



*Innovation & Entrepreneurship Hub for Educated Rural Youth (SURE Trust – IERY)*

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## ***Food And Hunger***

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**The domain of the Project:**  
Data Structures & Algorithms in Java

**Team Mentors (and their designation):**  
**Mr. Karthik R** (Software tester at Jio Platforms Limited)  
**Sri. Lijo Joseph** (Senior Engineer 2 – Amazon)

**Team Members:**  
Ms. Manisha Kumari  
Mr. Rameshwar  
Mr. Neeraj Paswan

**Period of the project**

**October 2025 to December 2025**



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## Declaration

The project titled **FoodAndHunger** was mentored by **Mr. Karthik R, Sri. Lijo Joseph** and organized by **SURE Trust** from **October 2025 to December 2025**.

This project aims to reduce hunger and food waste by connecting NGOs, shelters, and needy individuals with surplus food from restaurants, hotels, and similar sources.

To ensure safety and trust, the project includes a **privacy policy** and a **strong admin verification system** to prevent negative impacts such as poisoned food or misuse of donated food for resale.

I hereby declare that, to the best of my knowledge, the team members mentioned below have worked sincerely on this project and have successfully enhanced their practical knowledge in this domain.

### Team Members:

Ms. Manisha Kumari

Mr. Rameshwar

Mr. Neeraj Paswan

### Team Mentors:

**Mr. Karthik R**

Software tester at Jio Platforms Limited

**Sri. Lijo Joseph**

Senior Engineer 2 – Amazon

Prof. Radhakumari

Executive Director & Founder

SURE Trust



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### *Executive Summary*

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- **Objective:**

Reduce hunger and food waste by connecting surplus food sources (restaurants, hotels) with NGOs, shelters, and needy people.

- **Method:**

Built a web-based platform with real-time listings, location tracking, admin verification, and privacy policy enforcement.

- **Key Findings:**

Faster food redistribution, reduced wastage, improved trust through admin-controlled verification and safety checks.

- **Recommendations:**

Scale to more cities, onboard more NGOs and food partners, and strengthen monitoring to prevent misuse or unsafe donations.



## *Introduction*

- **Background & Context:**

Large amounts of edible food are wasted daily, while many people still suffer from hunger. This project addresses the gap between surplus food providers and people in need.

- **Problem Statement / Goals:**

To reduce food waste and hunger by creating a trusted platform that connects restaurants, hotels, NGOs, and shelters efficiently.

- **Scope & Limitations:**

The system supports food listing, request handling, verification, and delivery coordination.

Limitations include dependence on user participation, internet access, and manual admin verification.

- **Innovation Component:**

Includes admin-based verification, privacy policy enforcement, and safety controls to prevent food poisoning and misuse such as resale of donated food.



### ***Project Objectives***

- **Objectives & Goals:**

- Connect surplus food providers with NGOs and needy people.
- Reduce food waste and hunger using a safe and verified platform.
- Ensure trust through admin verification and privacy policies.

- **Expected Outcomes & Deliverables:**

- A working web application for food donation and requests.
- Verified users and monitored food listings via admin panel.
- Reduced food wastage and improved food distribution efficiency.



## ***Methodology and Results***

### **Methodology and Results**

- **Methods / Technology Used:**

Full-stack web development with REST APIs.

Role-based access (Admin, Donor, Recipient, Volunteer).

- **Tools / Software Used:**

Frontend: ReactJS

Backend: Java Spring Boot

Database: MySQL

Maps: Google Maps API/ Leaflet

Version Control: Git & GitHub

- **Data Collection Approach:**

User-submitted data during registration, food donation, and food request forms.

Admin verifies users and food entries before approval.

- **Project Architecture:**

Client–Server architecture.

React frontend communicates with Spring Boot backend via REST APIs.

Backend handles business logic, verification, and security.

MySQL stores user, food, and delivery data.

Admin panel monitors and controls the entire system.

- **Final Project Working (Screenshots – Description):**

Home page showing available donations and requests.

Admin panel for verification and monitoring.

Live location tracking for pickup and delivery.

Status updates for food lifecycle (Pending → Delivered).

- **Project GitHub Link:**

<https://github.com/Bugsfounder/foodAndHunger>



### *Learning and Reflection*

**Name: Manisha Kumari**

- **New Learnings:**

Gained practical knowledge of **Spring Boot** and **ReactJS**.

Learned **full-stack project flow**, REST APIs, and database handling.

Understood **admin verification systems**, privacy policies, and secure design.

Improved **project management**, teamwork, and problem-solving skills.

- **Overall Experience:**

The project was a **valuable learning experience** that improved both technical and professional skills.

Working on a real-world social problem increased confidence and a sense of responsibility.

**Name: Rameshwar**

- **New Learnings:**

Learned to build responsive and user-friendly interfaces using HTML, CSS, JavaScript, and ReactJS.

Gained an understanding of managing application configuration and environment setup in Spring Boot.

Improved understanding of real-world application architecture and scalability concepts.

Developed confidence in building and deploying end-to-end web applications.

- **Overall Experience:**

This project strengthened my problem-solving skills, analytical thinking, and attention to detail through debugging and testing. It also motivated me to develop real-life applications that address social issues, making it a valuable experience that enhanced both my professional and ethical values.

**Name: Neeraj Paswan**

- **New Learnings:**

Expertise in **responsive UI development** (HTML, CSS, JavaScript, ReactJS).

Proficiency in **Spring Boot configuration and environment management**.

Understanding of **scalable enterprise application architecture**.

Confidence in **end-to-end web application development and deployment**.

- **Overall Experience:**

**End-to-end real-world development** experience

Improved **teamwork and coordination**

Enhanced **practical problem-solving**

Built **professional and social responsibility**





### ***Conclusion and Future Scope***

- **Conclusion:**

The project successfully achieved its objective of reducing food waste and hunger by connecting surplus food providers with NGOs and needy people.

Features such as admin verification, a privacy policy, and live tracking ensured safety, trust, and efficient food distribution.

- **Future Scope:**

Expand the platform to more cities and regions.

Add AI-based demand prediction and food quantity estimation.

Introduce **mobile applications** and advanced analytics for admins.