MEALS FOR ALL

Bridging The Gap Between Food Waste and Hunger

Submitted in the partial fulfillment of Introduction to Innovative Projects to Dr. Atul Thakre

By

Syed Akbar Abbas 22MID0286

Declaration

I hereby declare that this project report titled "Meals for All" is my original work, and we have given due citations wherever references have been used. This project has not been submitted to any other institution for any purpose.

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1.1 **Introduction:**

In today's world, where technological advancements and industrial growth have revolutionised the way we live, the persistence of hunger and food insecurity remains a paradox. Millions of people across the globe suffer from hunger, malnutrition, and lack of access to sufficient, nutritious food. At the same time, tons of perfectly edible food are wasted every day by households, restaurants, supermarkets, and events. This stark contrast between abundance and scarcity highlights a major flaw in food distribution systems.

Meals for All aims to tackle this problem by creating an inclusive, technologypowered platform that connects food donors—restaurants, caterers, individuals, and events—with those in need, such as NGOs, orphanages, old age homes, and the homeless population. By enabling real-time sharing, tracking, and delivery of surplus food, our goal is to reduce food waste and hunger simultaneously.

1.2 **Problem Definition:**

The core issue lies not in the availability of food but in the inefficient distribution of it. Despite having surplus food across different sectors, there is a lack of an organized, fast, and scalable system that can ensure this food reaches those who need it the most. The key challenges include the Lack of real-time coordination between food donors and recipients, the Insufficient awareness or motivation among potential food donor, Limited logistical support for safe, timely collection and distribution and the Concerns about food safety, freshness, and liability and most importantly the Absence of a unified digital platform for efficient food sharing which we provide

1.3 Probable Solutions:

To address these issues, *Meals for All* proposes a comprehensive solution that includes the following components:

1. Mobile and Web Application

A user-friendly app where food donors can post surplus food availability, quantity, and pickup location. NGOs and volunteers can use these listings in real-time and respond accordingly.

2. Real-Time Inventory and Tracking

Food items are geo-tagged and tracked from donor to recipient, ensuring transparency and accountability throughout the process.

3. Volunteer and Logistics Integration

Integration with local delivery services and a network of volunteers ensures last-mile delivery, especially in underserved and remote areas.

4. Food Safety Guidelines and Training

Provide safety protocols, basic training modules, and certification to food handlers and volunteers to ensure hygiene and quality.

2. Methodology:

Our methodology involves a community-centric and technology-driven approach, focusing on the following steps:

1. Data Collection and Network Building:

Onboard restaurants, caterers, hotels, NGOs, volunteers, and transport partners through awareness drives and community outreach.

2. Platform Development:

Design and develop a scalable, secure, and easy-to-use application available in multiple regional languages.

3. Pilot Testing:

Launch pilot programs in select urban areas to test and refine the model before scaling.

4. Monitoring and Feedback:

Use analytics dashboards and user feedback to track impact, optimize operations, and build trust.

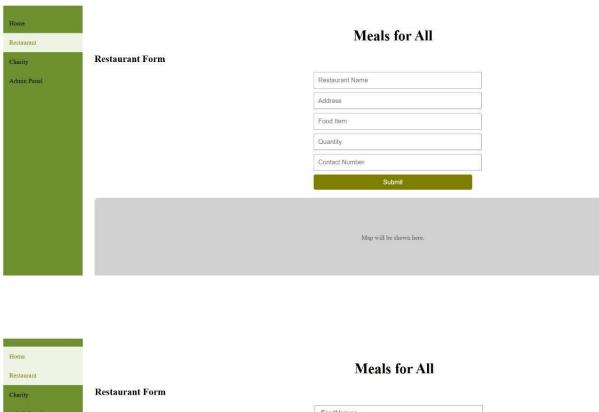
3. Results and Discussion

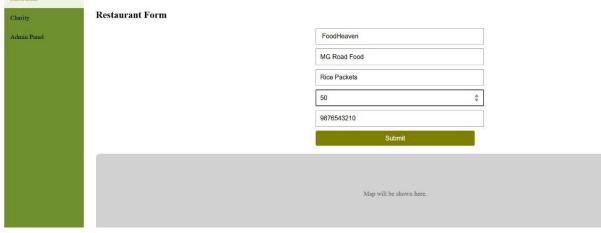
Home page





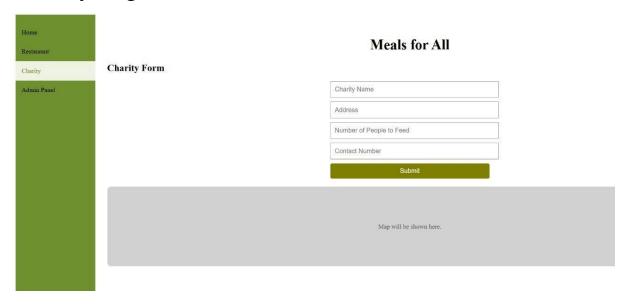
Restaurant Page

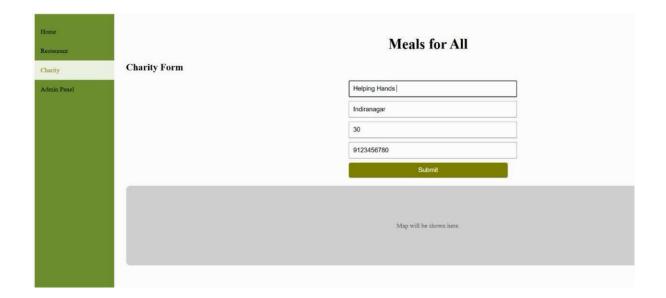




A restaurant can upload their excess food, which we will connect to a charity which requires it

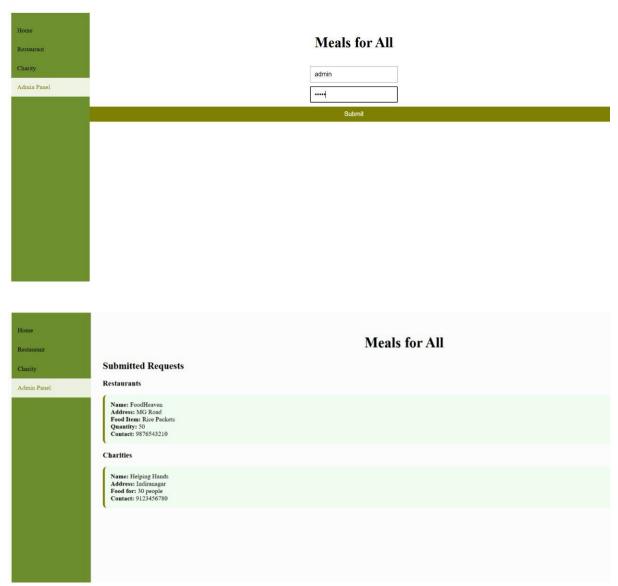
Charity Page





A charity can request for donations and any restaurant nearby or even far away can provide with their request

Admin Page



The admin page is what we manage and take care of and connect the charities with restaurants with surplus food. We can monitor the requests and make sure the donations properly reach in time

Discussion:

Meals for All introduces a unique, user-centric approach to tackling food waste by directly connecting local restaurants with surplus food to nearby charities through a streamlined digital platform. Unlike existing systems, our platform combines a lightweight design with modern UI inspiration, making it accessible even in low-resource environments.

The integration of an interactive admin panel with location-based mapping, a minimalistic login system, and real-time visual feedback upon submissions makes the experience seamless for both donors and receivers. This simplicity, combined with functional innovation, encourages broader

participation and promotes a practical solution to hunger and sustainability at the community level.

4. Statement of INNOVATION

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5. Statement of NOVELTY:

Meals for All is novel in its hyperlocal, AI-driven, and tech-integrated approach to solving hunger. Instead of relying on occasional food drives or manual coordination, our platform automates and personalizes the food-sharing process. The inclusion of real-time tracking, safety protocols, and logistic partnerships makes the system unique and impactful

6. Statement on How Our Methodology is Different from Existing Solutions

Unlike traditional food donation platforms that often require complex coordination and cater mainly to large-scale operations, Meals for All focuses on simplicity and accessibility for small restaurants and local charities. Our platform is built using basic HTML, CSS, and JavaScript—making it lightweight and easy to deploy, even in low-resource settings.

We offer an intuitive interface, simplified submission forms, and a secure admin login. Additionally, our admin panel displays submitted requests alongside embedded maps to help visualize locations—something most existing platforms lack.

By drawing inspiration from user-friendly apps like Swiggy and Dunzo, our platform ensures a smoother experience while promoting local engagement and reducing food waste efficiently.

7. Conclusion:

Meals for All isn't just a food-sharing platform—it's a movement toward sustainability, equity, and compassion. By combining innovation, technology, and community spirit, we aim to build a world where no food is wasted and no one goes hungry.