Waste Management System

Submitted in partial fulfillment of the requirements of the degree of

BACHELOR OF COMPUTER ENGINEERING

by

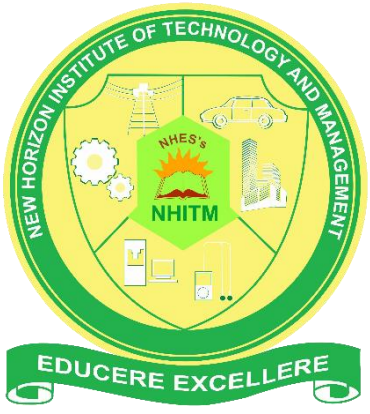
Akash Gupta IEN: 12012002

Kunal Nathani IEN:12012052

Asmit Prajapati IEN: 12012003

Guided by:

Ms. Yogita Chavan



Department of Computer Engineering

New Horizon Institute of Technology and Management,

Thane (2020-2021)

NEW HORIZON INSTITUTE OF TECHNOLOGY AND MANAGEMENT, THANE

CERTIFICATE

This is to certify that the Project entitled **"Waste Management System"** is a bonafide work of **Akash Gupta (IEN-12012002), Kunal Nathani (IEN-12012052), Asmit Prajapati (IEN- 12012003)** submitted to the University of Mumbai in partial fulfillment of the requirement for the award of the degree of **Bachelor of Engineering** in **Computer Engineering**

Ms. Yogita Chavan

(Project Guide)

Dr. Sanjay Sharma Deshmukh (Head of Department)

Dr. Prashant

(Principal)

NEW HORIZON INSTITUTE OF TECHNOLOGY AND MANAGEMENT, THANE

Project Report Approval for S.E.

This Project report entitled ***Waste Management System*** by ***Kunal Nathani, Akash Gupta and Asmit Prajapati*** is approved for the degree of ***Bachelor of Engineering*** in ***Computer Engineering***, ***2021-22***.

Examiner Name	Signature
1._____	_____
2._____	_____

Date:

Place: Thane

Declaration

We declare that this written submission represents our ideas in our own words and where others' ideas or words have been included, We have adequately cited and referenced the original sources. We also declare that we have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. We understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not beentaken when needed.

Kunal Nathani (IEN –12012052)

Asmit Prajapati (IEN –12012003)

Akash Gupta (IEN -12012002)

Date:

Abstract

To be a leader in the recovery and conservation of the environment, under our commitment to deliver comprehensive and permanent sustainable solutions to the environmental problems faced by our clients and society. To manage solid waste as a resource, promoting sustainable, environmentally sound and cost effective practices through an integrated system of waste reduction, reuse, recycling, innovative technology, customer service and education. Our main motto is to reduce wastage of resources using "FOUR R'S FOR A BETTER EARTH "that are Reuse, Recycle, Reduce and Recover.

Reuse:

- We take all the Reusable things(Example: Clothes, Books etc.) from the donator's & giveit to NGO' s who are in need of such things.

Recover:

- We Recover the Solid waste which is useful for someone from the donator's

.**Recycle:**

- We Recycle the waste from someone which is useful to someone.

Our Mission

Waste Management is on a mission to maximize resource value, while minimizing - and even eliminating - environmental impact so that both our economy and our environment can thrive. To make earth a better place to live.

CONTENTS

1 Introduction

2 Problem Statement, Objectives and Scope

3 Requirement Analysis and Methodology …

4 System Design and Implementation …

5 Conclusion and Future Scope …

Chapter 1
Introduction

Chapter 1

1.1 Introduction

To be a leader in the recovery and conservation of the environment, under our commitment to deliver comprehensive and permanent sustainable solutions to the environmental problems faced by our clients and society. To manage solid waste as a resource, promoting sustainable, environmentally sound and cost effective practices through an integrated system of waste reduction, reuse, recycling, innovative technology, customer service and education. Our main motto is to reduce wastage of resources using "FOUR R'S FOR A BETTER EARTH "that are Reuse, Recycle, Reduce and Recover.

Reuse:

We take all the Reusable things(Example: Clothes, Books etc.) from the donator's & giveit to NGO 's who are in need of such things.

Recover:

We Recover the Solid waste which is useful for someone from the donator's.

Recycle:

We Recycle the waste from someone which is useful to someone.

Our Mission

Waste Management is on a mission to maximize resource value, while minimizing - and even eliminating - environmental impact so that both our economy and our environment can thrive.To make earth a better place to live.

Need of the system :-

Solid waste management affects every single person in the world, whether individuals are managing their own waste or governments are providing waste management services to their citizens. As nations and cities urbanize, develop economically, and grow in terms of population, the World Bank estimates that waste generation will increase from 2.01 billion tons in 2016 to 3.40 billion tons in 2050. At least 33% of this waste is mismanaged globally todaythrough open dumping or burning.

Global problems:

Rich countries (such as the United States, Canada and members of the European Union) represent just 16% of global population, but produce 34% of the world's waste. An estimated 93% of waste in low-income countries is mismanaged, as compared to 2% in high-income countries.

Daily per capita waste generation is estimated to be 4.87 pounds in North America, as compared to 1.01 pounds in Sub-Saharan Africa. Though the World Bank expects waste to triple in Sub-Saharan Africa and to double in South Asia, accounting for a full 35% of global output by 2050.

Collection is more common in urban areas for these low-income countries than in rural areas, but is still far less prevalent than in developed nations. The World Bank found that the amount of collection in low-income countries increased from about 22% to 39% since 2012 — though noted data may not be directly comparable

Climate issues

Global waste production accounted for about 5% of global emissions in 2016, with an output of 1.6 billion metric tons of carbon-dioxide-equivalent. That number is expected to grow to 2.6 billion billion metric tons by 2050.

Food waste accounted for 47% of those emissions — showing both a monumental problem and an opportunity for gases released by food waste to be harnessed for energy. Silpa Kaza, the report's lead author, told Waste Dive these emissions "are mostly driven by open dumping of waste and then landfilling of waste without landfill gas systems."

Underdeveloped waste management infrastructure may also become a growing sign of global inequality as climate change advances. The open dumpsites in poorer countries can pose multiple hazards in the form of deadly landslides — which may be exacerbated by weather events — or pollution in waterways. Because of this, Kaza said a case can be made for addressing waste as part of broader climate resiliency strategies.

Chapter 2
Problem Statement, Objective and Scope

Chapter 2

Problem Statement, Objective and Scope

2.1 Problem Statement

To Design a waste collection system that allows citizens to segregate the various types of waste they want to donate and the NGO authorities to efficiently collect the same. The system should be website based.

2.2 Objectives

- To develop and maintain a modern sustainable ecological system for waste management and recycling technologies of industrial and domestics waste in the programme region.
- To improve waste management system efficiency through creation of the waste exchange in the programme area based on selected best practices in india.
- To encourage and promote the development and progress of online waste collection system towards achieving in the field of computer science and technology for theatre application both for recycling and deployment of waste

2.3 Scope

India is a developing nation and problems such as hunger and other issues are still prevalent to a larger degree. We shall try to contribute our best by connecting the people in need with the providers and donors. We shall try and expand our site reach and the amount of help we provide.

Chapter 3
Requirement Analysis and Methodology

Chapter 3

Requirement Analysis and Methodology

3.1 Requirement Analysis

3.1.1 Hardware and System Requirements

Front End Tools :

•HTML5
•CSS
•JAVASCRIPT
•PHP

Back end Tools :

•MYSQL
•SQL SERVER 2008
•SQL LITE

Hardware Requirements:

- **WINDOWS :- XP , WIN 10 , WIN 11**
- **RAM :- 512 MB or More**
- **HARD DISK :- 1GB**
- **PROCESSOR :- 1.0 GHz**

Methodology :

- **Steps involve to donate items/product once you successfully register & login at our donation website :**

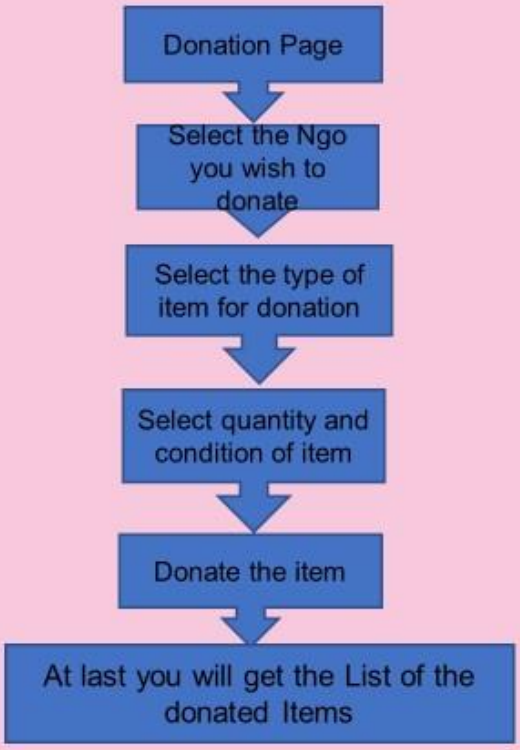


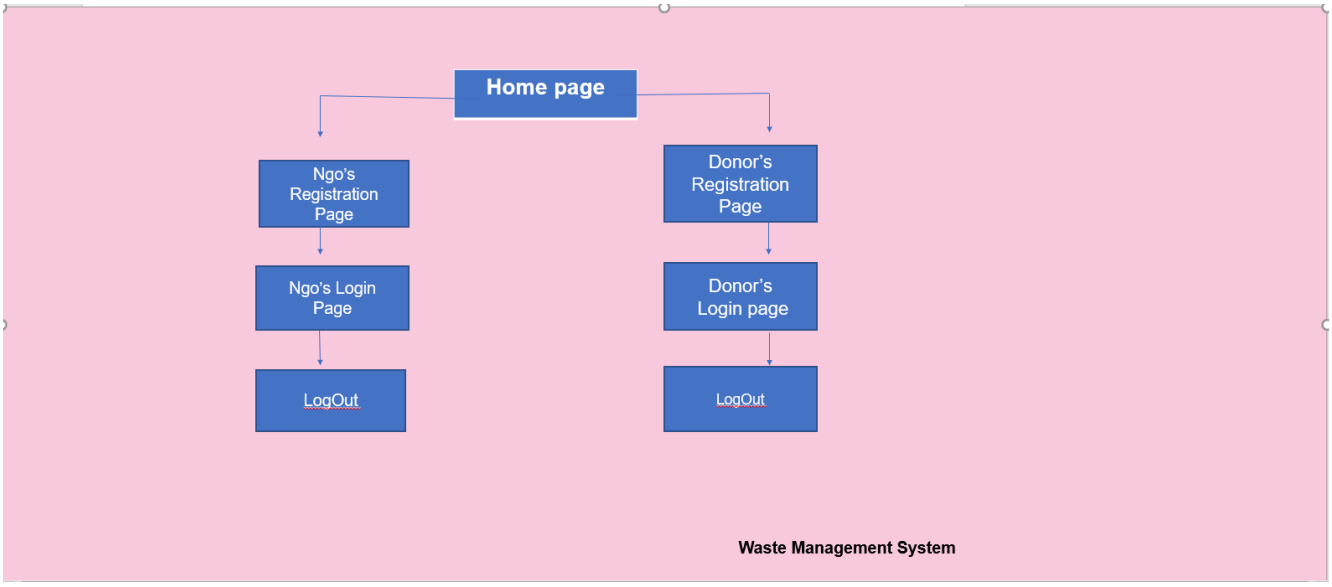
Fig 3.1- Project Workflow

Chapter 4
Requirement Analysis and Methodology

Chapter 4

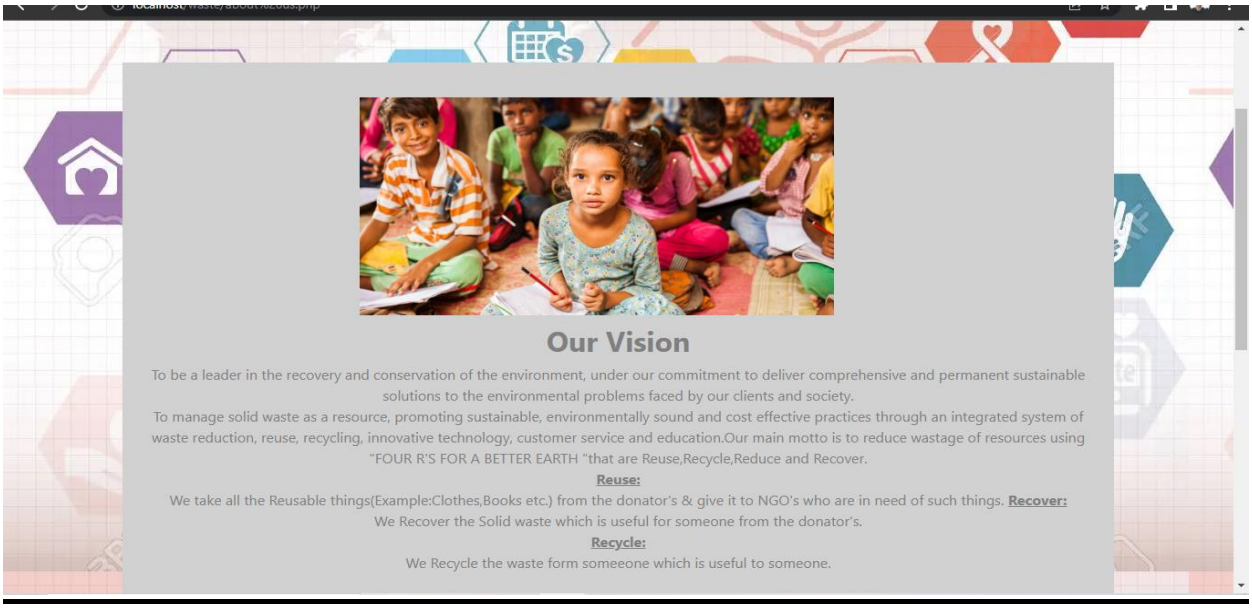
System Design and Implementation

Implementation:

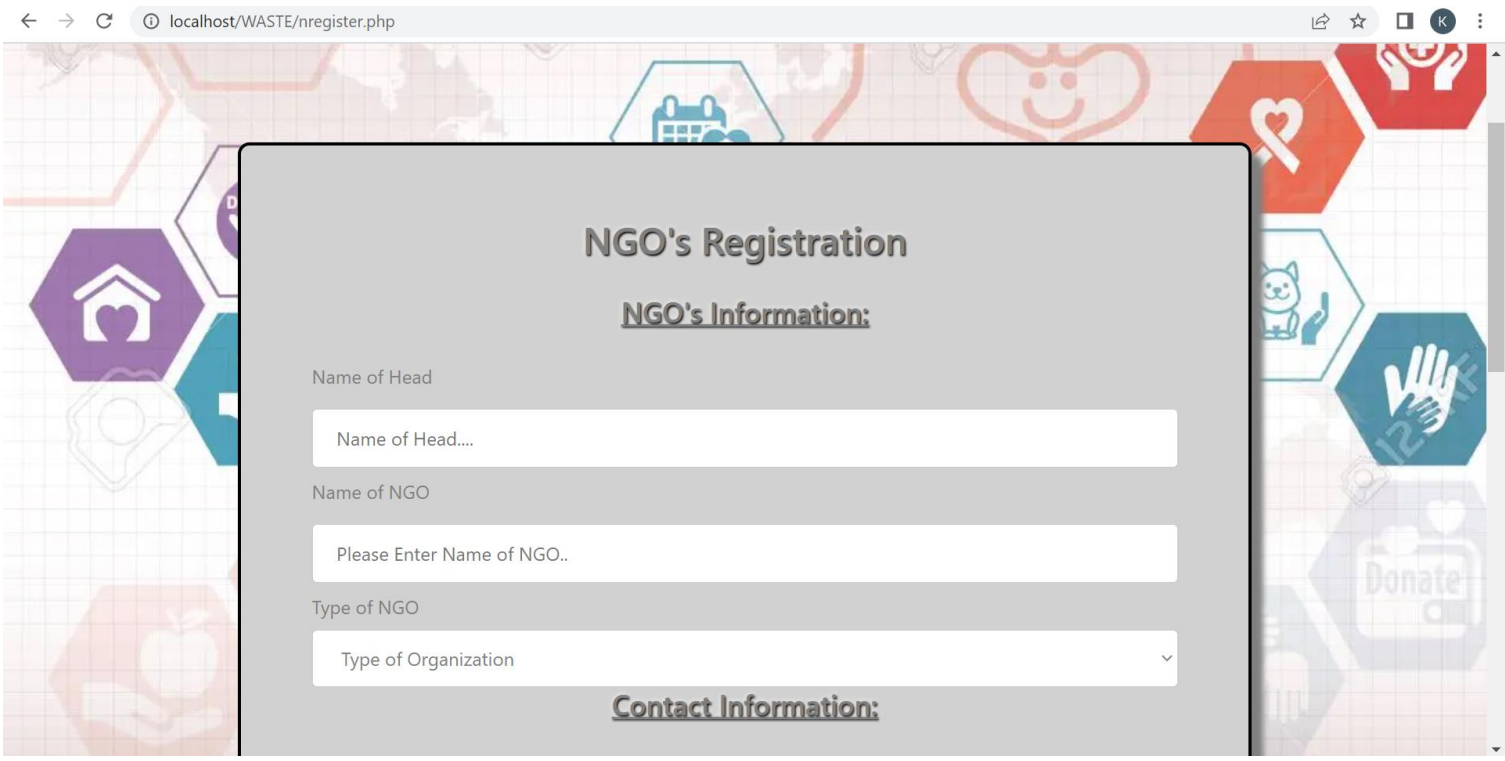


Home Page:

About us:

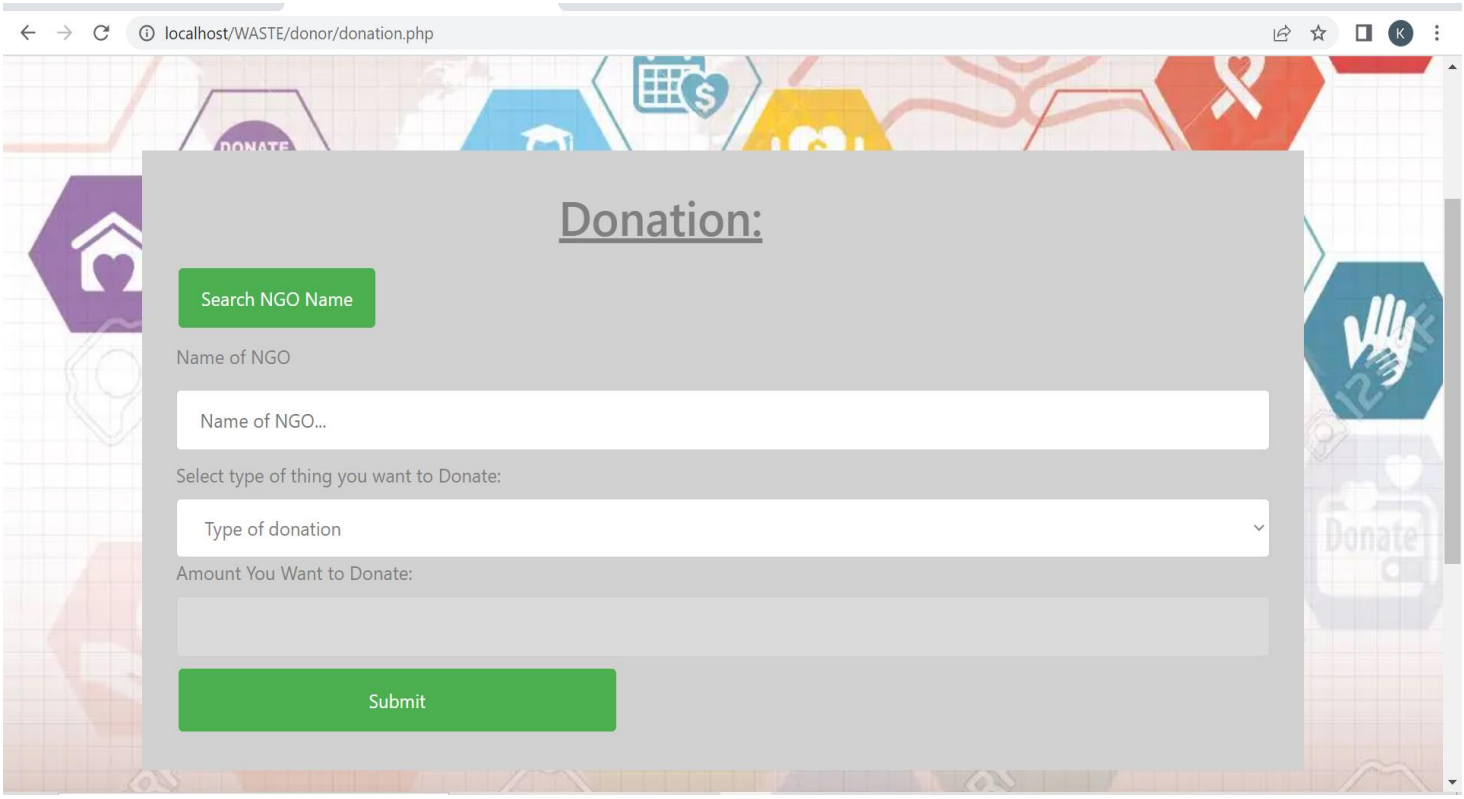


NGO Registeration :

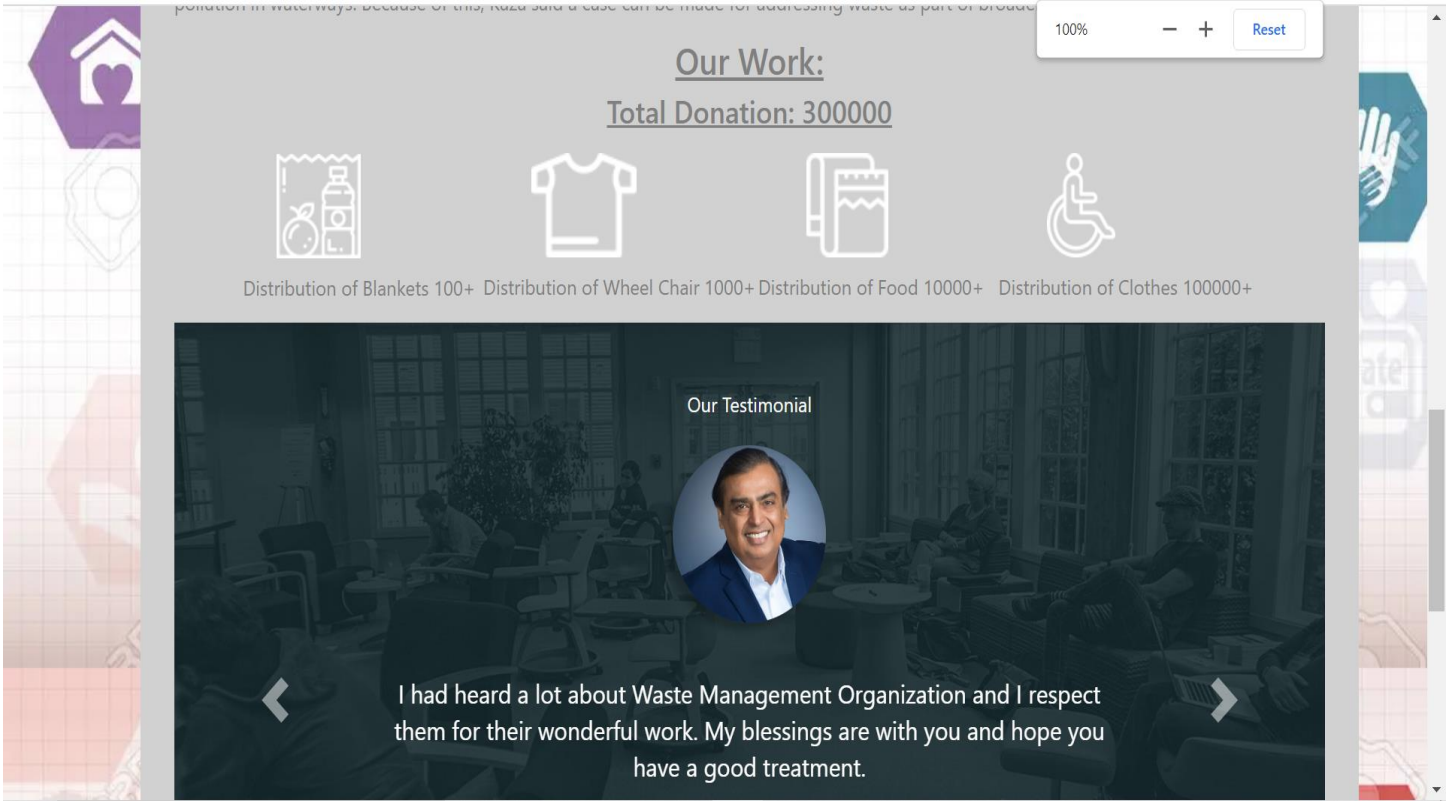


Event Page:

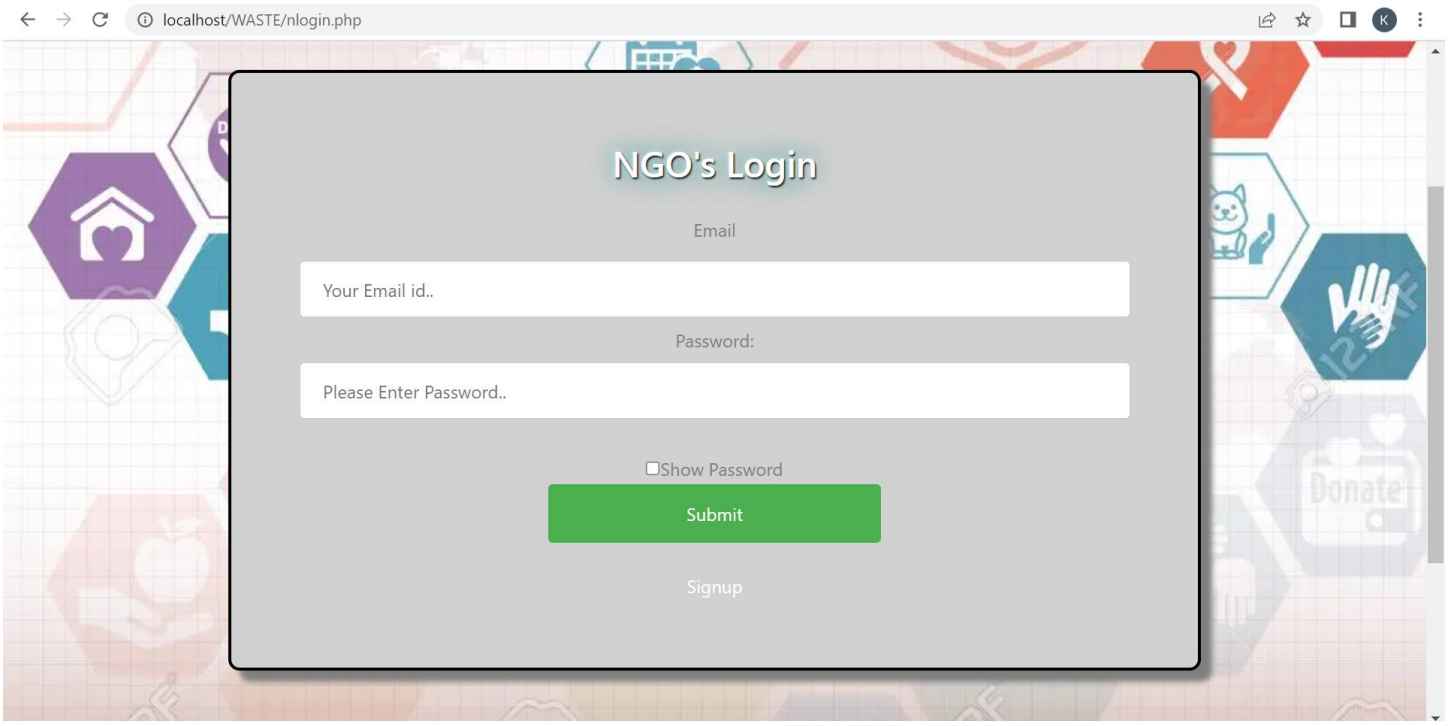
Donation Page:



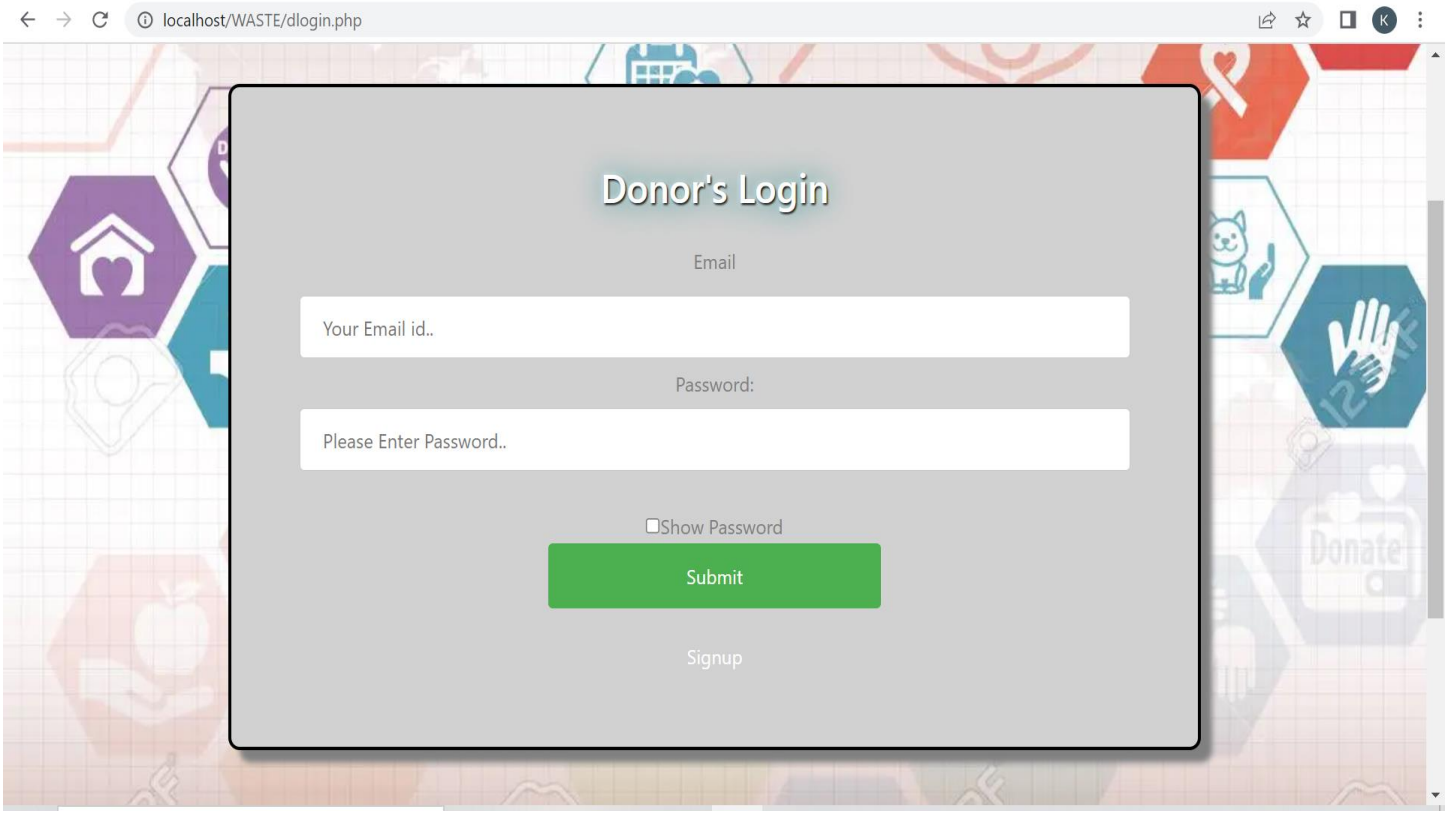
Testimonial Page:



NGO Login Page:

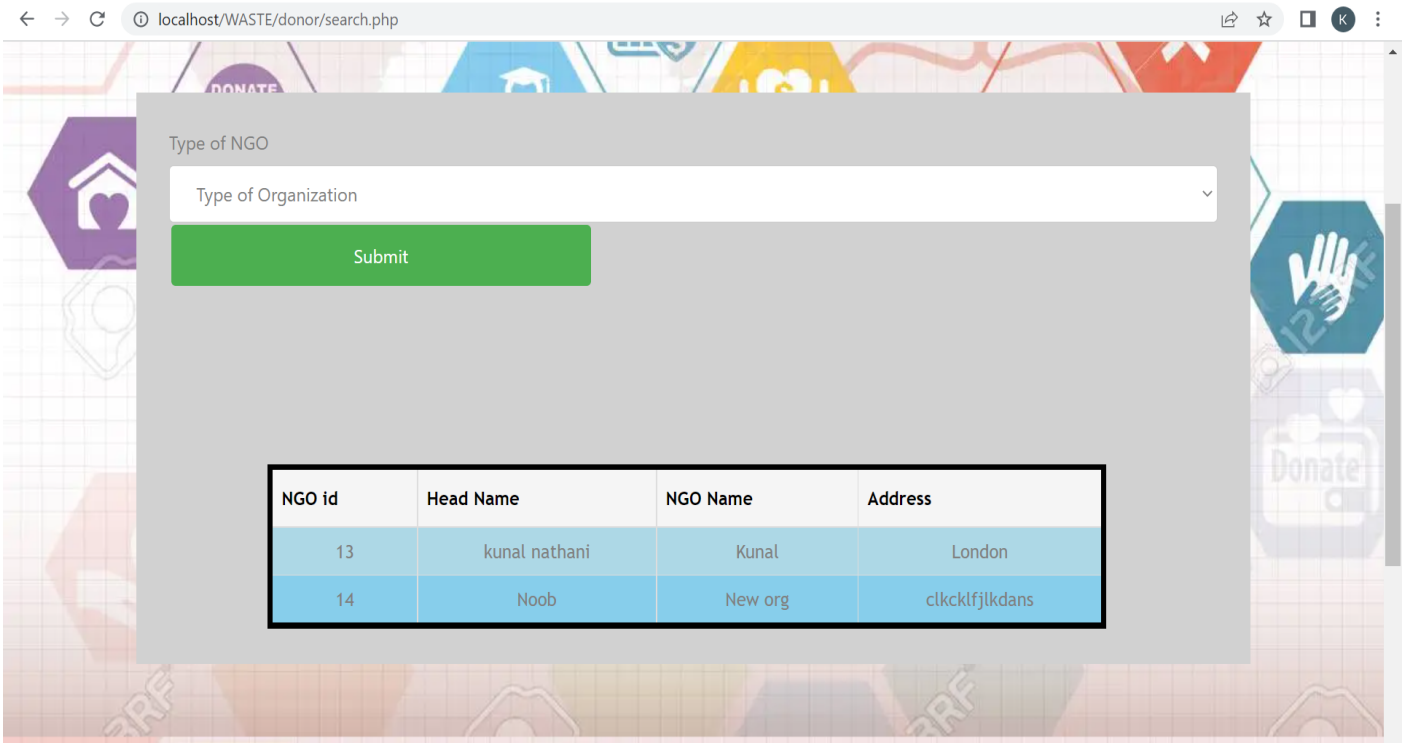


Donor’s Login Page:

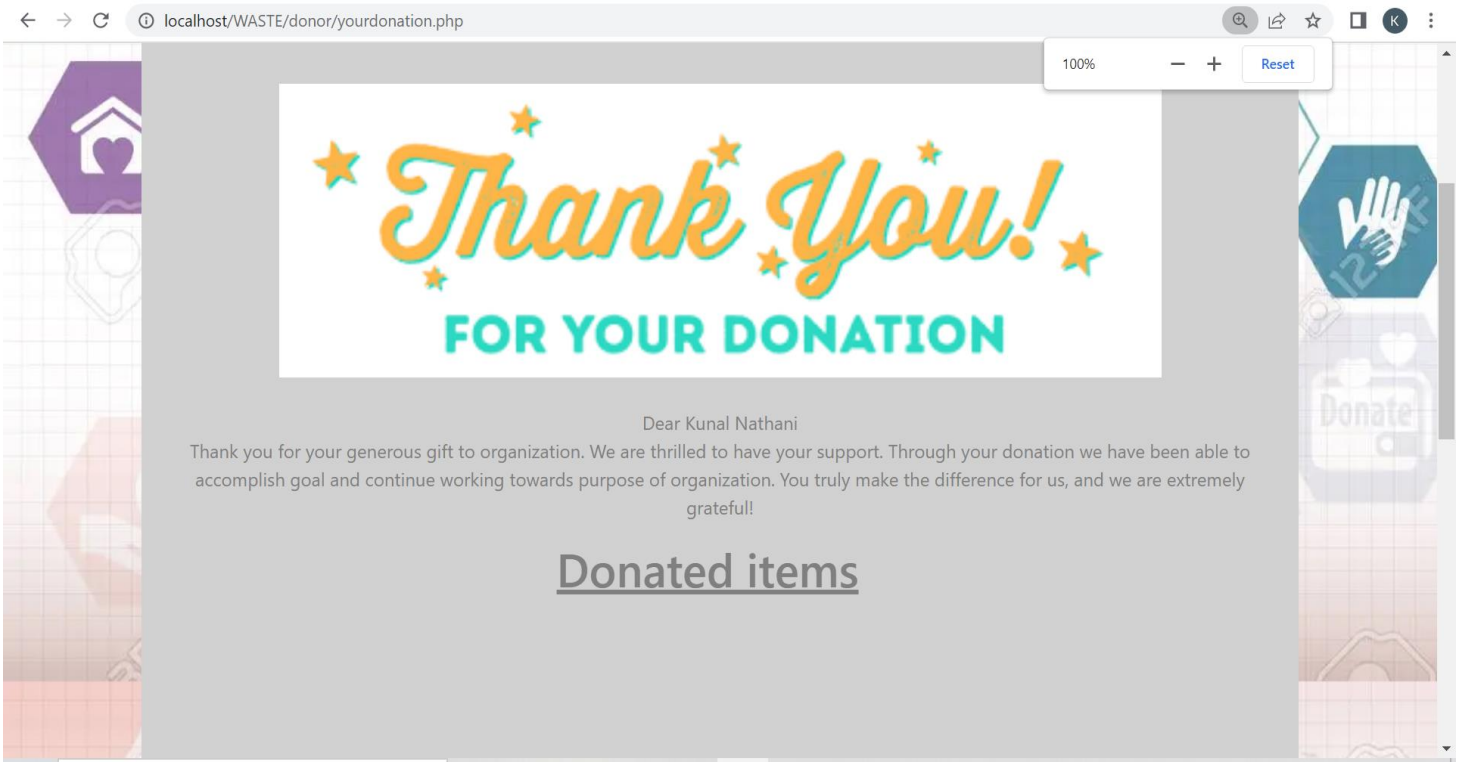


NGO/Donor Home Page:

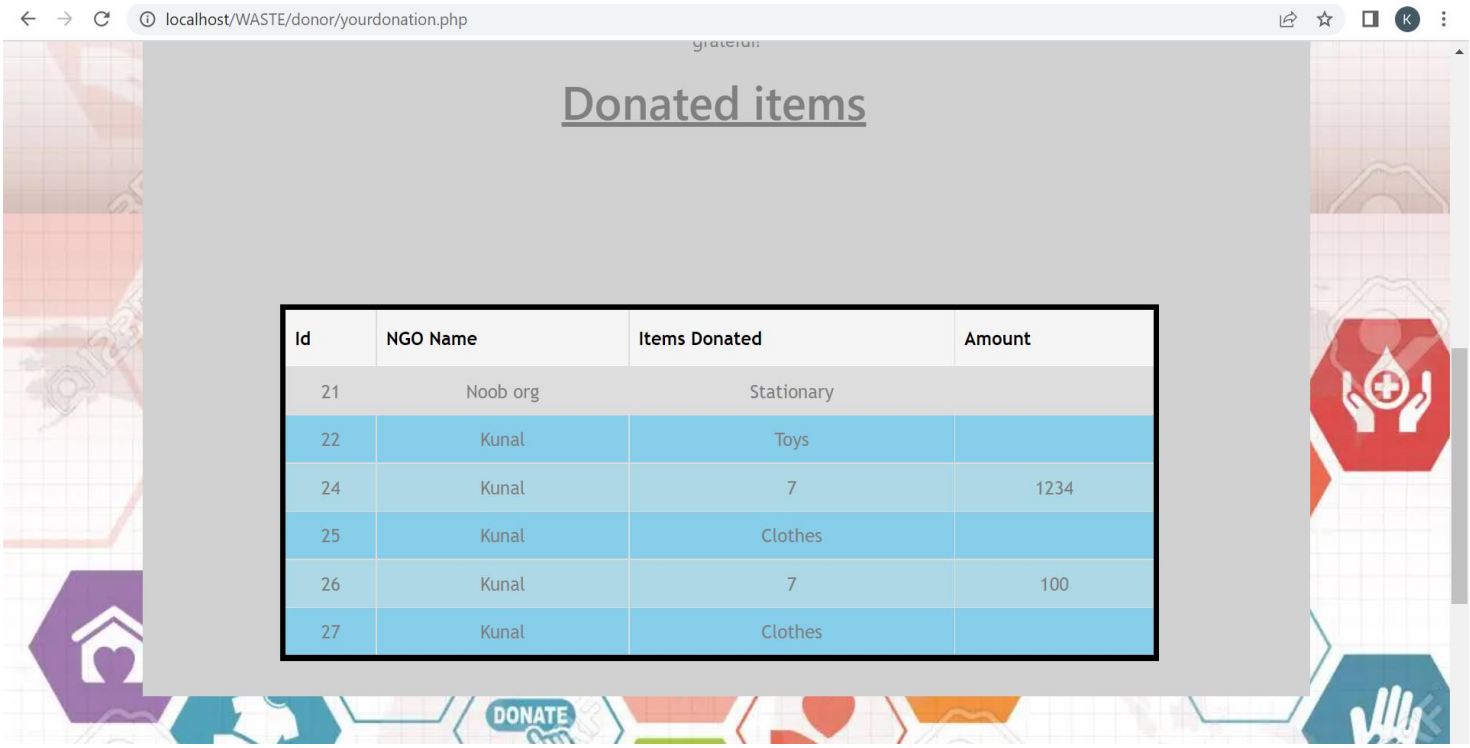
Synthesis Page:



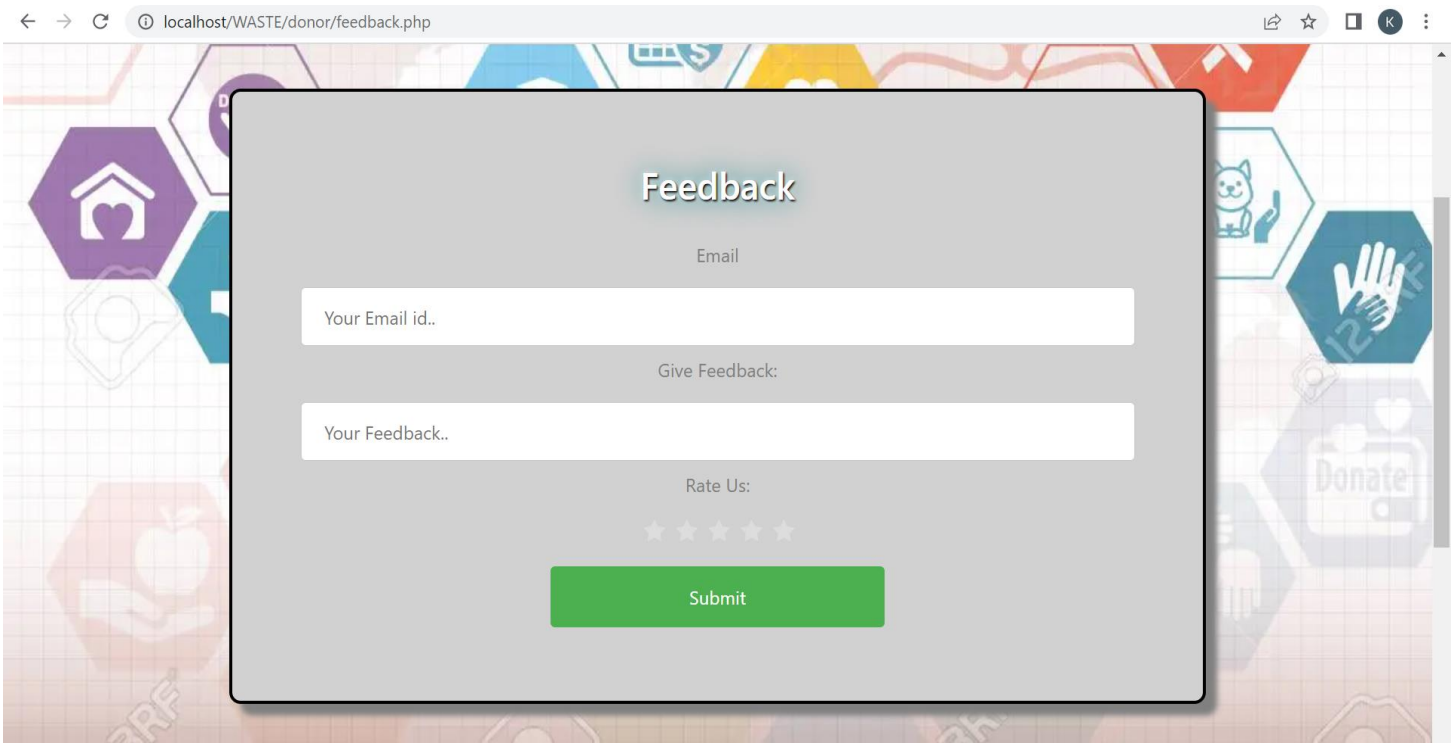
Your Donation Page:



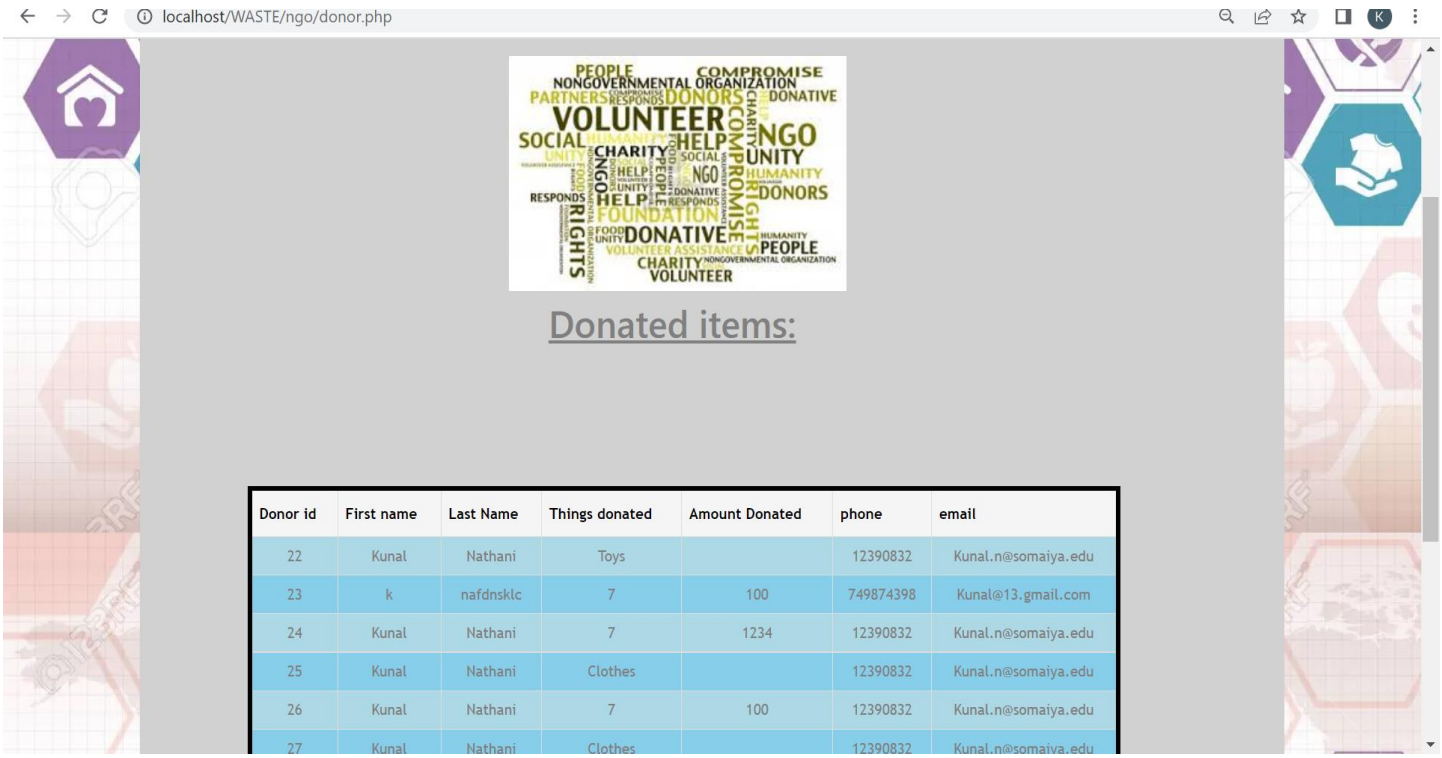
Donor's Donation Page:



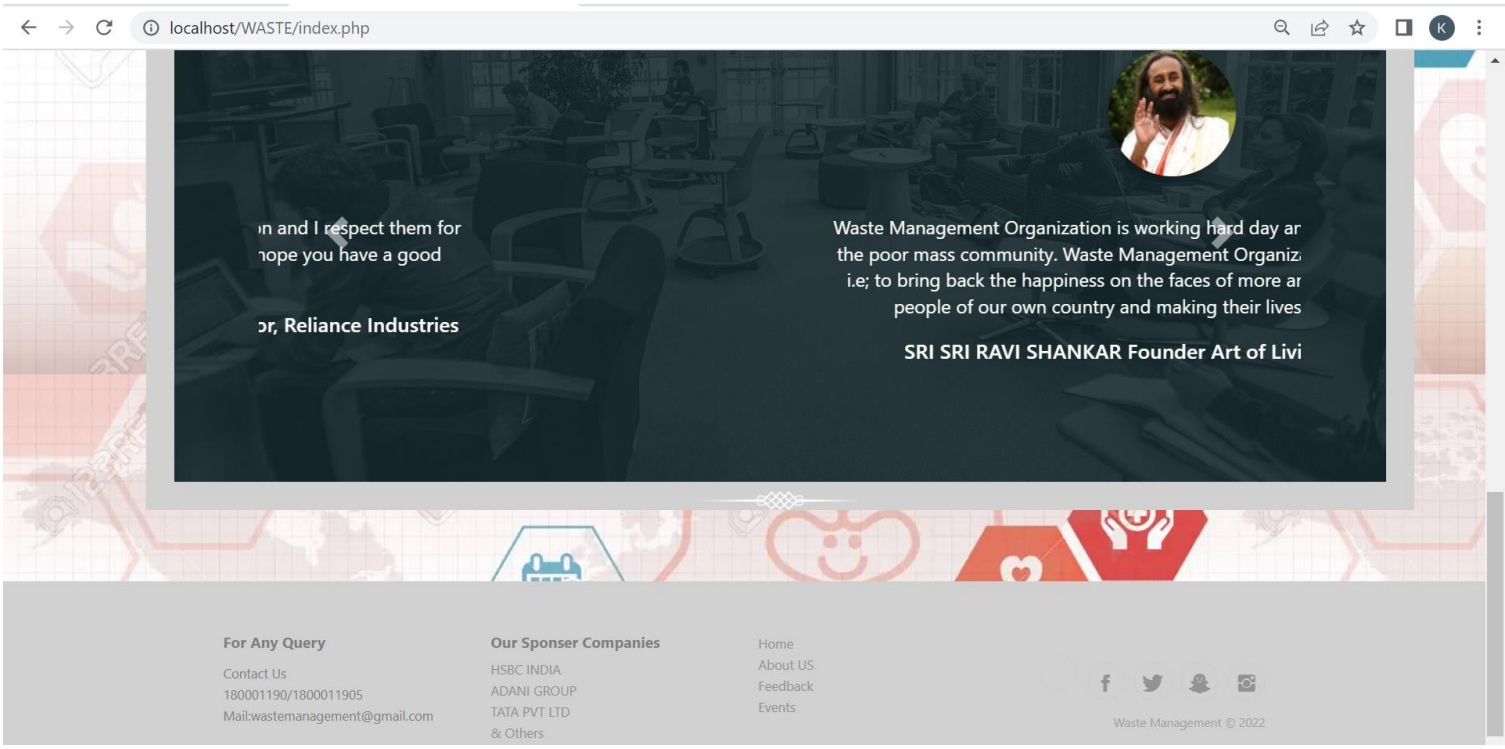
Feedback Page:



NGO Donation Page:



Footer Page:


localhost/WASTE/index.php
ɔr, Reliance Industries
Waste Management Organization is working hard day ar
the poor mass community. Waste Management Organiz
i.e; to bring back the happiness on the faces of more ar
people of our own country and making their lives
SRI SRI RAVI SHANKAR Founder Art of Livi
For Any Query
Contact Us
180001190/1800011905
Mail:wastemanagement@gmail.com
Our Sponser Companies
HSBC INDIA
ADANI GROUP
TATA PVT LTD
& Others
Home
About US
Feedback
Events
Waste Management © 2022

Chapter 5
Conclusion and Future Scope

Chapter 5

Conclusion and Future Scope

5.1 Conclusion

We would like to conclude that our project aims at helping the needy by connecting them with donors by using the NGOs as an intermediary who shall do their job aided by the website that we shall provide them. Our website shall aim to mitigate issues like lack of awareness among donors, lack of transparency in the donation process and this acts as a bridge between the people in need.

5.2 Future Scope

India is developing nation and problems such as hunger and other issues arestill prevalent to a larger degree. We shall try to contribute our best by connecting the people in need with the providers and donors. We shall try andexpand our site reach and the amount of help we provide .

Chapter 6
References

References

- GeeksforGeek
- Stack overflow
- Donation websites

  (for eg. Milaap.org, giveindia.org, akshayapatra.org, etc.)
- Youtube