Donation Management System

By

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Donation Management System

Report

Submitted in partial fulfillment of the requirements

For the degree of

Bachelor of Technology in Computer Science & Engineering

By

19BCE252 – JAINISH SHAH

19BCE188 – NITYA PATEL

Guided By

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Ahmedabad 382481

CERTIFICATE

This is to certify that the Minor Project entitled “Donation Management System” submitted by Shah Jainish (19BCE252) and Nitya Patel (19BCE188) , towards the partial fulfillment of the requirements for the degree of Bachelor of Technology in Computer Science and Engineering of Nirma University is the record of work carried out by him/her under my supervision and guidance. In my opinion, the submitted work has reached a level required for being accepted for examination.

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ACKNOWLEDGEMENT

First of all, I would like to express my profound gratitude to Professor Shivani Desai (Faculty Advisor) of Computer Science and Engineering for providing this opportunity. I would like to express a special thanks to Professor Chandan Trivedi (mentor of the project) for his time and effort he provided during the project. Your useful advice and suggestions were really helpful to me during the project's completion. I would also like to acknowledge the efforts of my colleague who worked with me during the tenure of the project.

ABSTRACT

The proposed system of donation management system comes with various features made for social support. This system helps to connect people working for social cause and people in need. There are mainly three parts of the system user, NGO and admin. The user can add a request in the system of any item with the exact location of operation and total number of persons that donation can serve. The NGO can see the request made by the user and can collect the donation from the location provided. Here whenever the user will donate something he will earn coins which he can redeem in the redeem section. The same goes for the NGO they will also earn coins whenever they will accept the request of the user. The admin can control both the request by users and NGO.

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This chapter will contain the details of project work.

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Chapter 1: Scope of Project

This Chapter describes in-depth details regarding the project that why it is, For whom it is and How it can be useful.

1.1 General Introduction

This project has been developed as a part of a community service where we had been providing a portal (in form of a website) for the poor people who are need to request for donations and the donors who have been donating the items through the website and our partners will be helping them by providing a service to take a item and deliver to the needy people. All these functionalities are developed using the Php and Api's for taking only the authenticated users on the applications and managing a smooth experience for our users. Every time a user makes a donation here, he or she receives coins that can be redeemed in the redeem section. The same is true for the NGO; once they grant a user's request, they will also receive coins. The administrator has oversight on both user and NGO requests. This whole system is available at your finger tips where you can just open the system and request for the item you are need of which will be delivered by the volunteers at your doorstep and for every successful delivery made by them they will be rewarded.

1.2 Brief description about company.

The IndyNeedy is a navigational communication tool that seeks to provide information on both immediate emergency food assistance (i.e. food pantries, meal sites and many more). IndyNeedy community will also create solutions to common problems that cause households to forego applying for federal benefits, such as allowing for books, clothes, food etc. as a solution to stigmas and outlining required documentation.

Interactive map displaying providers, including food pantries, meal sites, SNAP retailers, WIC retailers, WIC clinics and any other type of Provider contained in the database. The map should also have the option of displaying specific events in the given search area (farmers markets, food distribution, nutrition classes, mobile WIC clinics). IndyNeedy will require design assistance on how best to display Providers and Events on the map.

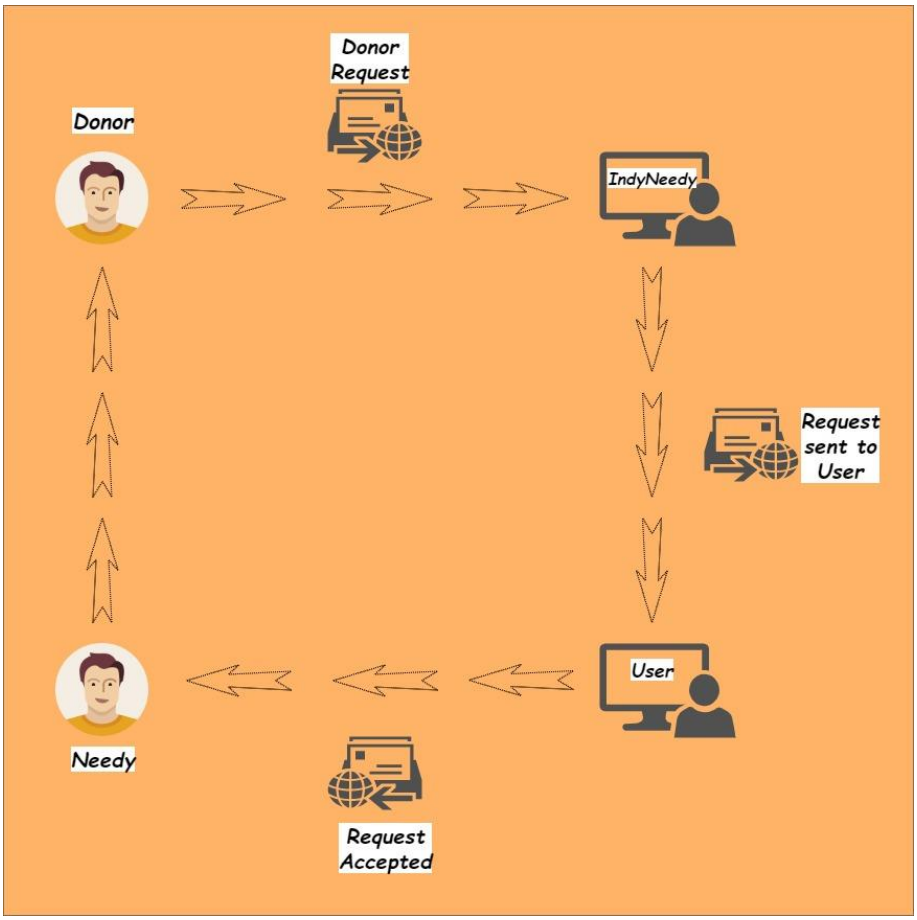


Fig.1 IndyNeedy System

➢ 1.3 Topic Title

Donation Management system is basically designed to fulfill the gap between the donor and people in need. It has been observed since many years especially in developing nation like India where there one side there has been lots of wastage happening of items like food, clothes etc whether it is seen in party functions restaurant chains and many more. However, on the other side it is quite evident that there are many organizations working for the fruitful needs of the society by conducting activities like donation drive of items like books, stationary, clothes etc. and also providing the food to people in need. Although after so many efforts made by these organizations it is always visible that they always have lack of resources so this system fulfills the gap between them by connecting the donor and the organizations in order to manage the resources and as a result it can reach to the people in need.

➢ 1.4 Objectives

- We want to improve and enhance the donation management system.
- To fulfill the requirements of the needy people.
- To help NGOs to provide with the necessary resources.
- To provide the information about the donation drives.
- If you look at the history, nobody has been rewarded for donating anything we are fixing that.

➢ Problem statement

Different organizations and NGOs working to help people who are in need related to book, food and many others, have always scarcity of resources and there is no platform available to connect these NGOs and organizations with people who can provide them resources.

Chapter 2: Phases of the Development Lifecycle.

This chapter introduces us with the different phases of software engineering we are gone through while building this fruitful heavy system that can make a change in the society.

Plan Phase:

The first stage of new software development will be to gather all relevant information from stakeholders and analyze this information to determine what will be feasible.

This includes compiling requirements, studying user personas, and agreeing on the product's purpose. During this phase, the team will also discuss the opportunities and risks of pursuing the project. This is why Software Testing Help refers to this phase as both requirements gathering and analysis.

Design Phase:

After the team has agreed on a broad set of requirements and goals for the product, the next step will be to create a design specification.

For a product team, this phase would include determining the priority order of the proposed work, building a product roadmap, and obtaining stakeholder agreement on it. This will help everyone on both the development and product teams get a clearer picture of what they are aiming for.

Implement Phase:

This is the stage where the engineering team actually codes the product. At this stage, the development team translates the high-level overview communicated in the roadmap into a tactical set of assignments, due dates, and day-to-day work schedules.

Test Phase:

After the team has completed a version of the software, they will release it to a testing environment. Here, the QA team and the developers will test all areas of the application to spot any defects, bugs, or other problems.

Deploy Phase:

At this stage, the team is confident it has fixed all defects and that the software has been built to the agreed-upon goals and specifications.

Now it’s time to release the software to the production environment. This means the product will be generally available for customers to buy and use.

Maintain Phase:

With the software now live and being used by customers, the development team’s focus will shift to maintaining it.

The developers will need to be ready to address requests for enhancements, bug fixes, and new features. These requests will come from many sources—sales, executives, customers—but the product management team will determine which of these initiatives make it onto the product roadmap for developers to work on.

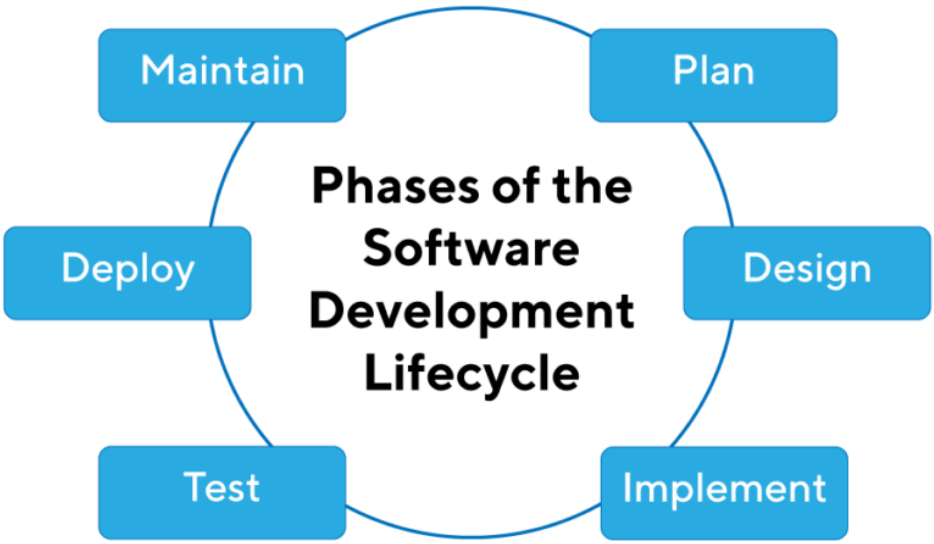


Fig.2 Software Development Life Cycle (STLC)

SOFTWARE TESTING LIFE CYCLE (STLC) defines the various stages/phases in the testing of software. However, there is no fixed standard STLC in the world and it basically varies as per the following:

- Software Development Life Cycle
- Whims of the Management or Team

Nevertheless, Software Testing Life Cycle, in general, comprises of the following phases:

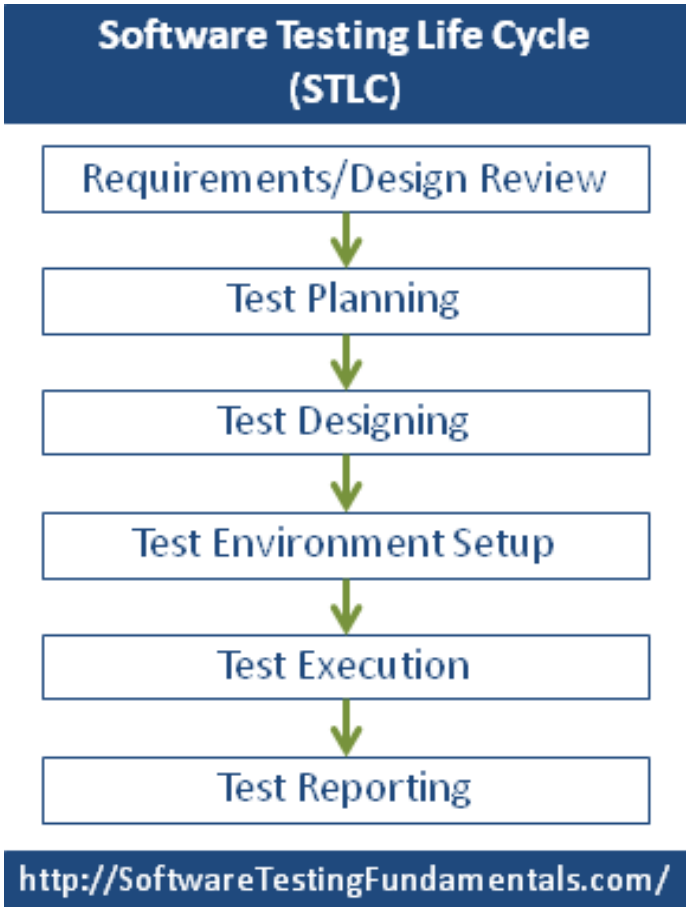


Fig.3 Software Testing Phases

Chapter 3: Functionalities

- **Home Page:**
    - Provides the information about the company.
    - User can click on sign-up/in button to join the community.
    - NGOs can click on sign-up/in button to join the community.
    - On clicking the donate button the website will ask the user to provide login credentials.

- **Users Module:**

    - **Login:**

      To login into the system the following details are required:
        - Email-address – must be a valid emailed
        - Password – Must have at least 8 characters, the text field must be in password mode.

    - **Sign-up:**

      The users and NGOs can register themselves for the IndyNeedy system. For registering the following are required:
        - Name – Must be correct name of user.
        - Email-address – must be a valid emailed
        - Password – Must have at least 8 characters, the text field must be in password mode.
        - Contact – Must be minimum 10 digit long
        - City – city of user.

    - **Donate:**

      After signing into the account user can donate the resources he want to give. Following are the requirements of the function.
        - Donation Category – type of item to be donated
        - Address – Address of the user.
        - Location access – To record proper location of user from where the donation needed to be taken (google API).
        - State – state of user.

- City – city of user.
- Pincode – pincode of user.
- Serving Capacity – Approx people to be served.
- Mobile Number – Must be atleast 10 digit long.

- **Past Orders:**

  The user can see the list of donations made by him till now.

- **Rewards:**

  User will be rewarded with coins everytime he/she will make a contribution. Following are the requirements of functions:

  - Balance – shows remaining balance/coins of users.
  - Redeem – User can redeem offer available at the website.

- **Organization Modules:**

  - **Login:**

    To login into the system the following details are required:

    - Email-address – must be a valid emailed
    - Password – Must have at least 8 characters, the text field must be in password mode.

  - **Sign-up:**

    The users and NGOs can register themselves for the IndyNeedy system. For registering the following are required:

    - Name – Must be correct name of organization.
    - Email-address – must be a valid emailed
    - Password – Must have at least 8 characters, the text field must be in password mode.
    - Contact – Must be minimum 10 digit long
    - City – city of organization.

  - **Pending request:**

The organization can view all the request made by the user regarding any kind of donation.

- Donation Category – type of item available to be received.
- Address – Address of the donor.
- Location – Google map view for resource take away.
- State – state of donor.
- City – city of donor.
- Pin code – pin code of donor.
- Serving Capacity – Approx people to be served.
- Request status – NGOs can accept or reject the request.

- **Past Orders:**

  The organizations can see the list of donations request accepted by them till now.

- **Rewards:**

  Organizations will be rewarded with coins everytime they will accept a donation request. Following are the requirements of functions:

  - Balance – shows remaining balance/coins of organizations.
  - Redeem – organizations can redeem offer available at the website.

- **Admin Modules:**

  - My Profile
  - Edit Profile
    - If the admin is trying to change the mobile number then it needs to be verified. So the system will send verification numbers on this new mobile and admin need to enter verification code for validating new mobile numbers.
  - Change Password
    - User needs to enter the old password. new password and confirm new password.
    - Password must contain minimum eight characters
  - Log out
  - Dashboard
    - Display total active users of system.

- Displays total active NGOs of system.
- Displays total donation made till now.
- Displays every week traffic on system.

- User Master
    - Ability to create user by adding the details like :
        - User Name
        - Address
        - Phone Number
        - password
        - Email
    - Add/Delete Users
    - View list of Users
    - View list of deactivated Account.
    - Ability to search the details of each users like: name and email

- NGO Master
    - Ability to create organization by adding the details like :
        - Org. Name
        - Address
        - Phone Number
        - password
        - Email
    - Add/Delete Org.
    - View list of Org.
    - View list of deactivated Account.
    - Ability to search the details of each Org. like: name and email

Chapter 4: Non-Functionalities

- Security and Privacy Requirements

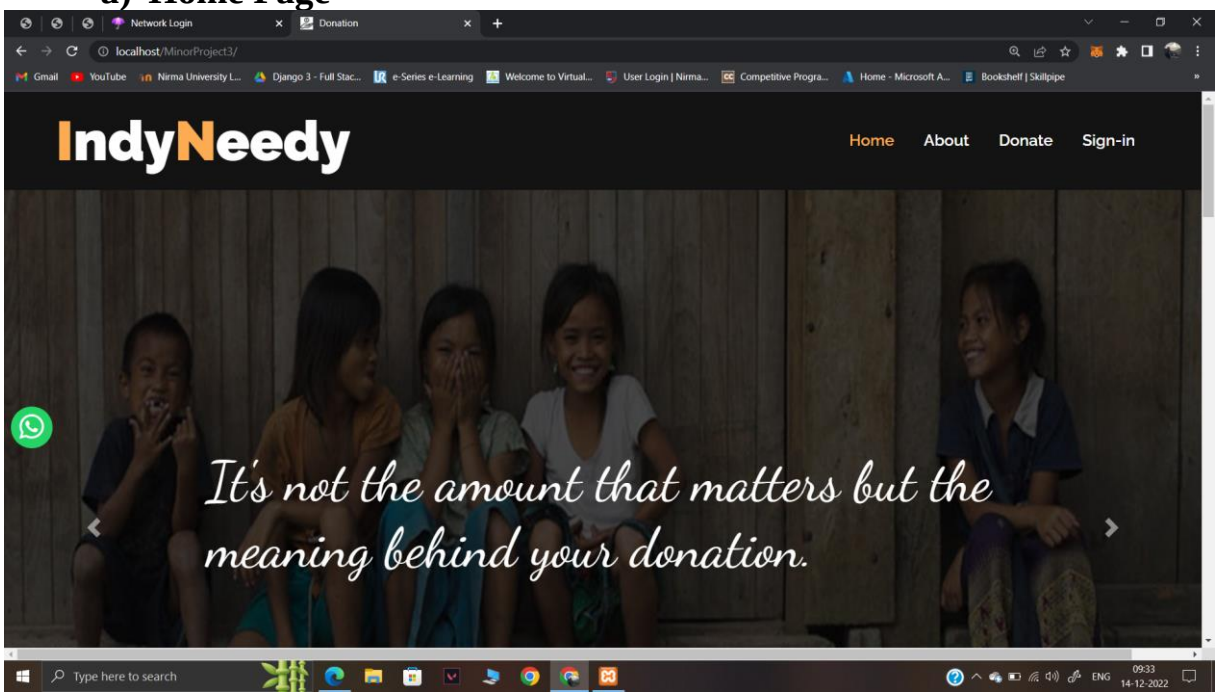
  - **Authentication**
    - Only authenticated users will be allowed to donate, redeem rewards etc.
    - The unauthenticated users will not be allowed to register with the system through the website and can only view the services provided by the system.
    - The security will be based on the simple password protection and also will be otp enabled using SMTP protocol.
    - There will be captcha if the user forgets the password and the recovery ofthe password will be sent to the user via link in the backup mail ID.

  - **Authorization**
    - Security needs to be checked on the website startup to prevent any cracked ormanipulated website to access the database.
  - **Privacy**
    - The donations placed or served by a particular user or organization respectively can only be seen by the user itself andadministrator.

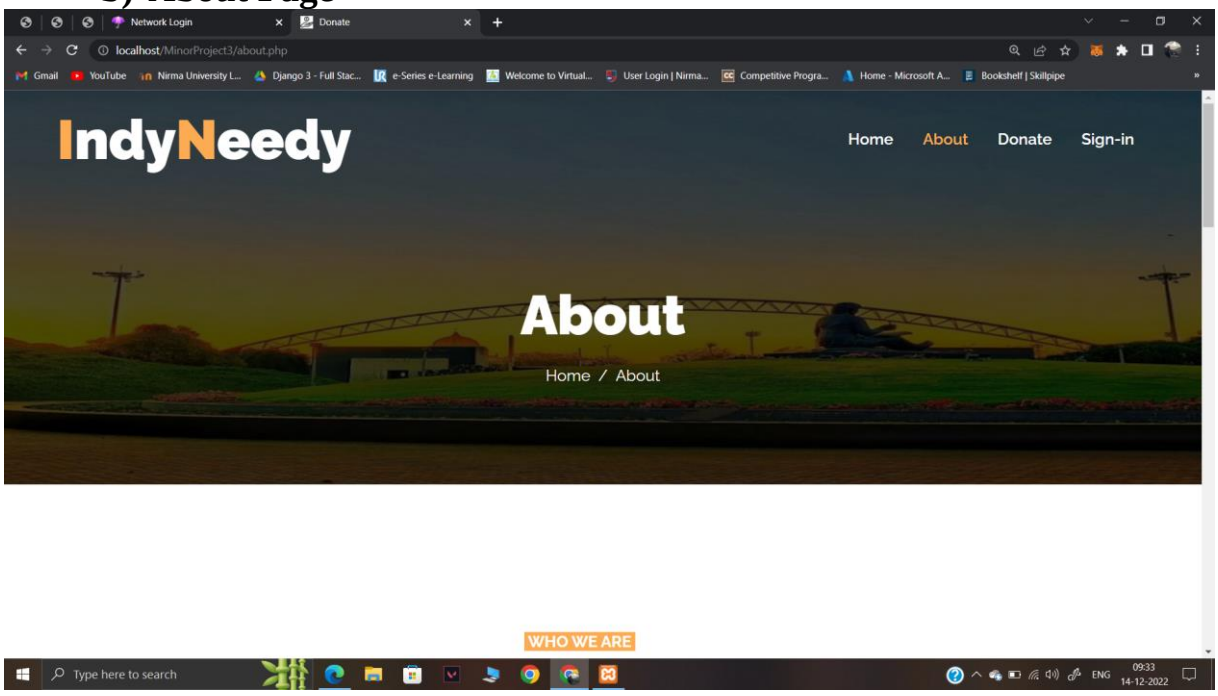
- **Computer Resource Requirements**
  - **Computer Hardware Requirements**
    - **Server side:**
      - Intel Xeon/AMD Epyc processor
      - 64 GB RAM
      - 1 TB HDD
      - 1 Gbps Internet connection speed
    - **Client side:**
      - A system with Android 8.0 (Oreo) or above
      - Internet connection with minimum 1Mbps speed
  - **Computer Software Requirements :**
    - **Server side:**
      - Windows Server 2012 or later.
      - MySQL
    - **Client side:**
      - Application

Chapter 5: Results and Screen Shots :

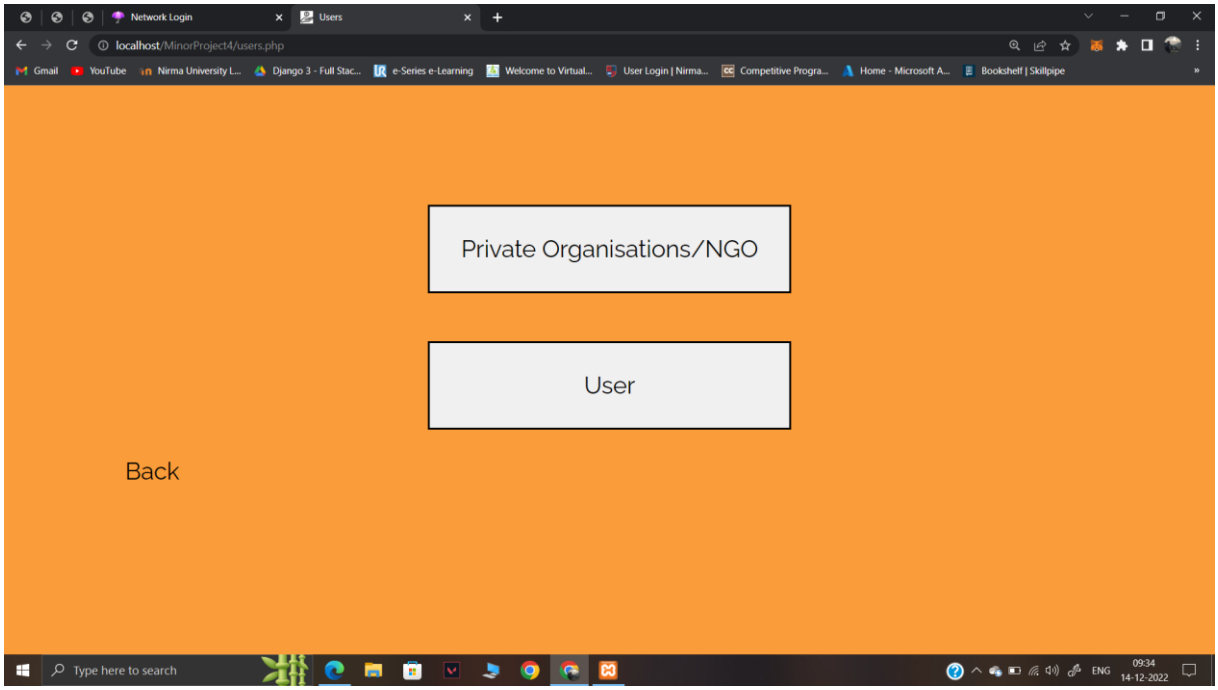
a) Home Page



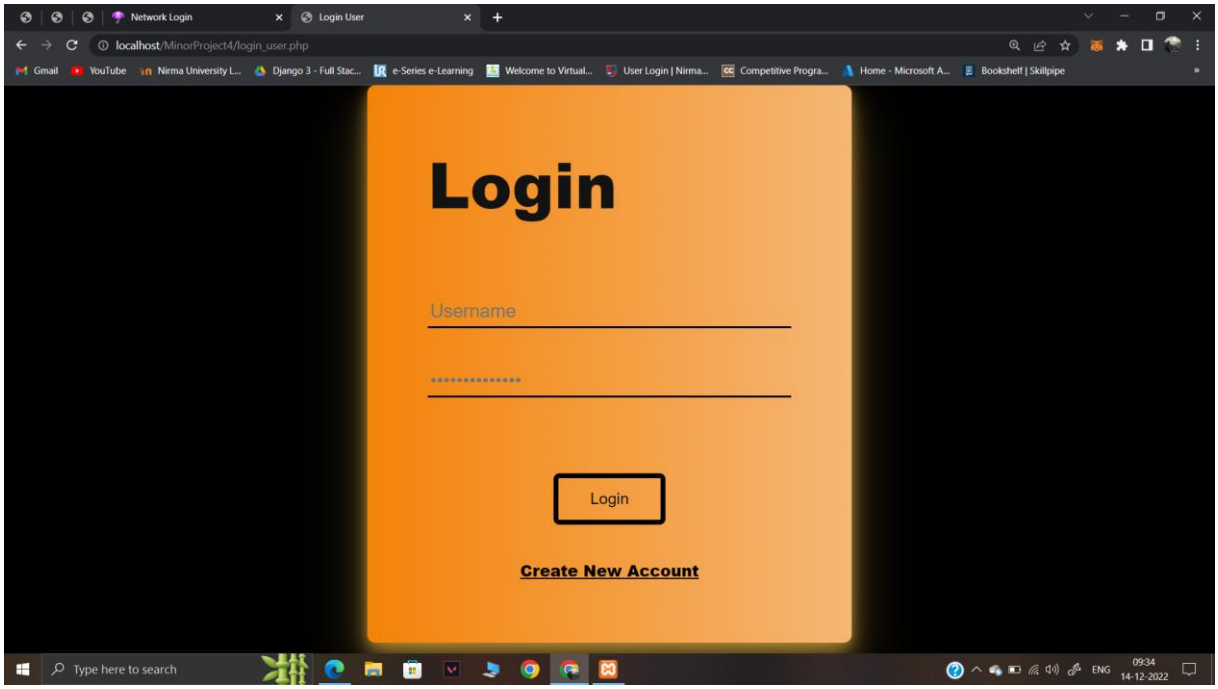
b) About Page



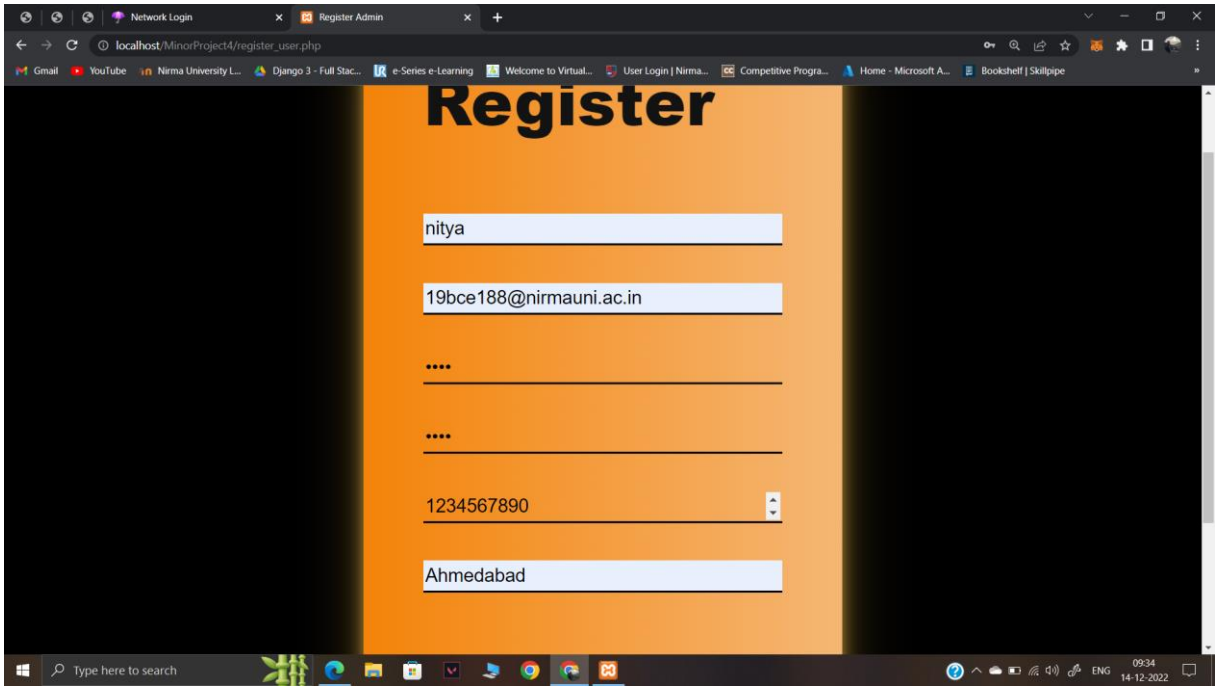
c) Select Your Role



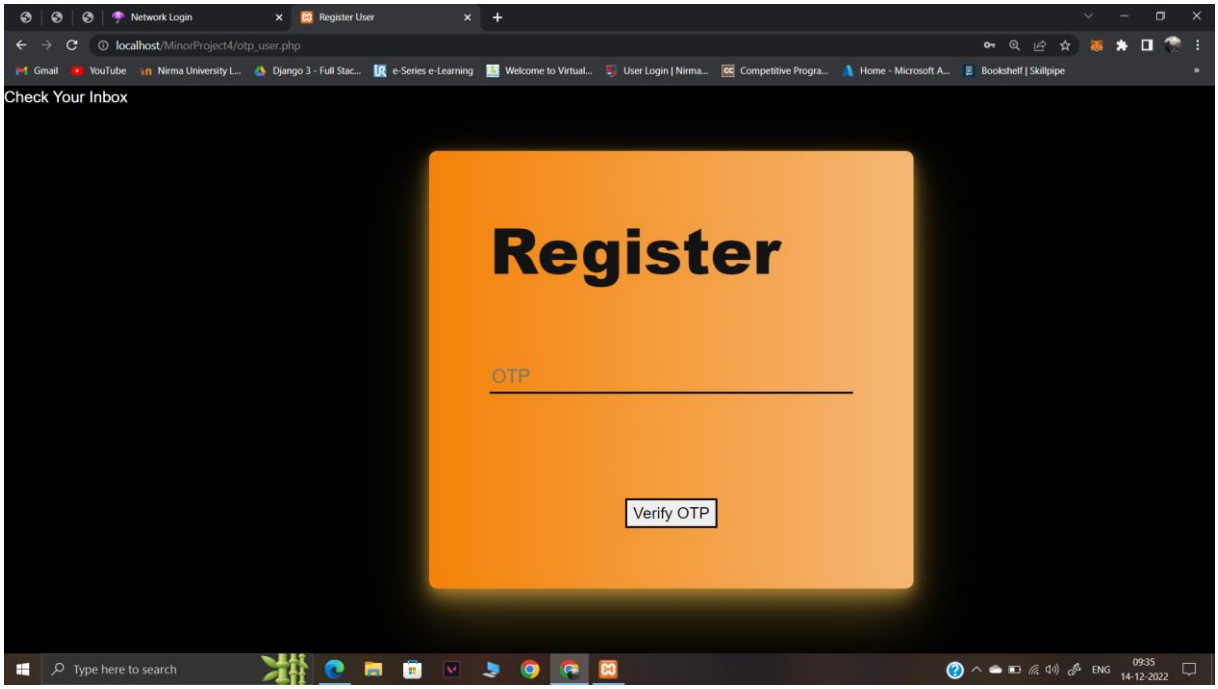
d) User login page:

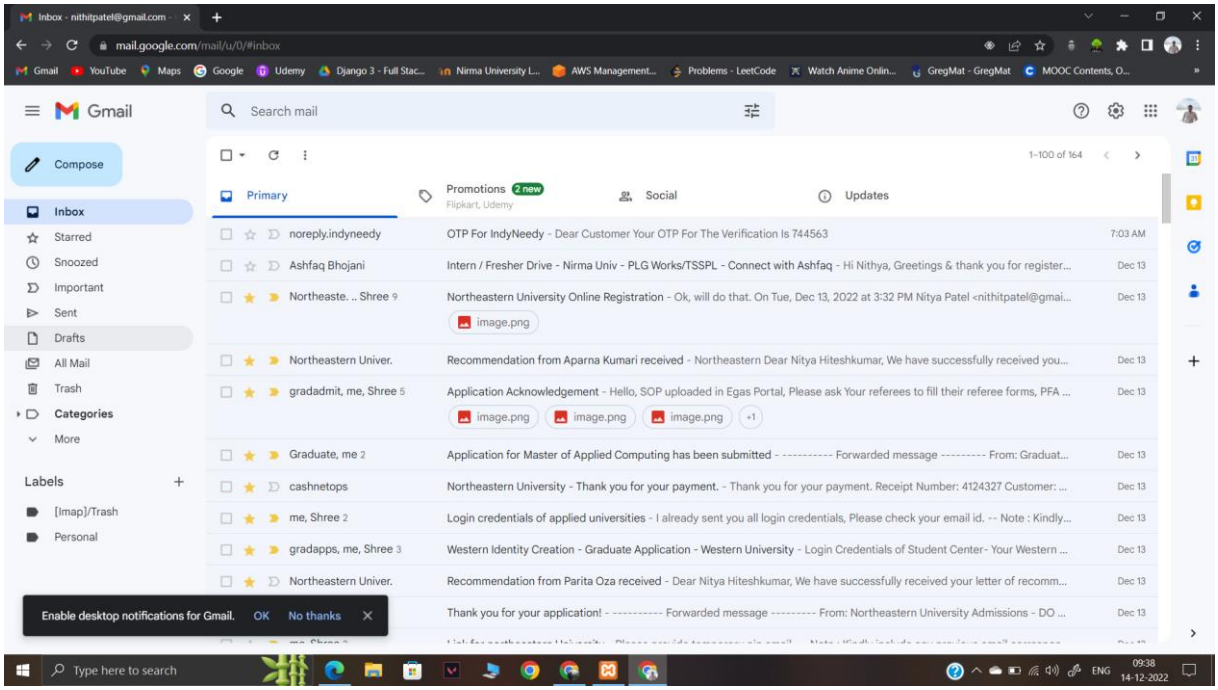


e) User Registration form:



f) User Verification by OTP

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Northeastern University Online Registration - Ok, will do that. On Tue, Dec 13, 2022 at 3:32 PM Nitya Patel <nithitpatel@gmai...
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gradadmit, me, Shree 5
Application Acknowledgement - Hello, SOP uploaded in Egas Portal, Please ask Your referees to fill their referee forms, PFA ...
Graduate, me 2
Application for Master of Applied Computing has been submitted - ---------- Forwarded message --------- From: Graduat...
cashnetops
Northeastern University - Thank you for your payment. - Thank you for your payment. Receipt Number: 4124327 Customer: ...
me, Shree 2
Login credentials of applied universities - I already sent you all login credentials, Please check your email id. -- Note : Kindly...
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Western Identity Creation - Graduate Application - Western University - Login Credentials of Student Center- Your Western ...
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Thank you for your application! - ---------- Forwarded message --------- From: Northeastern University Admissions - DO ...
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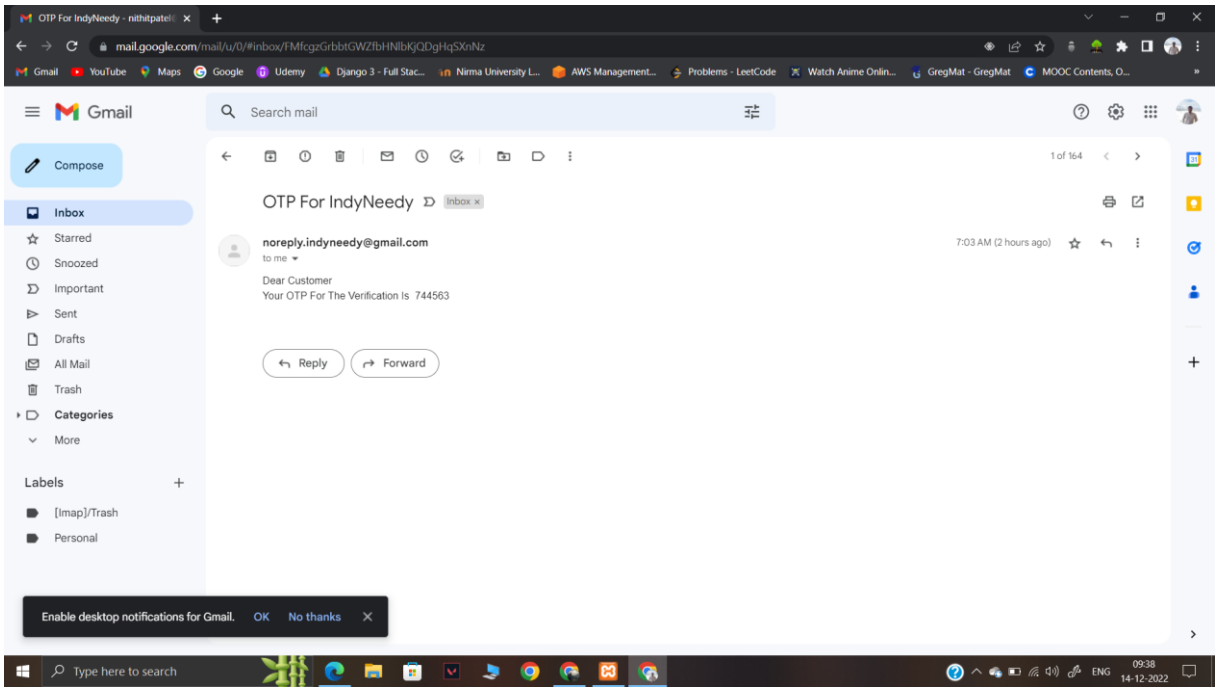
OTP For IndyNeedy - nithitpatel
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Starred
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Important
Sent
Drafts
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Trash
Categories
More
Labels
[Imap]/Trash
Personal
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Inbox
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Dear Customer
Your OTP For The Verification Is 744563
Reply
Forward
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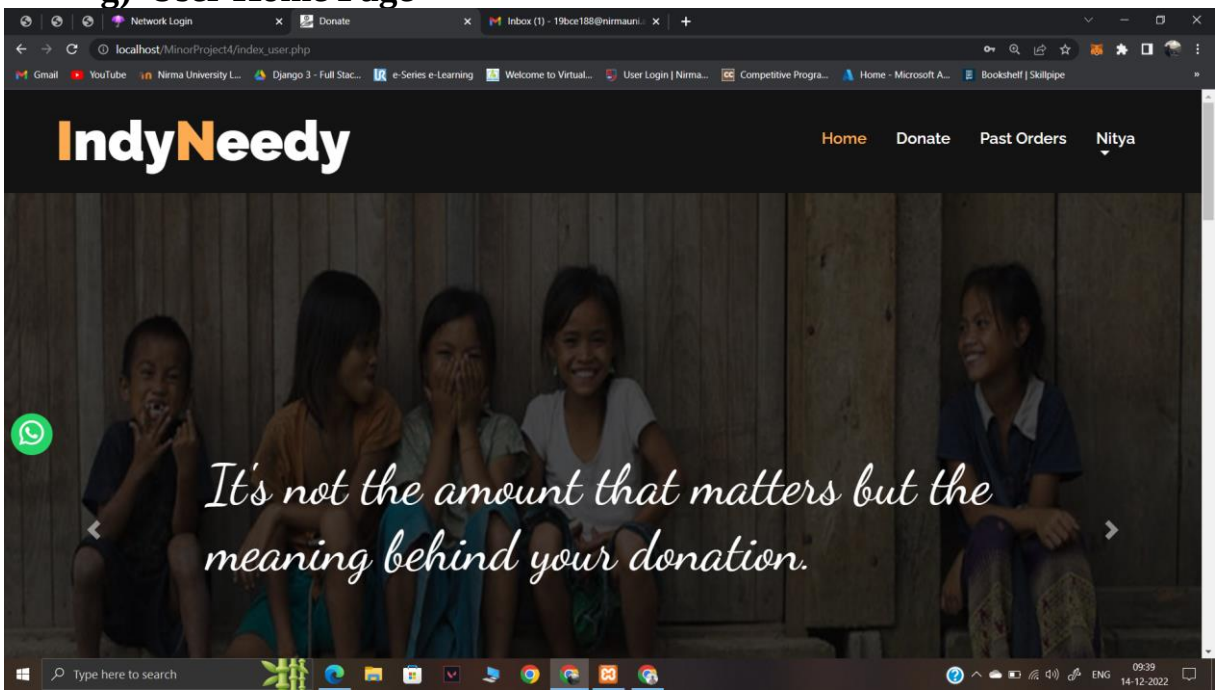
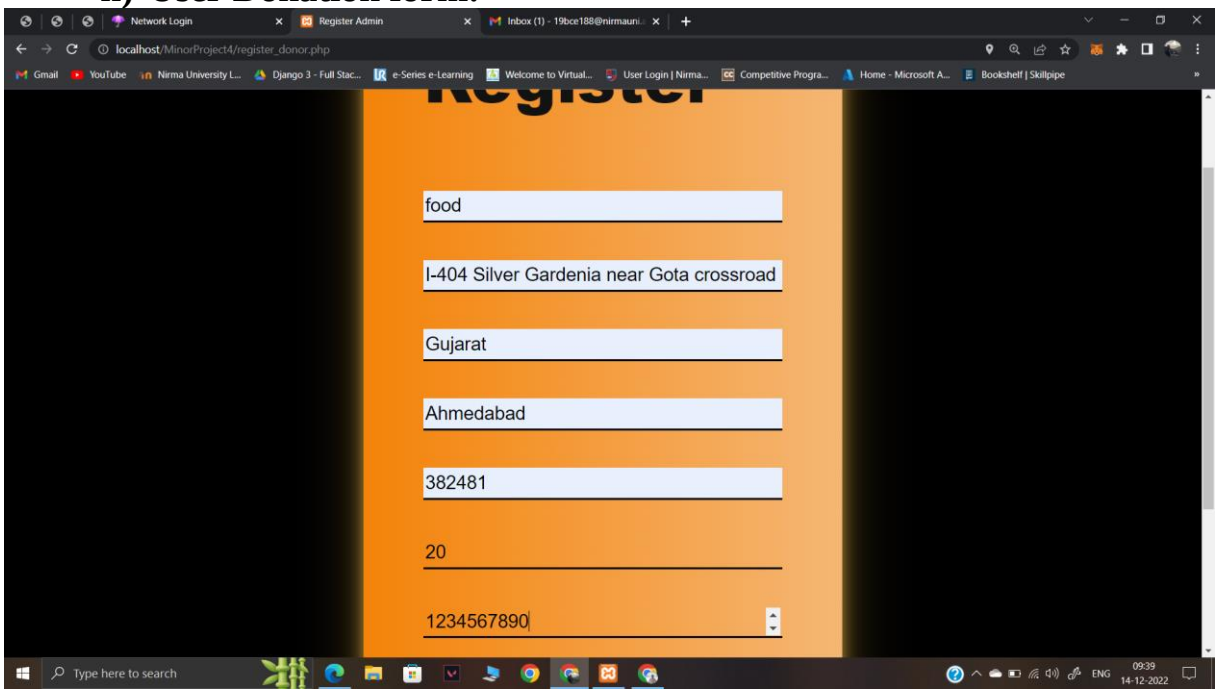
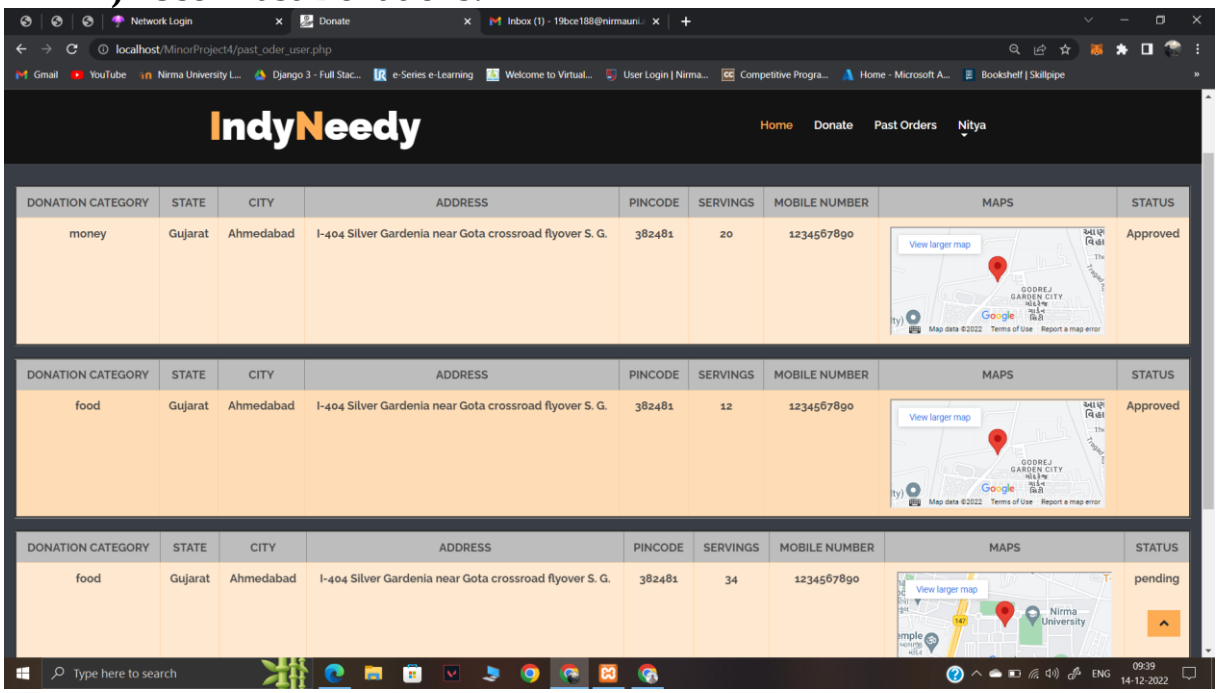
g) User Home Page



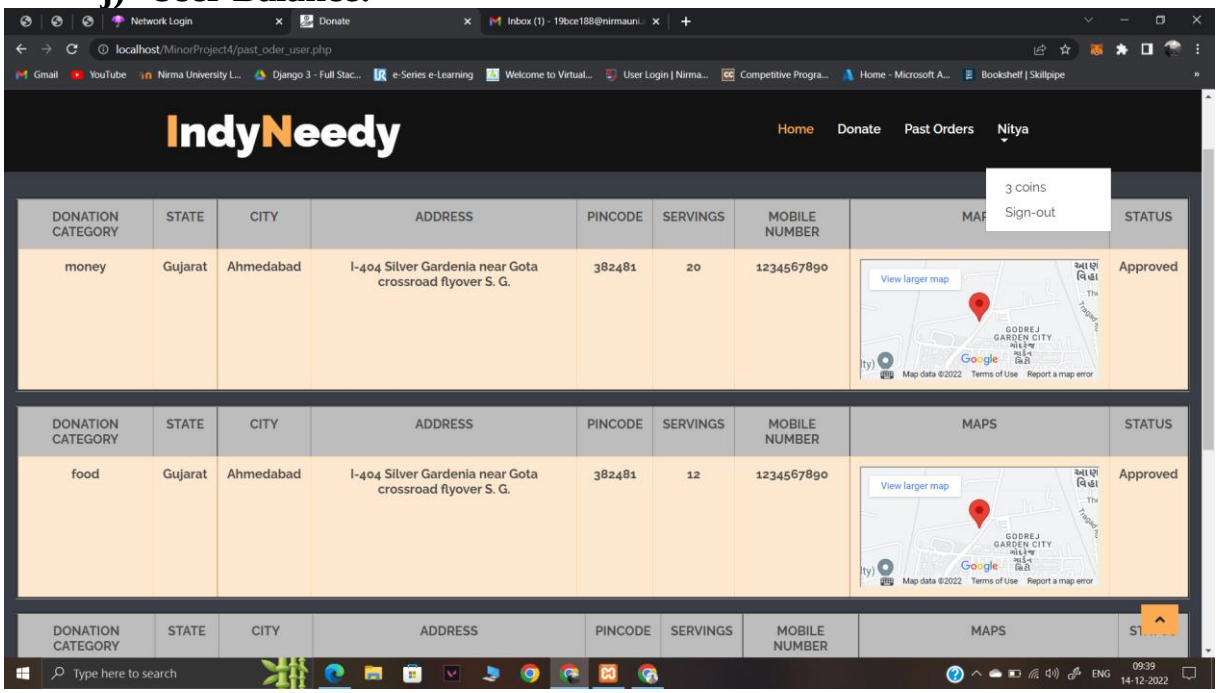
h) User Donation form:



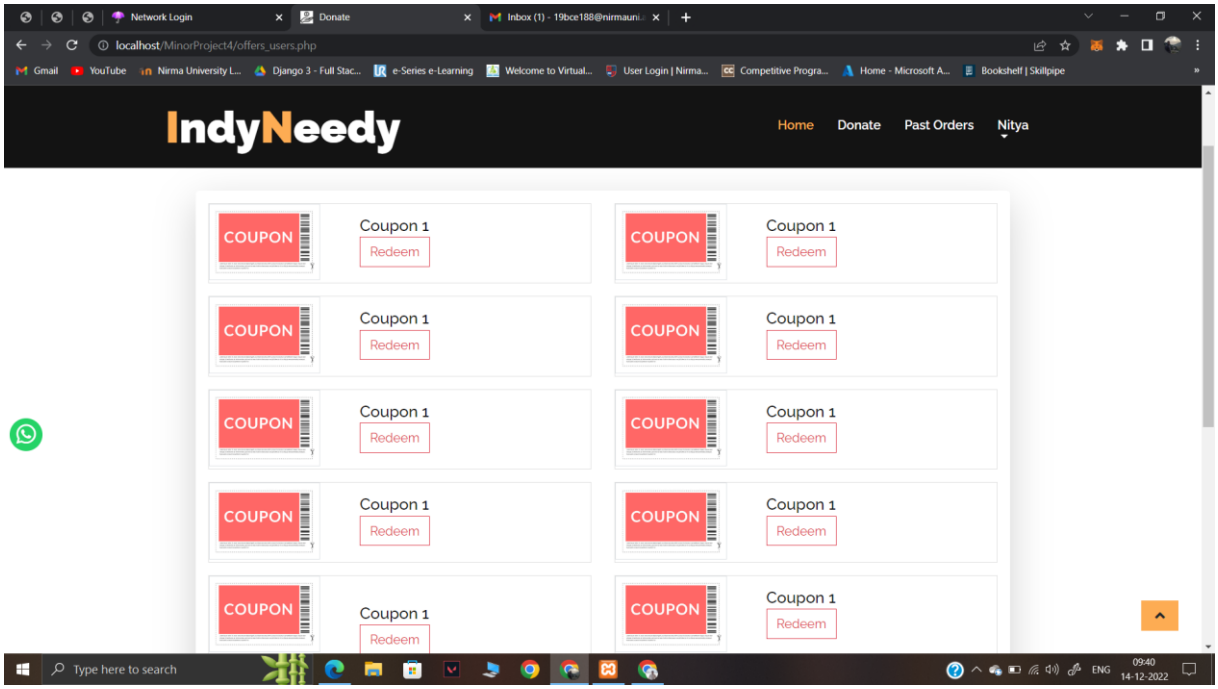
i) User Past Donations:



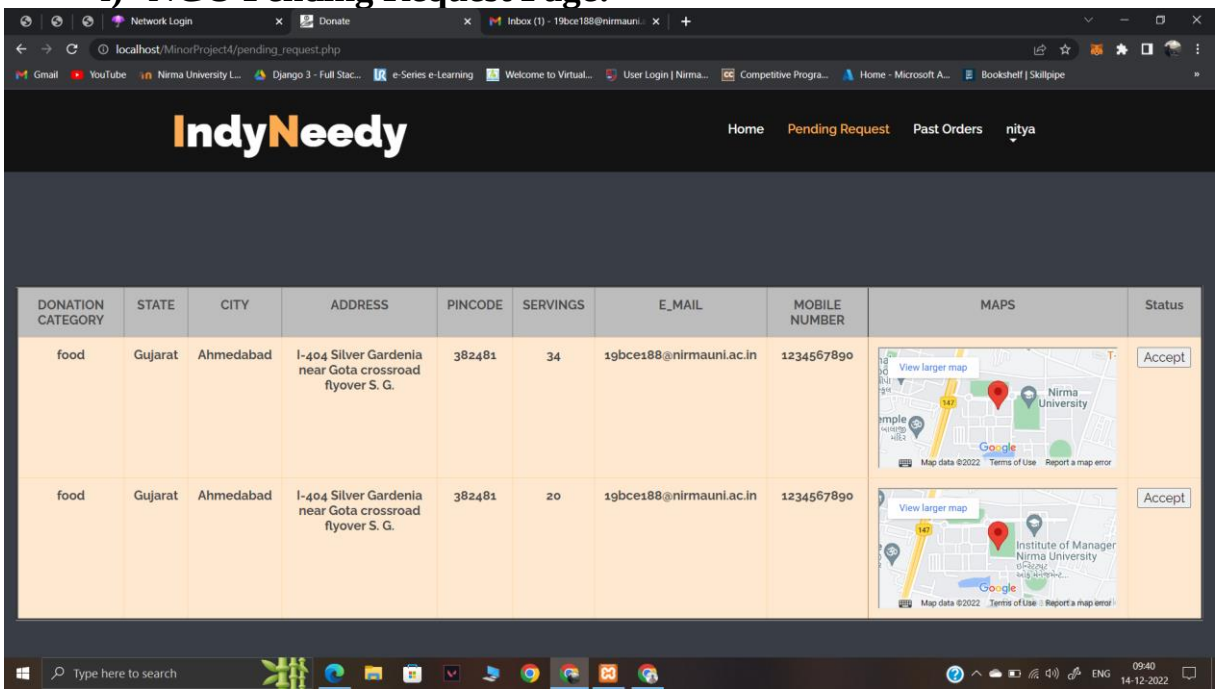
j) User Balance:



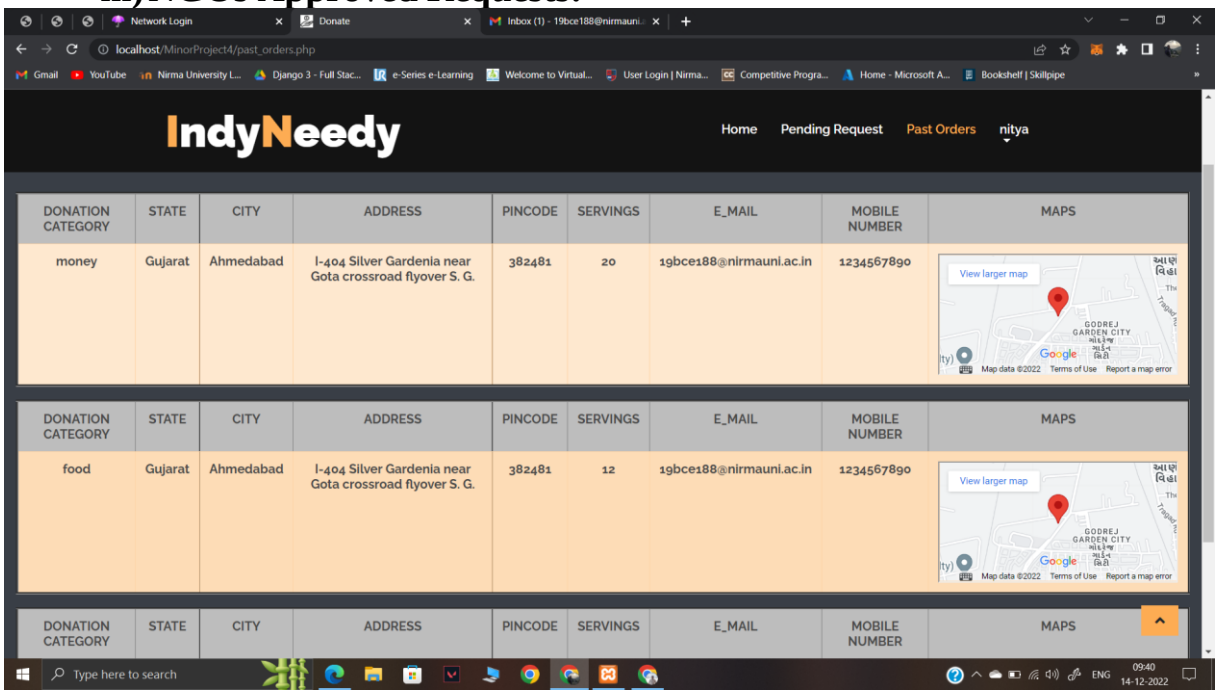
k) Coupon Redemption Page:



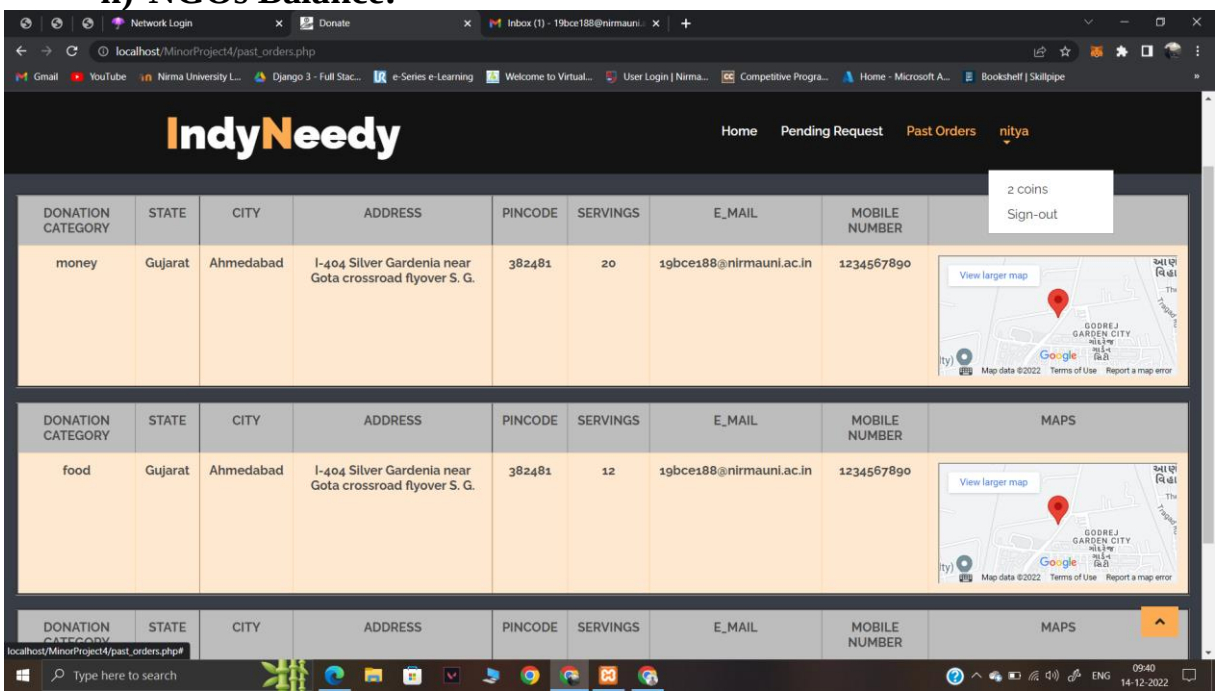
l) NGO Pending Request Page:



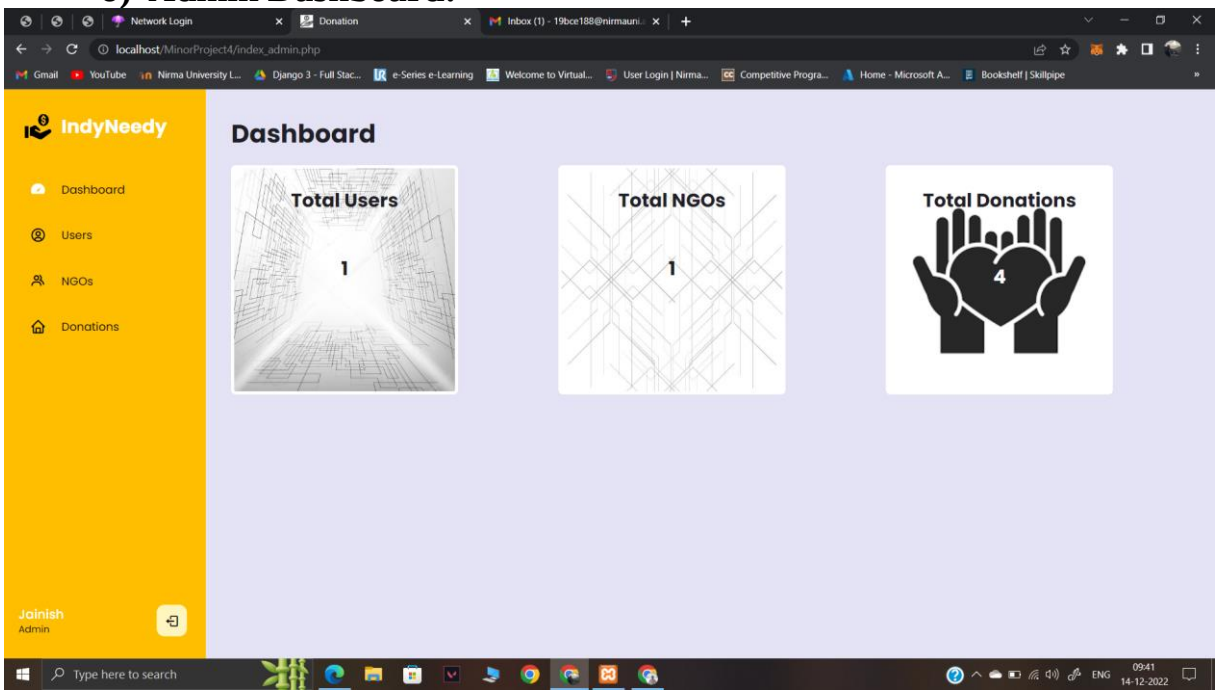
m) NGOs Approved Requests:

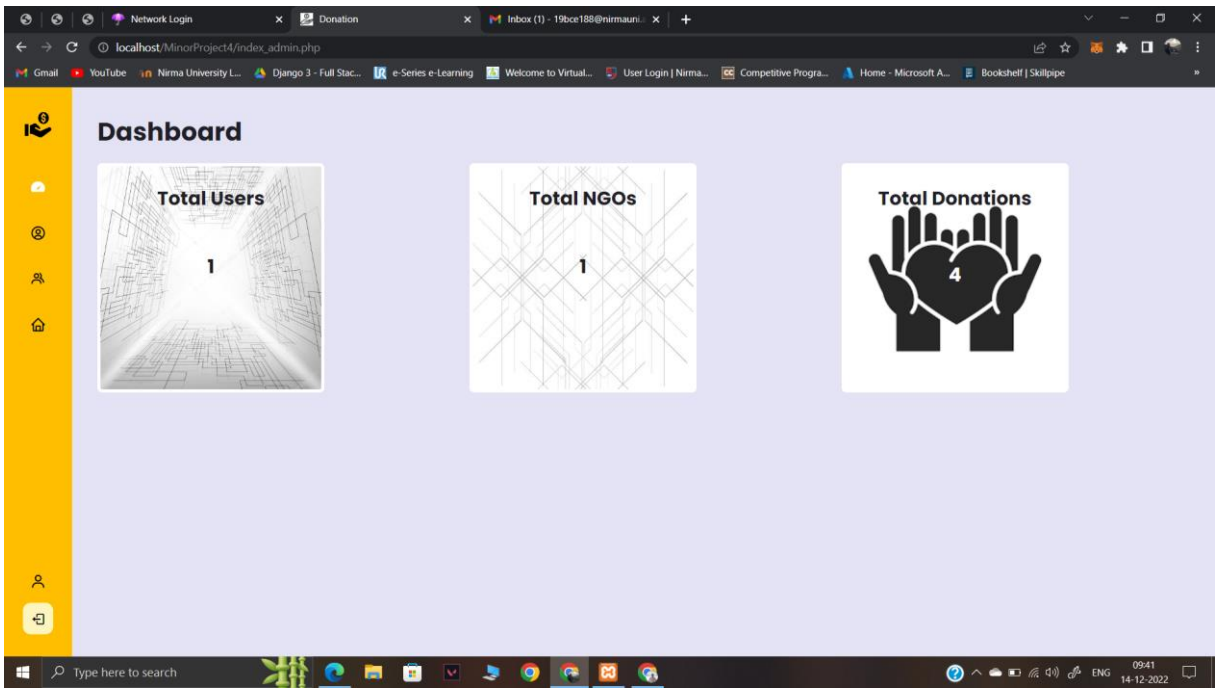


n) NGOs Balance:

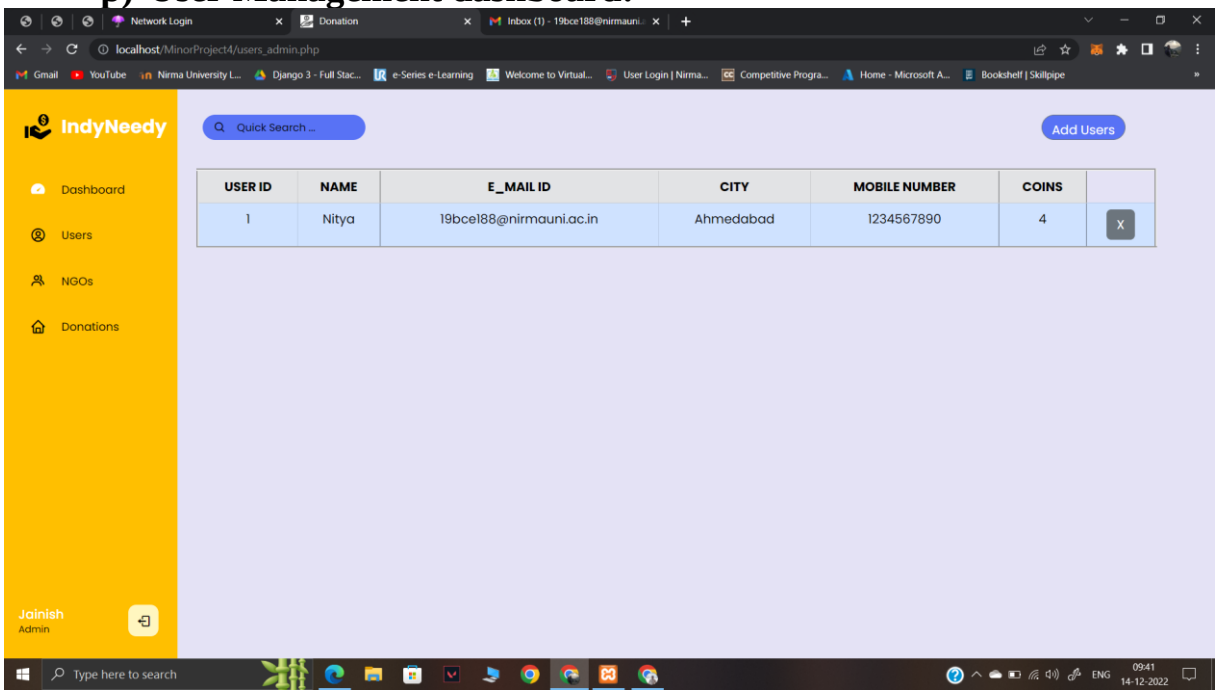


o) Admin Dashboard:

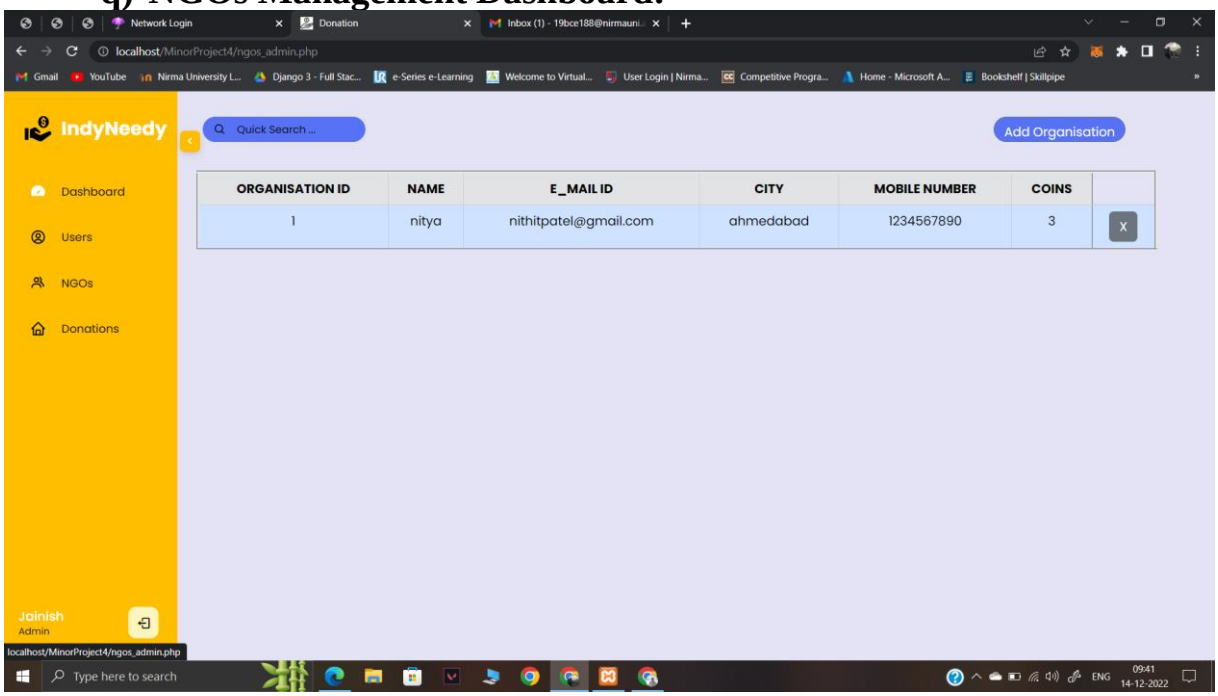




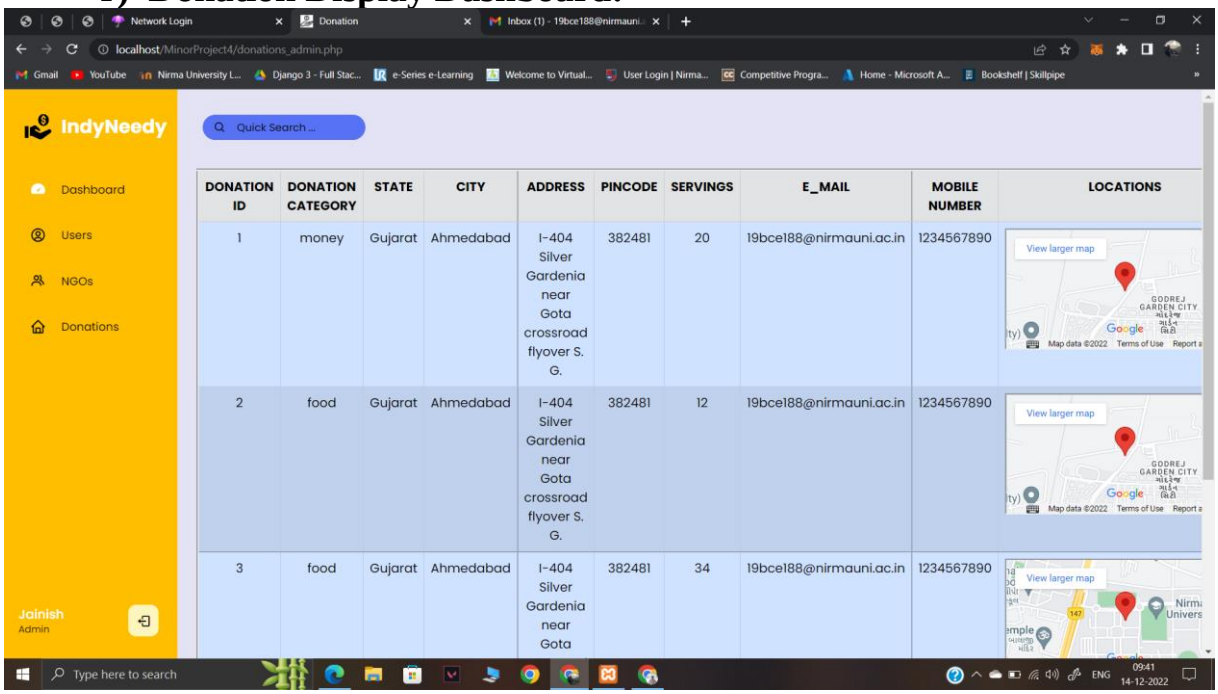
p) User Management dashboard:

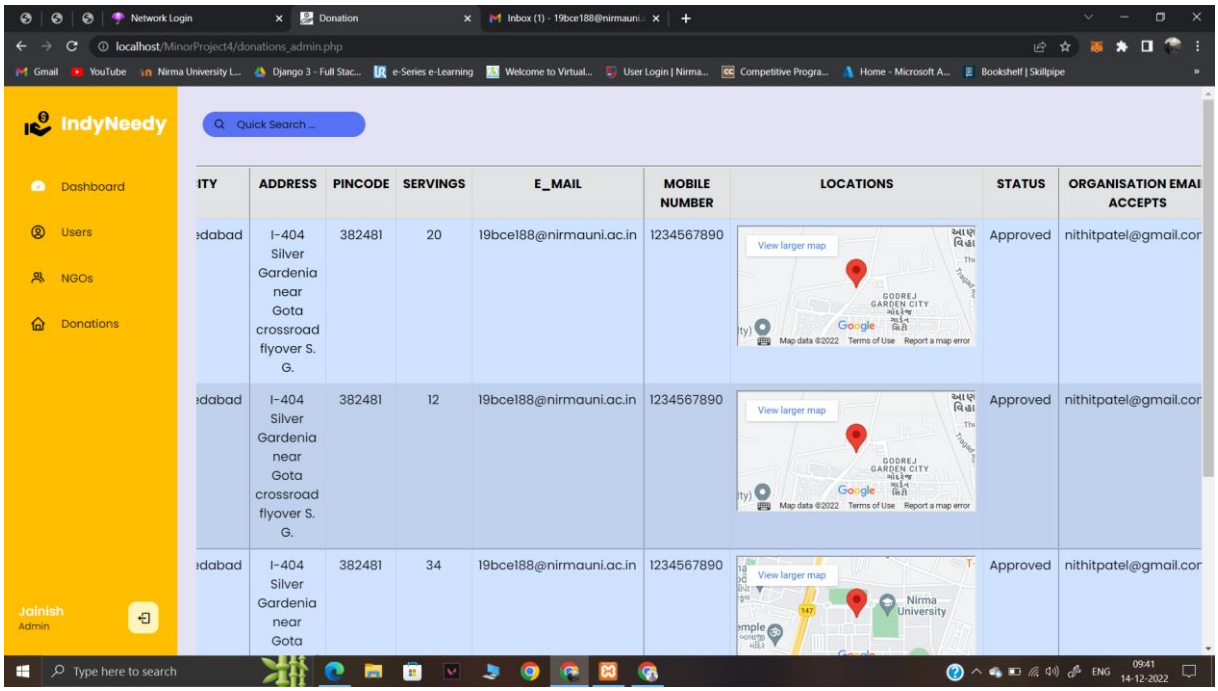


q) NGOs Management Dashboard:



r) Donation Display Dashboard:





Chapter F: Summary

Numerous NGOs and groups striving to assist those in need of books, food, and other necessities are always short on resources, and there is no platform accessible to link them with those who can supply them with resources. The donation management system needs to be enhanced and improved in order to provide for the needs of those in need so to assist in the provision of the required resources to NGOs and to disseminate information on donation efforts. Nobody has ever received a reward for donating anything in the past, but we're working to change that. The primary goal of a system is to bridge the gap between donors and those in need. It has been noted for a long time, particularly in developing countries like India where there has been a lot of waste of goods like food, clothing, etc., whether it is visible in party functions, restaurant chains, and many other places. On the other hand, it is fairly clear that there are several organizations trying to meet the beneficial requirements of society by organizing events like clothing and book drives and donating the things to those in need. This method bridges the gap between them by connecting the donor and the organizations in order to manage the resources and, as a consequence, it can reach the people in need. Despite the numerous efforts made by these organizations, it is always obvious that they need resources.

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donation management system by 19bce252 jainish shah 19bce188 nitya patel department of computer science engineering ahmedabad 382481 donation management system report submitted in partial fulfillment of the requirements for the degree of bachelor of technology in computer science engineering by 19bce252 jainish shah 19bce188 nitya patel guided by chandan trivedi department of computer science engineering department of computer science engineering ahmedabad 382481 certificate this is to certify that the minor project entitled donation management system submitted by shah jainish 19bce252 and nitya patel 19bce188 towards the partial fulfillment of the requirements for the degree of bachelor of technology in computer science and engineering of nirma university is the record of work carried out by himher under my supervision and guidance in my opinion the submitted work has reached a level required for being accepted for examination chandan trivedi assistant professor computer science and engineering dept institute of technology nirma university ahmedabad dr madhuri bhavsar professor and hod computer science and engineering dept institute of technology nirma university ahmedabad acknowledgement first of all i would like to express my profound gratitude to professor shivani desai faculty advisor of computer science and engineering for providing this opportunity i would like to express a special thanks to professor chandan trivedi mentor of the project for his time and effort he provided during the project your useful advice and suggestions were really helpful to me during the projects completion i would also like to acknowledge the efforts of my colleague who worked with me during the tenure of the project abstract outline the proposed system of donation management system comes with various features made for social support this system helps to connect people working for social cause and people in need there are mainly three parts of the system user ngo and admin the user can add a request in the system of any item with the exact location of operation and total number of persons that donation can serve the ngo can see the request made by the user and can collect the donation from the location provided here whenever the user will donate something he will earn coins which he can redeem in the redeem section the same goes for the ngo they will also earn coins whenever they will accept the request of the user the admin can control both the request by users and ngo contents certificate acknowledgement abstract chapter 1 scope of project 11 general introduction 12 brief description about the company industry internship 13 topic title 14 objectives 15 problem statement chapter 2 phases of the development lifecycle chapter 3 functionalities this chapter will contain the details of project work chapter 4 non-functionalities this chapter will contain the details of project work chapter f summary and conclusion chapter 1 scope of

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