

CHERISH: Don't Waste Donate

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Abstract: *Eliminating resource waste is a key objective in the modern world. To do this, local communities can reuse resources like food that may be close to expiring in restaurants, stores, and food distribution facilities as well as any perishables that aren't consumed entirely within their intended shelf life. This is very important, especially in times of crisis like the COVID-19 pandemic. This study focuses on developing a fascinating initial webapp called CHERISH that offers a universal platform where users may visualise available resource resources in their neighbourhood and afterwards acquire access to resources, so addressing two key challenges, namely hunger and resource waste. This platform meets the broad category of AI for and is relevant to the UN SDGs (United Nations Sustainable Development Goals).*

Keywords: Website Development ; Resource Waste Elimination; Healthcare; Hunger Alleviation; Smart Living; Resource reusability

I. INTRODUCTION

The spread of COVID-19, or the novel coronavirus infectious illness, has brought difficult times to the year 2020. The entire world's population is now suffering severe repercussions as a result of this pandemic. Another significant problem has been food shortage, which is exacerbated by the lack of personal safety equipment (PPE) including face masks and respirators as well as supplies of everyday necessities like antiseptic wipes, disinfectant sprays, and hand sanitizer.

For instance, because many students rely on the free lunches provided by schools every day, the sudden closure of public schools has had a negative effect on students. We are genuinely driven to address the issue of food and other resource shortage caused by COVID-19 given this background and the difficulties.

So by creating the web application CHERISH, which will benefit society by making the giving procedure easier.

The CHERISH app is intended to serve as a go-between for the consumer and the food supply (vendor). Anyone may donate money to various charities or organisations safely and easily using our web application, and they can also exchange heartfelt messages with the individuals they care about.

The use of CHERISH as a digital tool will facilitate donations. It serves as a visible link between the final Beneficiary and the charitable donation.



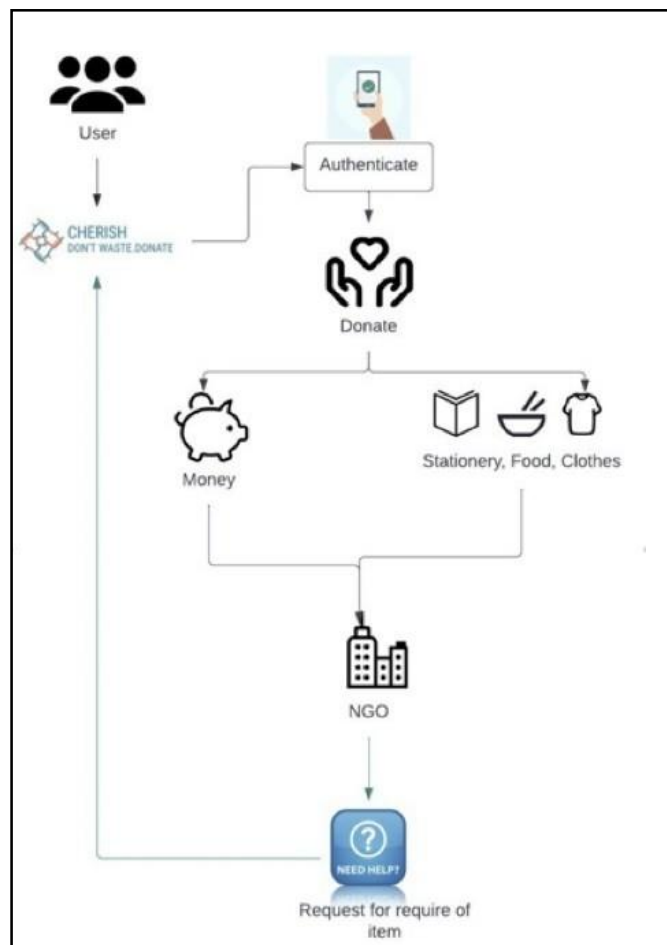
It urges people to recognise those who need help and to provide them with anything they can—food, water, clothing, books, used items, or anything else—for charitable purposes.

A French phrase that meaning "feel or show affection for someone" served as the inspiration for the app's name, CHERISH. Many South Asian civilizations place a high value on this practise. It is characterised as "the act of placing one's own needs above those of others. Although this has long been the case, it is especially relevant today given how many individuals the COVID-19 situation has impacted owing to food-related difficulties. We prioritise the needs of

others over our own by taking everyone's health and safety into account, as demonstrated by this notion. Therefore, we decide to call our app CHERISH.

Since new rules requiring the prompt closure of restaurants have been put into effect, food has been wasted. Since fewer people are attending the venues, there is plenty of food. There has been wastage of food since new regulations have been enforced on immediate shutdown of restaurants. Since customers have no longer been visiting the venues, plenty of food has probably been wasted. Some people have taken preemptive measures and turned it into an opportunity to serve essential workers.

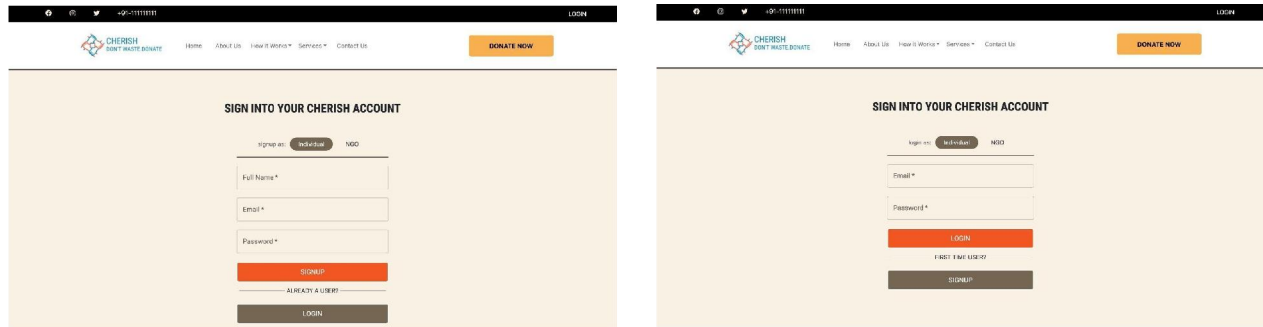
To help out their neighbourhood shops and eateries, many locals have purchased gift cards. Our app falls within this group of initiatives. Even while issues like food waste and hunger are prevalent during emergencies like COVID-19, they are important all the time. The Sustainable Development Goals (SDGs) of the United Nations (UN) have several objectives that include the following. SDG11: Sustainable Cities and Communities, SDG1: No Poverty, SDG2: Zero Hunger, SDG3: Good Health and Well-Being. These are the objectives of our CHERISH app.



II. IMPLEMENTATION

1 .User Authentication

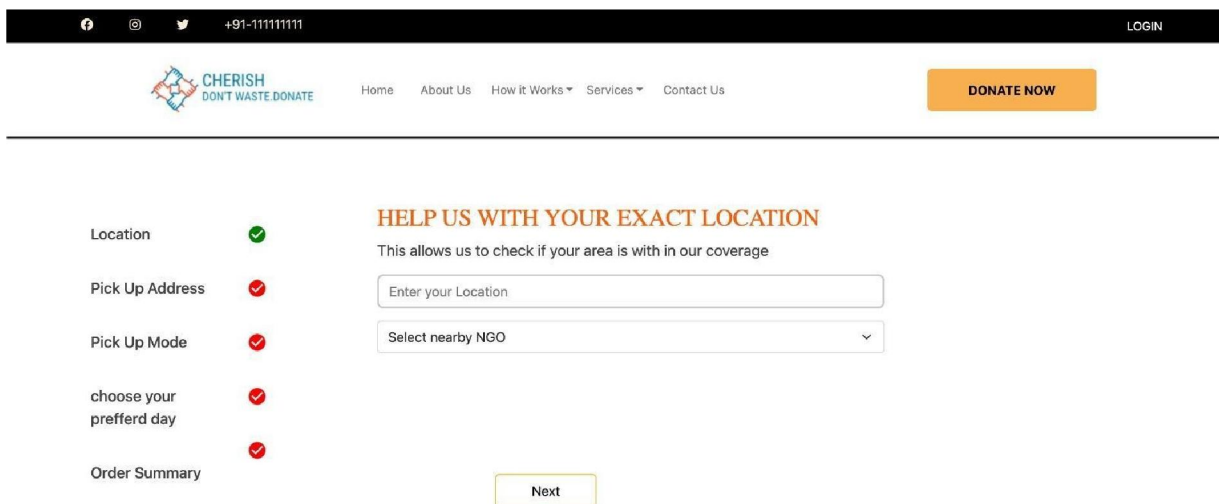
Any application where users must create and maintain accounts must include user authentication. To manage the user authentication process, you may utilise well-known authentication frameworks like Firebase, Auth0, OAuth.



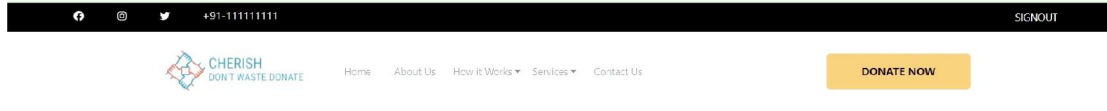
Donation Form: The contribution form should be simple to use and gather all required data. HTML, CSS, and JavaScript can be used to generate forms, or you can utilise well-liked front-end frameworks like React . User information such as name, address, and contact information should be collected in the form's fields. Fields for the products the user wishes to give as well as the time and day they want the items picked up should also be included. You may make it simple for consumers to input their location by using third-party APIs, such as Google Maps.

Donation Form contains details :

- Location of user (who wants to donate) .
- Pick Up Address of user
- Mode of pickup
- Preferred Day of picking up items
- Final Details as Order Summary



Payment Gateway Integration: To receive donations, a safe and dependable payment method is required. To include a payment system into your application, you may utilise well-known payment gateways like PayPal, Stripe, or Braintree. You may include the payment system into your website by using the APIs and libraries that these payment gateways offer.



Location Your scheduled pickup is on Fri Feb 25 2022 between 09:00AM - 12:00PM and Total amount is ₹700

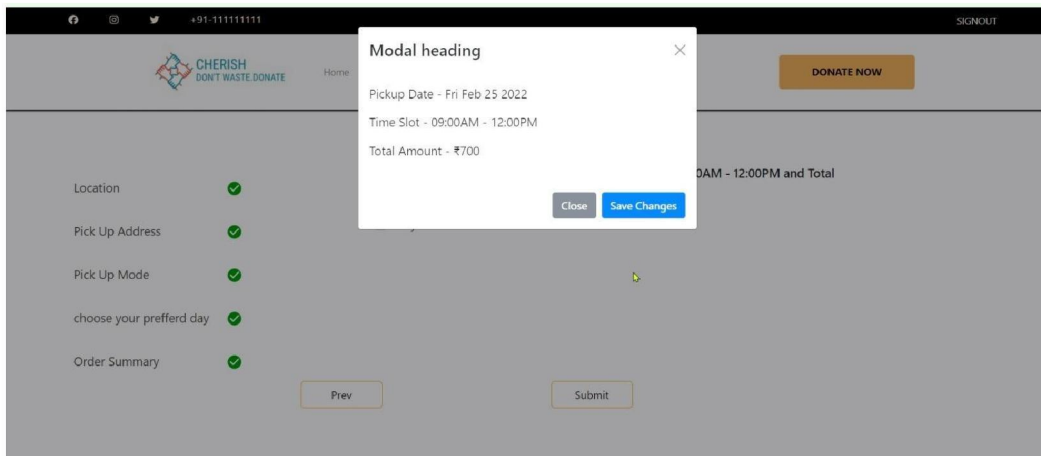
Pick Up Address Are you sure

Pick Up Mode

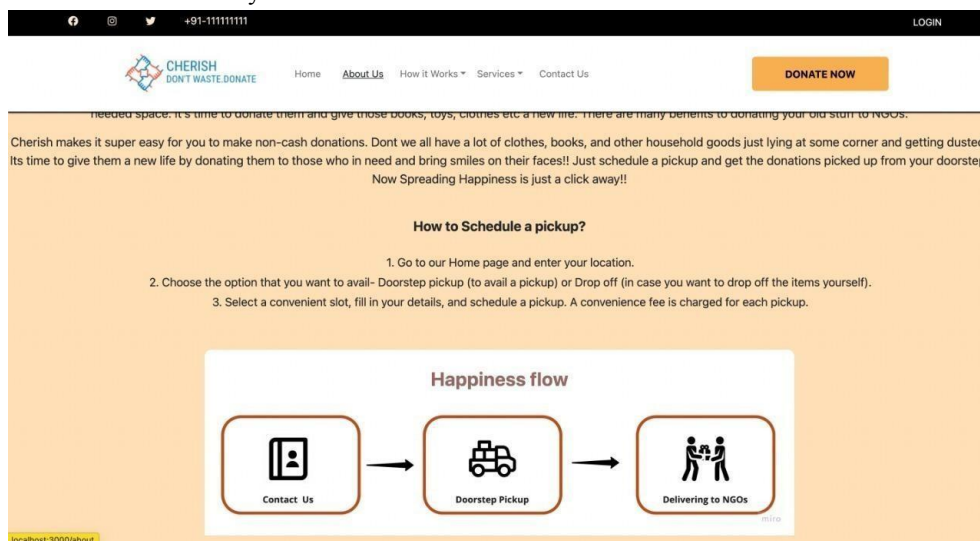
choose your preferred day

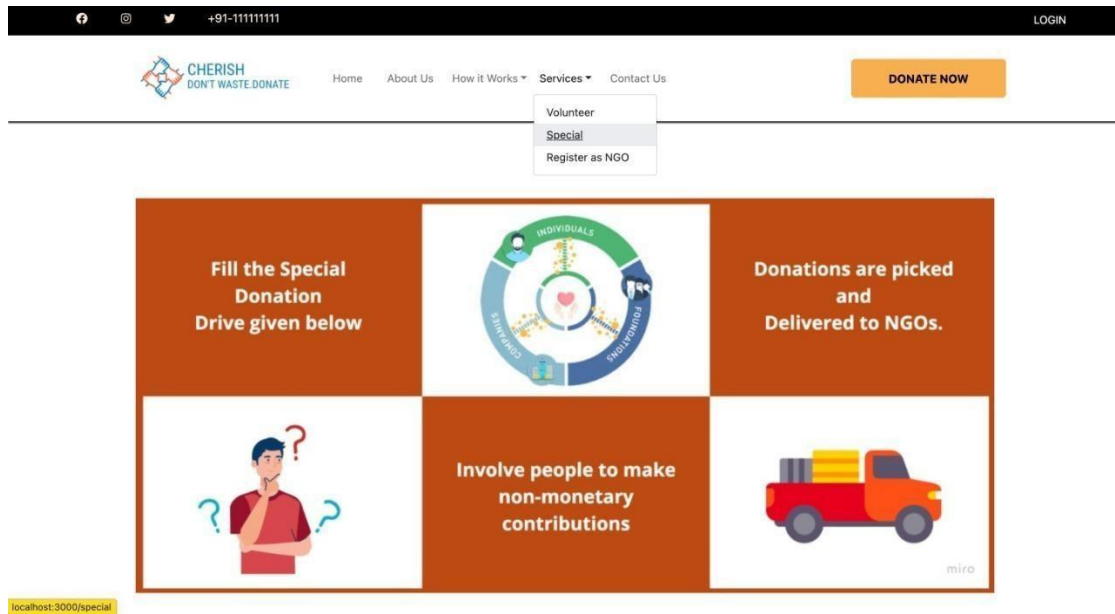
Order Summary

[Prev](#) [Submit](#)

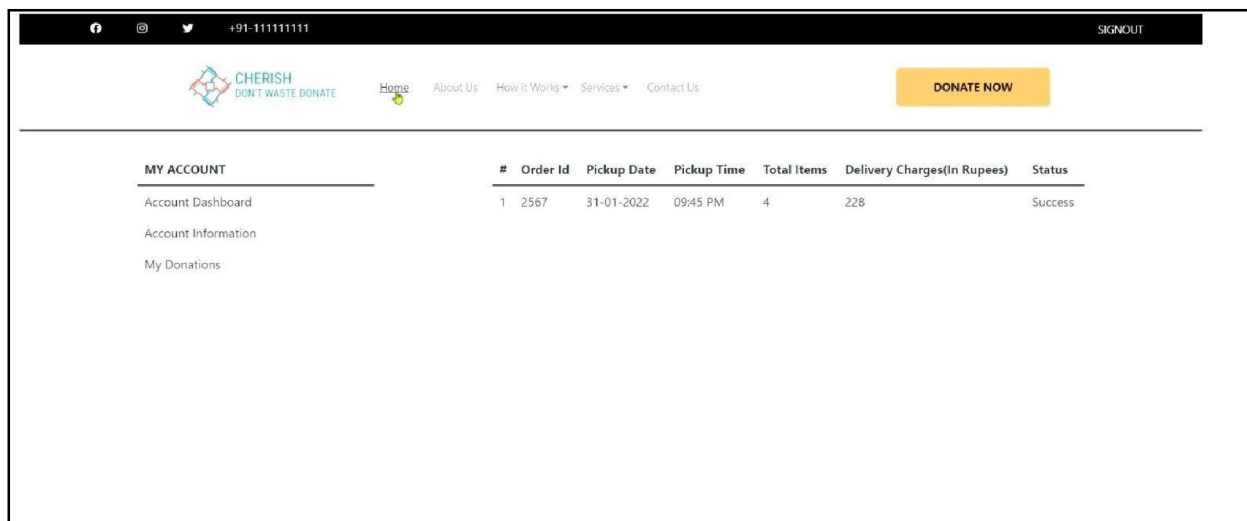


Schedule pickup: The day and time that users want their donated things picked up is up to them. Users may then be reminded of their planned pickups via SMS or email reminders. This makes sure that the pickup procedure is easy for the user to utilise and works smoothly.





Donation history: Transparency may be achieved and confidence can be increased by setting up a page where users can check their donation history. Using a package like Chart.js, you may utilise a database to store and show user donation history. Items contributed, the date and time of contribution, and the receiving organisation should all be listed in the donation history.



III. RELATED COMPARISONS

Applications already in existence work to reduce food waste , other reusable items (either of them) and promote smart living.

A programme like Feedie, for instance, uses a customer's photo to generate donations. The participating restaurant donates money to the "Lunchbox Fund" as soon as the user posts a photo of a dish from the establishment. South Africa and the United States both have access to this application. A year's worth of free meals are provided to 5000 South African youngsters for every set of 500 eateries who sign up for the programme. As a result, this motivates social media users to express their appetite while supporting a good cause.

A software called Flashfood, available in the US and Canada, seeks to address the issue of food waste that is estimated to be worth \$5000.

SeVa is a smartphone application that offers a universal platform for users to visualize local food resources and subsequently acquire access to food, addressing the twin problems of hunger and food waste.

Happiesouls, used to donate used things that are still in excellent shape such as clothing, toys, cutlery, furniture, bicycles, appliances, sports equipment, etc. from the comfort of your home, and we will transport them straight to our local NGO partners who are in need.

USE CASES

Employment opportunities for delivery agents.

For User :

Users can donate unnecessary or excess items for good cause .

Donation done with Cherish will be time and effort saving with nominal delivery charges.

Easy donation process and knowing about different NGOs

For NGOs:

We fulfill your needs by collecting donations from different donors and deliver them to you

We spread awareness about the different causes you support

We let people know about your great work and your requirements

Exposure to smaller NGOs to achieve bigger goals

IV. TECHNOLOGY USED

HTML:

The preferred markup language for documents intended to be viewed in a web browser is HTML, or HyperText Markup Language. Technologies like Cascading Style Sheets (CSS) and scripting languages like JavaScript can help.

CSS :

A style sheet language called Cascading Style Sheets (CSS) is used to describe how a document produced in a markup language like HTML is presented. The World Wide Web's foundational technologies, along with HTML and JavaScript, include CSS.

ReactJS :

One of the most widely used JavaScript front-end libraries, ReactJS has a solid community and a vast foundation. For creating reusable UI components, ReactJS is a declarative, effective, and adaptable JavaScript toolkit. It is a front end component library that is open-source and only in charge of the application's view layer. Initially created and maintained by Facebook, it was eventually incorporated into services like WhatsApp and Instagram.

NodeJS :

JavaScript code can be run outside of a browser using the open-source, cross-platform runtime environment known as Node.js. You must keep in mind that NodeJS is not a programming language or a framework. The majority of folks are perplexed and realise it's a programming language or framework. For creating back-end services like APIs for web apps or mobile apps, we frequently employ Node.js. Large corporations like Paypal, Uber, Netflix, Walmart, and others use it during production.

MongoDB :

For storing large amounts of data, MongoDB is a document-oriented NoSQL database. MongoDB uses collections and documents rather than the tables and rows seen in conventional relational databases. The fundamental unit of data in MongoDB is a pair of key-value pairs, which make up documents.

Collections are the equivalent of relational database tables in that they store collections of documents and perform certain functions. A database called MongoDB first became popular in the middle of the 2000s.

Firestore :

Google's Firestore is a tool that makes it simple for developers to create, maintain, and expand their apps. It makes it easier for developers to create apps more quickly and securely. Because there is no programming required on the firestore side, it is simple to use the features more effectively. It offers services to web, unity, android, and ios. It offers online storage. The database used for data storage is a NoSQL one.

V. CONCLUSION & FUTURE TASK

In order to streamline the contribution process, this article focuses on the design, construction, and assessment of a straightforward prototype webapp called CHERISH.

The following are the highlights of our work.

- Recommending the Resource Donation App for CHERISH in line with other practical apps like FlashResource, Feedie, and Resource for All.
- Targeting the UN SDGs linked to poverty, hunger, health, etc. by addressing the challenges of resource waste as well as hunger.
- Impacting AI on Smart Living for Smart Cities by ubiquitous access to resource knowledge on mobile devices, which is crucial for sustainability and well health.

Future work includes the eventual launch of the CHERISH app in the market following a few improvements dependent on how the prototype is received

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BIOGRAPHY

Hello Readers,

This is Divyanshi Oberoi and Karan Grover . An undergraduate student of Computer Science and Engineering Background having deep interest in Web & Mobile App Development and Designing.