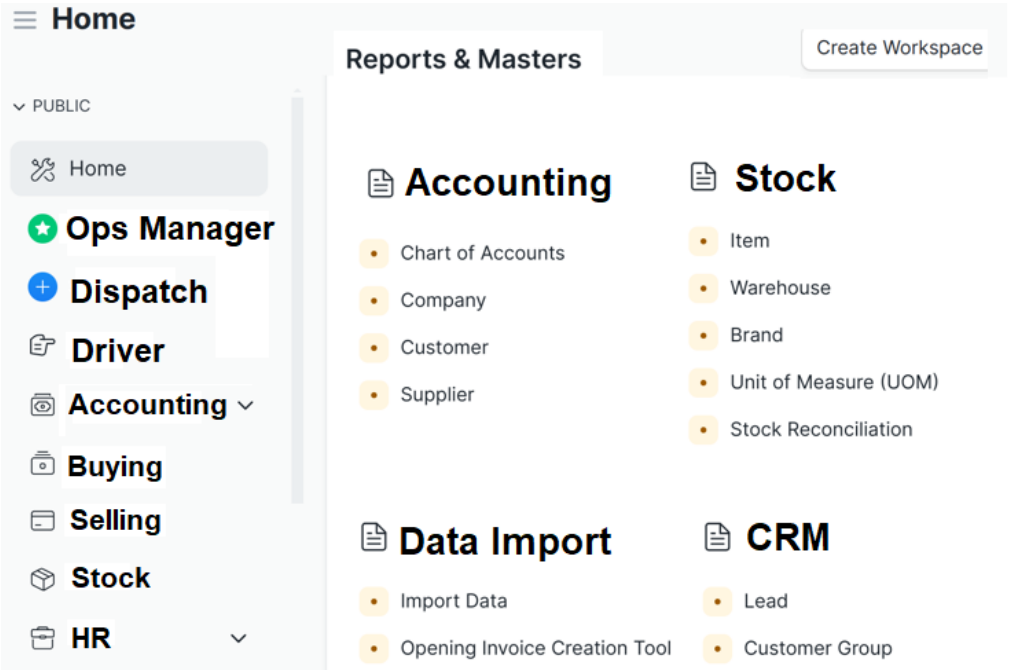
# Bringing Efficiency to Fuel Transportation and Logistics using cloud-based ERP

**Industry:** Transportation




## OVERVIEW

The customer is a well-known transportation company in the United States, specialising in fuel logistics and operates a network of managed stations in multiple cities and states.

## BUSINESS CHALLENGE

The customer is a well-known fuel transportation service provider, who was using legacy systems for managing their fuel logistics operations. The requirement was to coordinate orders from managed stations, handle various types of fuel, and simplify payments for drivers and consignors. This necessitated a comprehensive and integrated solution using a state-of-the-art ERP solution. To improve overall operating efficiency, the process required a robust system due to the complexities.

## OBJECTIVE

- An ERP system to manage customer specific fleet management, fuel logistics, driver management, sales forecasting, and reporting
- Integration of Google Maps into the ERP system to optimize route planning for fuel deliveries
- Faster order processing, automation of distance and pricing calculations, and increased efficiency in customer's operations.

### PROJECT SPECS

**PROJECT TYPE:** ERP Implementation

**TECHNOLOGIES:**

- Frappe Framework
- Python
- CSS & HTML

**SERVICES PROVIDED:**

- Module Development
- Workflow Automation
- Data Migration
- UI Design & Development
- Third Party Integration

**TEAM:**

- Architect
- Project Lead
- Python Developers
- Frappe Developers
- Test Engineers

**ENGAGEMENT MODEL:** Managed Service

**DURATION:** Ongoing Engagement

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## KEY ACHIEVEMENTS

- Order processing efficiency has increased by 100%.
- Driver payment accuracy has improved by 15% resulting in direct savings
- Delivery delays have been reduced by 30%.
- Operational costs have decreased by 20%.

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# SOLUTION

To solve customer's particular issues, we proposed an ERPNext Application including customisation according to their needs.

The ERP application consisted of several modules:

- **Fleet management** entails tracking and controlling a variety of vehicles, such as tanker trucks and trailers, handling various kinds of fuel from numerous terminals, automated order processing, and efficient inventory management.

- **Driver Management:**
  Setting up a complete system to determine driver remuneration depending on vehicle type, distance traveled, and additional load or delivery incentives.

- **Sales Forecasting**:
  Creating accurate reports for transportation and managed stations to help with planning and decision-making.

- **Google Maps integration:**
  Google Maps is seamlessly integrated into the ERP system, optimizing route planning for gasoline deliveries and ensuring efficient logistics.

- **Shift Scheduling:**
  Integration with driver profiles and availability data to efficiently allocate resources and comply with labor requirements.

- **Kanban Board:** Our customer utilized a Kanban Board within the UI to assign Delivery Notes to Drivers via Drag and Drop. By implementing filters, we effectively sorted drivers based on availability for specific dates or those permitted to deliver to particular locations.

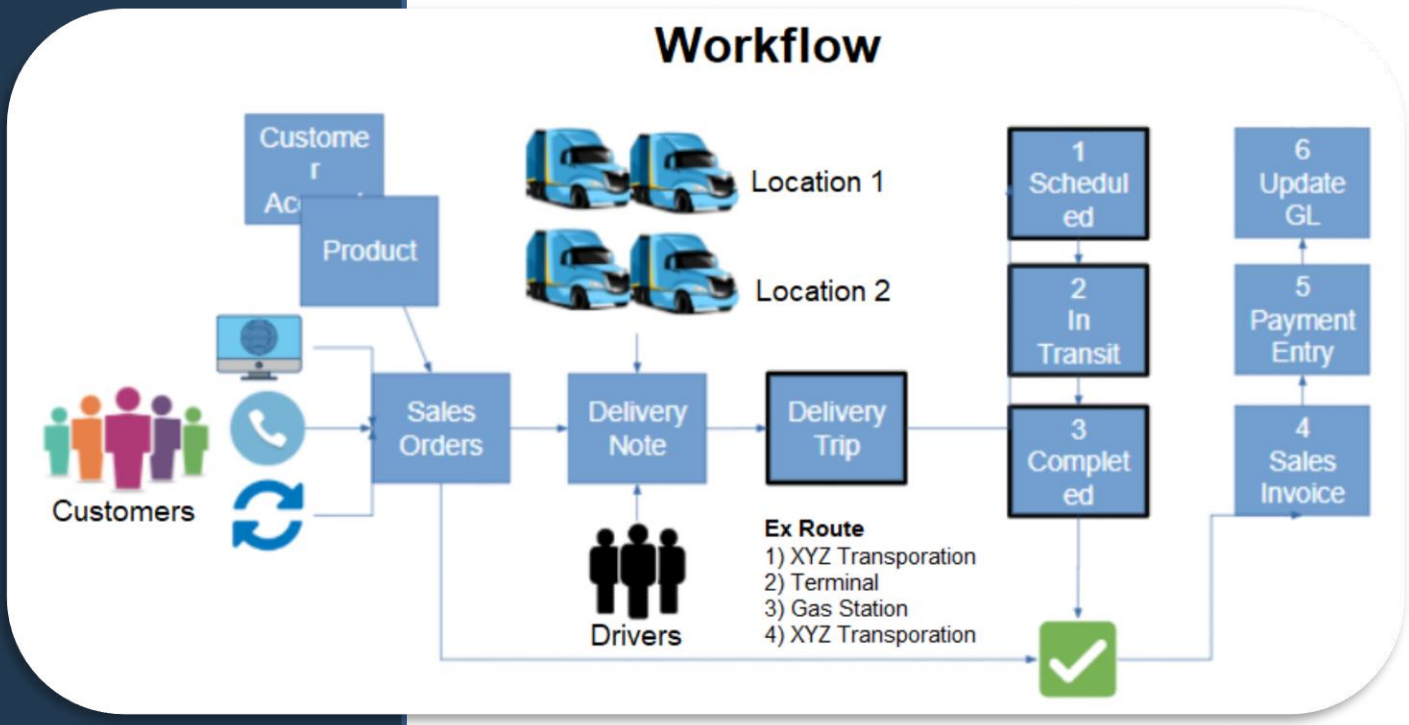
- **Leave Management Module**:
  Provides real-time visibility into employee leave balances, enabling correct workforce planning and reducing operational disruptions.

- **Geofencing**:
  The integration of geofencing technology into the ERP system allows for precise shift tracking and management.

  It also allows for the creation of virtual borders, ensuring that staff are where they should be during their scheduled shifts.

- **Reporting:**
  Generating reports for station operators, including data on fuel sources, logistics costs, service fees, and sales predictions.

  Customized reports to help management make data-driven decisions, optimize workforce numbers, and address any factors that impair productivity or efficiency.




## Distinctive Features:

- Seamless order processing from consignees through the ERP system.
- Automated creation of sales orders, incorporating distance calculations and pricing rules.
- Efficient creation of delivery notes, capturing essential details for each fuel delivery trip.
- Real-time monitoring through a handheld tablet for drivers to record fuel details, time, and any deviations from the plan.
- Detailed reports for station owners, providing insights into fuel sources, logistics costs, and sales forecasts.

## Outcome:

The implemented ERP supply chain management system significantly enhanced our customer's fuel transport and logistics operations by streamlining processes. This resulted in a 100% increase in order processing efficiency and a 15% improvement in driver payment accuracy. Additionally, robust reporting capabilities provided valuable insights, leading to a 30% reduction in delivery delays.

The solution brought transparency to the entire supply chain, facilitating real-time tracking of orders and fuel deliveries. As a result, our customer gained the ability to make informed decisions promptly, resulting in a 20% reduction in operational costs.

This case study represents the transformative impact of a tailored ERP system on fuel logistics operations, driving efficiency, accuracy, and cost savings for our customer while fostering growth and success in their business.

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