



ByteBite

-A Food Delivery System

Mission: Every year, thousands of meals are wasted due to canceled food orders. Our system turns this challenge into an opportunity: canceled meals are instantly offered to nearby customers at discounted prices, while surplus food is redirected to local shelters. With reduced cancellations and smart matching to ensure the right customers are notified, we cut waste, save money, and support communities — all while enhancing the food delivery experience through recommendations and preference filters.



Release 1 Milestones

- 1. Cancel-to-Redistribute Workflow** - When a customer cancels mid-route, trigger a system notification to nearby users offering the meal at a discounted price (e.g., 50%).
- 2. Smart Customer Matching** - Build a location-aware matching system to find customers along the original delivery path (restaurant → canceled location).
- 3. Payment & Reassignment Integration** - Implement a secure payment system for reassigned orders, ensuring smooth rerouting for delivery agents.
- 4. Shelter Distribution Pipeline** - Build a basic database of nearby shelters/NGOs and allow restaurants/delivery agents to mark surplus food for donation at the end of the day.
- 5. 3D Visualization of food items (Stretched)** - Visualize the food menu to give users a better understanding of what they're getting. 2D images can be misleading in terms of size. If users know exactly what they're getting, they tend not to cancel on their orders.

Release 2 Milestones

- 1. Basic Preference Filters (Customers)** - Add simple tags (Veg / Non-Veg / Vegan / Budget-friendly). When redistributing canceled meals, only notify matching users. Impact: Higher acceptance rate, fewer irrelevant offers.
- 2. Restaurant Surplus Quick-List (Restaurants)** - Simple interface for restaurants to mark “extra items available” in bulk (checkbox + quantity). Surplus items get instantly visible to nearby customers at discount. Impact: Expands system beyond cancellations → planned surplus sales.
- 3. Live cooking streams** - Watch your meal being prepared in real-time. Improves user engagement and ensures restaurant hygiene and accountability.
- 4. Recommendation Engine for Flavour Profile** - A recommendation engine that suggests new food to try based on previous purchases. Could provide novel items or stick to users' traditional taste palette.



Stakeholders:

- **Customers** – order food, receive discounted canceled meals.
- **Restaurants** – prepare food, reduce wastage, support donations.
- **Delivery agents** – handle rerouted or surplus orders efficiently.
- **Shelters/NGOs** – receive unused meals at the end of the day.
- **Admins** – oversee logistics, compliance, and reporting.

