

# Surplus Food Waste Management System

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Akassh Paramasivan  
Ramya Karuthappandian  
Jayanth Mani



# Business Problem & Objectives

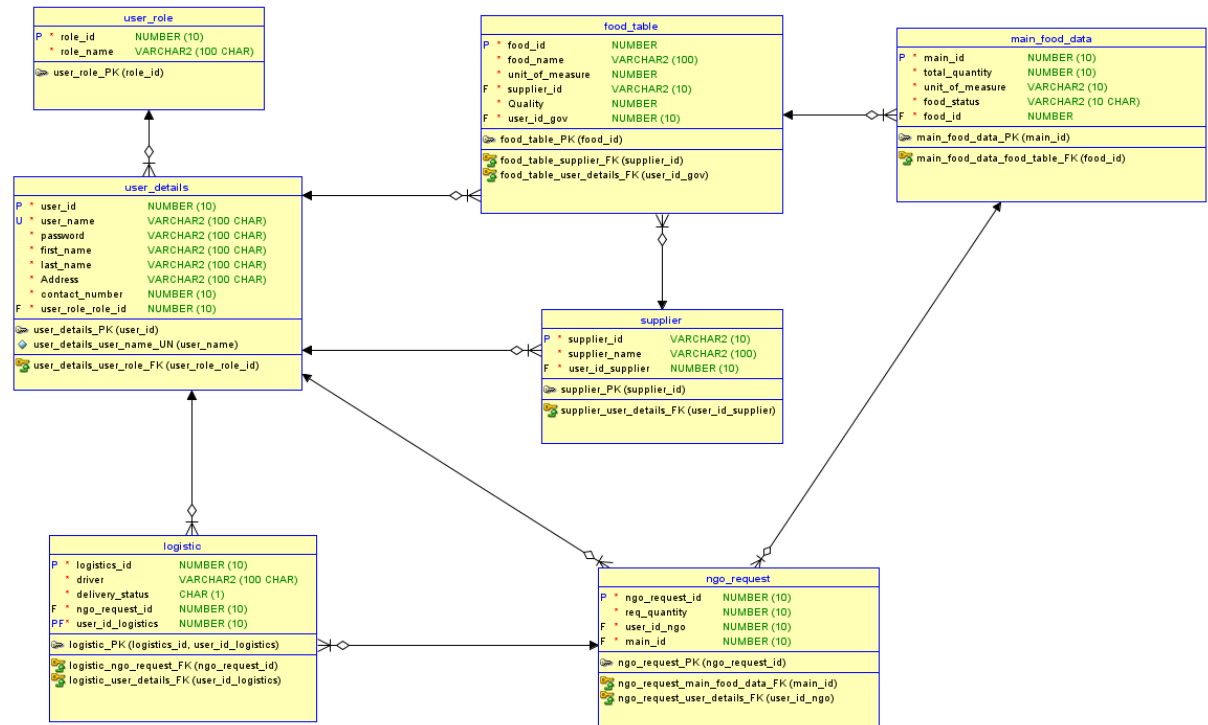
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- Business Problem:
  - Excess food waste from suppliers leads to resource loss and social issues
  - Need an automated system to manage surplus food distribution efficiently

# Solution Overview

- Our Solution:
  - Role-based data management (Suppliers, NGOs, Logistics, Government).
  - Automated triggers and processes for quality checks and quantity management.
  - Comprehensive reporting to justify automation.

# Relational model



# Key Components

- Implemented Components:
  - Physical & Logical Data Models
  - Views, Triggers
  - Stored Procedures, Functions, Packages
  - Exception Handling & Security

# Flow

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- Supplier logs in and submits surplus food details (quantity, quality, unit of measure)
- Automated trigger validates quality and updates MAIN\_FOOD\_DATA
- NGO users view available food via role-based view and place requests
- Trigger ensures requested quantity  $\leq$  available stock; updates stock
- Logistics team views approved requests, picks up food, updates status
- Government officials access quality-compliance reports via secure view
- Stored procedures and functions handle business rules and exceptions
- Reports are generated: availability, quality, request status, logistics, compliance

Thank you

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