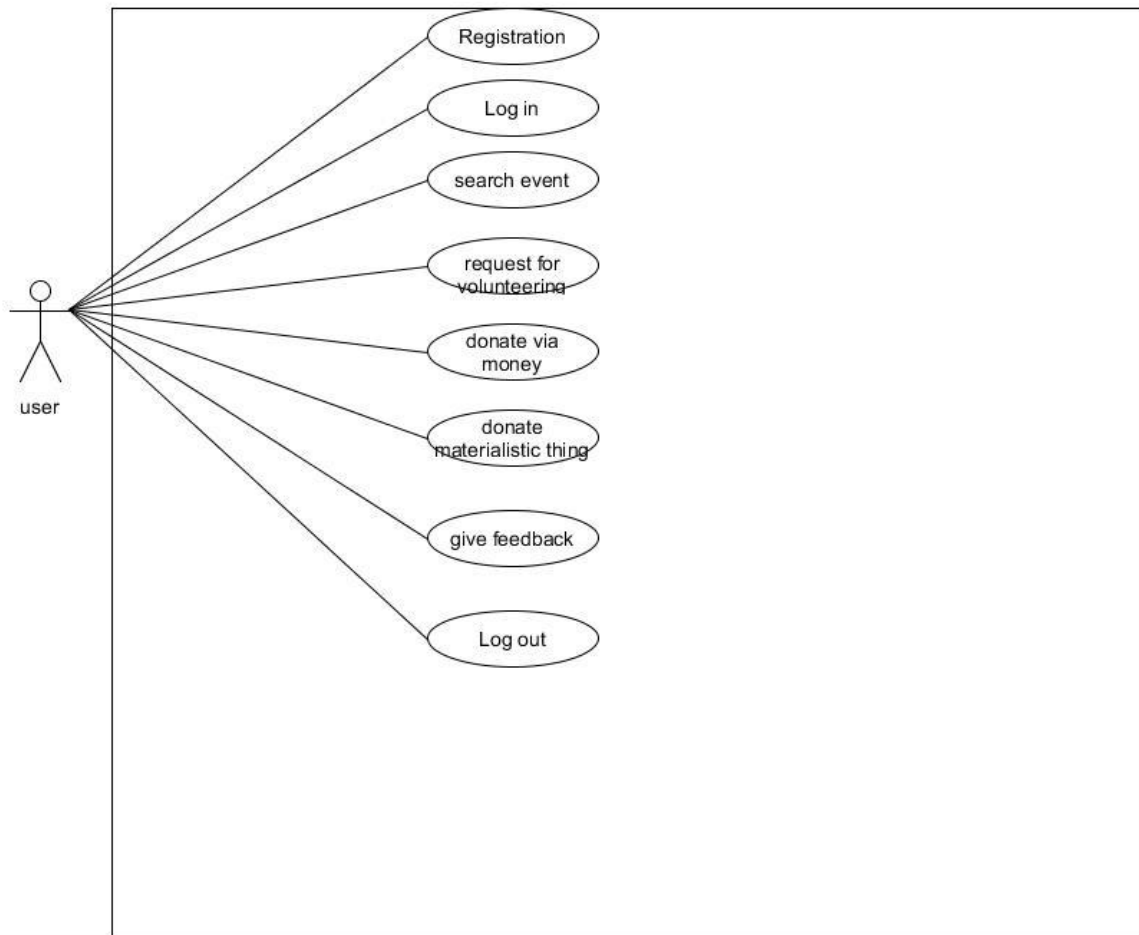
Output- list of donors.

Design

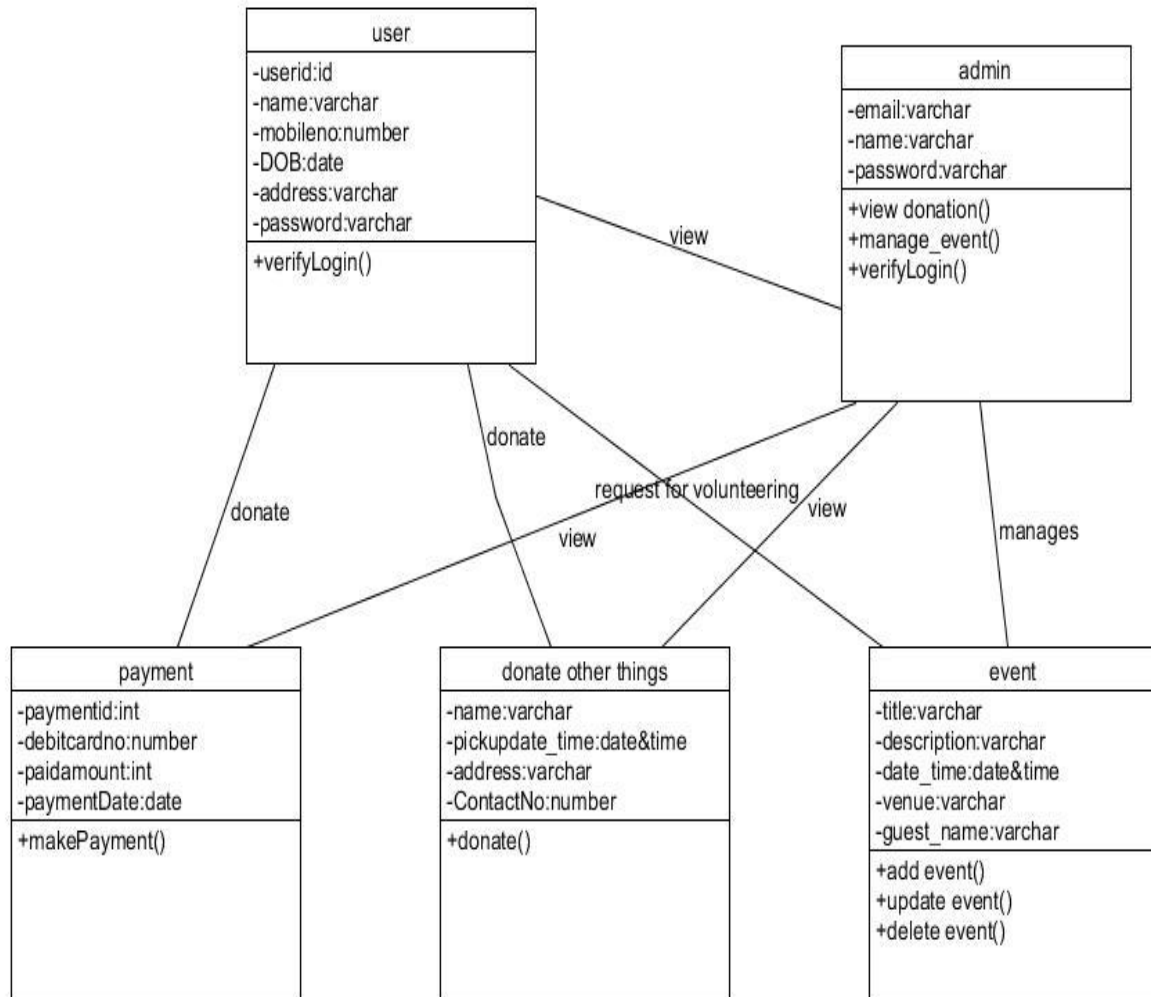
1) use case diagram Admin side:-



User side use case diagram:-



2) Class Diagram:-

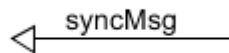


3) Sequence diagram:-

Types of Messages in Sequence Diagrams

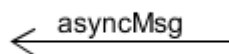
Synchronous Message

A synchronous message requires a response before the interaction can continue.



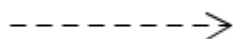
Asynchronous Message

Asynchronous messages don't need a reply for interaction to continue.



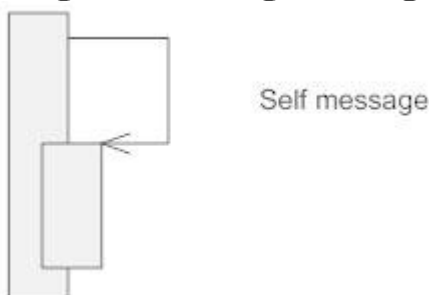
Reply or Return Message

A reply message is drawn with a dotted line and an open arrowhead pointing back to the original lifeline.

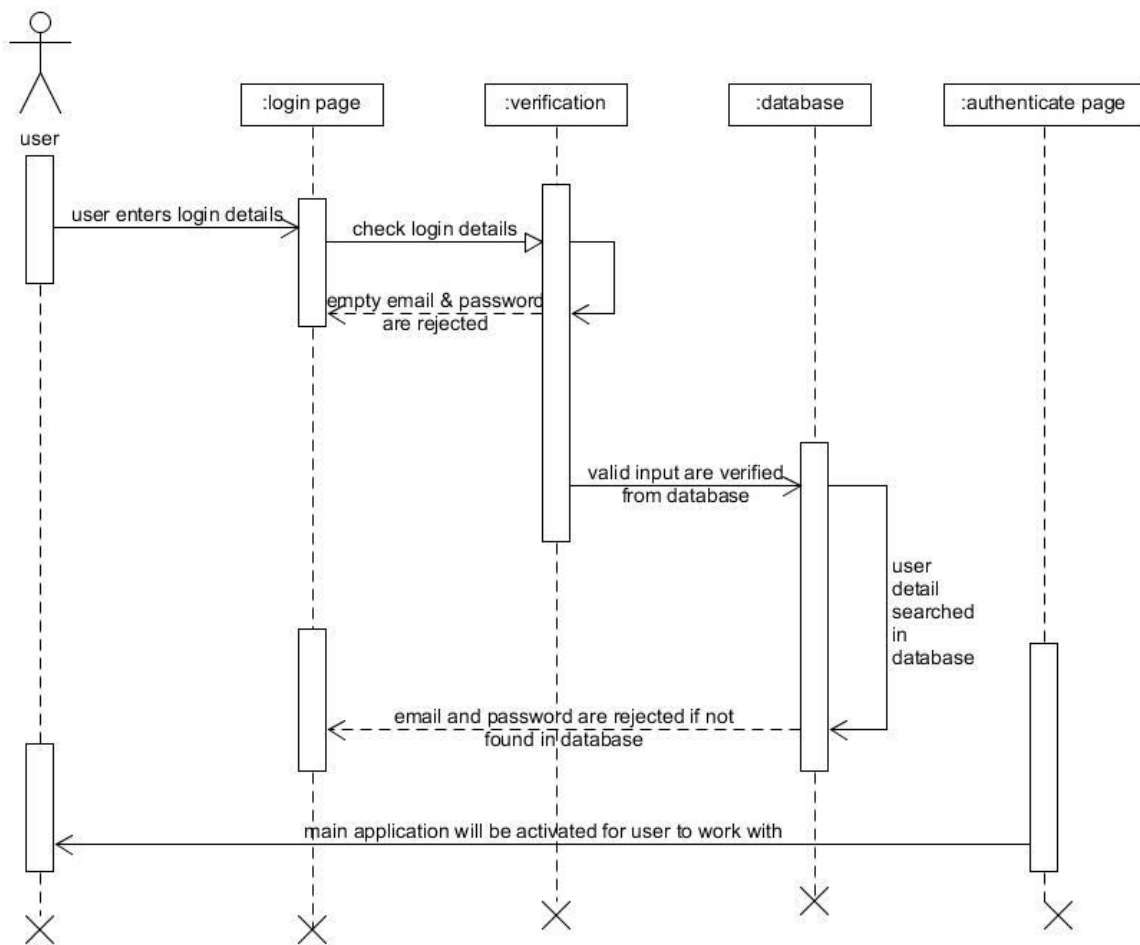


Self Message

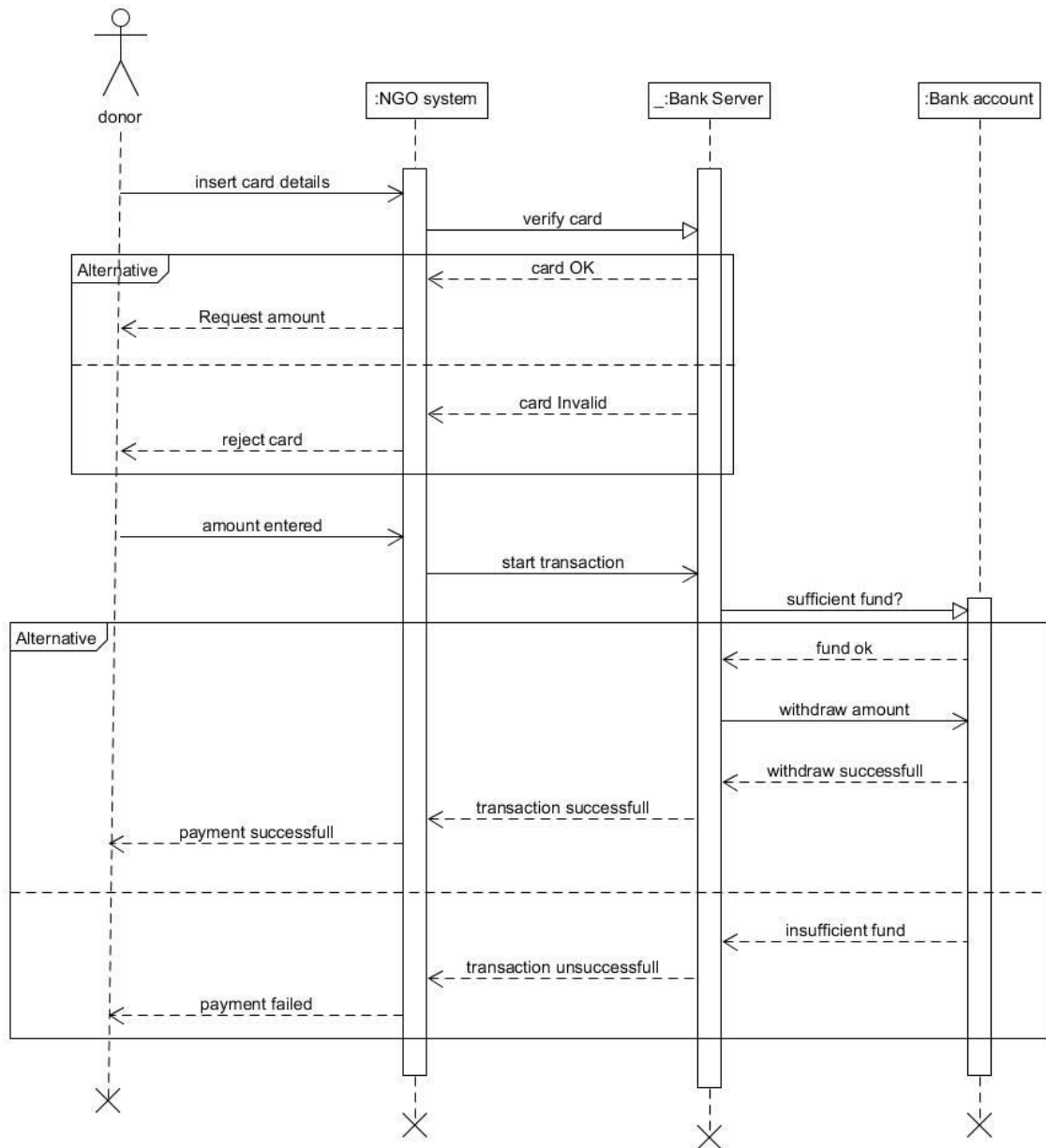
A message an object sends to itself, usually shown as a U shaped arrow pointing back to itself.



For login process-

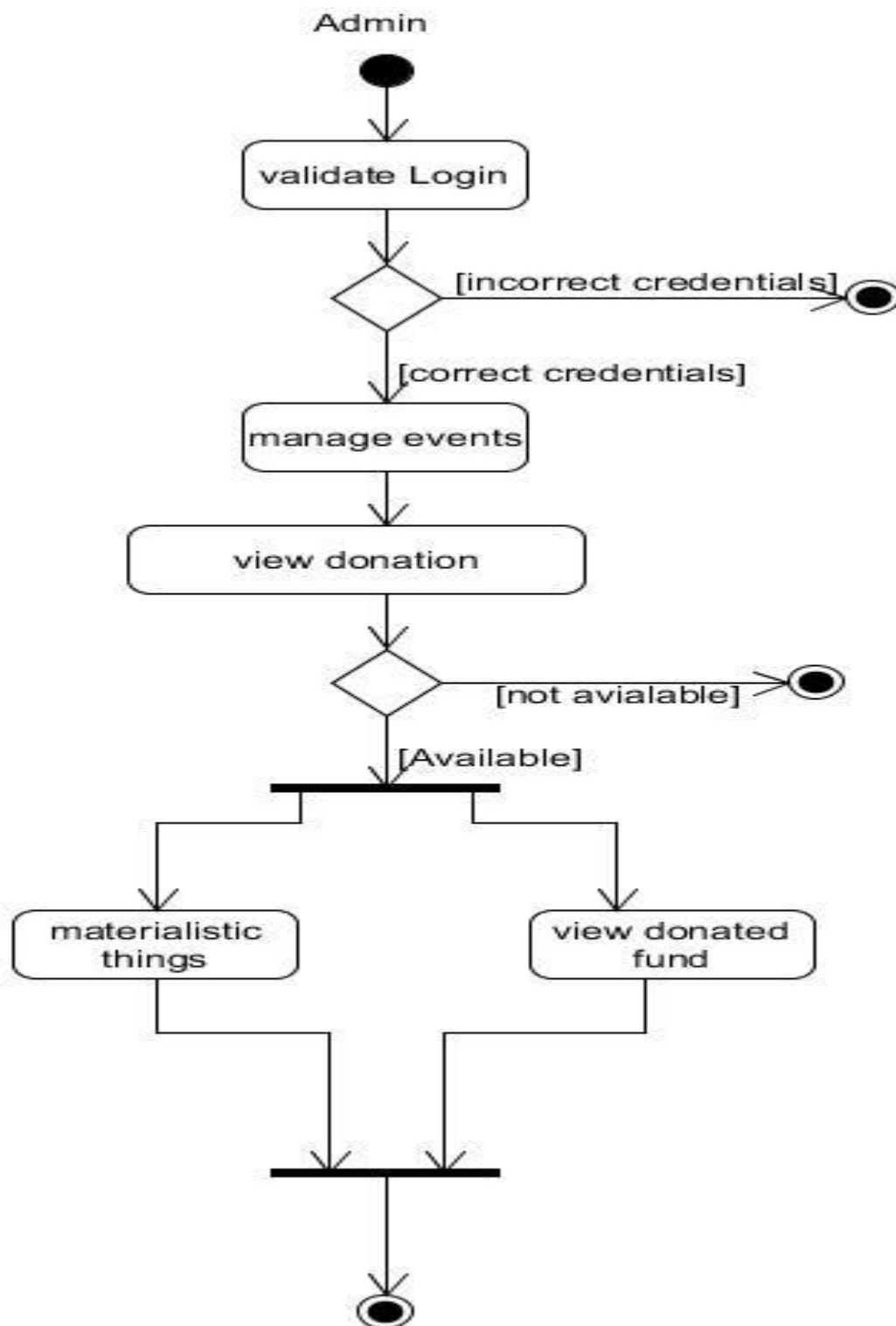


For donate money(payment)process :

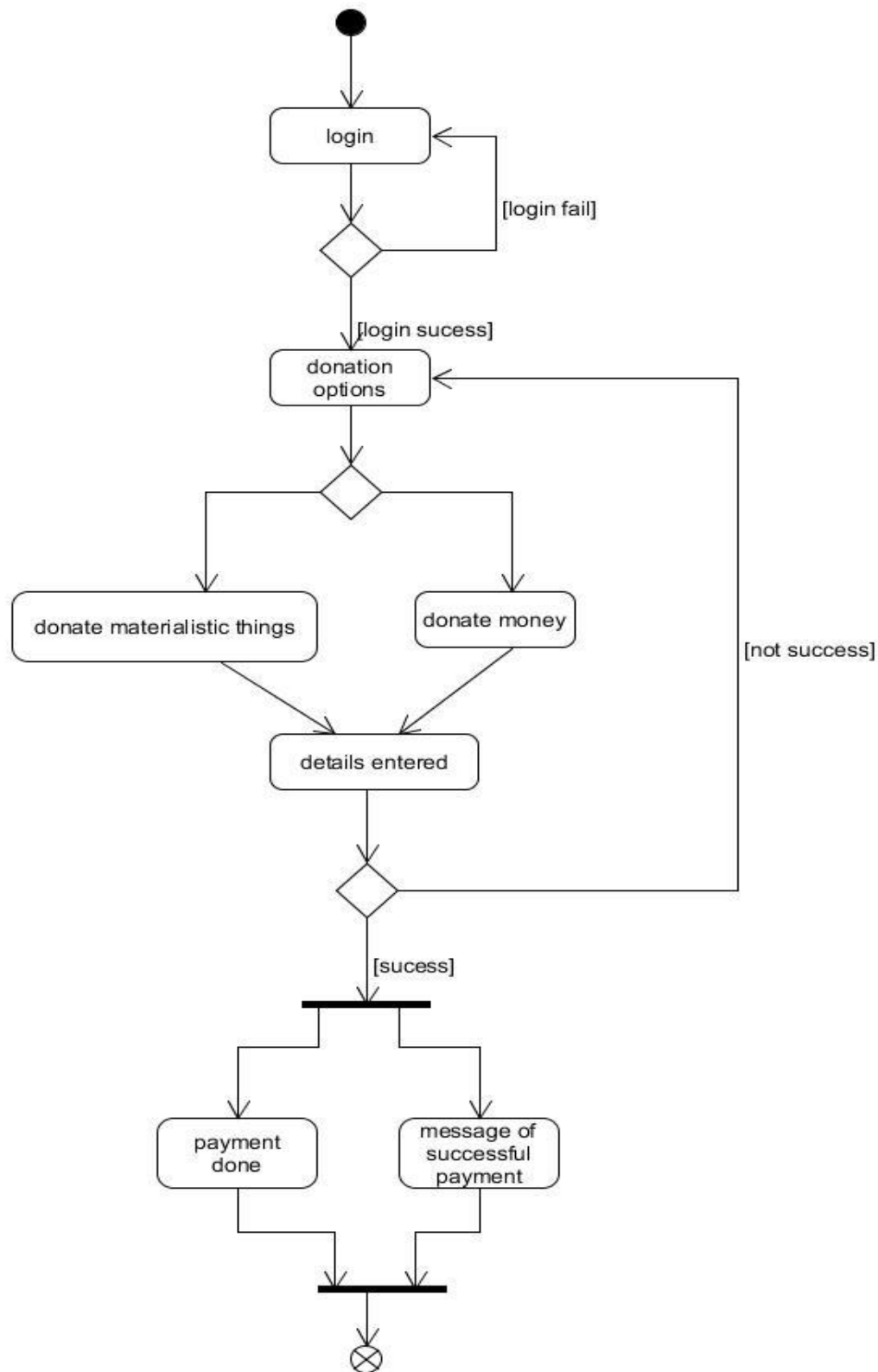


4) Activity diagram:-

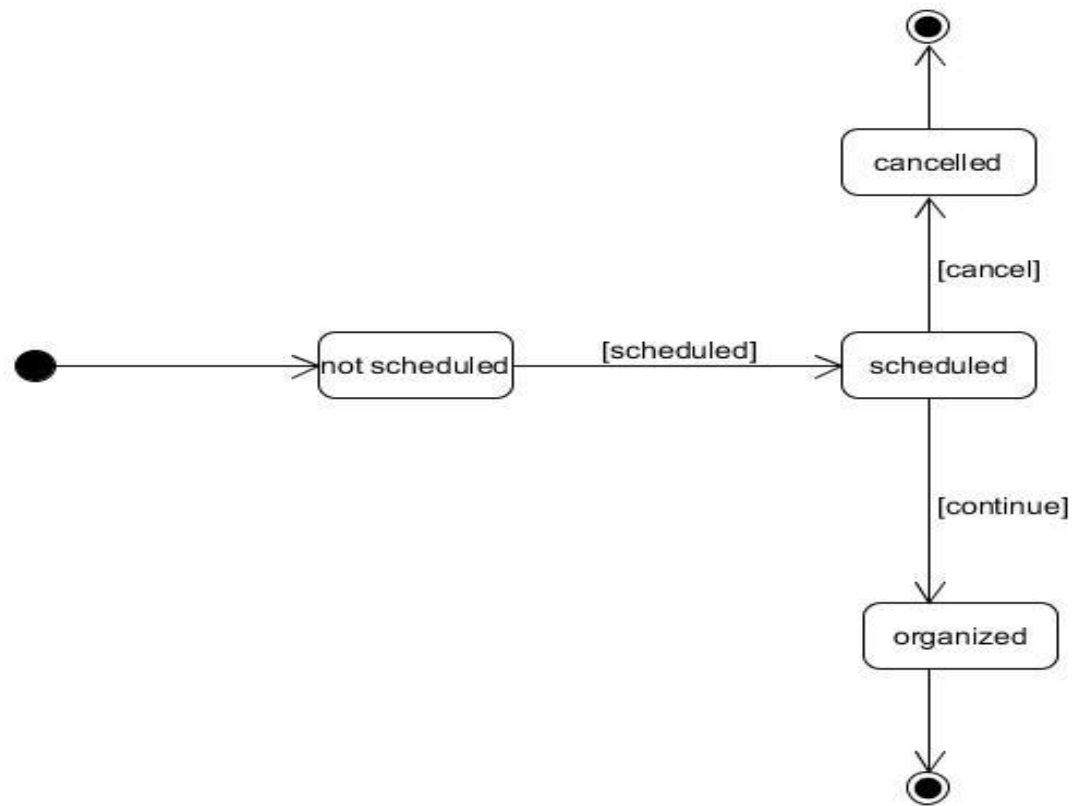
Admin side-



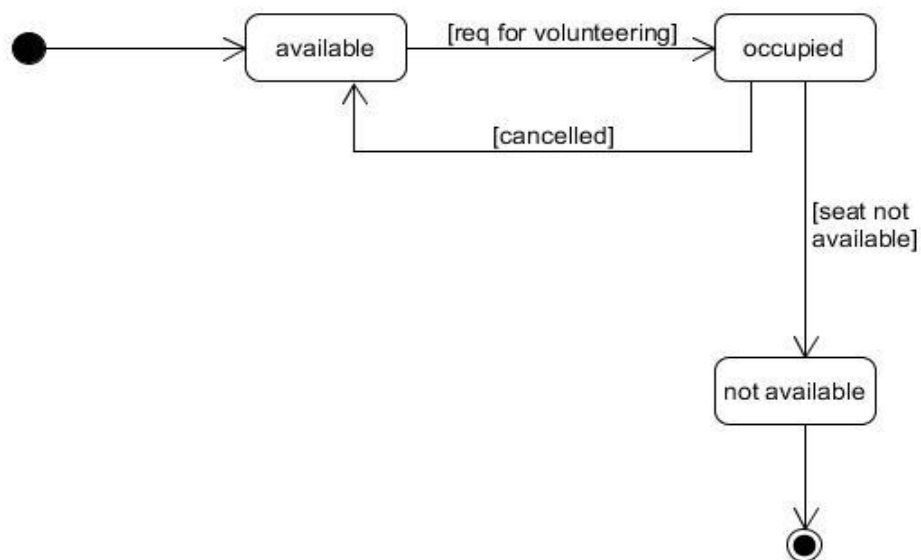
User side activity diagram-



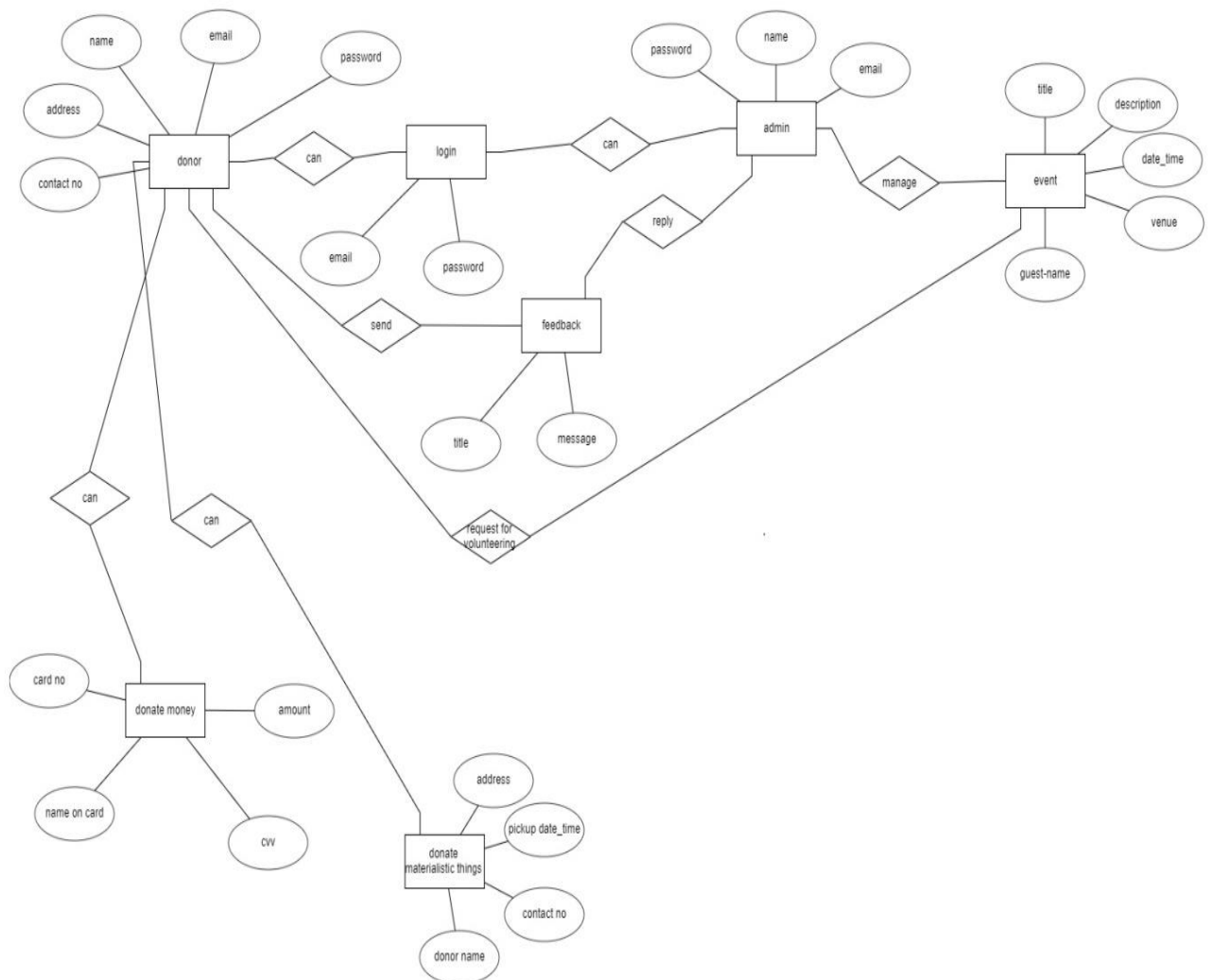
5) State diagram:- For manage_event-



For volunteering event-



6)ER-Diagram:-



7)Data Dictionary

volunteer						
Sr no	name	Datatype	size	required	Unique	PK/FK
1	id	Int	11	Auto_increment	yes	Primary key
2	Name	Varchar	100	-		
3	Mobile	Varchar	10	-		
4	Email	Varchar	100	-		
5	eName	varchar	200	-		Foreign key

mdonar							
Sr no	name	datatype	size	required	unique	PK/FK	
1	Id	Int	200	Auto_increment	yes	primarykey	
2	Email	Varchar	100				
3	sName	Varchar	100				
4	sMobile	Varchar	10				
5	sAddress	Varchar	300				
6	sCity	Varchar	100				
7	sState	Varchar	100				
8	sDate	Date					
9	Donationtype	varchar	200				

feedback						
Sr no	name	dataType	size	required	unique	PK/FK
1	Id	Int	100	Auto increment	yes	primarykey
2	Email	Varchar	100			
3	Category	varchar	100			
4	comments	varchar	200			

Event						
Sr no	name	datatype	size	required	unique	PK/FK
1	Id	Int	200	Auto increment	yes	primarykey
2	eName	Varchar	200			
3	eLocation	Varchar	200			
4	eTime	time	6			
5	eDate	Date				
6	eDescription	varchar	400			

donar						
Sr no	name	datatype	size	required	unique	PK/FK
1	Id	Int	200	Auto increment	yes	Primary key
2	cName	Varchar	200			
3	cEmail	Varchar	200			
4	cMobile	Varchar	10			
5	cAddress	Varchar	200			
6	cCity	Varchar	200			
7	cState	Varchar	200			
8	cZip	Int	6			
9	Donation type	Varchar	200			
10	cAmount	int	200			

customerInfo						
Sr no	name	datatype	size	required	unique	PK/Fk
1	Id	Int	100	Auto increment	yes	primarykey
2	Email	varchar	100			
3	cName	Varchar	100			
4	cMobile	Varchar	100			
5	cPassword	varchar	100			

Implementation Details

i) Modules created and brief description of each module

CLIENT SIDE-

Routes and Views

- **Dashboard-** after user logs into the system then this page is displayed showing all the options available to him. Feedback, Donation and Event Registration.
- **DonarC-** user can donate money by filling up the form and providing details about himself and the money he wants to donate. Donation can only be done via card
- **FeedbackC-** user can give feedback by filling up the form providing email , category in which he wants to give feedback and comments.
- **FrontPage-** It's the very first page which will be displayed to the user when he starts the application.
- **LoginC-** Display the login and registration form to the user. User needs to register himself first into the system and then login in.
- **EventsC-** All the events that will be organised by the ngo will be displayed and the user can also enrol himself into any of them by registering.
- **DonarMC-** The users who want to donate other materialistic things can donate here in this form . It displays a form asking for users details and the donation type. The material will get picked up from the users home by our agents on the date specifies by him.
- **Thanks-** page for thanking the donar for providing donation(money).
- **ThanksEventRegister-** Thanking the user for participating in the event.
- **ThanksFeedback-** Thanking the user giving us it valuable feedback.

ADMIN SIDE-

Routes and Views

- **Customer**-handles insertion , deletion and Displaying of users of the system
- **Donar**- Displays all the Donars to the admin.
- **Feedback**- Displays the feedback of the donars, volunteers and users.
- **Index**- Handles admin Login.
- **Index1**- Displays all the options available to the admin after logging in like view feedback , donar, users and manage events.
- **Login**- Form for the admin to login by providing the email and password.
- **Events**- Admin can manage all t.he events. He can insert any new event by providing all its details. Any event can be deleted and edited by him.
- **DonarM**- Displays all the materialistic things donars of the system along with the things they want to donate.
- **Volunteer**- Displays all the volunteers of the ngo of various events. And can also remove them.

Testing

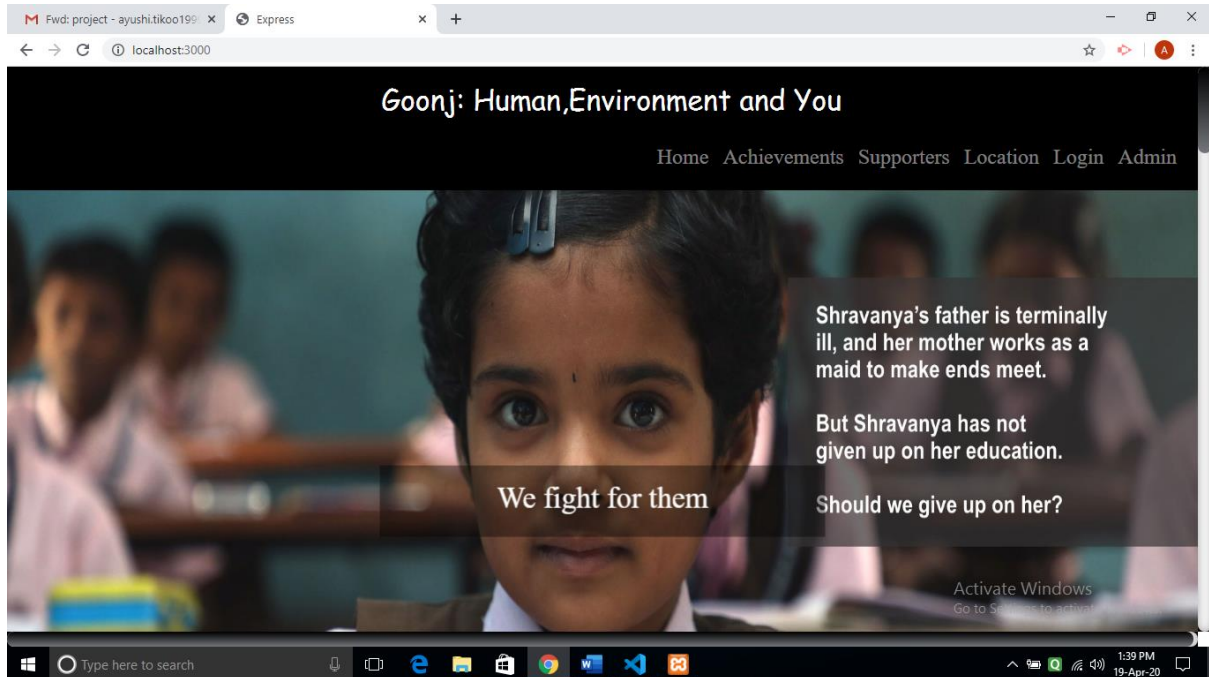
Unit and integration testing are used.

- **unit testing** – testing our application code and logic. This is anything that our code actually does and is not reliant upon external services and data to accomplish.
- **integration testing** – testing our application as it connects with services inside of our application. This could include connecting different parts of application, or connecting two different applications in a larger umbrella project.

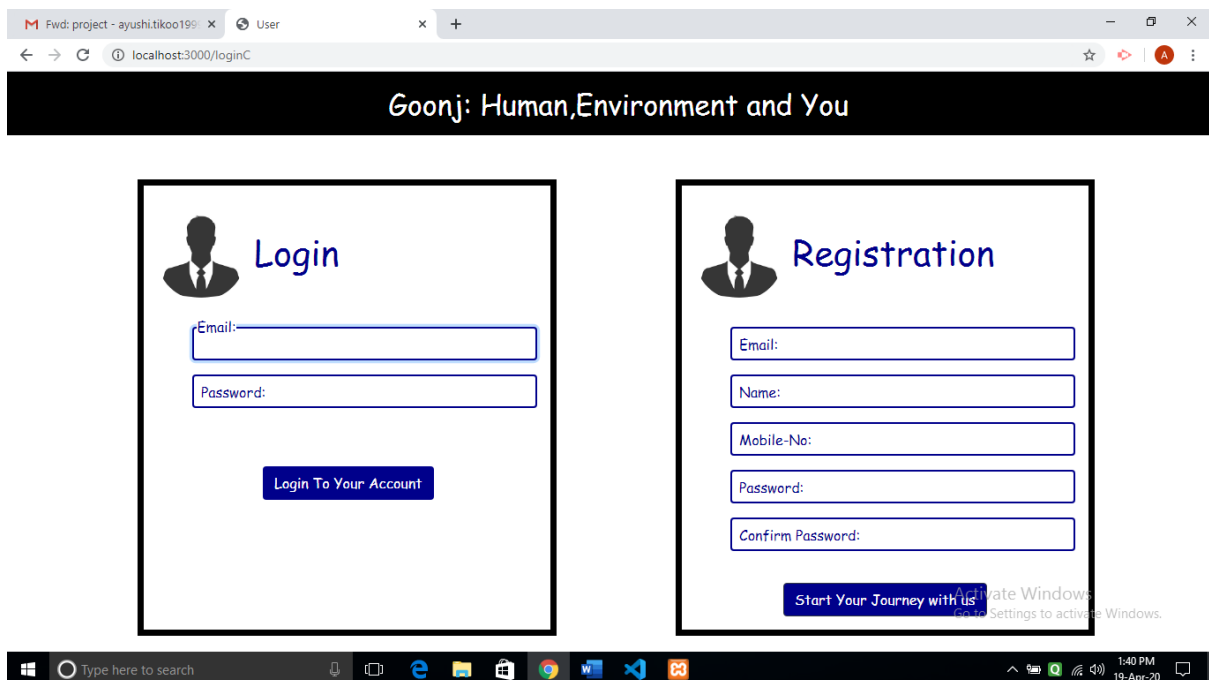
Screenshots

USER-

Front page :



Login Registration page for user :



Money donation :

Goonj: Human, Environment and You

Your Donation Will Help Out The Needy

[Go Back](#)

Doner Details	Payment
<p>Full Name</p> <input type="text"/>	<p>Field For Donation</p> <p>Select Field For Donation</p>
<p>Email</p> <input type="text"/>	<p>Accepted Cards</p> <p>Visa Mastercard American Express</p>
<p>Contact-Number</p> <input type="text"/>	<p>Name on Card</p> <input type="text"/>
<p>Address</p> <input type="text"/>	<p>Credit card number</p> <input type="text"/>

Activate Windows
Go to Settings to activate Windows.

To donate materialistic things :

Donor's Information

Email:

Name:

Mobile-No:

Address:

City:

State:

dd-----yyyy

What You Want To Donate

[Place Donation Request](#)

Activate Windows
Go to Settings to activate Windows.

Feedback form :

Feedback form interface showing the title "Goonj: Human, Environment and You" and a "Go Back" button. The form includes fields for Email, Select Category, and Comments, followed by a "Submit Feedback" button.

Go Back

Email:

Email

Select Category:

Select Category

Comments:

Comments

Submit Feedback

Activate Windows
Go to Settings to activate Windows.

View Events :

View Events interface showing the title "Goonj: Human, Environment and You" and a "Manage Events" button. Below the button is a table listing events with columns: ID, Event Location, Event Time, Event Date, Event Description, and Action.

Manage Events

Back

ID	Event Location	Event Time	Event Date	Event Description	Action
4	New Delhi	15:04:00.000000	Sat Sep 12 2020 00:00:00 GMT+0530 (India Standard Time)	Fight for children	Register
6	New Delhi	13:03:00.000000	Fri May 29 2020 00:00:00 GMT+0530 (India Standard Time)	Come and join us	Register
7	Lajpatnagar	09:06:00.000000	Wed Mar 25 2020 00:00:00 GMT+0530 (India Standard Time)	Protect humans	Register
8	New Delhi	00:05:00.000000	Fri May 08 2020 00:00:00 GMT+0530 (India Standard Time)	come and join to protect envt	Register
9	New Delhi	12:04:00.000000	Wed Feb 12 2020 00:00:00 GMT+0530 (India Standard Time)	Participate	Register
10	Noida	00:30:00.000000	Tue Sep 22 2020 00:00:00 GMT+0530 (India Standard Time)	Empower Women	Register

Activate Windows
Go to Settings to activate Windows.

Participate in event form :

Participate and Help the society

Go Back

Volunteer's Information

Children Rights

Name:

Mobile-No:

Email:

Participate

Activate Windows
Go to Settings to activate Windows.

ADMIN-

Welcome Page for admin :

Goonj: Human, Environment and You

Back

Welcome to our ngo-GOONJ

View Donors

View Other Donors

View Users

View Feedback

Manage Events

Manage Volunteers

Activate Windows
Go to Settings to activate Windows.

View Donor :

Goonj: Human,Environment and You

Our Donors

[Back](#)

ID	cName	cEmail	cMobile	cAddress	cCity	cState	cZip	donationType	cAmount
1	Ayu	ayu@gmail.com	2147483647	Delhi	Delhi	Delhi	123	Health	23456677
2	Ayushi Tikoo	ayu@gmail.com	2147483647	New Delhi	Delhi	Delhi	123476	Health	1000000000
3	Piyushi Tikoo	piyushi@gmail.com	2147483647	Delhi	Delhi	New Delhi	123554	Health	2147483647
4	sahil	ssss@gmail.com	2147483647	rajkot	raJKOT	gujarat	360001	Environment	20000
5	sahil	ssss@gmail.com	9824094560	rajkot	raJKOT	gujarat	360001	Education	9876
6	Anjali Shah	anjali@gmail.com	7268764725	Noida	Ashok Nagar	Harayana	233232	Livelihood	10000
7	Anjali Shah	anjali@gmail.com	7268764725	Noida	Ashok Nagar	Harayana	233232	Livelihood	10000
8	sapna aggarwal	sapna.aggarwal@gmail.com	7765849823	delhi	delji	haryana	456754	undefined	12346
9	sapna aggarwal	sapna@gmail.com	7765849888	delhi	delji	haryana	456754	undefined	12346
10	sapna aggarwal	sana@gmail.com	7765849834	delhi	delhi	haryanaaaa	456754	undefined	12346

Manage Users:

Goonj: Human,Environment and You

Manage Users

[Add User](#) [Back](#)

ID	Email	Name	Mobile	Password	Action
12	rahul@gmail.com	rahul	2147483647	\$2b\$10\$ufj1/Nn5vQj18vnmwdXeZXRCHd/FCxeV0o36NjLYId.EvCX/xZa	Delete
13	anaya@gmail.com	anaya	2147483647	\$2b\$10\$9mB6nU6OcRsbiKa/Dv9h9uMEwmtuJHYncZlCioaTM16clO76aTcjQ	Delete
14	ayu@gmail.com	ayu	2147483647	\$2b\$10\$67TnqYpQE5SWv1SgcFjOye0dWbnyuAzfffy3feLgS9usZvvEwp9.	Delete
15	ashwini@gmail.com	asgwini	1234567890	\$2b\$10\$n4o5ndRIKEOHkF5yydTC/OM5HmI./9cr6O5cKIInaeBy72JtNP/g8G	Delete
18	shruti@gmail.com	shruti	1234567890	\$2b\$10\$1YJikUKQzuicV4TDKocOCuidCCIR4olWnUqqlWfP4bXJvk4KekIne	Delete
19	drishti@gmail.com	drishti	1234567890	\$2b\$10\$s2DvcSbeC1ZYmqShvaqleeYI6IDI4pVzNR7Z/3aii/BpG/17TaH6G	Delete
20	Kriti@gmail.com	Kriti	1234567890	\$2b\$10\$6snhzCA2Ne4fUb68RhpMf.Q1Ra6p8bdoERPAQ7o6JiUkuLfstkFru	Delete
21	raj@gmail.com	raj	1234567890	\$2b\$10\$AR9u2YqJ43OmJg9hnTGP2.r2yHKrToVBmZ4okHKpmy5sj02Bo32n6	Delete

Manage Events :

The screenshot shows a web browser window with the URL `localhost:3000/orders?`. The page has a black header with the text "Goonj: Human,Environment and You". Below the header, the title "Manage Events" is centered. There are two green buttons: "Create Event" and "Back". A table lists events with columns: ID, Event Name, Event Location, Event Time, Event Date, and Event Description. The table contains 10 rows of data. At the bottom right, there is a watermark "Activate Windows" and a taskbar at the very bottom showing various application icons and the system clock.

ID	Event Name	Event Location	Event Time	Event Date	Event Description
4	Children Rights	New Delhi	15:04:00.000000	Sat Sep 12 2020 00:00:00 GMT+0530 (India Standard Time)	Fight for children
6	Women protection	New Delhi	13:03:00.000000	Fri May 29 2020 00:00:00 GMT+0530 (India Standard Time)	Come and join us
7	Human rights	Lajpatnagar	09:06:00.000000	Wed Mar 25 2020 00:00:00 GMT+0530 (India Standard Time)	Protect humans
8	Env't protection	New Delhi	00:05:00.000000	Fri May 08 2020 00:00:00 GMT+0530 (India Standard Time)	come and join to prot
9	Blood Donation	New Delhi	12:04:00.000000	Wed Feb 12 2020 00:00:00 GMT+0530 (India Standard Time)	Participate
10	Women Empowerment	Noida	00:30:00.000000	Tue Sep 22 2020 00:00:00 GMT+0530 (India Standard Time)	Empower Women

Insert New Event :

The screenshot shows a web browser window with the URL `localhost:3000/orders/createOrder-form`. The page has a black header with the text "Goonj: Human,Environment and You". The main content area is a form titled "Event Information" with a silhouette icon. The form contains five input fields: "Event Name:", "Event Location:", "Event Time:", "Event Date:", and "Event Description:". Below the fields is a "Create Event" button. At the bottom right, there is a watermark "Activate Windows" and a taskbar at the very bottom showing various application icons and the system clock.

View Donors (Others) :

ID	Email	Name	Mobile	Address	City	State	Date
52	ayu@gmail.com	Ayu	9283748234	Delhi	Delhi	Delhi	Thu Mar 12 2020 00:00:00 GMT+0530 (India Standard Time)
53	ayu@gmail.com	Ayushi Tikoo	8826826455	New Delhi	Delhi	Delhi	Sat Dec 12 2020 00:00:00 GMT+0530 (India Standard Time)
54	ayush@gmail.com	ayush	8826826455	new Delhi	Uttam nagar	Delhi	Thu Mar 12 2020 00:00:00 GMT+0530 (India Standard Time)
55	anaya@gmail.com	Anjali Shah	7268764725	Noida	Ashok Nagar	Haryana	Fri Jun 12 2020 00:00:00 GMT+0530 (India Standard Time)
56	samiksha@gmail.com	Samiksha	9283472834	Dwarka	Dwarka	New Delhi	Fri Jun 12 2020 00:00:00 GMT+0530 (India Standard Time)

View Feedback :

ID	Email	Category	Comments
11	ayu@gmail.com	Education	very good
12	ayu@gmail.com	Livelihood	Helpfull to people
13	ayushi@gmail.com	Livelihood	very nice
14	sam@gmail.com	Environment	service are very good

View Volunteers of event :

Browser tabs: Fwd: project - ayushi.tikoo199, Volunteer, Main Rahoon Ya Na Rahoon

Address bar: localhost:3000/volunteer?

Header: Goonj: Human, Environment and You

Volunteers of Events

[Back](#)

ID	Name	Mobile	Email	Event Name	Action
1	Aman	8826826455	aman@gmail.com	Women Protection	Delete
2	Ayushi	9893782723	ayu@gmail.com	Women protection	Delete
3	Piyushi	8762387637	anima@gmail.com	Women protection	Delete
6	Anaya	2893748647	anaya@gmail.com	Women protection	Delete
14	Ayu	9283748234	ayu@gmail.com	envt protection	Delete
15	Yogita	8347893477	yogita@gmail.com	Human rights	Delete
16	Bhavesh	9873227367	bhavesh@gmail.com	Children Rights	Delete

Activate Windows
Go to Settings to activate Windows.

Windows taskbar: Type here to search, 1:45 PM, 19-Apr-20

Conclusion

We have successfully build the project of NGO System. We are able to build the project with success by fully implementing all the functionalities. First the user will have to register and then login into the system. After logging in he is displayed all the options like donating money or other things, giving feedback and participating in events. User is successfully able to donate money and other things without any problem. He can participate in any event by registering himself. Admin is able to manage user, view feedback, insert any new user, manage events, insert delete and update events and view donors who donated money and other materialistic things.

Limitation and future extension

- Users who want to volunteer for event won't be able to give feedback about that event to admin
- We need to add system in the project in which admin should be able to send confirmation message to the volunteer.
- In future we could also provide tracking system to the donor by which he would be able to track the pickup request for its donation.
- We could also provide platform for the people to help them.

Bibliography

References Used:

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<http://stackoverflow.com/>
<https://www.w3schools.com/>
<https://www.tutorialspoint.com/index.htm>
<https://www.geeksforgeeks.org/>