# WhatsNext Vision Motors: Shaping the Future of Mobility with Innovation and Excellence

## 1. Abstract

WhatNext Vision Motors' Salesforce program is a design to redefine the automotive customer journey while driving operational excellence. Centered on Automotive Cloud, the solution unifies vehicle, dealer and customer data to deliver a 360-degree view that powers personalized sales, service, and connected-car experiences. Key innovations include automatic dealer assignment based on customer location, real-time stock validation that blocks orders for out-of-stock vehicles, and scheduled processes that update bulk order statuses to "Confirmed" or "Pending" according to inventory levels. Leveraging Lightning App Builder, record-triggered flows, Apex triggers, and batch jobs, the project automates workflows, enforces critical business rules, and notifies stakeholders of test drives, stock replenishment, and order changes. Expected outcomes are shorter sales cycles, higher order accuracy, increased customer satisfaction, and reduced administrative overhead, enabling staff to focus on high-value tasks and positioning WhatNext Vision Motors at the forefront of modern mobility solutions.

# 2. Objective

- Enhance the customer ordering experience by automatically suggesting the nearest dealer based on the customer's address.
- Prevent customers from placing orders for vehicles that are out of stock to improve order accuracy and customer satisfaction.
- Automate the update of bulk order statuses to "Pending" or "Confirmed" based on real-time stock availability.
- Streamline operational processes and reduce manual administrative tasks through automation with Apex triggers, batch jobs, and scheduled processes.
- Provide a unified Salesforce platform to efficiently manage vehicle details, stock, dealers, customer orders, test drives, and service requests.
- Enable automated workflows such as auto-assignment of orders to the nearest dealer and sending automated email reminders for scheduled test drives.

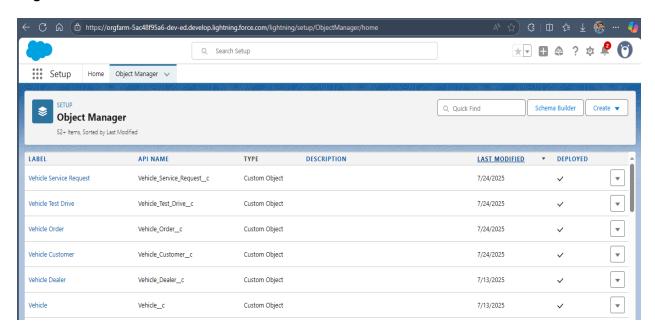
# 3. Data Management

## 3.1 Objects

The solution utilizes custom objects to model vehicle, dealer, customer, and transactional information. Key objects include:

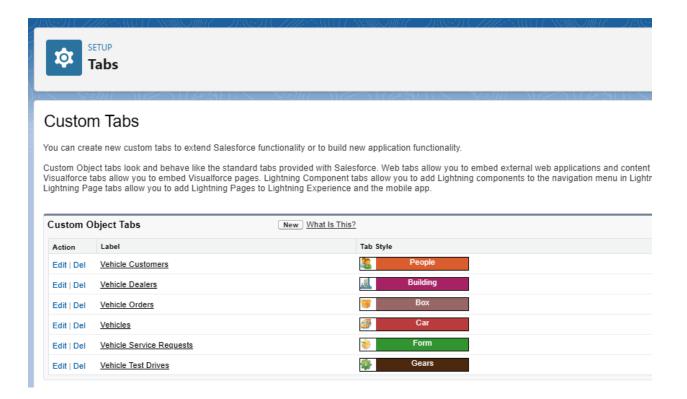
- Vehicle (vehicle inventory)
- Vehicle\_Dealer (authorized dealers)
- Vehicle\_Customer (customer profiles)
- Vehicle\_Order (sales orders)
- Vehicle\_Test\_Drive(test drive bookings)
- Vehicle\_Service\_Request (service requests)

Relationships are established to reflect real-world associations between vehicles, dealers, and customers, ensuring a single source of truth across the organization.



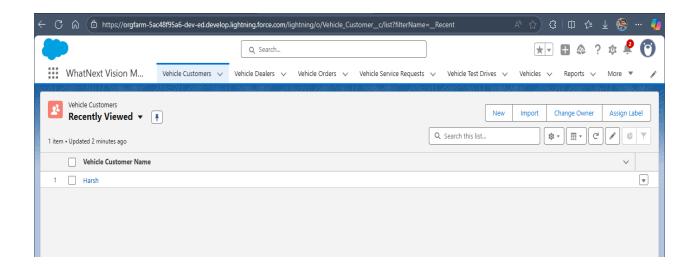
#### 3.2 Tabs

Custom tabs have been created for each object to provide users with intuitive navigation and data visibility. Lightning App Builder was used to tailor the tab layouts, including related lists, report charts, and quick actions for common tasks such as creating new orders or scheduling test drives.



## 3.3 App Manager

A dedicated Lightning App named 'WhatNext Vision Motors CRM' consolidates all custom tabs and dashboards. Role-based navigation rules ensure sales agents, service advisors, and management teams access features relevant to their responsibilities, promoting usability and adoption.

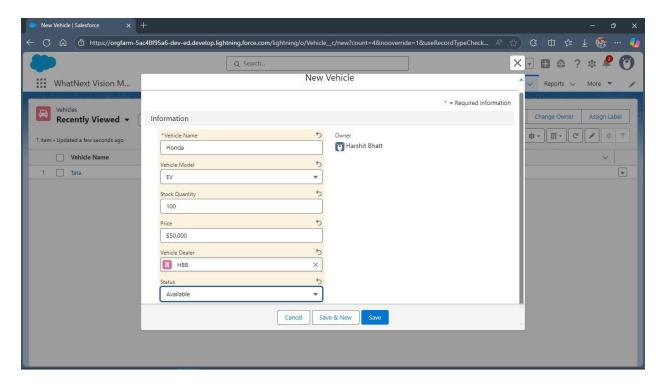


#### 3.4 Fields

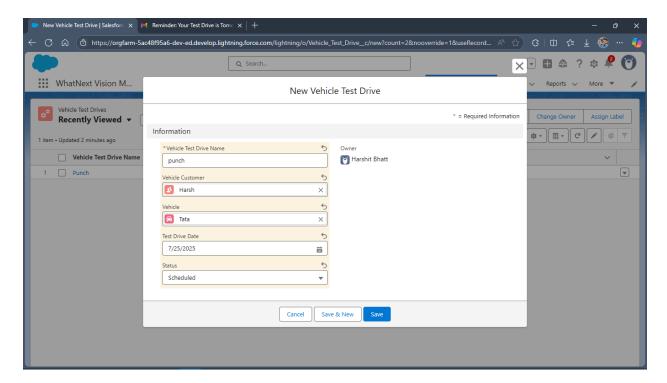
Custom fields capture critical data such as :

- Stock\_Level on Vehicle
- Preferred\_Dealer\_on Vehicle\_Customer
- Estimated Delivery Date on Vehicle Order.

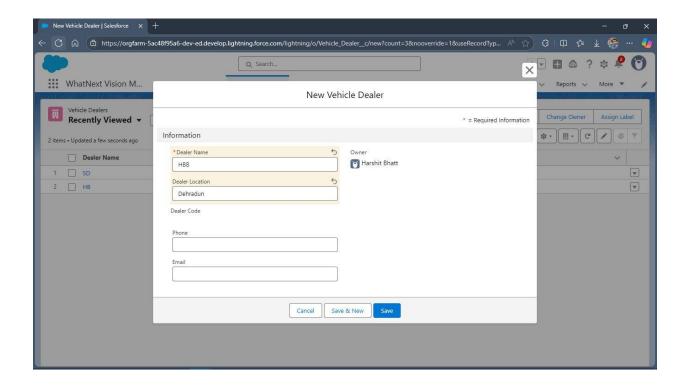
Formula fields calculate real-time availability, while validation rules maintain data integrity—for example, preventing negative stock values or invalid VIN formats.



**New Vehicle Registration fields** 



**Test drive Creation fields** 



**Vehicle Dealer Creation** 

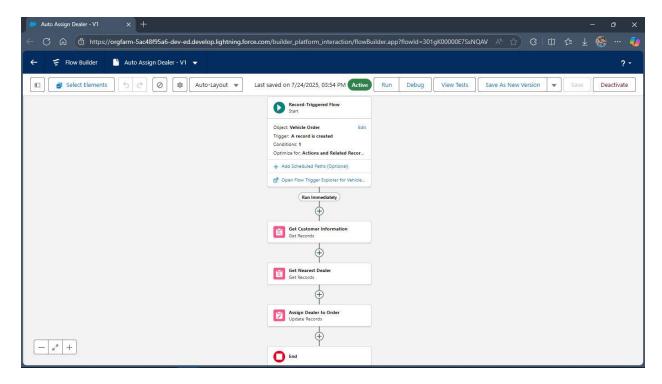
## 4. Automation

#### 4.1 Flow Creation

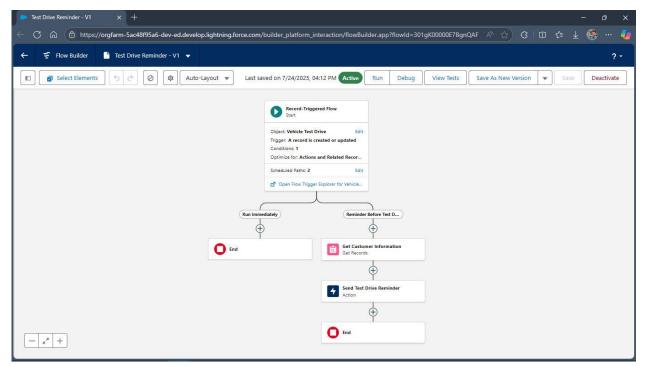
Screen flows guide sales agents through customer onboarding, capturing essential data such as address, vehicle preference, and financing options. Users are automatically prompted to confirm stock availability, select the nearest dealer, and generate quotes, reducing manual data entry and accelerating sales cycles.

## 4.2 Record-Triggered Flow Creation

Record-triggered flows enforce real-time automation. When a Vehicle\_Order record is created, the system validates stock, auto-assigns the nearest dealer using geolocation services, and sends confirmation emails. Additional flows send reminders for upcoming test drives and service appointments, improving customer engagement.



**Assign Dealer Flow** 



**Test Drive Reminder flow** 

# **Apex and Batch Classes**

## 4.3 Apex Triggers

Apex triggers supplement declarative automation with complex logic not feasible in flows. The **VehicleOrderTrigger** validates vehicle stock at the time of order creation, ensuring the Requested\_Quantity does not exceed available stock levels. It also updates the Order\_Status field to 'Confirmed' or 'Pending' based on real-time inventory checks.

## 4.4 Batch Apex

The **VehicleOrderBatch** class runs hourly to reconcile stock levels across dealerships. It queries recent Vehicle\_Order records in bulk and adjusts Stock\_Level on related Vehicle records. Exception handling ensures failed records are logged and retried, preserving data consistency at scale.

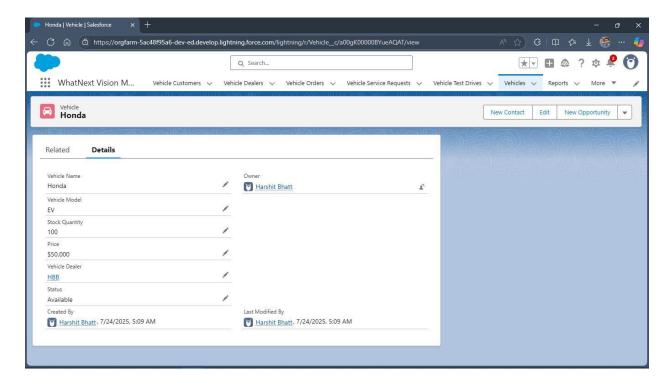
## 4.5 Scheduled Apex

A **VehicleOrderBatchScheduler** job executes nightly to send proactive stock replenishment notifications. The process aggregates low-inventory vehicles and emails purchasing managers with recommended reorder quantities, ensuring optimal stock availability and minimizing lost sales opportunities.

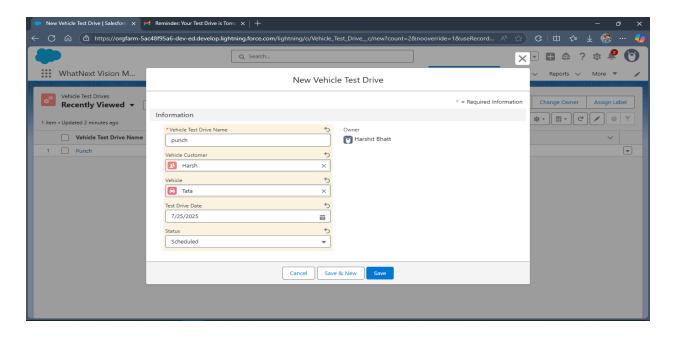
# 5. Operational Workflow

The end-to-end workflow begins when a customer expresses interest in a vehicle via the website or dealership. The system captures lead data, checks stock, and recommends the nearest dealer. Once an order is created, real-time validations confirm availability and assign the dealer. Customers receive order confirmations and can schedule test drives.

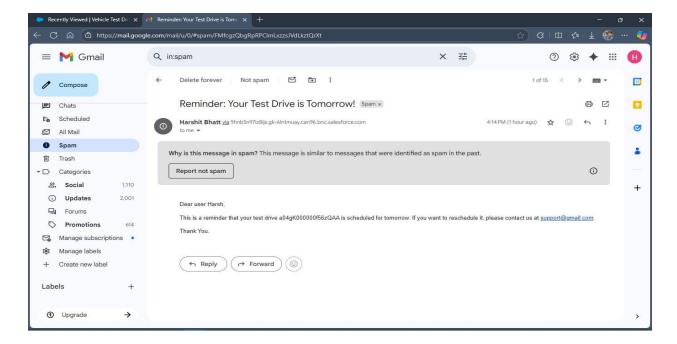
Service requests are tracked through the Vehicle\_Service\_Request\_c object, with automated reminders sent based on mileage or time intervals. Dashboards provide executives with visibility into sales trends, inventory levels, and service KPIs.



Vehicle Purchase Registered



**Test Drive Creation & Email Alert (24hrs before)** 



## 6. Conclusion

By combining robust data modeling, declarative automation, and scalable Apex solutions, **WhatNext Vision Motors** delivers a best-in-class customer experience while optimizing internal operations. The Salesforce platform empowers the company to adapt quickly to market changes, reduce operational costs, and maintain a competitive edge in the rapidly evolving mobility sector.