



# DEXTERIX 4.0

## Open Innovation theme - DeleteHunger



Based on the UN's Sustainability goal - 'Zero Hunger'

[Github](#)

**TEAM SAMADHAAN**

[Website](#)

# Team Member Details



**Aditya Mathur**  
**22SCSEI011135**  
**Backend + Frontend (Full-stack)**

**Anupam Yadav**  
**22SCSEI410040**  
**Chatbot**



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**22SCSEI011175**  
**Research & Financials**



**Abhinav Gupta**  
**22SCSEI011214**  
**Frontend – about & home page**



**Aman Kumar Sharma**  
**22SCSEI011087**  
**Community Framework**

# Basic details of problem statement



**Problem Statement Title:** DeleteHunger aims to address the dual challenges of food wastage and hunger in India by leveraging technology to efficiently collect surplus food from weddings and other events, while also providing opportunities for volunteers to contribute to the cause.

**Team Name:** Samadhaan

**Team Leader Name:** Harshit Gupta

**Institute Name:** Galgotias University

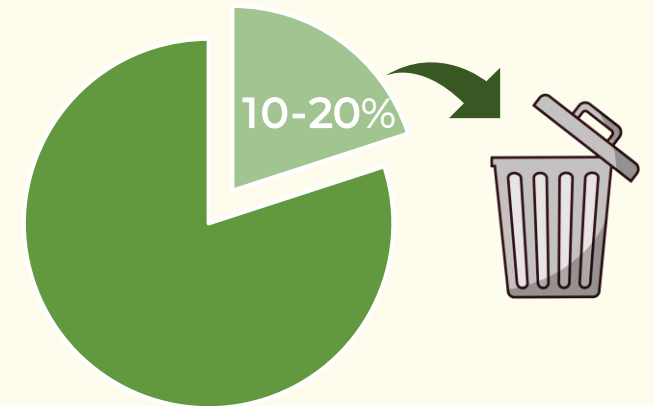
**Theme Chosen:** Open Innovation – Zero Hunger – UN Sustainability Goals

# What is the problem exactly?



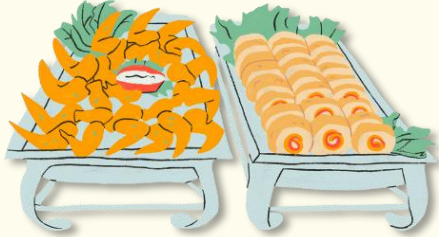
According to the 2023 Global Hunger Index (GHI), **India ranks 111th out of 125 countries**, with a score of 28.7, which *indicates a serious level of hunger*.

According to the NGO Feeding India, **10 to 20 per cent** of the food served at *weddings goes to waste*.



As per industry experts, an average three-day Indian wedding produces about **700 to 800 kilos** of *wet waste* and **1,500 kilos** of *dry waste*.

# Our Solution: *DeleteHunger*



DeleteHunger **organizes the collection of surplus food** from *weddings, caterers, and hostel food-messes* using advanced technology.

Leveraging our technology, we efficiently deliver the collected food to areas with **low hunger indices and limited NGO presence.**



**DeleteHunger raises awareness** about food wastage and mobilizing support for food donation efforts *among local communities, NGOs, and government agencies.*

# How the caterer will benefit?



Catering businesses receive **monetary compensation for surplus food donations**, providing a tangible incentive to participate in the program.

Participation in DeleteHunger's food donation program offers catering businesses **valuable exposure and marketing benefits**, enhancing their brand reputation and customer loyalty.



**EASY!**

They are **effortlessly disposing of surplus food**, relieving themselves of *unnecessary* burden.

# Revenue Model



DeleteHunger **pays catering businesses for surplus food donations**  
For example, ₹50 to ₹100 per kg, based on quantity and quality.

DeleteHunger **charges a small fee to the hungry individuals** for food to promote sustainability and self-sufficiency, discouraging dependency and *empowering self-respect*. For example, ₹5 to ₹20 per meal, based on location and poverty.



DeleteHunger offers a **caterer management system** via subscription, equipping catering businesses with tools to manage operations and engage in food donation. Subscriptions range from ₹600 to ₹1000 monthly, based on business size.

DeleteHunger **partners with CSR, government, and philanthropic organizations** for funding and support for its initiatives. For instance, a corporate sponsor might donate ₹10L annually to support its operations. 70-80% would be incorporated for growth and rest would be invested in safe funds, for future needs.





# Unit economics

PARTICULARS	AMOUNT
Cost to the caterer	₹7500
Logistics	₹100
Technology	₹10
Salaries	₹500
Packaging	₹2000
COGS	₹10110
Marketing	₹100
Net cost	₹10210
Revenue from subscription	₹1000
Revenue from food distribution	₹10000
Total Revenue	₹11000
Gross Profit (Total revenue - COGS)	₹890
Net Profit (Total revenue- Total expense)	₹790

Calculation on 100kg of food,  
distribution in the radius of 10km.

Cost to the caterer:

$$100 \text{ kg} * ₹75 = ₹7500$$

Packaging:

$$1000 \text{ people} * ₹2 = ₹2000$$

Salary:

$$15000 / 30 = ₹250$$

Revenue from distribution:

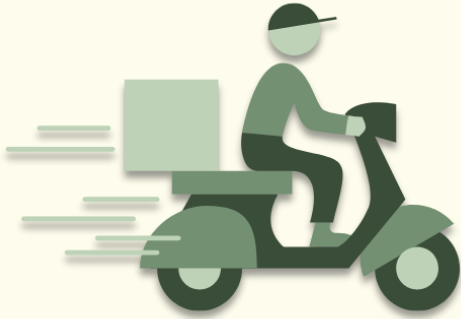
$$500 \text{ people} * ₹20 = ₹10000$$

Revenue from subscription:

$$(30 * ₹1000) / 30 = ₹1000$$



# What could also be implemented?



DeleteHunger plans to integrate a comprehensive **delivery and pickup management system**, enabling delivery personnel to efficiently *locate and navigate pickup and delivery locations*, leveraging the Google Maps API for seamless integration and enhanced functionality.

DeleteHunger could engage **volunteers** by providing them with opportunities to contribute, offering recognition through certificates, and *implementing a user-friendly volunteer management system*.



DeleteHunger plans to utilize **data analytics to track food wastage trends** at weddings, *including cultural, seasonal, and regional trends*, while also collecting data on regional disparities across the country. *This data can be monetized through sale to government agencies or companies, serving as an additional revenue stream.*

# USP

DeleteHunger operates in regions with **low hunger indices**, maximizing impact in communities most in need. We fill gaps in **limited NGO presence**, *effectively tackling food wastage* and hunger where support is limited.



DeleteHunger strategically targets **Northern India**, where hunger relief efforts are scarce compared to the focus on South India by competitors. This allows us to make *a substantial difference in underserved areas*.

**DeleteHunger's community** platform celebrates volunteer contributions and showcases caterers' donations, fostering pride and camaraderie. We raise awareness about food wastage and hunger, inspiring action through informative content. We encourage collaboration among volunteers, caterers, and community members, driving positive change together.



# Events for awareness

## **Rescuing Surplus, Nourishing Communities -**

Organize regular **food rescue drives** in collaboration with local businesses, supermarkets, and restaurants to *collect excess food and distribute it to those in need.*



## **Rescuing Good Food, Spreading Goodwill-**

Organize **food recovery events** *at local festivals, markets, and gatherings*, where volunteers collect surplus food from vendors and distribute it to local charities and food banks, raising awareness about food waste and hunger in the community.

# Approach details



## Tech stack -

### **Frontend:**

HTML

CSS

Bootstrap

JavaScript

### **Backend:**

PHP

Python

### **Database:**

SQL

**Github**

<https://github.com/Team-Samadhaan/Deletehunger>

**Website**

<https://deletehunger.online/>

## **Dependencies –**

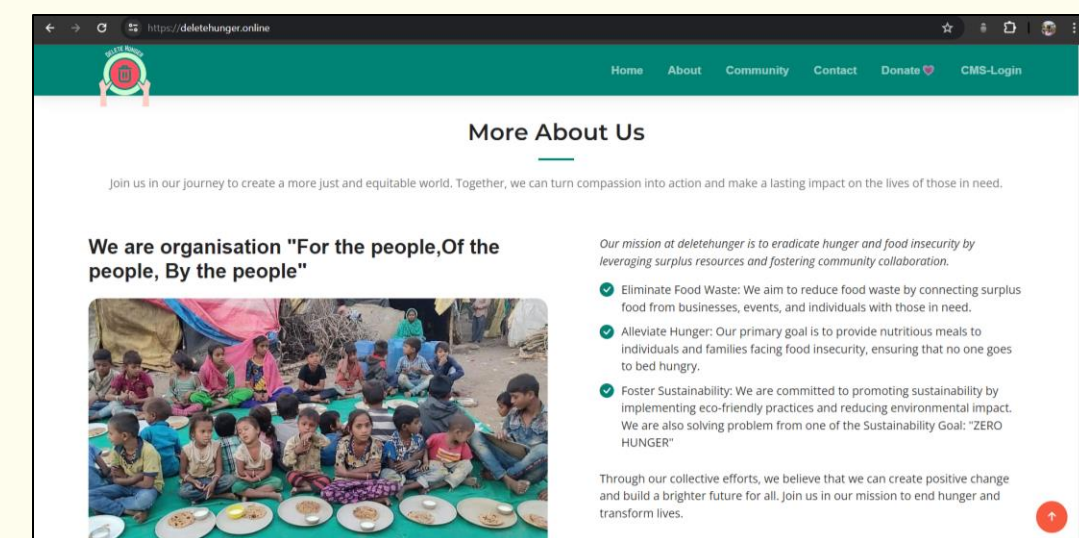
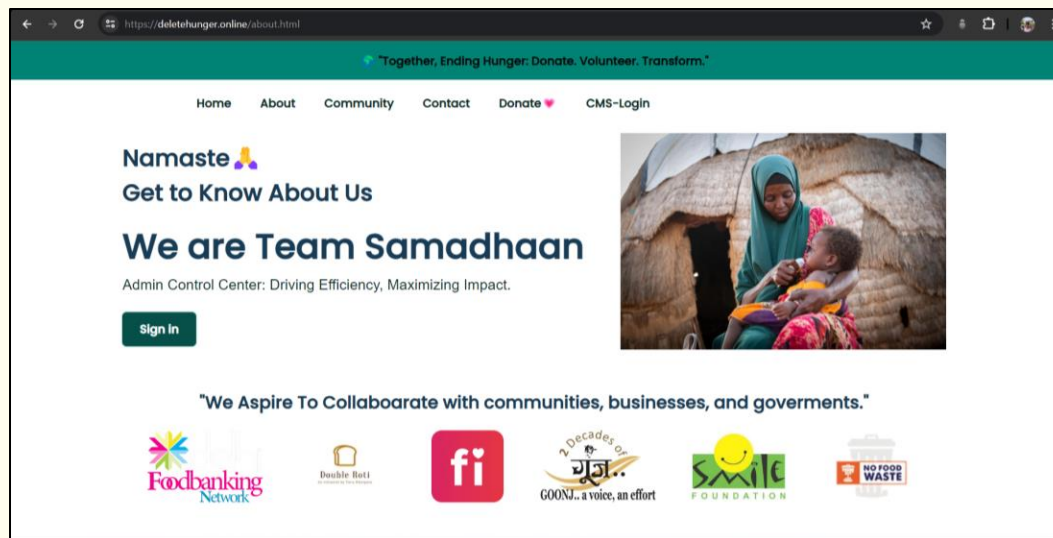
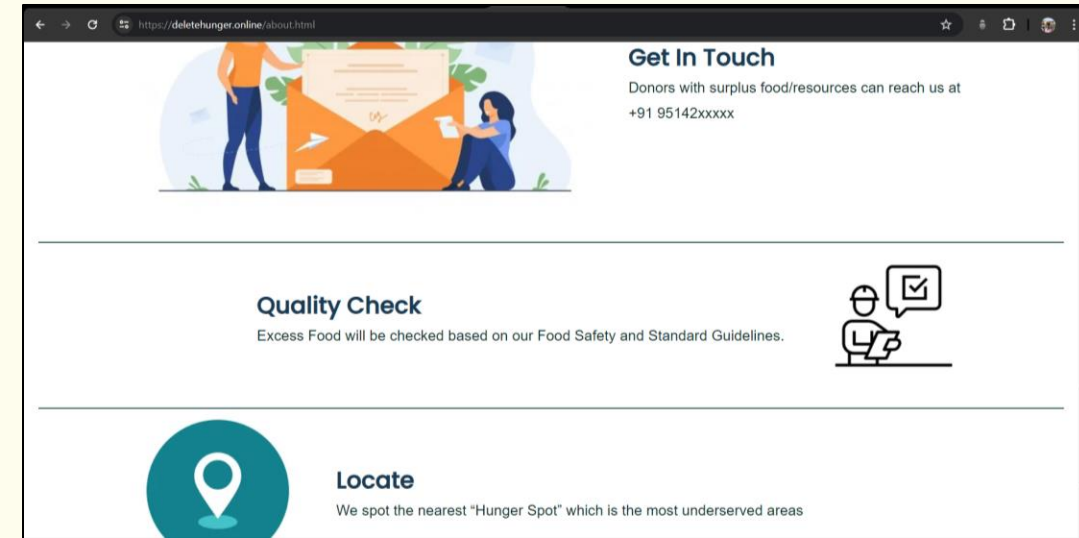
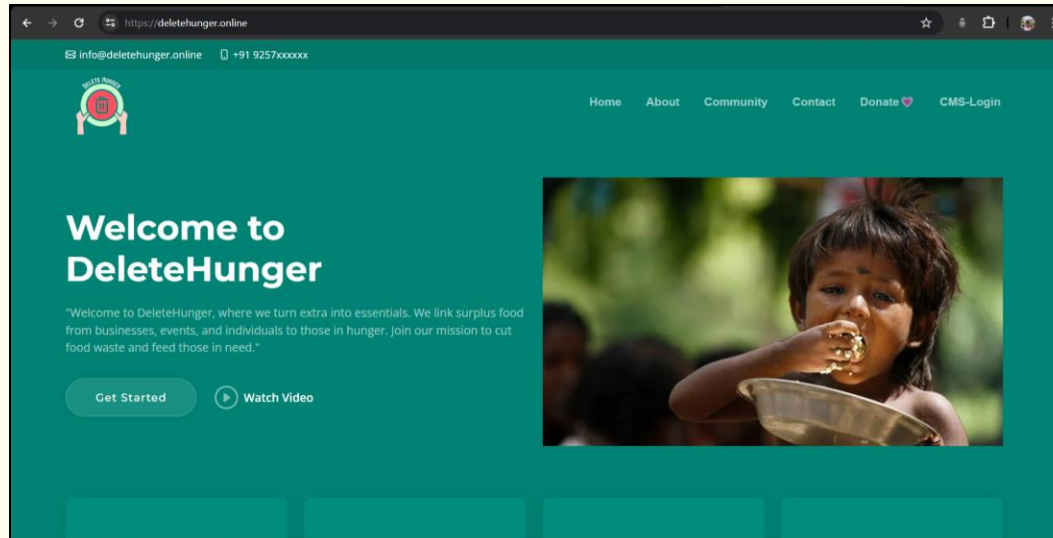
MySQL – PHP admin

Hostinger Server - For website hosting, domain, email

Python libraries for chatbot – numpy, pandas, nlp, naïve bayes

# Main website

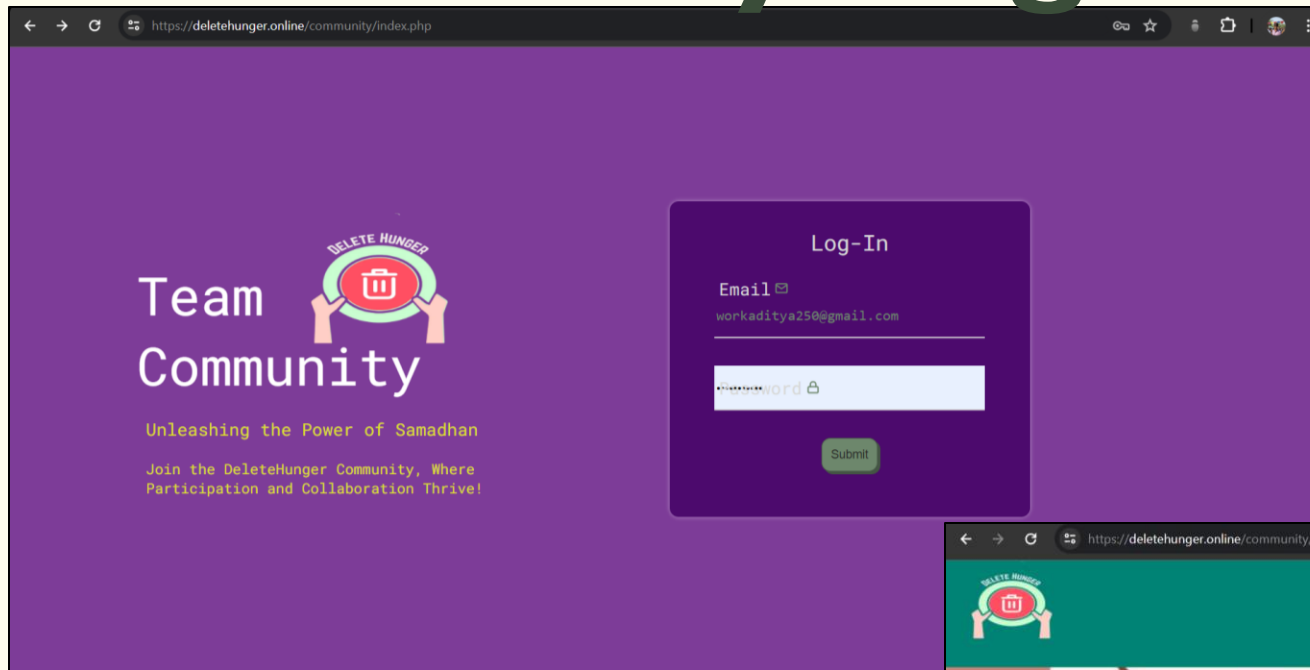
<https://deletehunger.online>





# Community Page

<https://deletehunger.online/community/index.php>



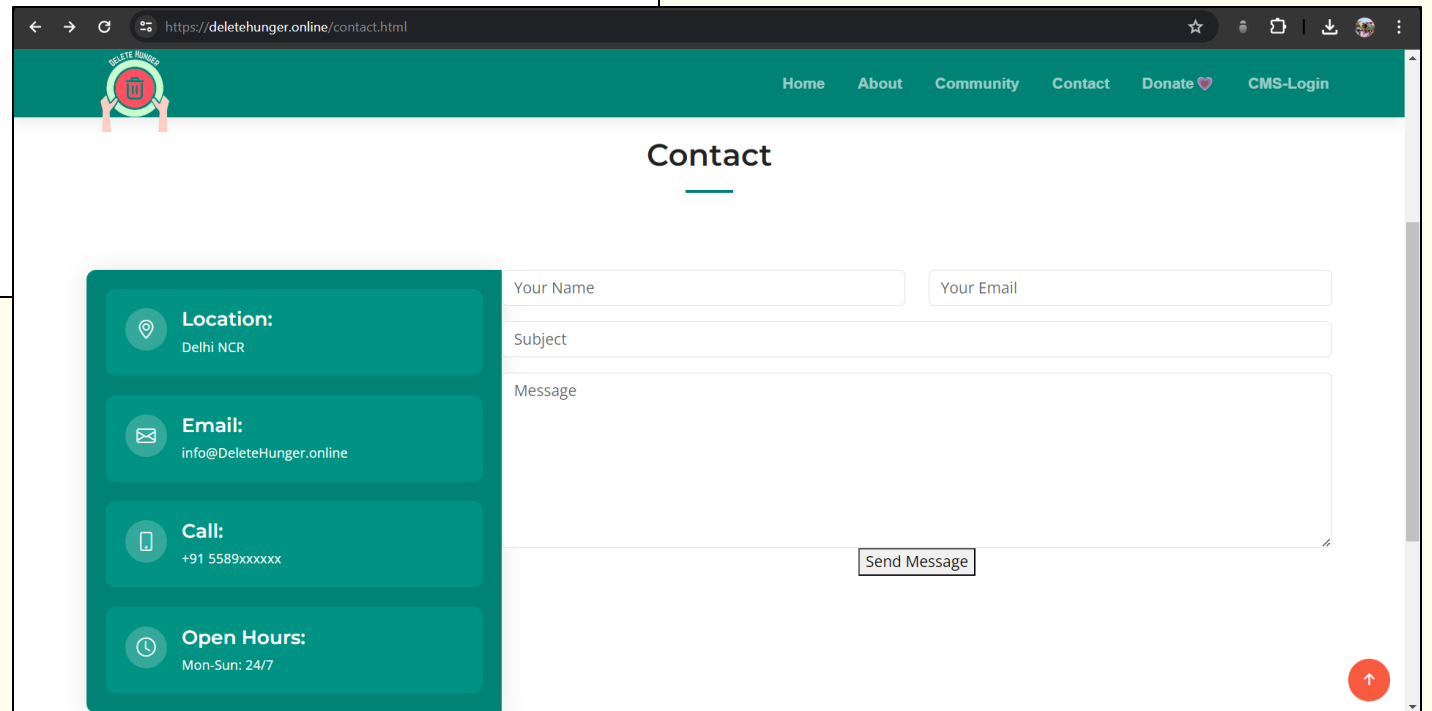
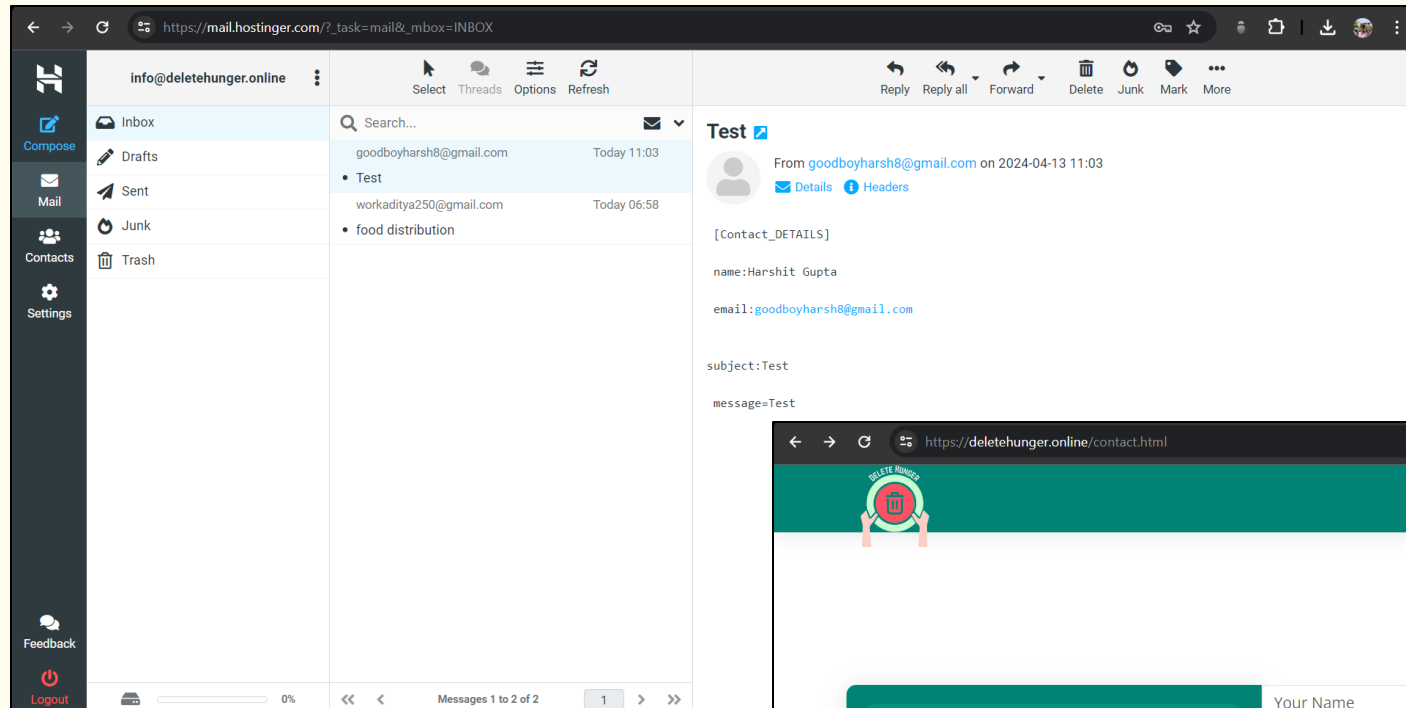
The screenshot shows the main page of the DeleteHunger community. It has a purple background. On the left, there is a logo with a trash can and the text 'DELETE HUNGER' above it, followed by 'Team Community' and the tagline 'Unleashing the Power of Samadhan'. Below this is a call to action: 'Join the DeleteHunger Community, Where Participation and Collaboration Thrive!'. On the right, there is a 'Log-In' form with fields for 'Email' (containing 'workaditya250@gmail.com') and 'Password', and a 'Submit' button.

Email: [workaditya250@gmail.com](mailto:workaditya250@gmail.com)  
Pass: aditya@1234



# Contact Page

<https://deletehunger.online/contact.html>





# Donate Page

Browser address bar: <https://deletehunger.online/donate.html>

Navigation: Home About Community Contact Donate CMS-Login

## Donate

**Location:**  
Delhi NCR

**Email:**  
info@DeleteHunger.online

**Call:**  
+91 5589xxxxxx

**Open Hours:**  
Mon-Sun: 24/7

<https://deletehunger.online/donate.html>

info@deletehunger.online

Select Threads Options Refresh

2000

From workaditya250@gmail.com on 2024-04-13 17:47

[Contact\_DETAILS]

name:aditya m

email:workaditya250@gmail.com

subject:2000

1234567890

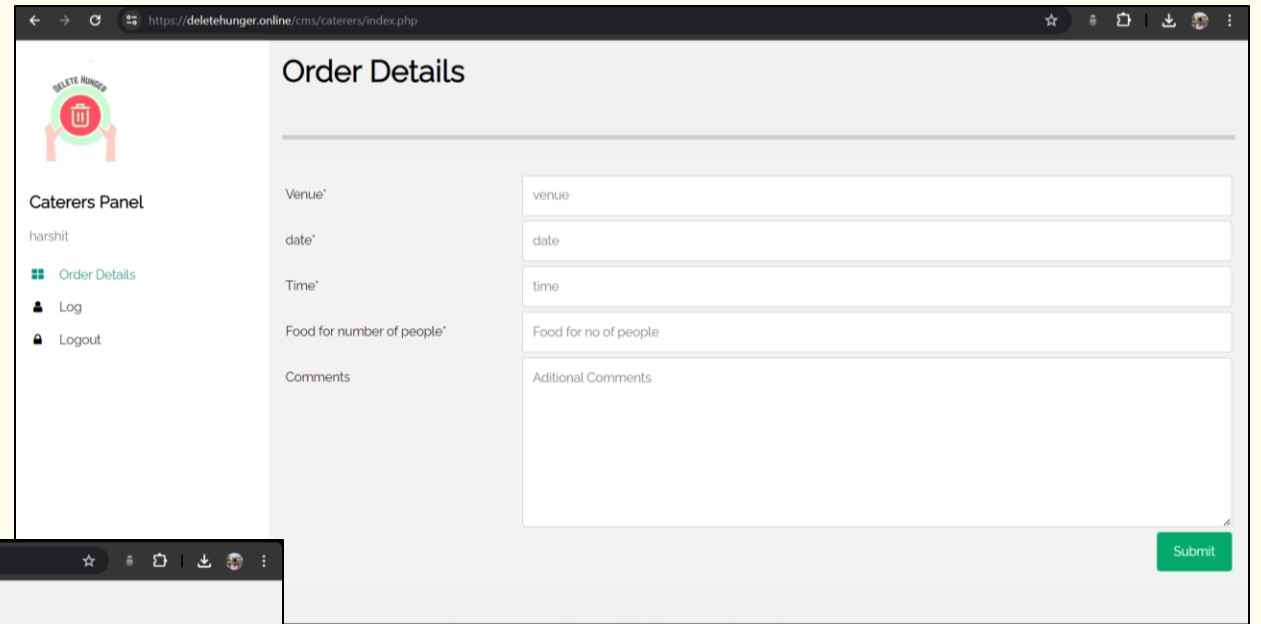
message=birthday

workaditya250@gmail.com Today 17:47

- 2000
- GitHub Today 12:56
- [GitHub] Welcome to GitHub, @Team-Samadhaan!
- GitHub Today 12:55
- Your GitHub launch code
- goodboyharsh8@gmail.com Today 11:03
- Test
- workaditya250@gmail.com Today 06:58
- food distribution

# Caterer panel

<https://deletehunger.online/cms/catererpanel/index.php>



The screenshot shows the 'Order Details' form in the Caterer Panel. The form is titled 'Order Details' and is located at the URL <https://deletehunger.online/cms/caterers/index.php>. The form contains several input fields: 'Venue\*', 'date\*', 'Time\*', 'Food for number of people\*', and 'Comments'. Each field has a corresponding input box. The 'Venue\*' field has a placeholder text 'venue'. The 'date\*' field has a placeholder text 'date'. The 'Time\*' field has a placeholder text 'time'. The 'Food for number of people\*' field has a placeholder text 'Food for no of people'. The 'Comments' field has a placeholder text 'Additional Comments'. There is a green 'Submit' button at the bottom right of the form.

Order Details

Venue\*

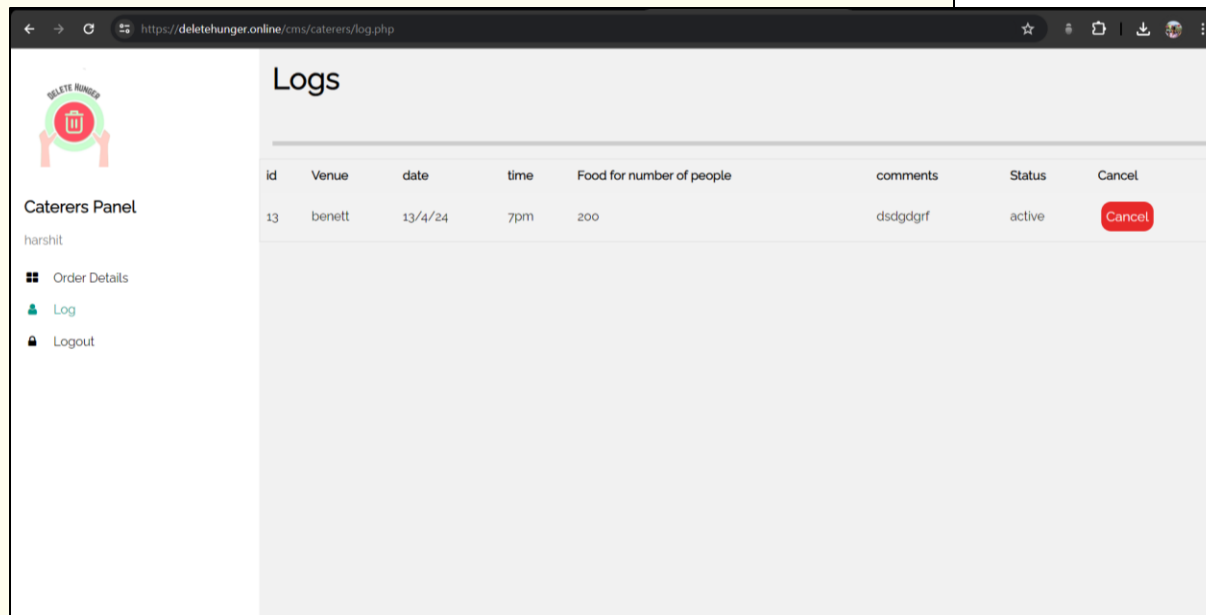
date\*

Time\*

Food for number of people\*

Comments

Submit



The screenshot shows the 'Logs' table in the Caterer Panel. The table is titled 'Logs' and is located at the URL <https://deletehunger.online/cms/caterers/log.php>. The table has 8 columns: 'id', 'Venue', 'date', 'time', 'Food for number of people', 'comments', 'Status', and 'Cancel'. There is one row of data with the following values: '13', 'benett', '13/4/24', '7pm', '200', 'dsdgdgrf', 'active', and a red 'Cancel' button.

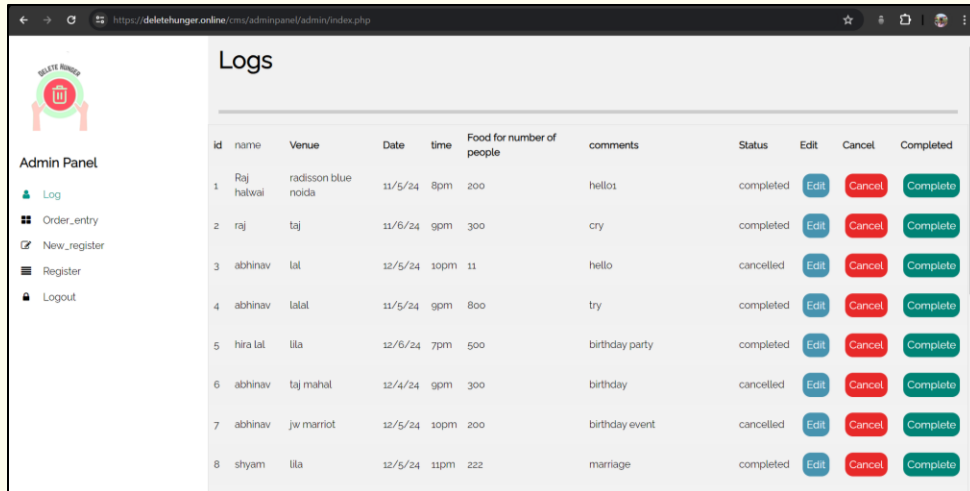
id	Venue	date	time	Food for number of people	comments	Status	Cancel
13	benett	13/4/24	7pm	200	dsdgdgrf	active	Cancel

Username: riya  
Pass: riya@2024

# Admin panel

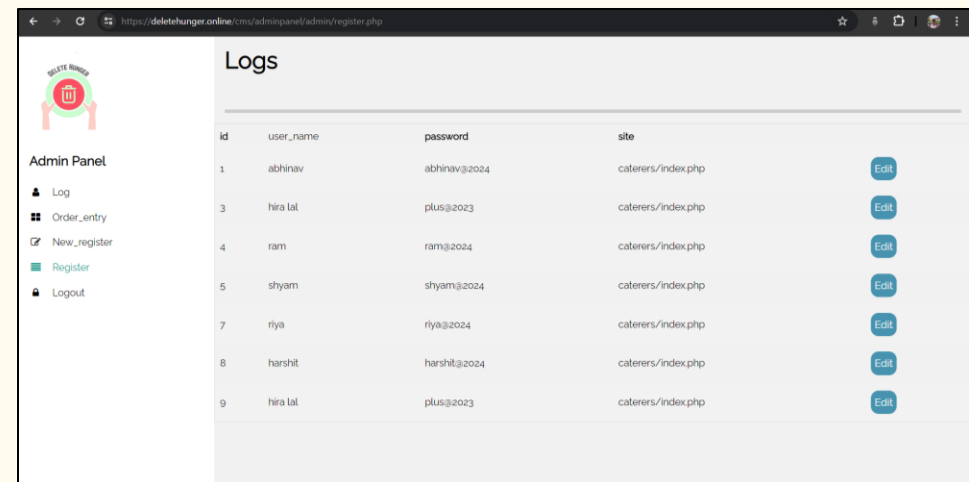
<https://deletehunger.online/cms/adminpanel/index.php>

Username: admin  
Pass: admin@2024



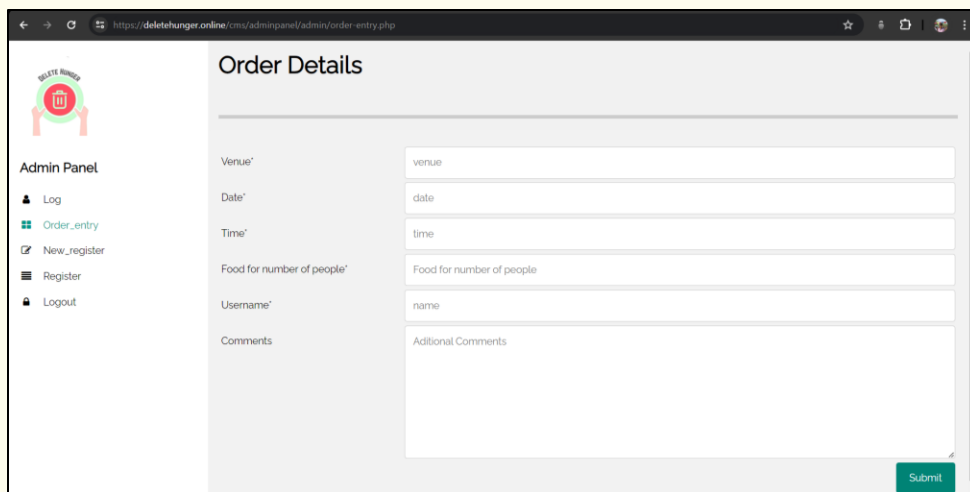
The screenshot shows the 'Logs' page in the admin panel. It features a sidebar with navigation links: Log, Order\_entry, New\_register, Register, and Logout. The main content area displays a table of logs with columns: id, name, Venue, Date, time, Food for number of people, comments, Status, Edit, Cancel, and Completed. The table contains 8 entries.

id	name	Venue	Date	time	Food for number of people	comments	Status	Edit	Cancel	Completed
1	Raj hatwai	radisson blue noida	11/5/24	8pm	200	hello!	completed	Edit	Cancel	Complete
2	raj	taj	11/6/24	9pm	300	cry	completed	Edit	Cancel	Complete
3	abhinav	lal	12/5/24	10pm	11	hello	cancelled	Edit	Cancel	Complete
4	abhinav	lalal	11/5/24	9pm	800	try	completed	Edit	Cancel	Complete
5	hira lal	lila	12/6/24	7pm	500	birthday party	completed	Edit	Cancel	Complete
6	abhinav	taj mahal	12/4/24	9pm	300	birthday	cancelled	Edit	Cancel	Complete
7	abhinav	jw marriot	12/5/24	10pm	200	birthday event	cancelled	Edit	Cancel	Complete
8	shyam	lila	12/5/24	11pm	222	marriage	completed	Edit	Cancel	Complete



The screenshot shows the 'Logs' page in the admin panel. It features a sidebar with navigation links: Log, Order\_entry, New\_register, Register, and Logout. The main content area displays a table of logs with columns: id, user\_name, password, and site. The table contains 9 entries.

id	user_name	password	site	Edit
1	abhinav	abhinav@2024	caterers/index.php	Edit
3	hira lal	plus@2023	caterers/index.php	Edit
4	ram	ram@2024	caterers/index.php	Edit
5	shyam	shyam@2024	caterers/index.php	Edit
7	riya	riya@2024	caterers/index.php	Edit
8	harshit	harshit@2024	caterers/index.php	Edit
9	hira lal	plus@2023	caterers/index.php	Edit



The screenshot shows the 'Order Details' page in the admin panel. It features a sidebar with navigation links: Log, Order\_entry, New\_register, Register, and Logout. The main content area displays a form with fields for Venue, Date, Time, Food for number of people, Username, and Comments. A 'Submit' button is at the bottom right.

Venue\*

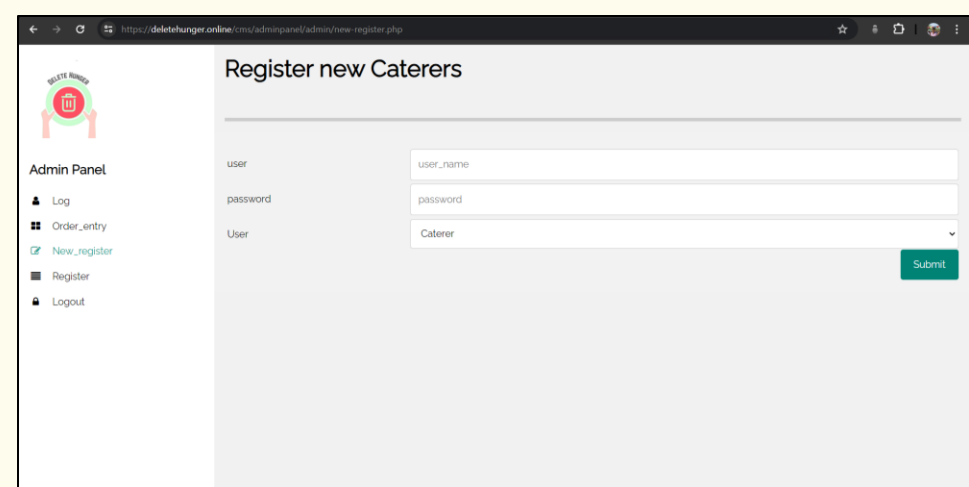
Date\*

Time\*

Food for number of people\*

Username\*

Comments



The screenshot shows the 'Register new Caterers' page in the admin panel. It features a sidebar with navigation links: Log, Order\_entry, New\_register, Register, and Logout. The main content area displays a form with fields for user\_name, password, and a dropdown menu for 'Caterer'. A 'Submit' button is at the bottom right.

user

password

User

## Appendix

Under Section 135 of the Companies Act, 2013, CSR is mandatory for eligible companies. They must allocate at least 2% of their net profit over the preceding three years towards CSR initiatives in India.

10 kg of food can serve around 50 people, depending on the type of food and the serving size.

Global Hunger Index (GHI) 2023, India ranks 111th out of 125 countries

10 to 20 per cent of the food served at weddings goes to waste

700 to 800 kilos of wet waste and 1,500 kilos of dry waste.

