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

ABSTRACT:

"Next Vision Motors" can be abstracted as a company focused on transforming transportation through innovative and sustainable solutions. Their vision revolves around creating a future where mobility is just efficient and convenient, but also environmentally conscious and enhances overall well-being. They are likely to achieve this through advancements in electric vehicles, autonomous driving, connectivity, and smart infrastructure.

Here's a more detailed breakdown of the abstraction:

Core Focus:

The core focus is on the future of mobility, going beyond traditional transportation and incorporating elements like electric vehicles, autonomous driving, and connected car technologies.

Innovation:

"Innovation" implies a commitment to pushing the boundaries of what's possible in vehicle design, technology, and user experience. This could include exploring new materials, propulsion systems, and interaction methods.

Excellence:

"Excellence" suggests a dedication to quality, performance, and reliability in all aspects of their products and services. This could involve rigorous testing, advanced engineering, and a focus on customer satisfaction.

OBJECTIVE

At WhatNext Vision Motors, our objective is to lead the transformation of the mobility landscape by developing forward-thinking, sustainable, and technologically advanced transportation solutions.

- Lead the future of mobility: with cutting-edge, sustainable transportation solutions
- Foster innovation: through advanced technologies and continuous R&D
- Promote sustainability: In design, production, and performance
- Deliver excellence: In quality, safety, and customer satisfaction
- Enable smart, connected mobility: Experiences for the modern world
- **Drive transformation:** in the transportation industry with forward-thinking strategies

TECHNOLOGY DESCRIPTION

Salesforce:

Salesforce is a cloud-based Customer Relationship Management (CRM) platform that support the vision of smart, connected mobility, whatNext Vision Motors leverages Salesforce's powerful cloud platform. Here's how we structure and develop the project using Salesforce.

Custom Objects:

Objects in salesforce are like tables in a database. Custom Objects are created to store specific data.

Example:

- Vehicle c Stores specs, battery status, VN, service history
- Customer c Linked with accounts, stores vehicle ownership,preferences
- Service Request c Tracks maintenance, repair, and warranty requests

Tabs:

Tabs are used to display object data in the salesforce UI.

Example: A tab for Vehicle c allows users to easily view and manage vehicles

Apps:

Lightning components: Create dynamic dashboards for telematics and vehicle health.

Example: an app WhatNext Vision Motors which gives the detailed description about the vehicles.

Profiles:

Profiles define what a user can see, do and edit in Salesforce. It controls object permissions, feild access, and more.

Flows:

Flows automate service scheduling, notifications, and onboarding.

Process Builder/Flow Builder:

Trigger updates when vehicles need maintenance or software updates

Apex Triggers:

Custom logic for real-time alerts or mileage-based actions

Apex Classes:

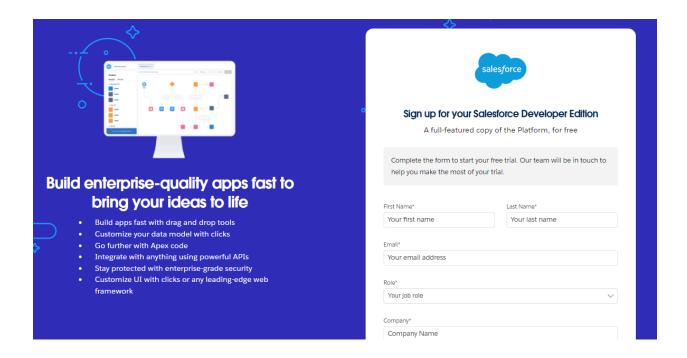
Apex allows us to implement advanced business logic that can't be handled with declarative tools like Flows or Process Builder.

Eaxmple: VehicleOrderTriggerHandler

DETAILED EXECUTION OF PROJECT PHASES

1. Developer Org Setup

- A Salesforce Developer Org was created using
- https://developer.salesforce.com/signup.
- The account was verified, password set, and access was granted to the salesforce



2. Custom Objects:

- Vehicle_c Stores vehicle details
- Vehicle Dealer c Stores authorized dealer info
- Vehicle_Customer__c Stores customer details
- Vehicle_Order__c Tracks vehicle purchases
- Vehicle_Test_Drive_c Tracks test drive bookings
- Vehicle_Service_Request_c Tracks vehicle servicing requests

3. Creating the Lightning App:

- A custom Lightning App named WhatNext Vision Motors was created.
- Inculded tab: Object tab named Vechile
- Assigned to the System Administrator profile.

4. Feild & Realtionship Creation:

- 1. Vehicle_c:
- Vehicle Name c (Text)
- Vehicle Model c (Picklist: Sedan, SUV, EV, etc.)
- Stock Quantity c (Number)
- Price c (Currency)
- Dealer_c (Lookup to Dealer_c)
- Status c (Picklist: Available, Out of Stock, Discontinued)

2. Vehicle Dealer c:

- Dealer Name c (Text)
- Dealer Location c (Text)
- Dealer Code c (Auto Number)
- Email c (Email)
- Phone c (Phone)

3. Vehicle Order c:

- Customer c (Lookup to Customer c)
- Vehicle c (Lookup to Vehicle c)
- Order Date c (Date)
- Status c (Picklist: Pending, Confirmed, Delivered, Canceled)

4. Vehicle Customer c:

- Customer Name c (Text)
- Email c (Email)
- Phone_c (Phone)
- Address c (Text)
- Preferred Vehicle Type c (Picklist: Sedan, SUV, EV, etc.)

5. Vehicle Test Drive c:

- Customer_c (Lookup to Customer_c)
- Vehicle c (Lookup to Vehicle c)

- Test Drive Date c (Date)
- Status c (Picklist: Scheduled, Completed, Canceled)

6. Vehicle_Service_Request__c:

- Customer_c (Lookup to Customer_c)
- Vehicle c (Lookup to Vehicle c)
- Service Date c (Date)
- Issue Description c (Text)
- Status c (Picklist: Requested, In Progress, Completed)

5. Flow & Record-Flow Creation:

- Create a flow named Get Customer Information, Get Nearest Dealer
- Create a update records flow named Assign Dealer to Order

6. Apex and Trigger Batch jobs:

- Created a apex class named VehicleOrderTriggerHandler
- Created a apex trigger named VehicleOrderTrigger
- Again created a apex class named VehicleOrderBatchScheduler
- Save all the apex classes and triggers

PROJECT EXPLANATION WITH REAL-WORLD EXAMPLES

Business Need:

WhatNext Vision Motors allows customers to book test drives online. The system must:

- Check if a vehicle is available on the requested date/time,
- Create a Test Drive c record
- Notify the assigned sales representative
- Prevent double-booking the same vehicle

Custom Objects:

- Test_Drive_c
- Vehicle c
- Customer_c

Apex class:

TestDriveScheduler.cls

Lightning component integration:

When a customer selects a date and vehicle on the portal, this class is called to schedule the test drive

• Email Notification Trigger

When a customer schedule a test drive then the customer receive a email that "Your test drive is tomorrow. If you need to reschedule please contact us".

SCREENSHOTS

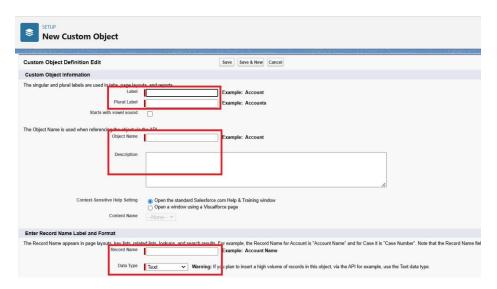


FIG: Custom object

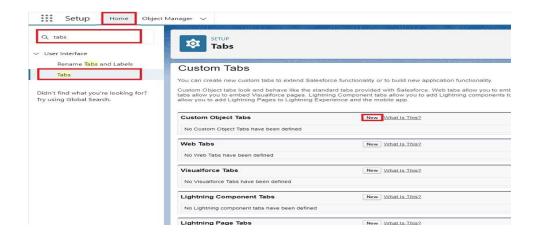


FIG: Custom Tabs



FIG: Custom Field

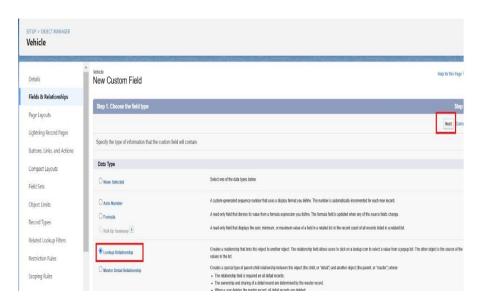


FIG: Custom Field type

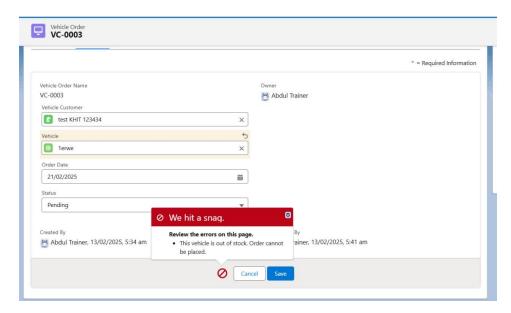


FIG: Vehicle Order

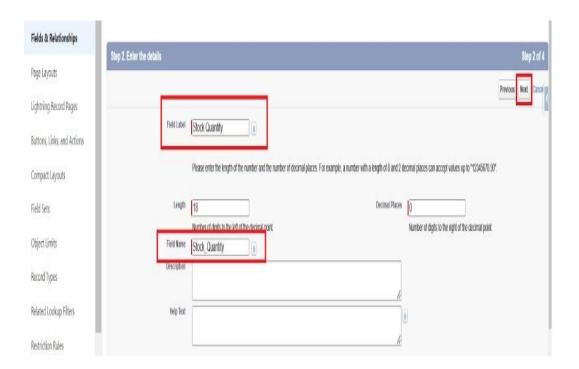


FIG: Enter Details

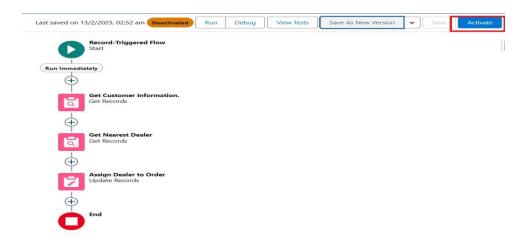


FIG: Get Records

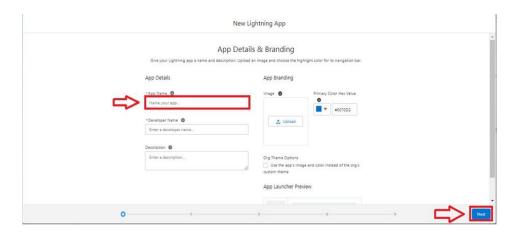


FIG: Lightning App

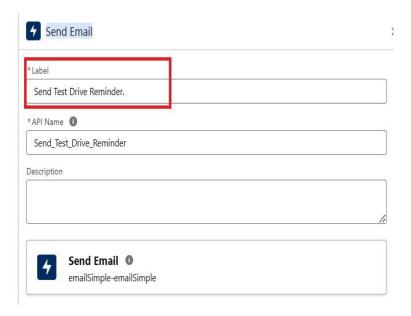


FIG: Send Email

CONCLUSION

The WhatNext Vision Motors project demonstrates how innovative automative comapnies can leverage salesforce to transform customer experiences, streamline operations, amd shape the future of mobility. By utilizing salesforce features such as custom objects, apex classes, automation tools like flows and process builder, amd dynamic lightning components, the project showcases hoe digital transformation in the automative industry can be both scalable and customer-centric.

Through this implementation, WhatNext Vision Motors can efficiently manage vehicle inventory, customer test drives, service request, and post-sales engagement-all within a unified CRM environment. The integration of business logic via Apex and real-time user interaction through declarative tools enables teams to make smarter decisions and respond faster to evovling customer needs.

Ultimately, this project highlights how salesforce empowers organizations like WhatNext Vision Motors to deliver excellence, drive Innovation, and build strong, lasing relationships with their customers. As mobility evovles, platforms like slaesforce will be the digital foundation enabling automative leaders to stay ahead of the curve- turning vision into action.

FUTURE SCOPE:

1. Integration with IOT and vehicle telematics:

By connecting real-time vehicle data to salesforce using IOT platforms, service reminders, predictive maintainance, and remote diagnostics can be automated, enhancing customer satisfaction and operational efficiency.

2. Advanced Analytics with Einstein AI

Leveraging salesforce Einstein for predictive analyitics and customer insights can help identify sales trends, optimize marketing strategies, and personalise customer engagement.

3. Mobile App for Dealers and Customers:

A custom salesforce mobile app can ampower dealers to manage test drives, leads, and follow-ups on the go. Similarly, customers can schedule services, treak vehicle deliveries, and interact with support team directly.

4. Marketing Automation:

Using tools like Marketing cloud or pardot, WhatNext Vision Motors can automate personalized campaigns, nurture leads, and improve conversion.

5. Enhanced Security and Compliance Features:

As customer data increases, features like field-level encryption, audit trails, and GDPR/DPDP compliance modules can be implemented to protect user trust.