Allen Benedict O. Endaya BSIT 4-1
PUP-STC

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

WhatNext Vision Motors is enhancing both its customer service capabilities and internal operational efficiency through the implementation of a robust Salesforce CRM ecosystem. The system optimizes the vehicle purchasing workflow by automatically assigning customer orders to the nearest dealership based on geographic proximity and preventing transactions for units that are no longer in stock. Automated processes maintain accurate, real-time order status updates and generate reminder emails prior to scheduled test-drive appointments. The platform's functionality is supported by Apex triggers to enforce inventory rules, Batch Apex for routine stock validation, and Scheduled Apex for autonomous processing of pending orders. Collectively, these advancements improve customer satisfaction, minimize ordering inaccuracies, and streamline day-to-day dealership operations.

System Requirements & Functional Highlights:

Salesforce CRM Core Setup

- Maintain comprehensive and up-to-date records of all vehicles, inventory levels, and dealership branch information.
- Efficiently document and monitor customer transactions, scheduled test drives, and service-related inquiries.
- Automatically assign customer orders to the dealership geographically closest to the customer's location.

Business Process Automation

- Prevent order submissions when the selected vehicle is out of stock.
- Initiate automated dealership assignment based on the customer's address or location data.
- Dispatch scheduled email notifications to provide timely reminders for upcoming test-drive appointments.

Apex Development & Trigger Logic

- Utilize Apex triggers to enforce critical business rules, including inventory validation and automated order routing.
- Adopt a structured trigger handler architecture to promote clean, scalable, and easily maintainable code.

Batch & Scheduled Processes

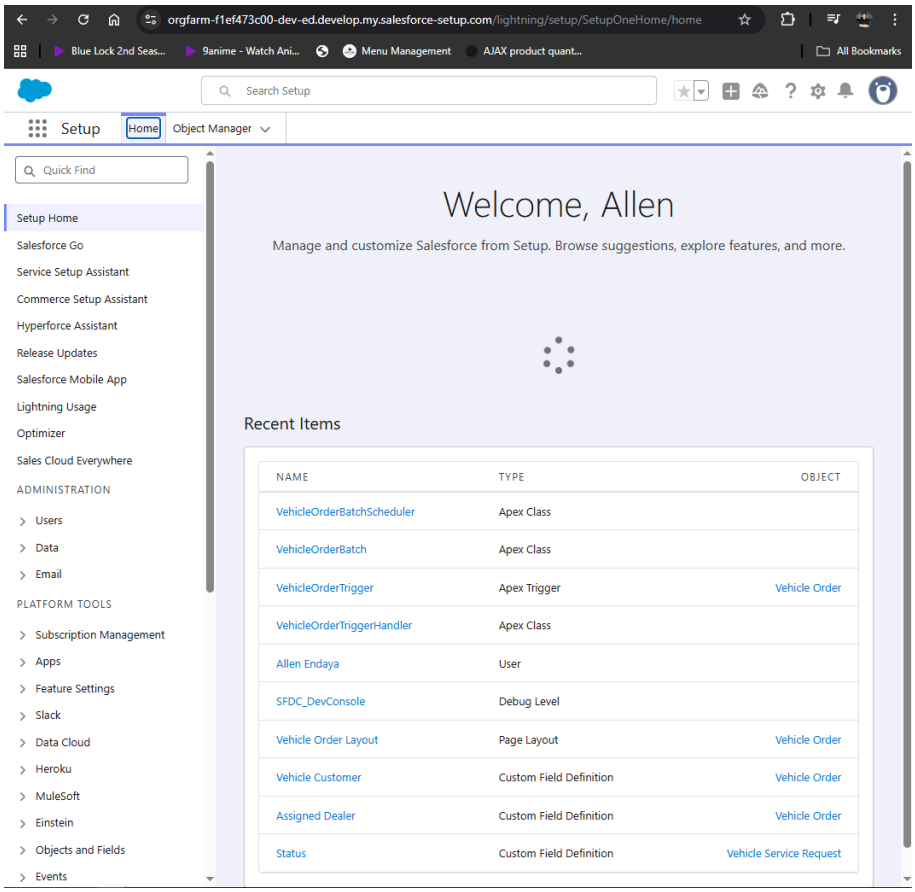
- Employ Batch Apex to regularly monitor inventory levels and update vehicle availability records.
- Utilize Scheduled Apex to automate routine stock updates and facilitate order-related notifications.

What you'll learn:

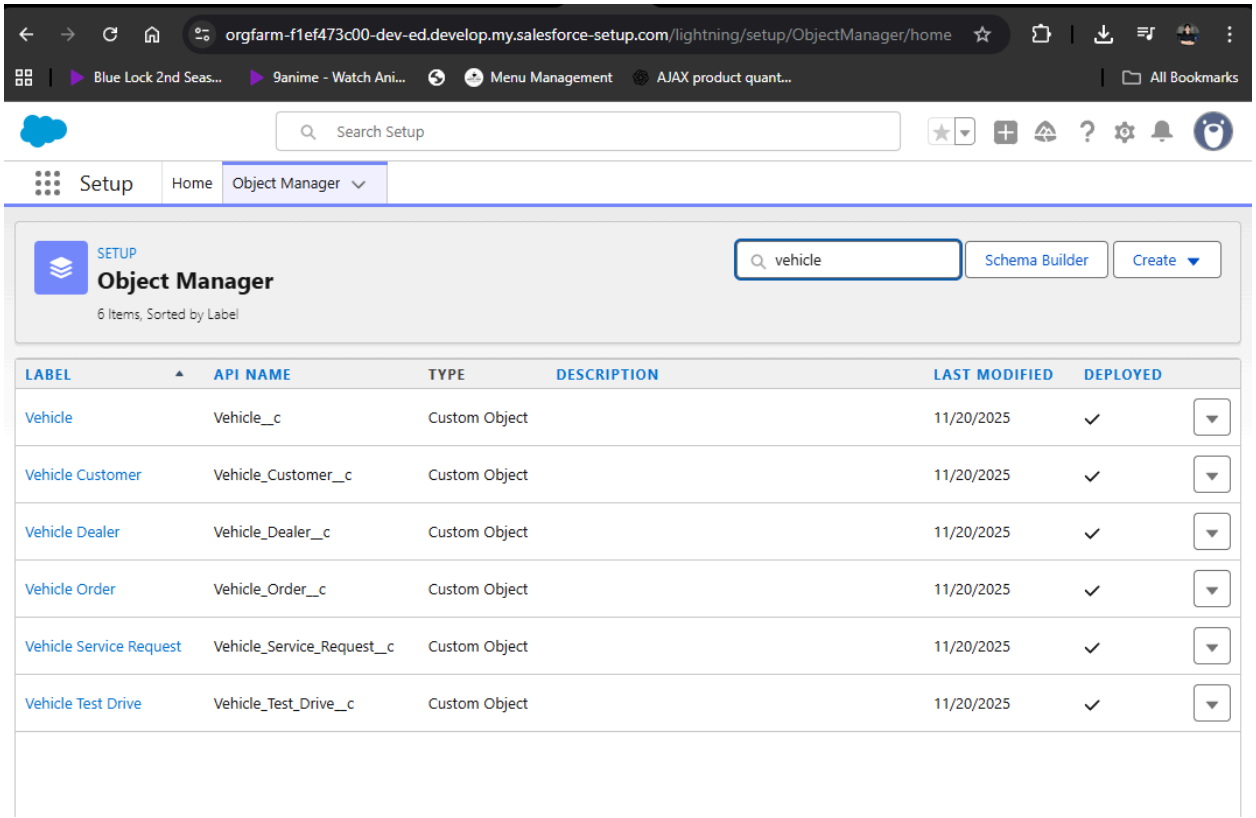
1. Data Modelling
2. Fields and Relationships
3. Lightning App Builder
4. Record Triggered Flows
5. Apex and Apex Triggers
6. Batch Apex
7. Scheduled Apex

Project Progress

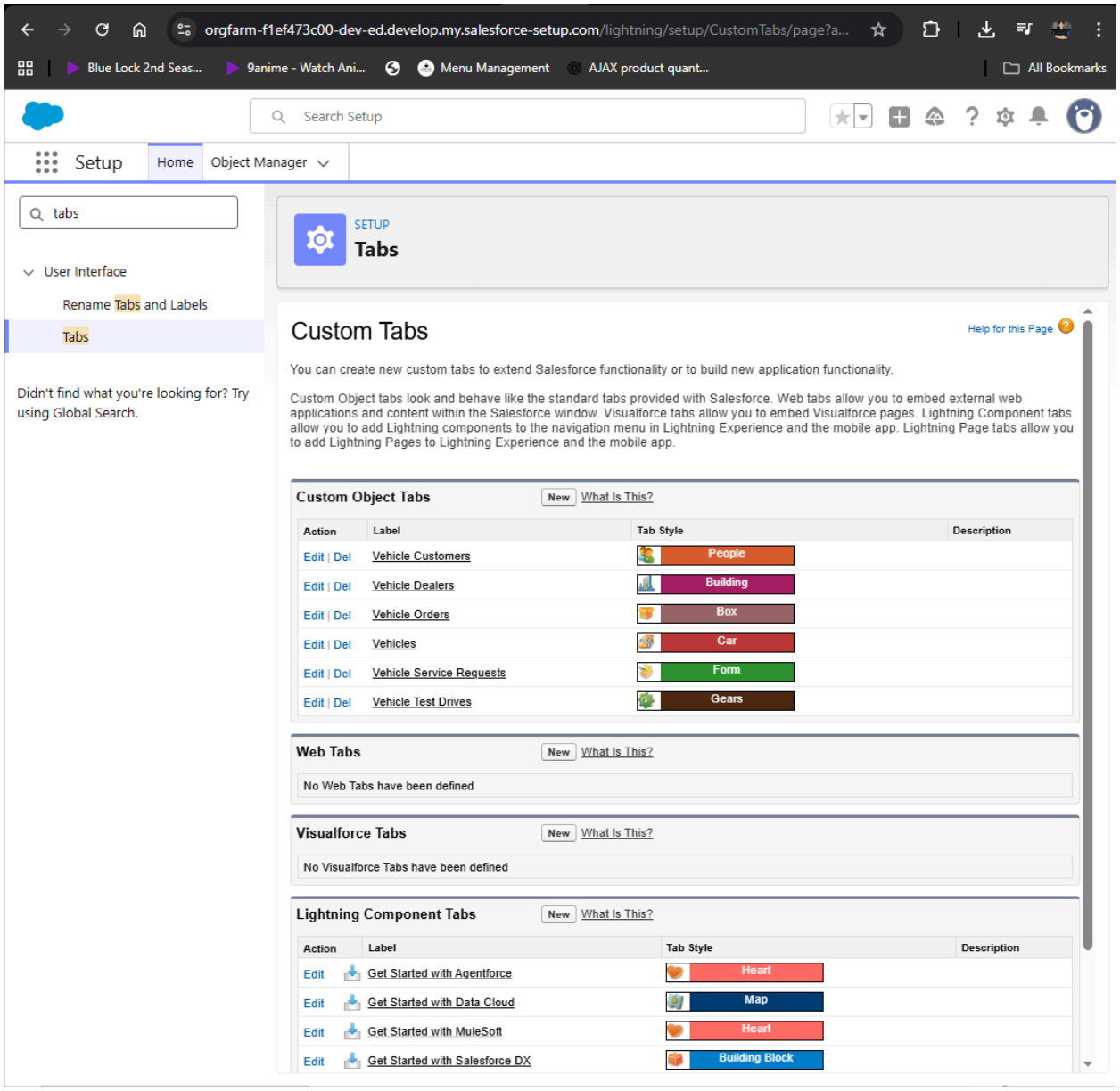
Salesforce Credentials Creation



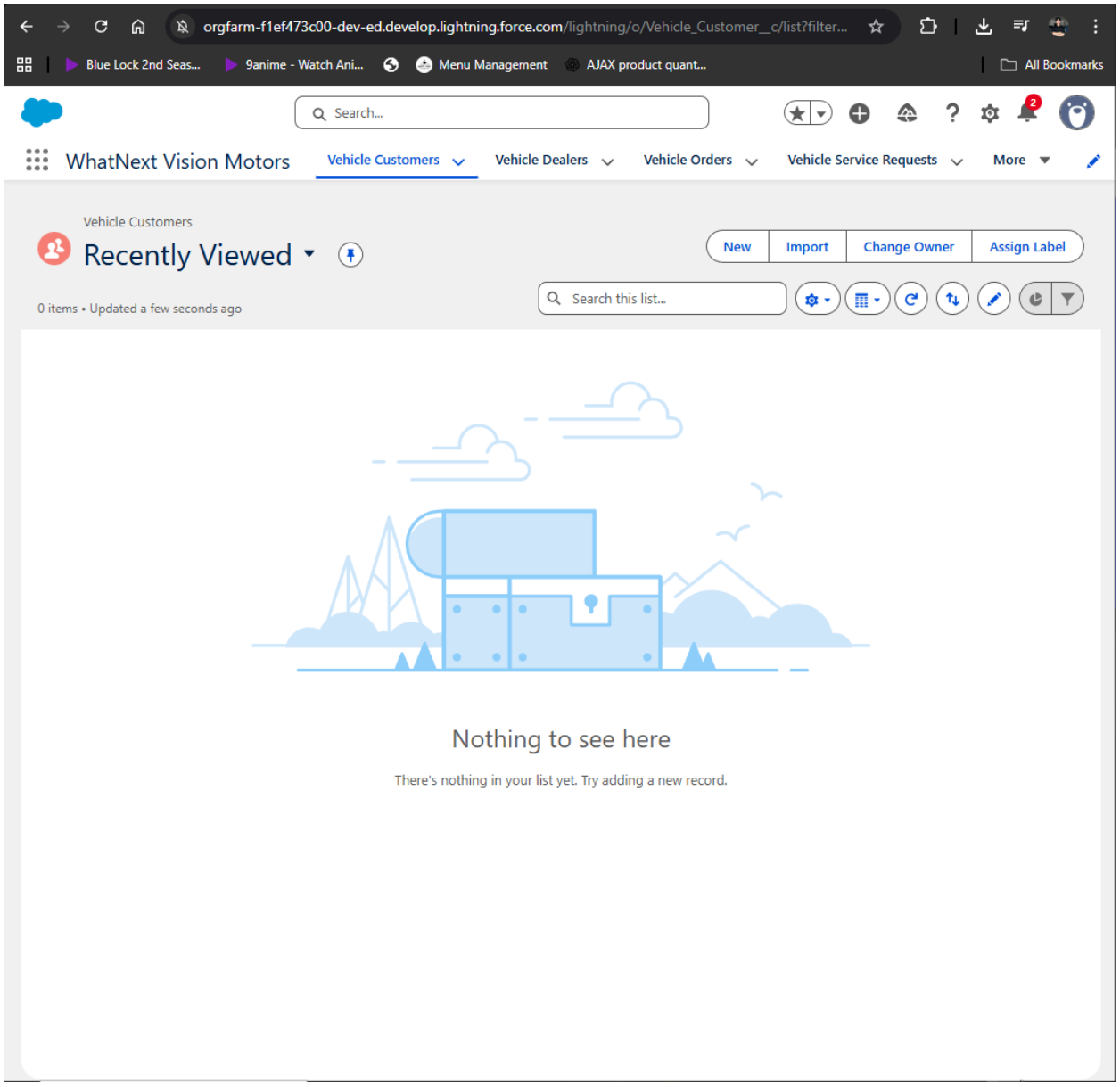
Data Management Object



Data Management-Table

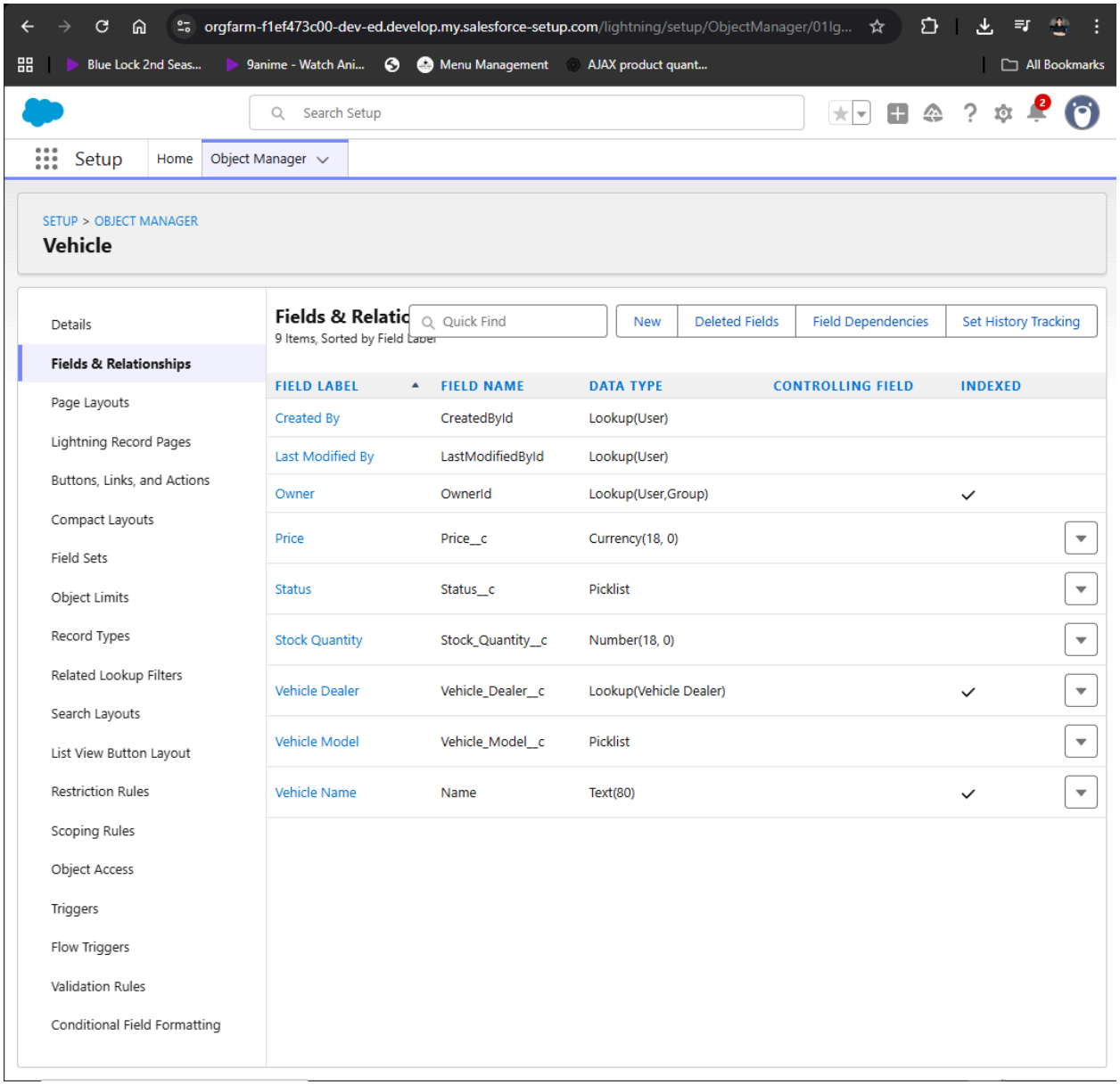


Data-Management-App Manager

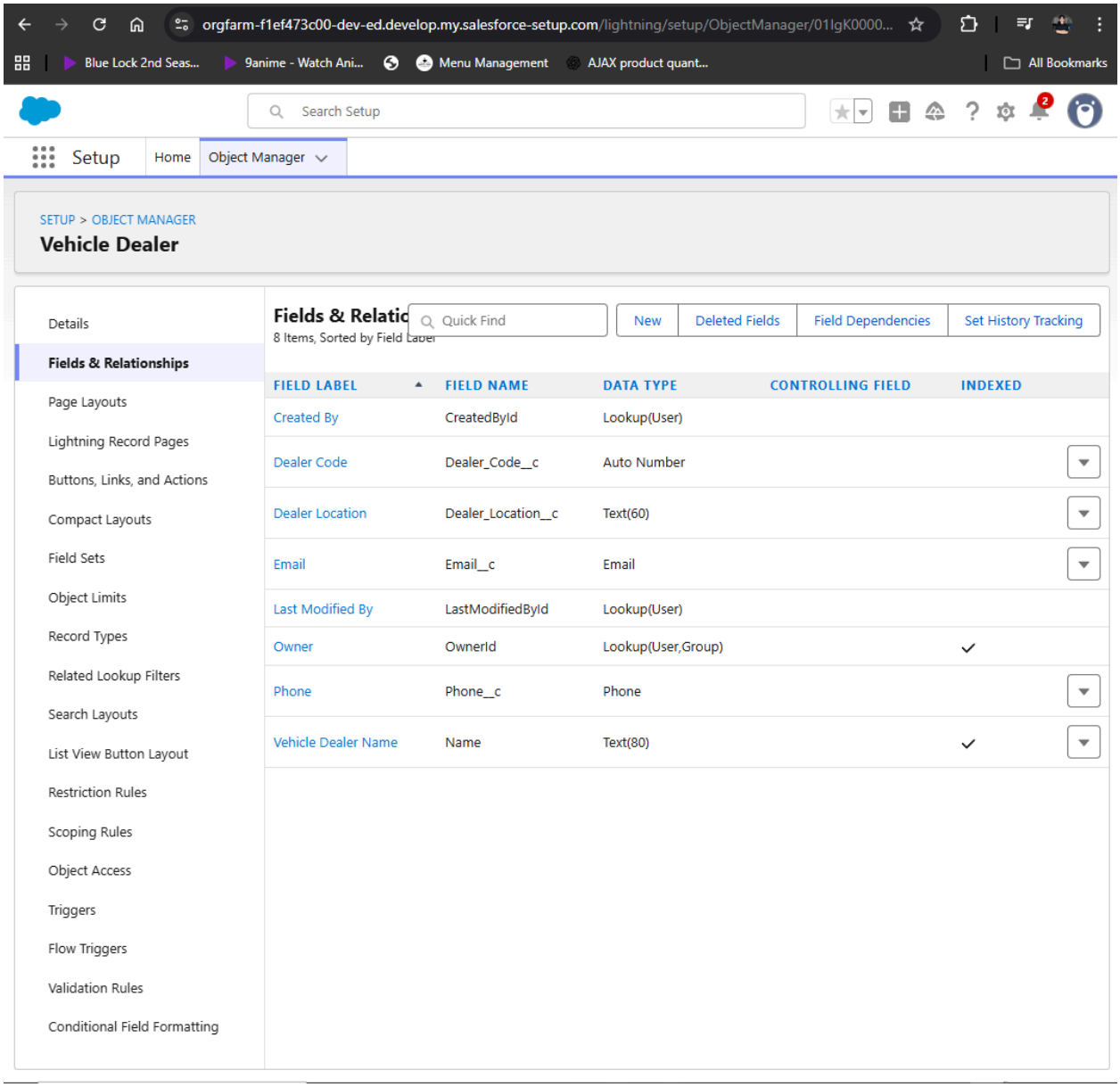


Data Management-Fields

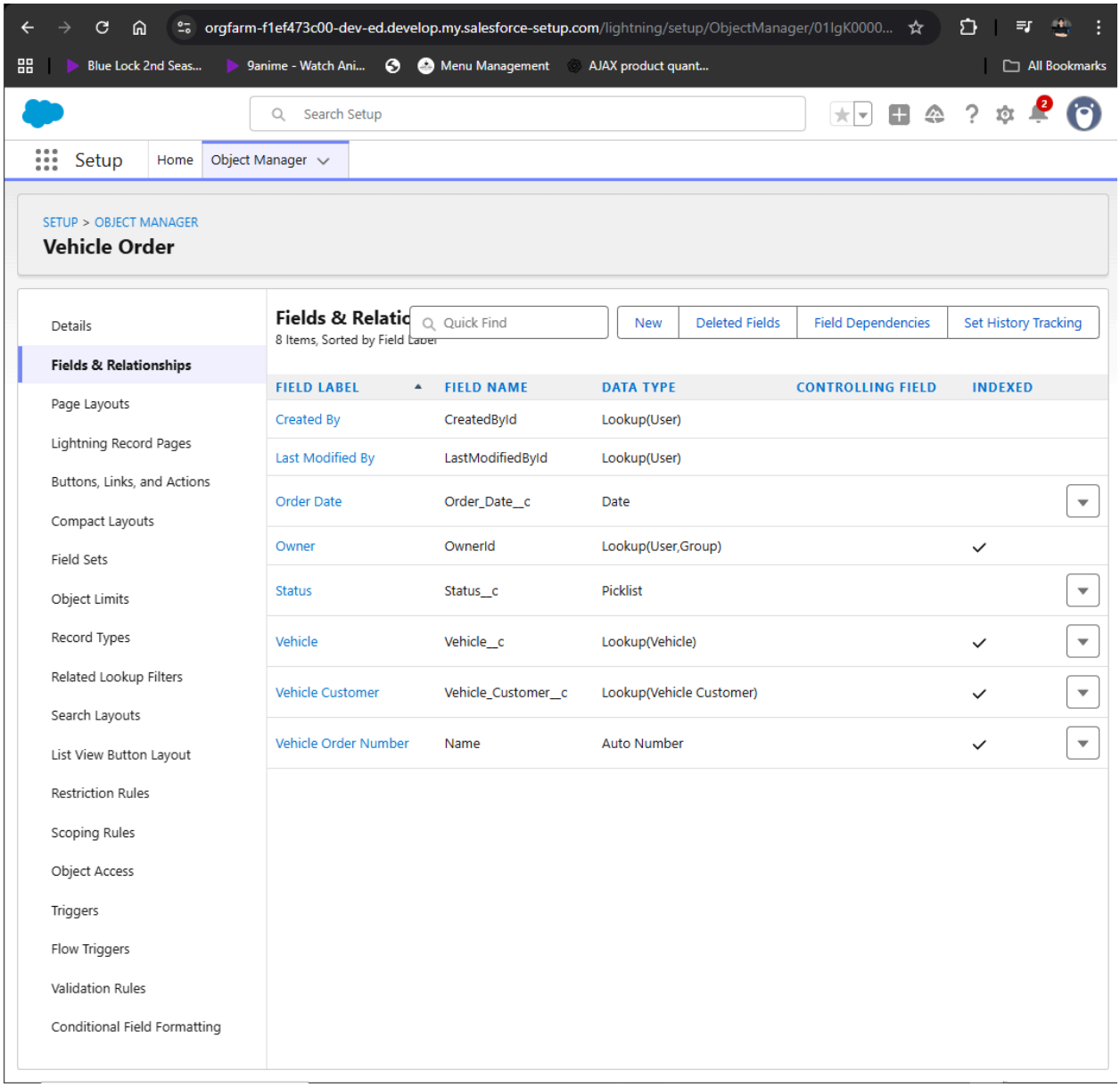
Vehicle Data Management-Fields



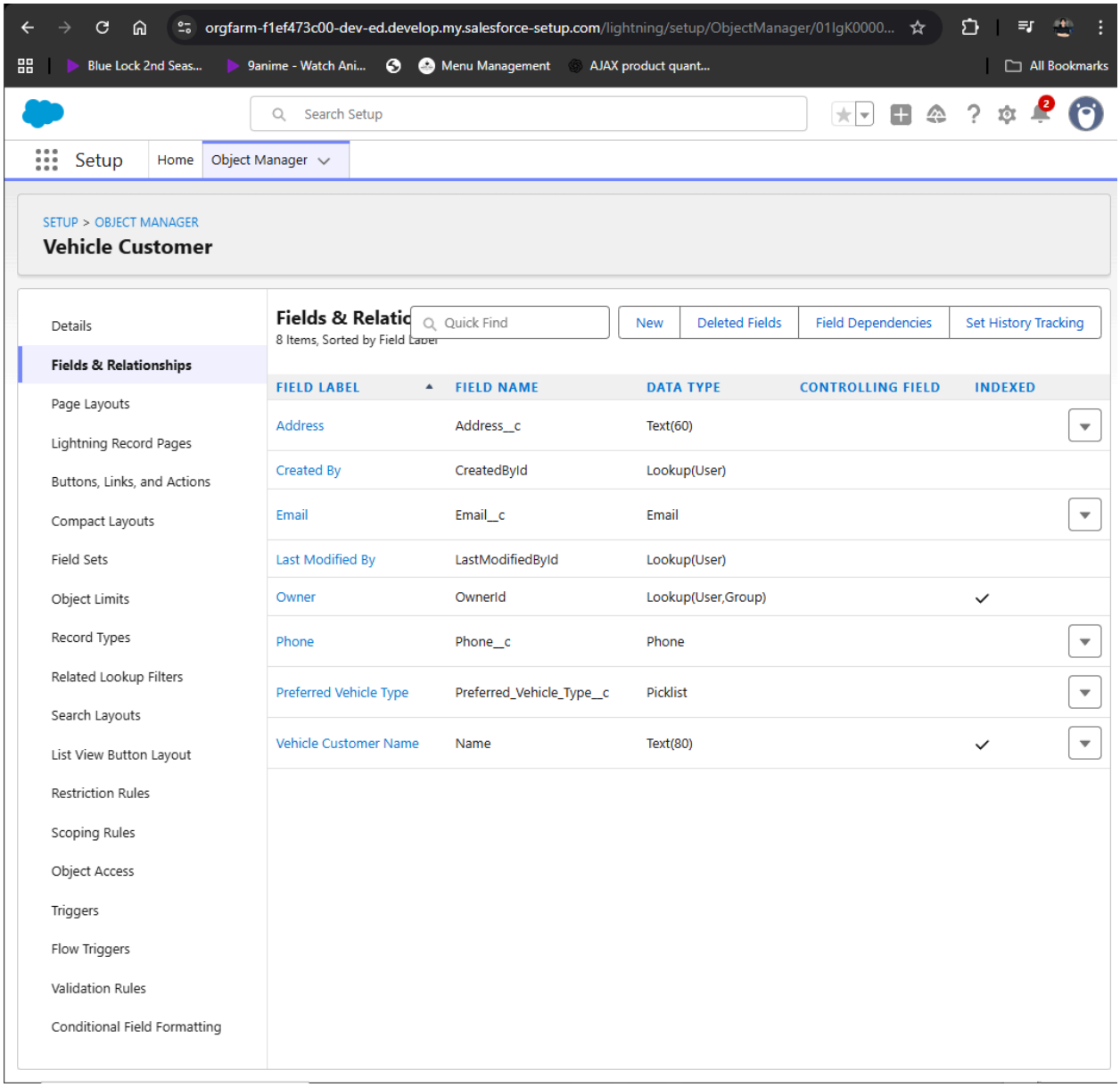
Vehicle Dealer Data Management-Fields



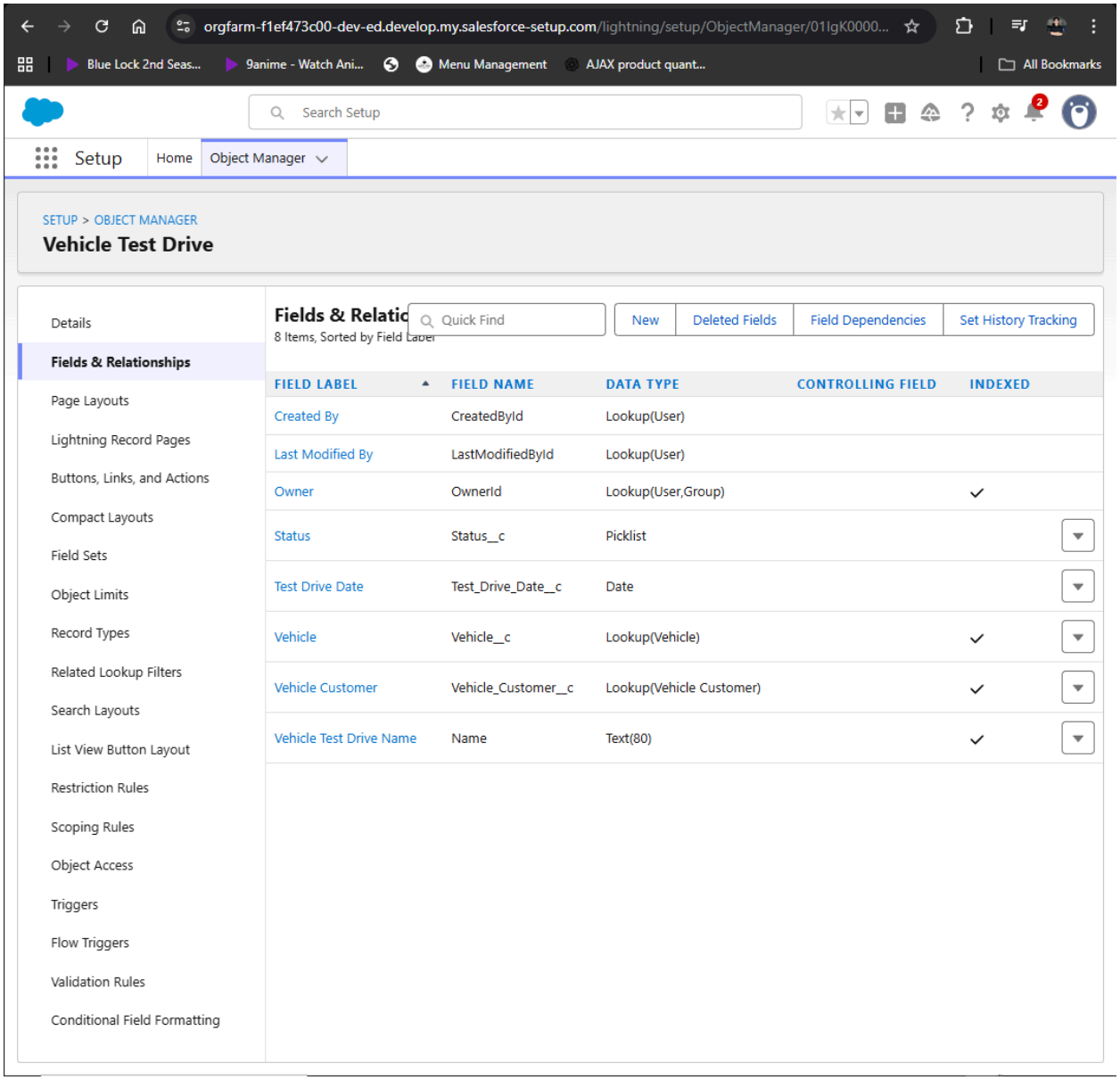
Vehicle Order Data Management-Fields



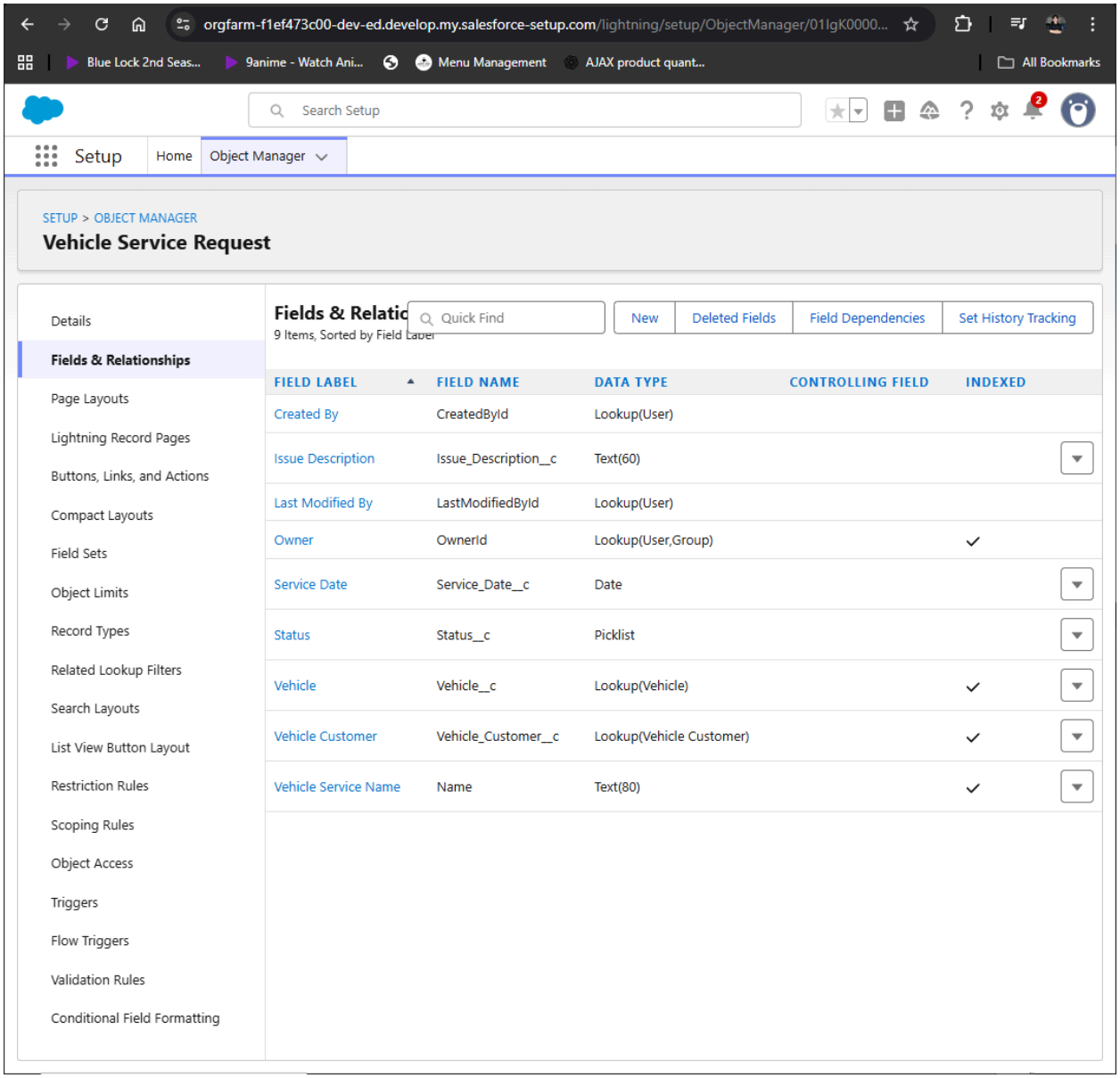
Vehicle Customer Data Management-Fields



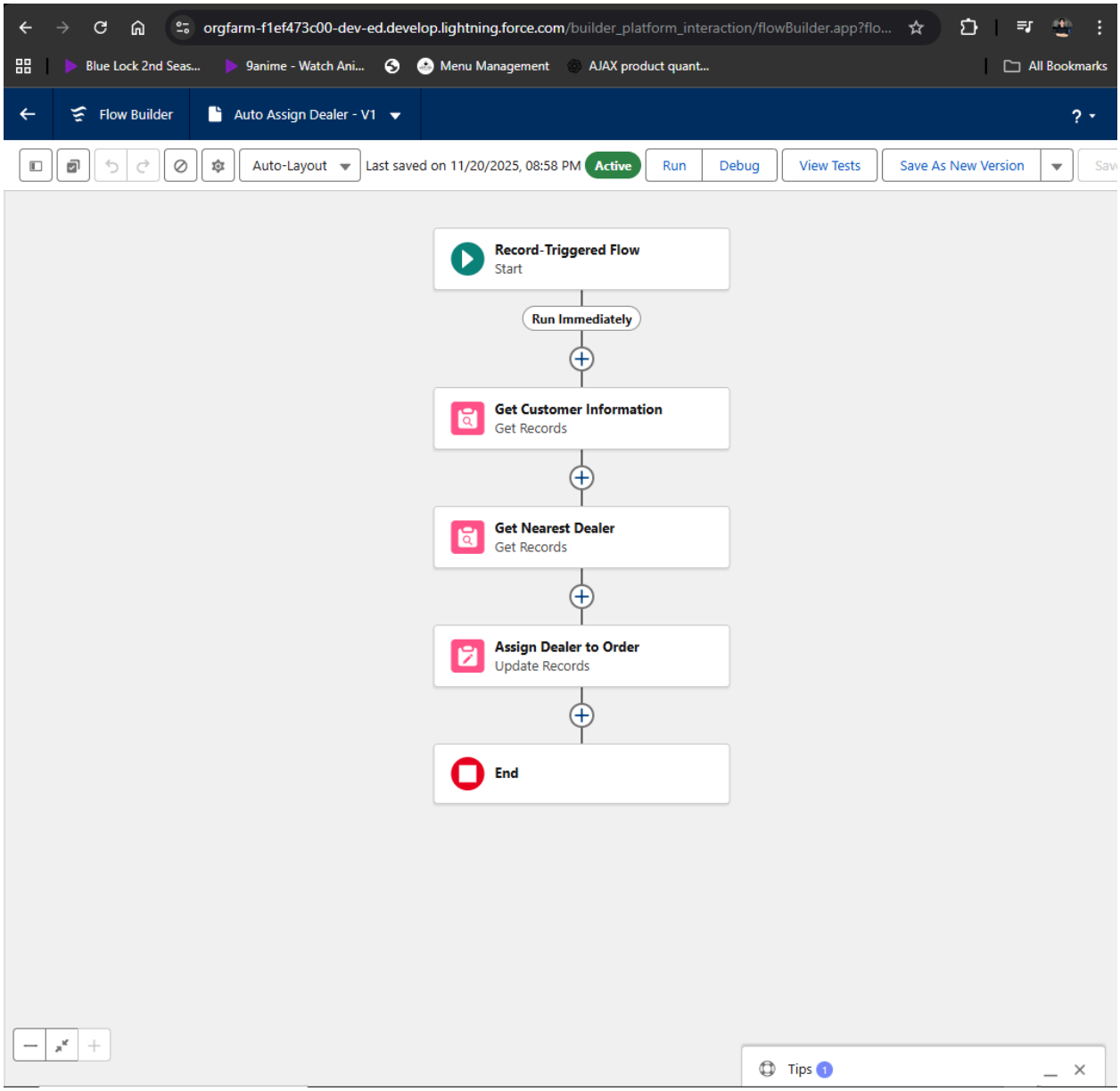
Vehicle Test Drive Data Management-Fields

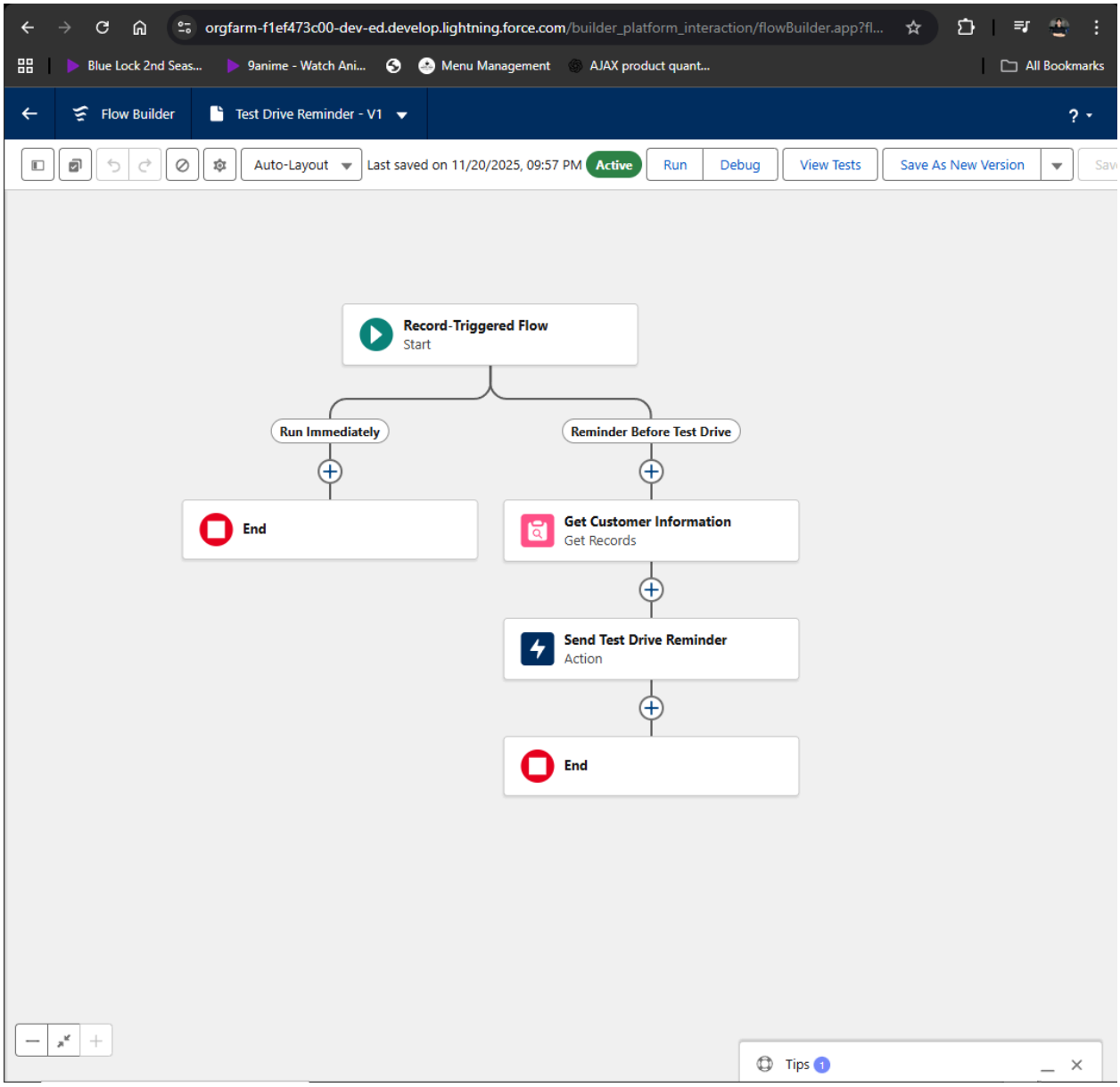


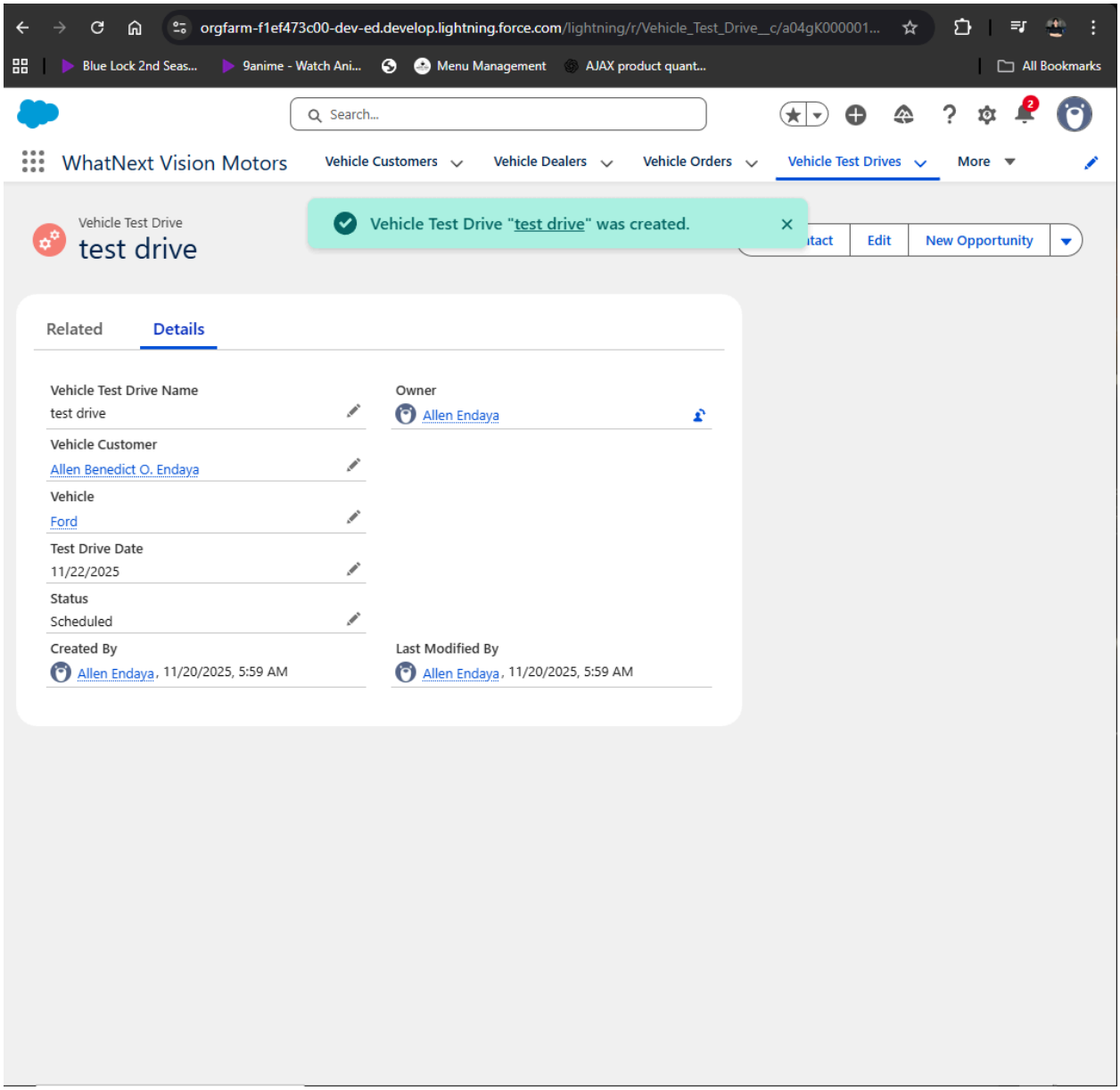
Vehicle Service Request Data Management-Fields



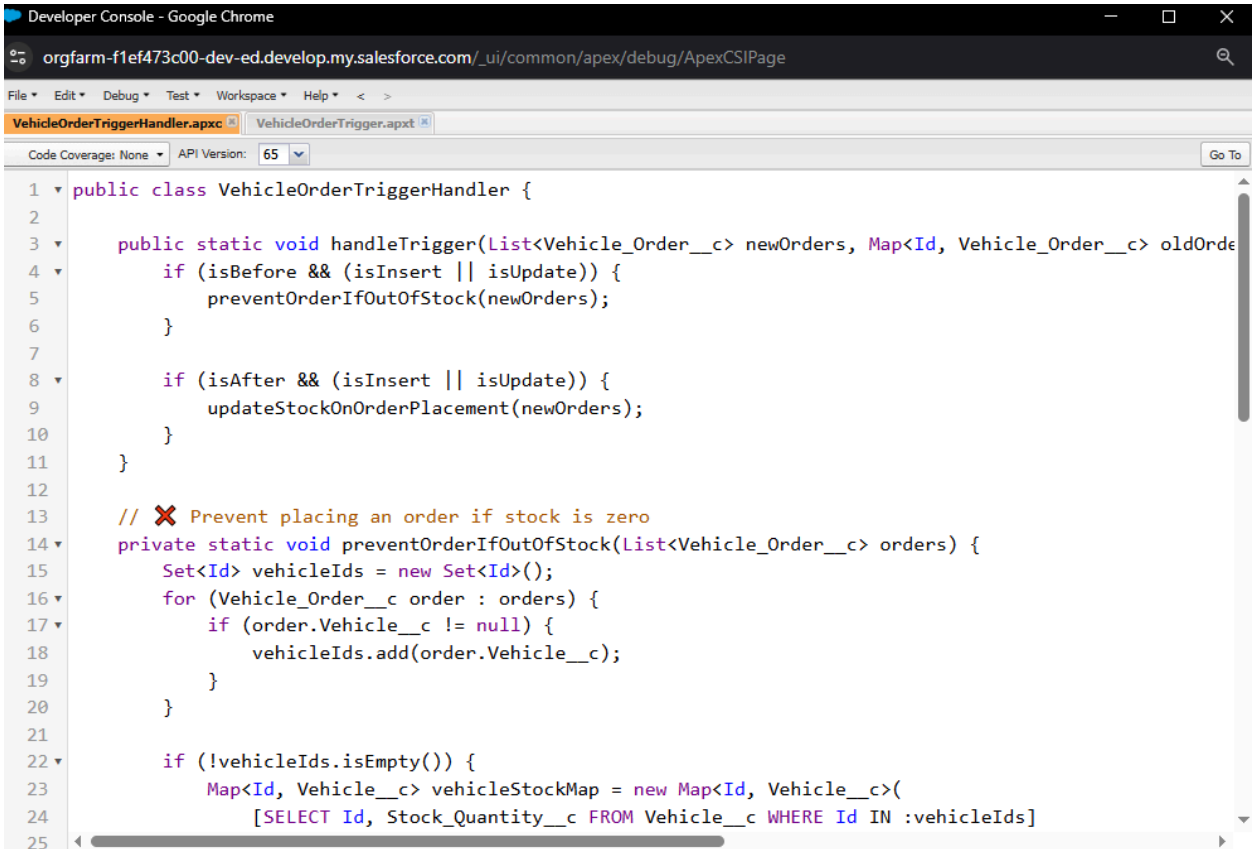
Automation

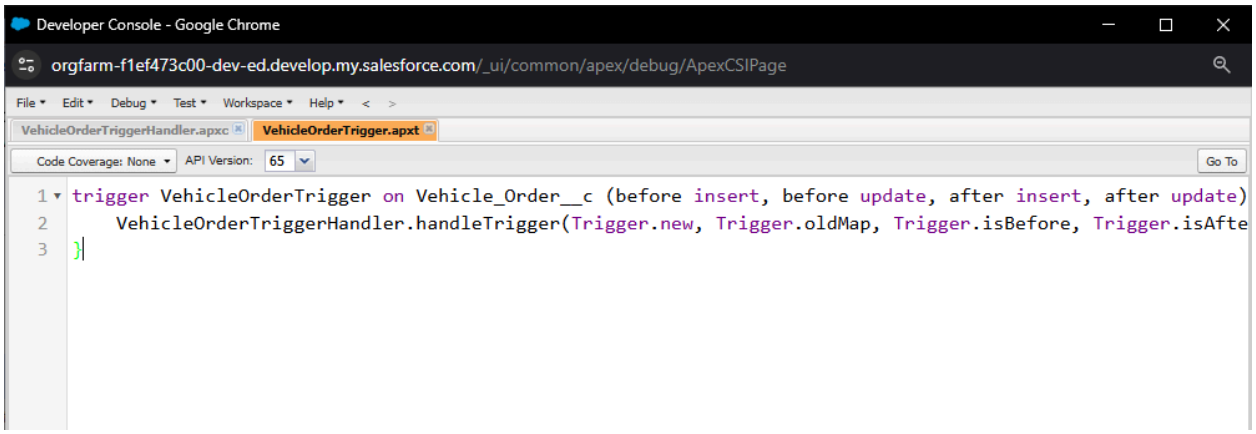

orgfarm-f1ef473c00-dev-ed.develop.lightning.force.com/builder_platform_interaction/flowBuilder.app?flo...
Blue Lock 2nd Seas...
9anime - Watch Ani...
Menu Management
AJAX product quant...
All Bookmarks
Flow Builder
Auto Assign Dealer - V1
Auto-Layout
Last saved on 11/20/2025, 08:58 PM
Active
Run
Debug
View Tests
Save As New Version
Record-Triggered Flow
Start
Run Immediately
Get Customer Information
Get Records
Get Nearest Dealer
Get Records
Assign Dealer to Order
Update Records
End
Tips

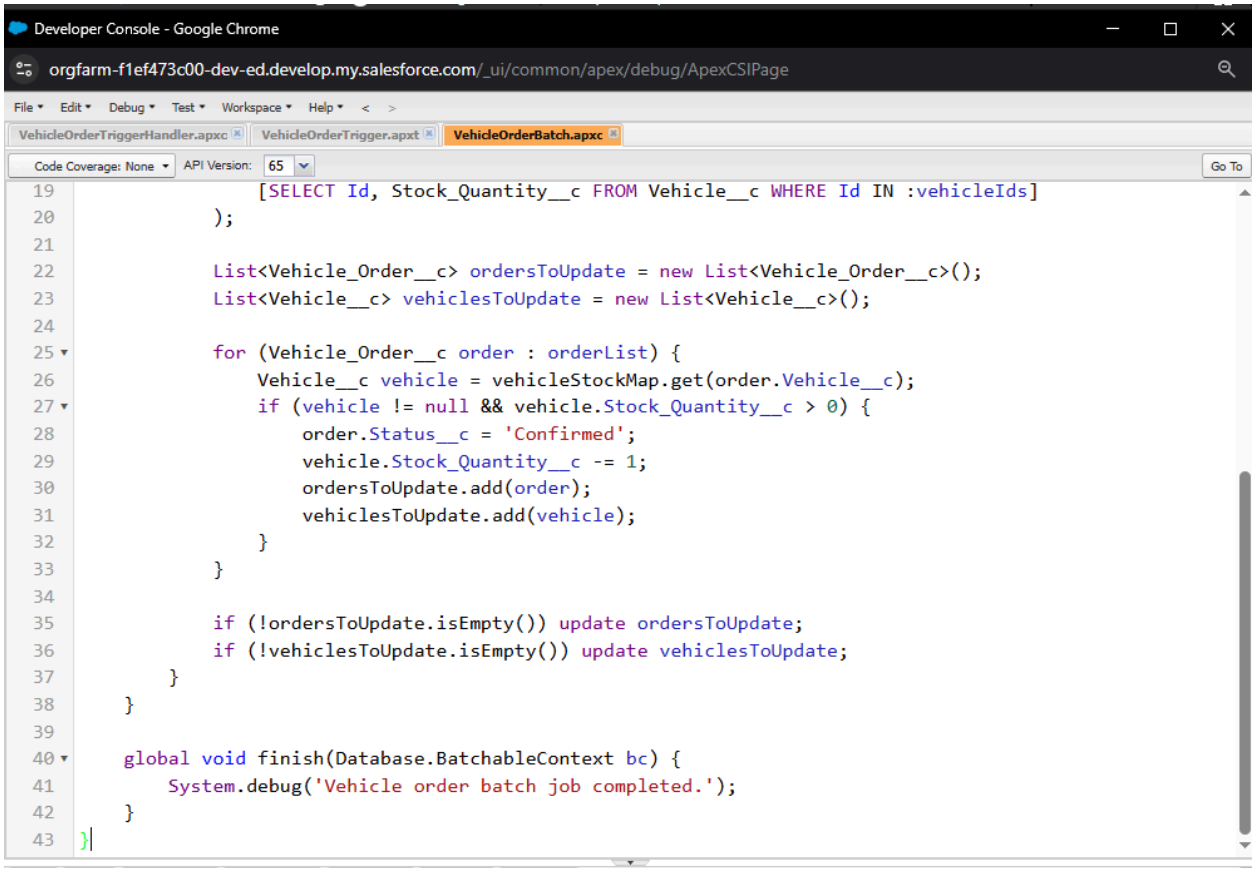

orgfarm-f1ef473c00-dev-ed.develop.lightning.force.com/builder_platform_interaction/flowBuilder.app?fl...
Blue Lock 2nd Seas...
9anime - Watch Ani...
Menu Management
AJAX product quant...
All Bookmarks
Flow Builder
Test Drive Reminder - V1
Auto-Layout
Last saved on 11/20/2025, 09:57 PM
Active
Run
Debug
View Tests
Save As New Version
Record-Triggered Flow
Start
Run Immediately
Reminder Before Test Drive
End
Get Customer Information
Get Records
Send Test Drive Reminder
Action
End
Tips

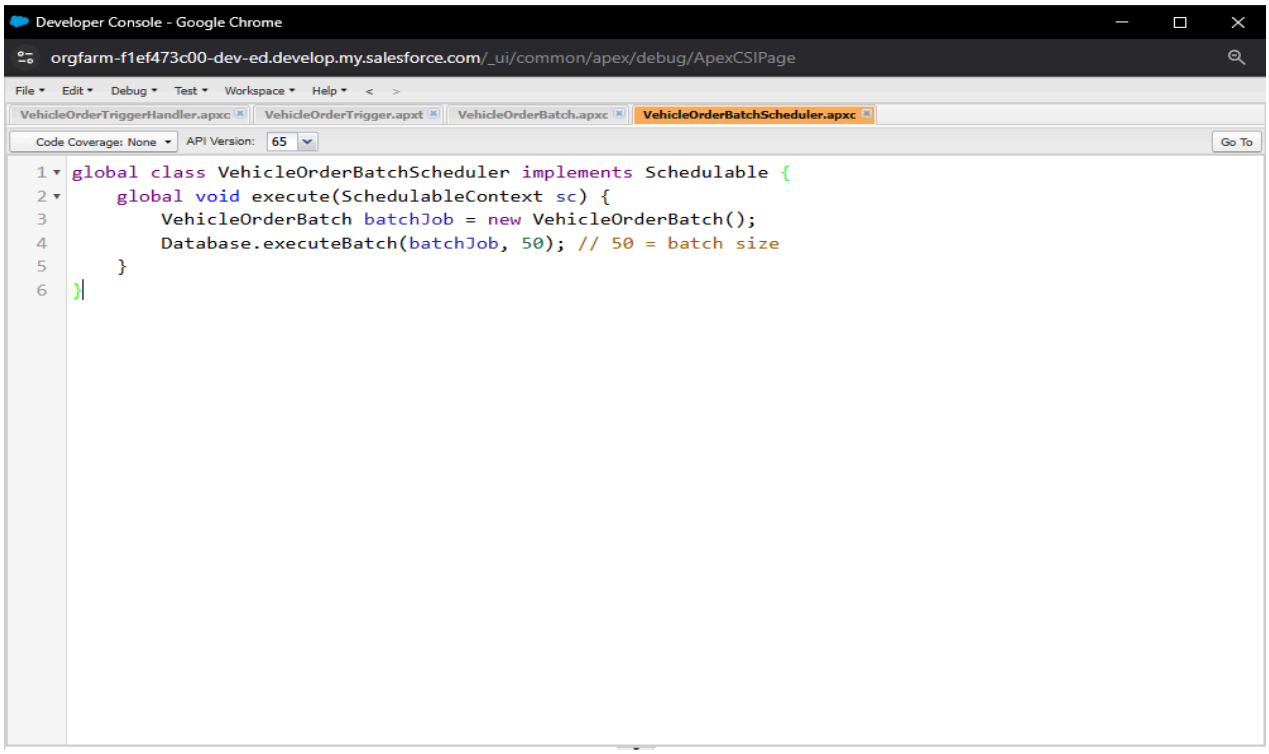

orgfarm-f1ef473c00-dev-ed.develop.lightning.force.com/lightning/r/Vehicle_Test_Drive__c/a04gK000001...
Blue Lock 2nd Seas...
9anime - Watch Ani...
Menu Management
AJAX product quant...
All Bookmarks
Search...
WhatNext Vision Motors
Vehicle Customers
Vehicle Dealers
Vehicle Orders
Vehicle Test Drives
More
Vehicle Test Drive
test drive
Vehicle Test Drive "test drive" was created.
Edit
New Opportunity
Related
Details
Vehicle Test Drive Name
test drive
Owner
Allen Endaya
Vehicle Customer
Allen Benedict O. Endaya
Vehicle
Ford
Test Drive Date
11/22/2025
Status
Scheduled
Created By
Allen Endaya, 11/20/2025, 5:59 AM
Last Modified By
Allen Endaya, 11/20/2025, 5:59 AM

Apex and Batch Class






Developer Console - Google Chrome
orgfarm-f1ef473c00-dev-ed.develop.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage
File Edit Debug Test Workspace Help
VehicleOrderTriggerHandler.apxc
VehicleOrderTrigger.apxt
VehicleOrderBatch.apxc
Code Coverage: None
API Version: 65
Go To
[SELECT Id, Stock_Quantity__c FROM Vehicle__c WHERE Id IN :vehicleIds]
);
List<Vehicle_Order__c> ordersToUpdate = new List<Vehicle_Order__c>();
List<Vehicle__c> vehiclesToUpdate = new List<Vehicle__c>();
for (Vehicle_Order__c order : orderList) {
Vehicle__c vehicle = vehicleStockMap.get(order.Vehicle__c);
if (vehicle != null && vehicle.Stock_Quantity__c > 0) {
order.Status__c = 'Confirmed';
vehicle.Stock_Quantity__c -= 1;
ordersToUpdate.add(order);
vehiclesToUpdate.add(vehicle);
}
}
if (!ordersToUpdate.isEmpty()) update ordersToUpdate;
if (!vehiclesToUpdate.isEmpty()) update vehiclesToUpdate;
}
}
global void finish(Database.BatchableContext bc) {
System.debug('Vehicle order batch job completed.');
}
}


Developer Console - Google Chrome
orgfarm-f1ef473c00-dev-ed.develop.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage
File Edit Debug Test Workspace Help
VehicleOrderTriggerHandler.apxc
VehicleOrderTrigger.apxt
VehicleOrderBatch.apxc
VehicleOrderBatchScheduler.apxc
Code Coverage: None
API Version: 65
Go To
global class VehicleOrderBatchScheduler implements Schedulable {
global void execute(SchedulableContext sc) {
VehicleOrderBatch batchJob = new VehicleOrderBatch();
Database.executeBatch(batchJob, 50); // 50 = batch size
}
}