

# Delivery route optimization

This workflow automatically optimizes delivery routes for bakery orders by analyzing daily deliveries, calculating efficient paths, and coordinating with drivers to minimize travel time and fuel costs while ensuring fresh product delivery.

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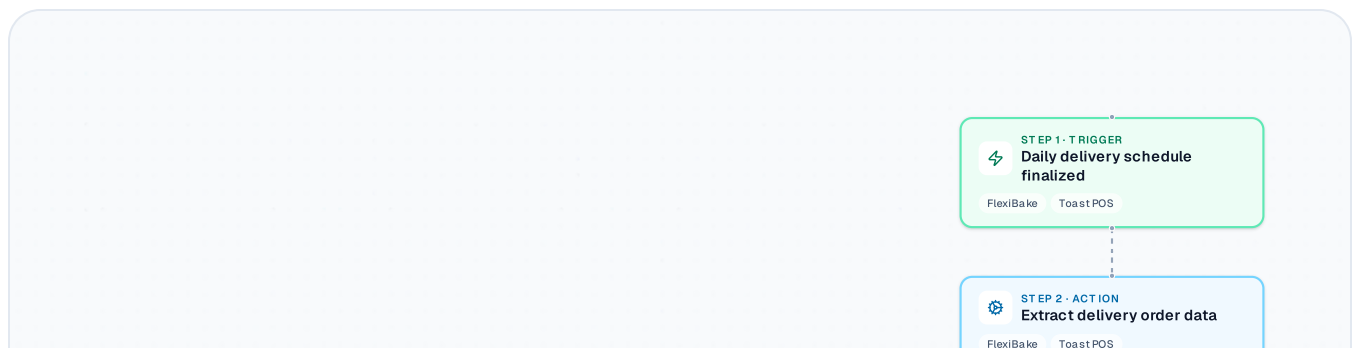


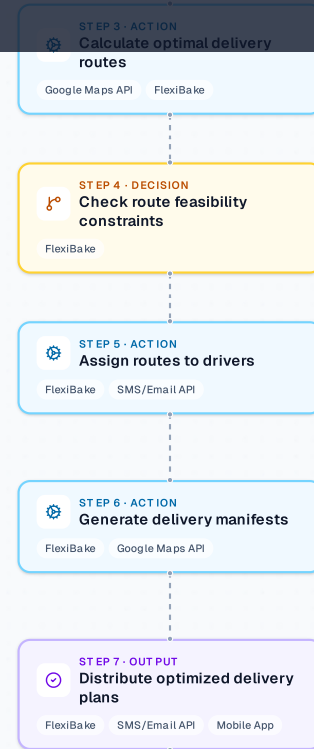
## WORKFLOW TRIGGER

Daily delivery schedule is finalized in the bakery management system

## Visual Flow

Each node represents an automated step. Connections show how data and decisions move through the workflow.





## Step-by-Step Breakdown

Detailed explanation of each automated stage in the workflow.

1

## Daily delivery schedule finalized

The system detects that all customer orders for the day have been processed and the delivery schedule is ready for optimization. This triggers the route planning automation.

FlexiBake

Toast POS

2

 ACTION

## Extract delivery order data

The system pulls all pending delivery orders including customer addresses, order sizes, delivery time windows, and product freshness requirements. Special handling instructions are also collected.

FlexiBake

Toast POS

3

 ACTION

## Calculate optimal delivery routes

Using mapping and routing algorithms, the system calculates the most efficient delivery routes considering traffic patterns, delivery windows, and vehicle capacity constraints. Multiple route options are generated.

Google Maps API

FlexiBake

4

 DECISION

## Check route feasibility constraints

The system evaluates whether calculated routes meet delivery time commitments and vehicle capacity limits. Routes that exceed constraints are flagged for manual review or rescheduling.

5

 ACTION

### Assign routes to drivers

Approved routes are automatically assigned to available delivery drivers based on their schedules, vehicle types, and delivery area familiarity.

Driver notifications are sent with route details.

FlexiBake

SMS/Email API

6

 ACTION

### Generate delivery manifests

The system creates detailed delivery manifests for each driver including customer information, order contents, optimized stop sequence, and estimated arrival times. Navigation instructions are included.

FlexiBake

Google Maps API

7

 OUT PUT

### Distribute optimized delivery plans

Finalized delivery routes and manifests are sent to drivers' mobile devices and the bakery management dashboard. Customer notifications with delivery windows are automatically generated.

FlexiBake

SMS/Email API

Mobile App



## Outputs

- Optimized delivery route maps
- Driver delivery manifests
- Customer delivery notifications
- Route efficiency metrics



## Key Metrics

- Average delivery time per route
- Fuel cost savings percentage
- On-time delivery rate



## Tools & Integrations

- FlexiBake
- Toast POS
- Google Maps API
- SMS/Email API
- Mobile App

## AI Business OS

## AI Business OS

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