

Food Bridge – A Smart Food Redistribution and Waste Reduction System

1. Introduction

Food Bridge is a digital platform designed to reduce food waste by connecting food suppliers with needy institutions such as orphanages and old age homes.

2. Problem Statement

Large amounts of edible food are wasted daily due to lack of proper redistribution systems, while many communities face food shortages.

3. Aim

To develop a smart platform that reduces food waste and improves food distribution.

4. Objectives

Reduce food waste, connect suppliers with consumers, implement role-based system, enable food listing and ordering, integrate payments and notifications.

5. Proposed Solution

A web-based system integrating suppliers, consumers, volunteers, and admin with structured workflow and real-time updates.

6. Scope

Includes food listing, ordering, volunteer assignment, payments, and admin monitoring.

7. Methodology

Requirement analysis, design, development, integration, testing, and deployment.

8. Tools & Technologies

Next.js, Node.js, Database, Stripe, REST APIs, OTP Verification.

9. Expected Outcomes

Reduced food waste, improved distribution, real-time coordination, and better record management.

10. Conclusion

Food Bridge provides a practical and socially impactful solution for food redistribution using modern web technologies.