

# Fleet Configuration & Management System

## THE VISION

Client's purpose was to develop the application to manage and configure the vehicles according to ones need. The system would perform maintenance of subsidized vehicles, administration of fuel claims and collection of maintenance premiums and deliver right information to right stakeholder of the system through fax, SMS and email. In addition, the system should easily communicate with external system like government payroll and maintenance service providers.

ZenconGroup has successfully developed "Configure & Manage Fleet" system which manages fleet as well as given provides ability to configure the fleet according to the customer's need.

## THE CHALLENGE

Zencon Group provided rich web application solution for client's requirements. In order to fulfill the needs of its industry users, the client decided to develop a web-based information system that fulfills below attributes:

- A web-based solution that is engaging, innovative, user-friendly and designed to showcase featured news
- A system capable of configuring a fleet according customer requirement
- Easy management of configured fleet
- Integration with external systems
- At time of data migration, manage data consistency and integrity



# TOOLS AND TECHNOLOGIES

Architecture  
SOA

Frame Work  
Angular 7

Programming Language  
.NET Core 2.1

Database  
MS SQL Server

This project helped reduce human errors on the client side by automating key functionalities through the application. With the application, they were able to retrieve accurate information and generate reports with precision. The integration of Single Sign-On (SSO) allowed them to use a single authentication for all processes. The invoice functionality eliminated the need for manual invoice generation and record-keeping, as invoices are automatically created and sent to users via email. By integrating an external car configurator, manual data entry was also removed.

One of our clients in Italy offers services such as managing vehicle registration processes and handling vehicle management on a contractual basis. They required a system to bridge the existing functionality gap and automate their manual operations through the proposed application.

# Zencon Group, Offerings

Zencon Group designed and developed a web-based application, with following core features

- **Fleet Configuration:** Allows users to manually add, configure and customize vehicles in the fleet, including details like make, model, year and specifications.
- **Vehicle Registration Management:** Manages the registration process for each vehicle, including renewals, compliance tracking, and documentation.
- **Vehicle Maintenance Management:** Enables tracking and scheduling of regular maintenance tasks such as oil changes, tyre rotations and repairs.
- **Fleet Performance Monitoring:** Tracks the performance of each vehicle, including fuel efficiency, mileage and usage patterns.
- **Maintenance History:** A detailed record of all past maintenance activities, repairs and service log for each vehicle
- **GPS Tracking and Real-Time Location Monitoring:** Allows users to track the real time location of vehicles in the fleet, improving route optimization and fleet security.
- **Expense Tracking:** Tracks and manages the costs associated with the fleet, including fuel, maintenance, insurance and other operational expenses.
- **Reporting and Analytics:** Provides detailed reports on fleet performance, maintenance costs, and operational efficiency to assist in decision making.
- **Compliance Management:** Ensures that fleet complies with legal regulations, Such as insurance, licensing, and safety standards
- **Environmental Impact Tracking:** Monitors the fleet's carbon footprint and fuel efficiency to support sustainability and reduce environmental impact



Zencon Group is a global IT consulting and digital solutions provider offering a wide range of services including Enterprise Software Development, Microsoft 365 and Power Platform Consulting, ServiceNow Solutions, Mobile and Web Application Development, QA & Testing, and Managed IT Services. With deep domain expertise and scalable delivery models, Zencon has helped businesses across industries achieve operational efficiency, innovation, and long-term growth.

Our customer-first approach, technical excellence, and commitment to quality have earned us the trust of enterprises, startups, and public sector clients worldwide.



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