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

1. Abstract

WhatNext Vision Motors is spearheading a strategic digital transformation through a Salesforce-powered CRM solution, tailored to redefine customer engagement and operational agility in the automotive sector. The project aims to automate critical business workflows such as vehicle ordering, stock management, dealer allocation, and test drive scheduling. By leveraging the Salesforce Lightning platform, this initiative introduces intelligent, low-code automation to streamline operations and elevate the end-user experience.

2. Project Objectives

- Streamline the end-to-end customer vehicle ordering process.
- Dynamically assign the nearest authorized dealer based on customer geolocation.
- Prevent order creation for vehicles that are currently out-of-stock.
- Automatically update order statuses based on real-time inventory data.
- Enable scheduled customer communications such as test drive reminders.
- Minimize manual interventions to improve productivity and operational efficiency.

3. Technology Stack & Implementation Framework

- Platform: Salesforce Lightning Experience
- Tools & Technologies:
- Custom Objects and Schema Builder for Data Modeling
- Record-Triggered and Scheduled Flows for Automation
- Lightning App Builder for modular UI design
- Apex Triggers and Batch Apex for business logic execution
- Reports & Dashboards for real-time insights
- Project Complexity: Medium to High
- Estimated Duration: 25+ hours across multiple sprints

4. Implementation Phases

Phase 1: Requirement Gathering & Planning

- Business Analysis: Identified pain points in dealer assignment, stock validation, and test drive coordination.
- Scope Definition: Aligned CRM goals with business KPIs.
- Data & Security Modeling: Designed ER diagrams and defined access controls via profiles and permission sets.

Phase 2: Backend Configuration & Apex Development

- Custom Object Creation: Vehicle, Dealer, Order, Test Drive
- Field Customization: Implemented key fields such as Stock Quantity, Location, Availability Status
- Validation Rules: Enforced order restrictions based on inventory status
- Automation:
- Flows: Assigned nearest dealer via record-triggered flow
- Scheduled Flows: Periodically updated order statuses based on stock
- Email Alerts: Automated reminder notifications for test drives
- Apex Programming:
- Trigger Handler for modular dealer assignment and stock verification
- Batch Apex to update stock levels and notify stakeholders
- Scheduled Apex for periodic execution of business logic

Phase 3: UI/UX Customization

- Lightning App Configuration: Custom App named 'WhatNext CRM'
- Dynamic Forms: Implemented conditional visibility for fields on Vehicle and Order objects
- Page Layouts: Customized layouts based on user roles
- Reports & Dashboards:
- Vehicle Inventory Overview
- Dealer Assignment Logs
- Customer Order Pipeline

Phase 4: Data Migration, Testing & Security Hardening

- Data Loading: Imported legacy data using Data Loader
- Data Integrity Measures: Duplicate Rules, Matching Rules, Field History Tracking
- Security Setup: Applied Role Hierarchies, Sharing Rules, and Field-Level Security
- Testing Protocols:
- Developed unit test classes with >90% code coverage
- Executed functional test cases for automation flows, triggers, and reporting components

Phase 5: Deployment Strategy & Post-Implementation Support

- Deployment: Executed via Change Sets and Post-Deployment Validation
- Maintenance & Monitoring:
- Scheduled jobs monitored via Apex Job Dashboard
- Debug Logs configured for proactive error tracking
- Documentation:
- Metadata catalog of Flows, Triggers, Reports
- Internal Wiki for future knowledge transfer

5. Real-World Use Case Demonstrations

Scenario: Customer in San Jose places an order

Expected Behavior: Nearest dealer in San Jose is automatically assigned

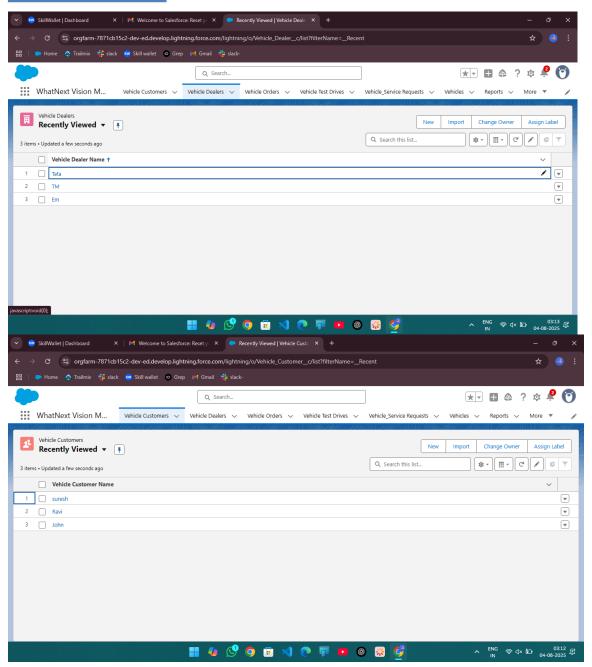
Scenario: Ordered vehicle is out of stock

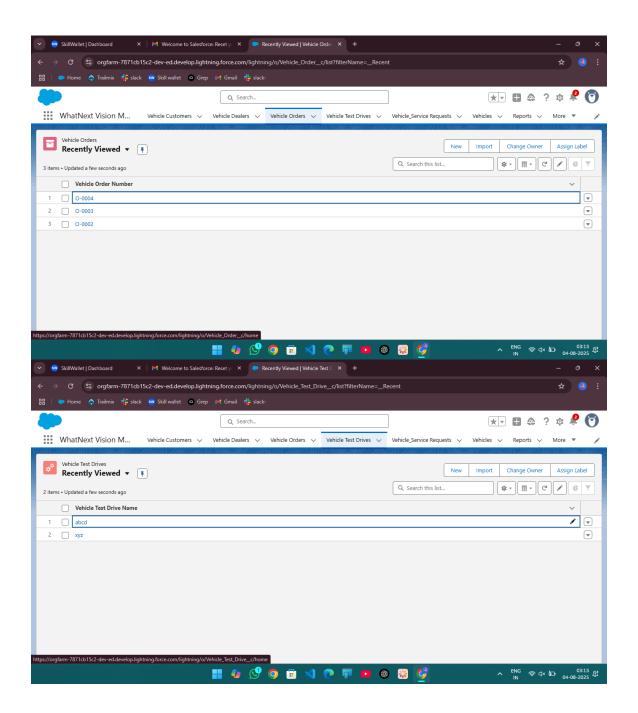
Expected Behavior: System sets status to 'Pending' and blocks order submission

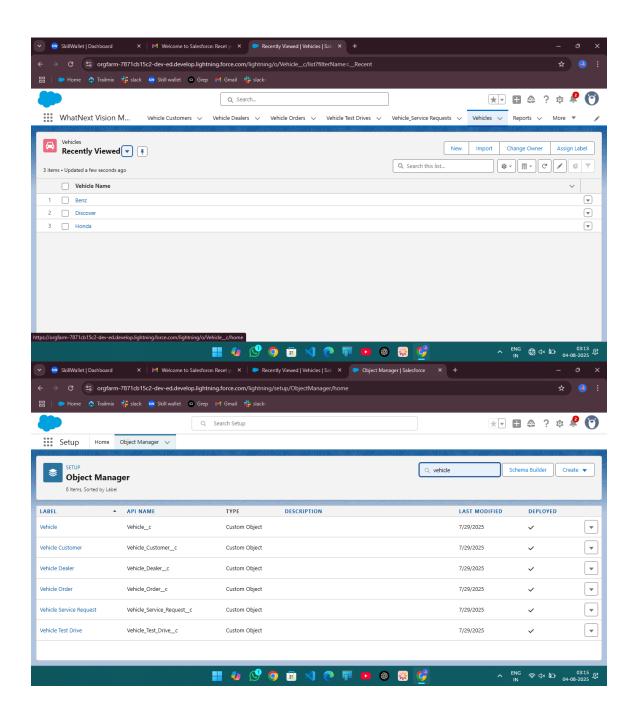
Scenario: Test drive scheduled for a customer

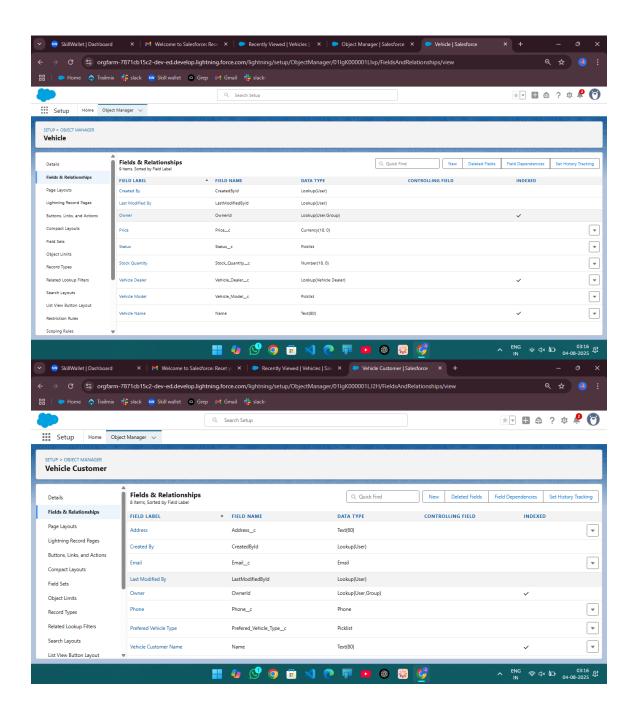
Expected Behavior: Reminder email dispatched 24 hours before appointment

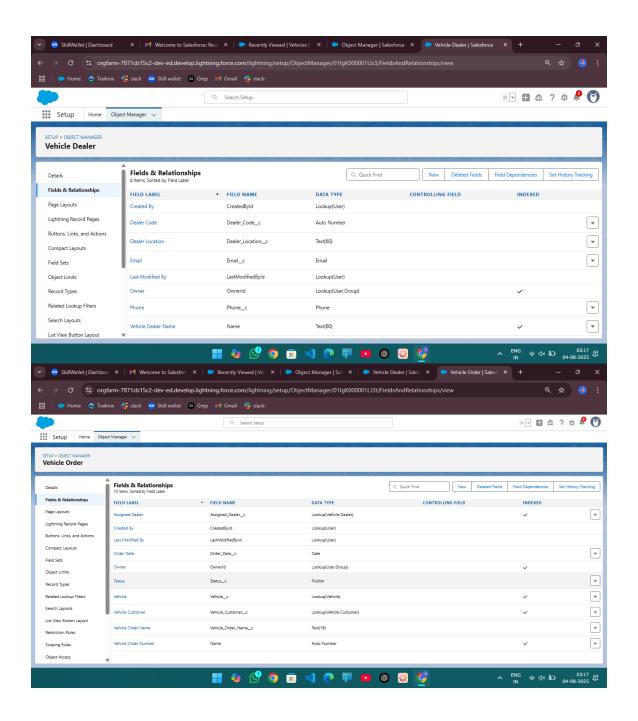
Screen Shots:

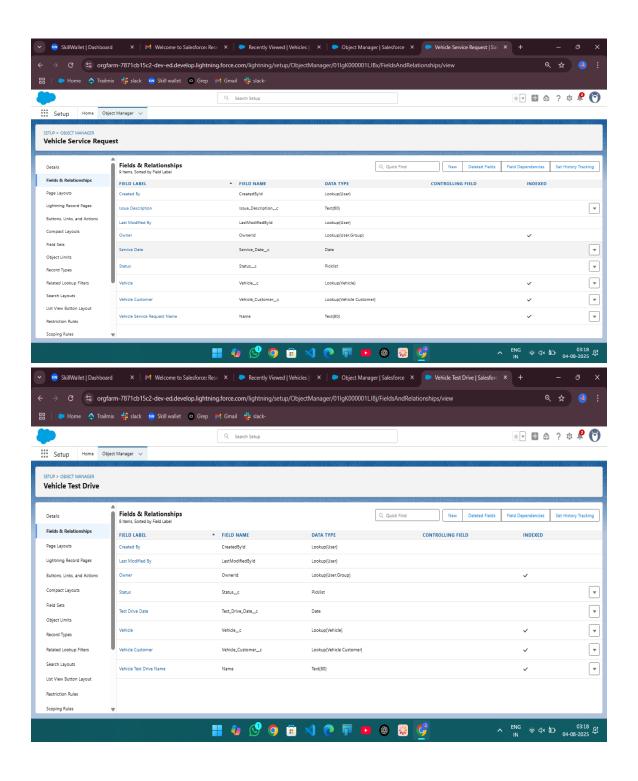


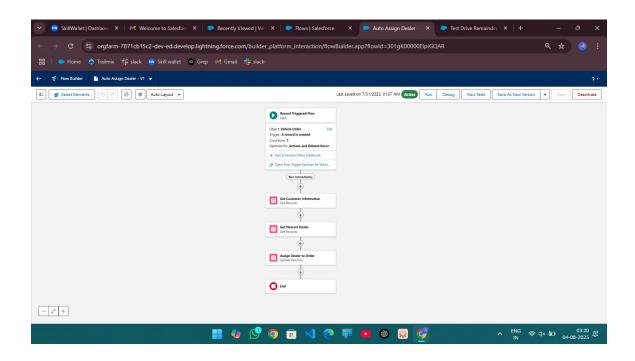


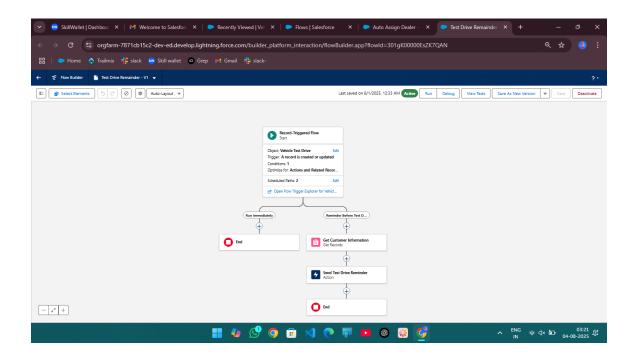












6. Future Roadmap

- AI-Driven Dealer and Vehicle Recommendations
- Salesforce Mobile App Integration for field agents
- Chatbot Enablement via Einstein Bots for customer queries

- Predictive Analytics for Inventory Forecasting
- Automated Feedback Capture and Sentiment Analysis

7. Conclusion

The Salesforce CRM deployment at WhatNext Vision Motors delivers a high-impact, scalable, and intelligent system that seamlessly integrates backend logic with a user-centric interface. This initiative not only enhances real-time operational transparency but also strengthens customer trust and business responsiveness. By embedding automation at the core of the order lifecycle, the solution positions the organization for long-term digital agility.