



Data Engineering & Analytics

Enabling Informed Customer Decisions Through Enhanced Allergen Labeling

Client Overview

Our client is an American multinational retail corporation that operates a chain of hypermarkets, department stores, clubs and grocery stores from several countries.



The Challenge

UK operations required enhanced allergen reporting capabilities for regulatory compliance.

The client needed to:

- Help UK based associates print allergy causing ingredients on labels
- Leverage available allergens data and reduce dependency on manufacturer or producer supplied data



The Solution

Saicon implemented a microservices-based allergen data integration system.

Technical components included:

- Implemented Spring Boot based micro-service for fetching Allergens data from Allergens Service
- Combined data from both the Allergens Database and Print Data Orchestrator service
- Designed to work with various templates
- Used Apache Kafka messaging service to publish item info data into data lake

Outcomes Delivered

The system enabled comprehensive allergen labeling while reducing external dependencies. Results included:

- ✓ Enabled printing of allergen information on product labels for informed customer decisions
- ✓ Reduced dependency on manufacturer-supplied allergen data