



Data Engineering & Analytics

Streamlining Daily Operations Through An Intelligent Label Printing Platform

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.

Outcomes Delivered

The platform supported operational efficiency and multi-format printing capabilities.

Achievements included:

- ✓ Enabled price change identification for easier daily validations
- ✓ Provided flexible label printing with various templates and formats



The Challenge

Mexico operations required comprehensive label printing capabilities to support store operations.

Requirements included:

- API for helping associates identify items with price changes for faster daily validations
- Help associates identify fields for printing labels using external services
- Report Inventory Management data like product availability and timing
- Generate Ravel Printing API endpoints using external services like Print Data Orchestrator



The Solution

Saicon delivered the Ravel Print API platform using microservices architecture.

Key components included:

- Implemented Ravel Print API using Spring Boot based microservice calling Print Data Orchestrator Service for PDO data
- Designed to work with various label formats and templates like INVENTORY template, AISLELOC
- Enabled users to specify country code and store number for label generation
- Configured printing label service options