

## Sales Automobile Using Salesforce CRM

### **Team Members:**

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## **1. Project Overview:**

This project involves the development and customization of Salesforce CRM for managing the entire automobile sales process. The solution will enable streamlined sales operations, from lead management to the creation of invoices. The main features will include the creation of custom objects for automobile information, invoice management, and the automation of key processes such as opportunity and invoice handling.

The objective is to enhance the sales process by leveraging Salesforce's robust tools, including creating objects, fields, custom tabs, Apex triggers, Lightning Web Components (LWC), and more. This will help to manage customer accounts, automobile data, invoices, and related sales activities efficiently.

## **2. Objective:**

The objectives for the Sales Automobile Using Salesforce CRM project are clearly defined to ensure measurable

success and alignment with both business and technical goals. These objectives guide the development process and ensure the solution will meet the needs of the business, sales teams, and customers.

The business goals of the Sales Automobile Using Salesforce CRM project are to streamline and optimize the entire sales process, from lead generation to invoice creation, by leveraging Salesforce's powerful CRM capabilities. The project aims to increase sales efficiency by automating key processes, enhance customer engagement through a 360-degree view of customer data, and improve data accuracy for better decision-making. Additionally, the solution seeks to optimize inventory management by providing real-time visibility into stock levels and sales trends, accelerate invoice processing for faster revenue realization, and drive business growth by enabling better tracking, reporting, and forecasting of sales performance. The specific outcomes of the Sales Automobile Using Salesforce CRM project include the creation of custom objects and fields for managing automobile inventory, sales opportunities, and invoices, which will be fully integrated into the Salesforce platform. The project will deliver automation through Apex triggers

and workflows to streamline sales processes, from generating invoices to tracking opportunity quantities. Custom tabs and page layouts will be developed to improve user experience, while the Salesforce Lightning App and Lightning Web Components (LWC) will enhance accessibility and interactivity across devices. Additionally, comprehensive reports and dashboards will be implemented to provide realtime insights into sales performance, inventory levels, and customer interactions. This integration and automation will result in faster, more accurate data entry, improved operational efficiency, and enhanced decision-making capabilities for sales teams and management.

### **3. Salesforce Key Features and Concepts Utilized:**

#### **○ Custom Objects & Fields:**

Custom Objects like Automobile Information and Invoice store specific data related to the sales process, allowing you to track cars, pricing, and invoices in Salesforce.

#### **○ Page Layouts & Lightning Apps:**

Custom Page Layouts for Opportunities and Invoices ensure relevant information is easily accessible, while a Lightning App consolidates the interface for users to manage their workflow efficiently.

○ **Apex Triggers & Classes:**

Apex Triggers automate processes such as updating the automobile quantity in an Opportunity and creating an invoice when an Opportunity is closed, reducing manual tasks.

○ **Lightning Web Components (LWC):**

A custom LWC component displays related Invoice data on Opportunity pages, enhancing the user interface and providing real-time access to invoice details.

○ **Reports & Dashboards:**

Reports and Dashboards provide visual insights into sales performance, inventory levels, and invoice statuses, helping track business health and sales trends.

○ **Salesforce Lightning Experience:**

The **Lightning Experience** improves user productivity with an intuitive and responsive interface,

allowing users to efficiently navigate and manage automobile sales data

○ **Apex Schedulers:**

Apex Schedulers automate recurring tasks, such as sending invoice reminders or syncing data, ensuring timely actions without manual intervention.

**4. Detailed Steps to Solution Design for Automobile Sales Management in Salesforce:**

○ **Automobile Information Object:**


This object stores data related to the automobiles sold, such as make, model, year, price, and VIN.

○ **Invoice Object:**







This object holds details about invoices related to Opportunities.

○ **Automobile Object:**

This object may track additional attributes related to automobiles or individual transactions (e.g., specific inventory details).



Search Setup



SetupHomeObject Manager


SETUPObject Manager

2 Items, Sorted by Label


Q, automSchema BuilderCreate

LABEL	API NAME	TYPE	DESCRIPTION	LAST MODIFIED	DEPLOYED	
Automobile Information	Automobile_Information_c	Custom Object		16/11/2024	✓	▼
Opportunity Automobile	Opportunity_Automobile_c	Custom Object		16/11/2024	✓	▼







Q Search



ENG IN14:2918-11-2024



Search Setup



SetupHomeObject Manager

SETUPObject Manager

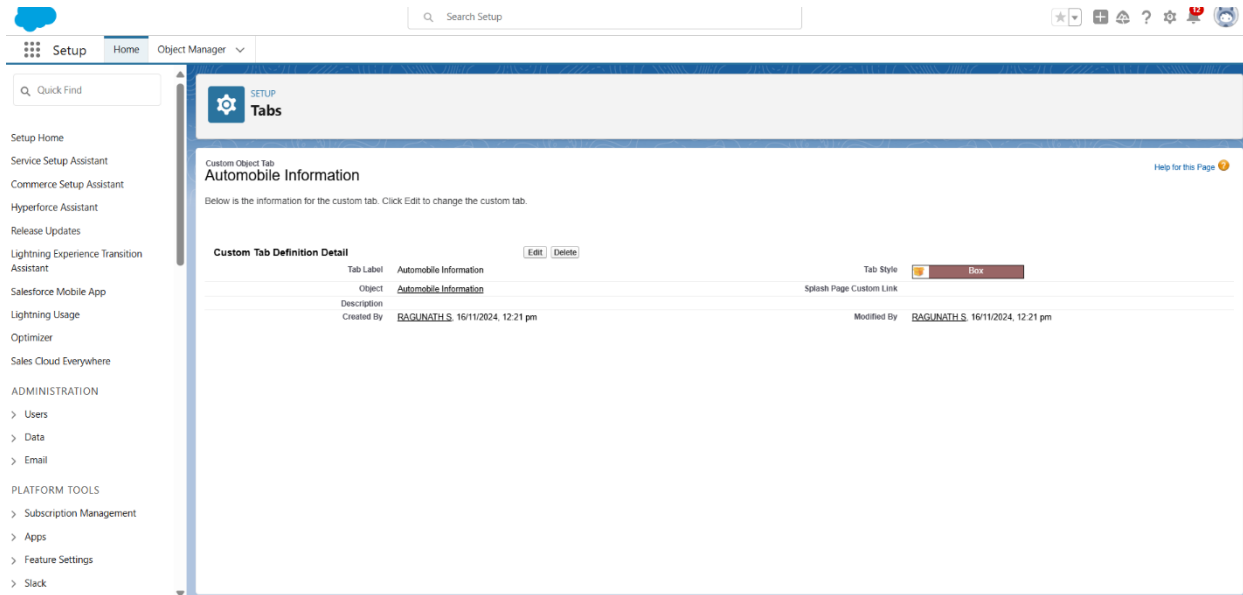
5 Items, Sorted by Label

Q, invoiceSchema BuilderCreate

LABEL	API NAME	TYPE	DESCRIPTION	LAST MODIFIED	DEPLOYED	
Credit Memo Invoice Application	CreditMemoInvApplication	Standard Object				
Invoice	Invoice_c	Custom Object		16/11/2024	✓	▼
Invoice	Invoice	Standard Object				
Invoice Line	InvoiceLine	Standard Object				
Payment Line Invoice	PaymentLineInvoice	Standard Object				

## ○ Creating a Custom Tab:

Custom object tabs are the user interface for custom applications that you build in salesforce.com. They look and behave like standard salesforce.com tabs such as accounts, contacts, and opportunities.



## ○ Lightning App

- Create a Custom Lightning App that integrates the following components:
  - Opportunity Records
  - Automobile Information records
  - Invoices related to Opportunities
- The app should include:
  - Navigation to all relevant objects (Opportunities, Automobiles, Invoices).

A dashboard to visualize Total Sales, Invoices due, Opportunity stage.



## ○ Creating Fields and Relationships:

The screenshot shows the Salesforce Setup interface for the 'Opportunity Automobile' object. The left sidebar contains a navigation menu with options like Details, Fields & Relationships (selected), Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts, List View Button Layout, Restriction Rules, Scoping Rules, Object Access, and Triggers. The main content area is titled 'Fields & Relationships' and shows a list of 8 fields. The fields are sorted by Field Label. The table has columns for FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED. The fields listed are: Automobile (Automobile\_\_c, Lookup(Automobile Information), Indexed), Created By (CreatedBy, Lookup(User)), Last Modified By (LastModifiedBy, Lookup(User)), Opportunity (Opportunity\_\_c, Master-Detail(Opportunity), Indexed), Opportunity Automobile Id (Name, Auto Number, Indexed), Quantity (Quantity\_\_c, Number(18, 0)), Total Price (Total\_Price\_\_c, Formula (Currency)), and Unit Price (Unit\_Price\_\_c, Formula (Currency)).

SETUP > OBJECT MANAGER

### Opportunity Automobile

Details

**Fields & Relationships**  
8 Items. Sorted by Field Label

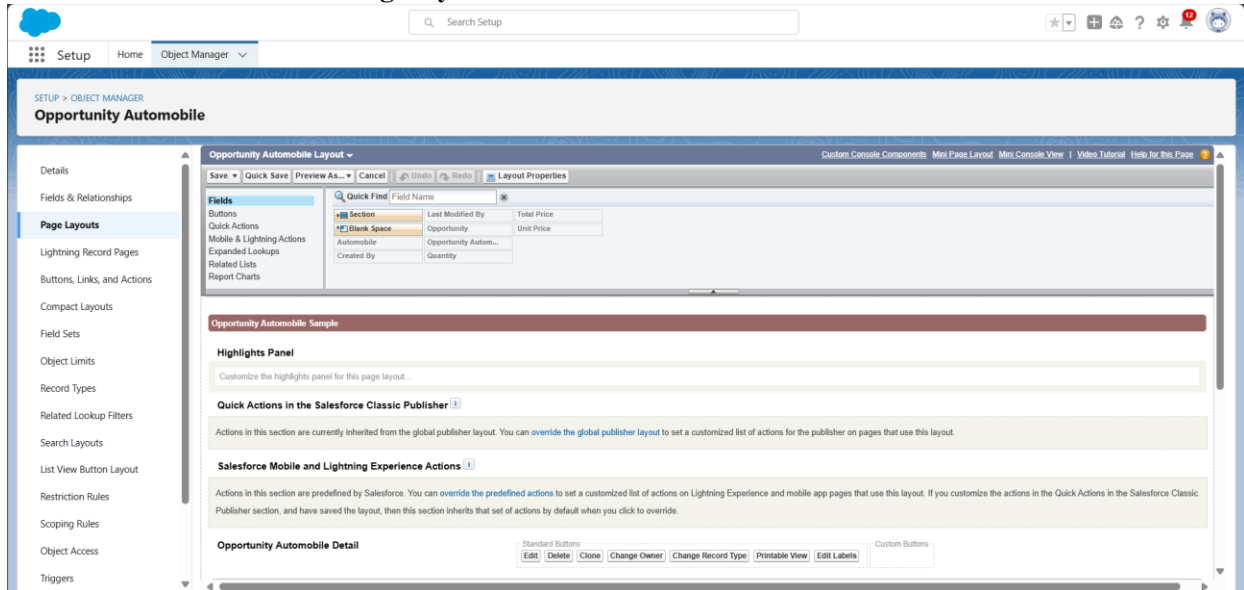
Quick Find New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Automobile	Automobile__c	Lookup(Automobile Information)		✓
Created By	CreatedBy	Lookup(User)		
Last Modified By	LastModifiedBy	Lookup(User)		
Opportunity	Opportunity__c	Master-Detail(Opportunity)		✓
Opportunity Automobile Id	Name	Auto Number		✓
Quantity	Quantity__c	Number(18, 0)		
Total Price	Total_Price__c	Formula (Currency)		
Unit Price	Unit_Price__c	Formula (Currency)		

## Page Layouts:

Page Layout in Salesforce allows us to customize the design and organize detail and edit pages of records in Salesforce. Page layouts can be used to control the appearance of fields, related lists, and custom links on standard and custom objects' detail and edit pages.

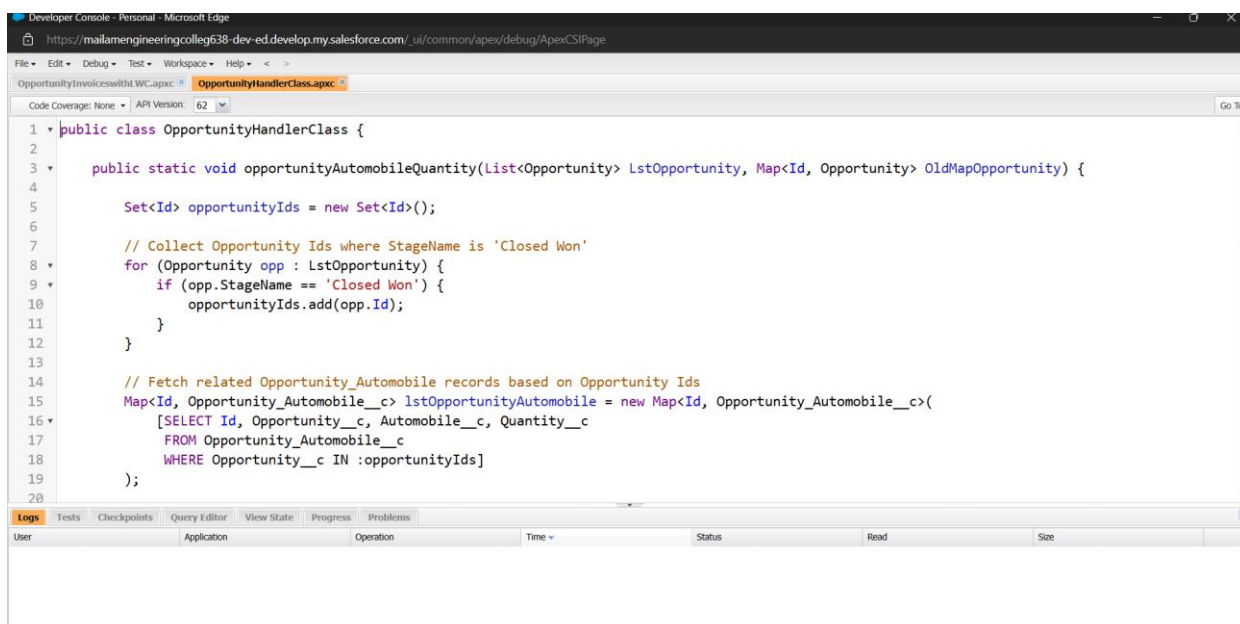
### Edit the Page layout for Automobiles Information



## ○ Apex Triggers:

An Apex trigger is a set of instructions that execute when certain events occur on a Salesforce object (like when a record is created, updated, deleted, or restored).

### Creating OpportunityHandlerClass



## Creating OpportunityAutomobileHandlerClass

```

1 public class OpportunityAutomobileHandler {
2
3     public static void quantityErrorOnAutomobileInformation(List<Opportunity_Automobile__c> lstOpportunityAutomobile){
4
5         Set<Id> AutomobileIds = new Set<Id>();
6
7         For(Opportunity_Automobile__c OppAutomobile : lstOpportunityAutomobile){
8
9             if(oppAutomobile.Automobile__c != null){
10
11                 AutomobileIds.add(oppAutomobile.Automobile__c);
12
13             }
14
15         }
16
17         Map<Id, Automobile_Information__c> lstAutomobileInformation = new map<Id, Automobile_Information__c>([SELECT Id, CreatedById, Quantity__c, Pr
18
19         For(Opportunity_Automobile__c OppAutomobile : lstOpportunityAutomobile){
20

```

## Creating OpportunityAutoMobileTrigger

```

1 trigger OpportunityAutoMobileTrigger on Opportunity_Automobile__c (before insert, before update) {
2
3     if(trigger.isbefore && trigger.isinsert || trigger.isupdate){
4
5         OpportunityAutomobileHandler.quantityErrorOnAutomobileInformation(trigger.new);
6
7     }
8
9 }

```

## Creating InvoiceCreation class



The screenshot shows the Salesforce Developer Console with the Apex class `OpportunityInvoicesWithLWC` open. The class is annotated with `@AuraEnabled(cacheable=true)` and contains a static method `getInvoices` that queries the `Invoice__c` object.

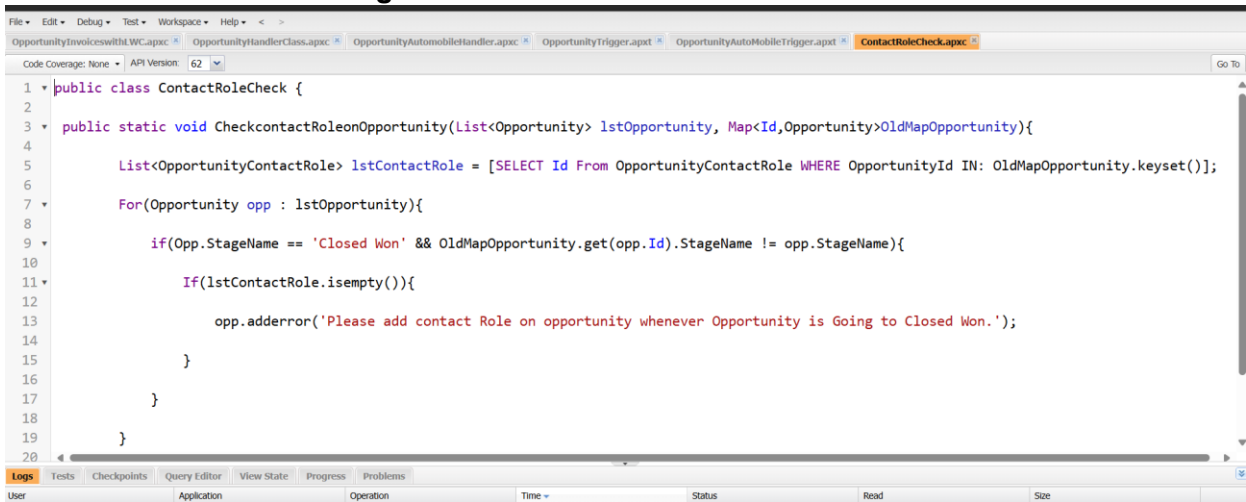
```

1 public class OpportunityInvoicesWithLWC {
2
3     @AuraEnabled(cacheable=true)
4
5     public static List<Invoice__c> getInvoices(string OpportunityId){
6
7         return [SELECT Id, Quantity__c, Purchase_Date__c, Opportunity__c, Unit_Price__c, Total_Price__c, Name FROM Invoice__c WHERE Opportunity__c =
8
9     }
10
11 }
12

```

The interface at the bottom shows the 'Logs' tab selected, with columns for User, Application, Operation, Time, Status, Read, and Size.

## Creating ContactRoleCheck class



The screenshot shows the Salesforce Developer Console with the Apex class `ContactRoleCheck` open. The class contains a static method `CheckcontactRoleonOpportunity` that queries for contact roles and adds an error message if the stage name is 'Closed Won'.

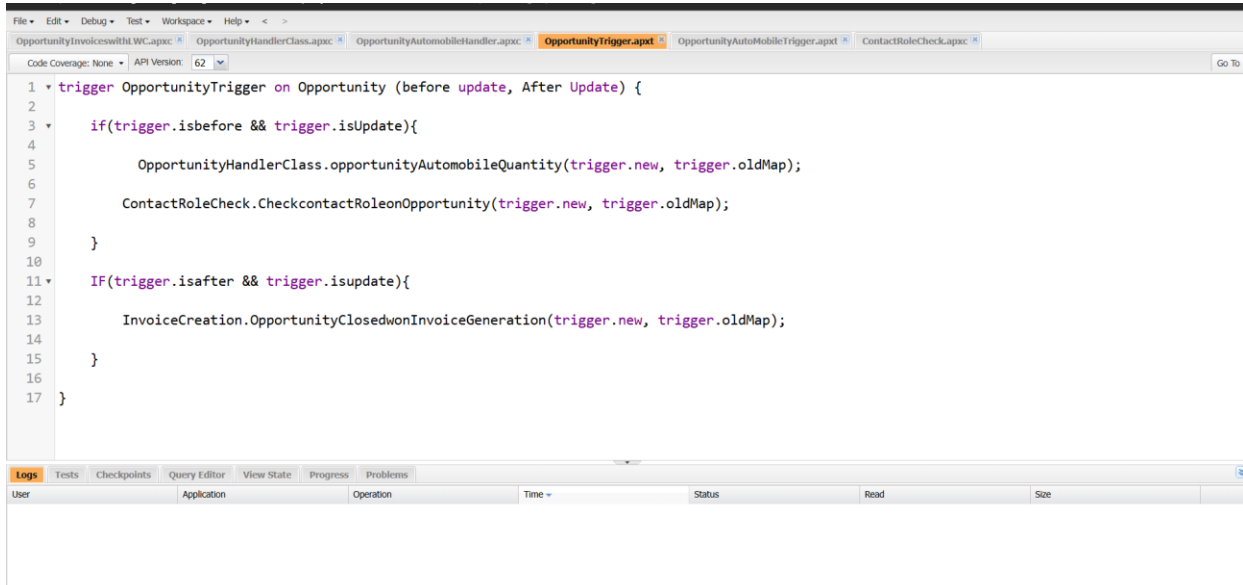
```

1 public class ContactRoleCheck {
2
3     public static void CheckcontactRoleonOpportunity(List<Opportunity> lstOpportunity, Map<Id,Opportunity>OldMapOpportunity){
4
5         List<OpportunityContactRole> lstContactRole = [SELECT Id From OpportunityContactRole WHERE OpportunityId IN: OldMapOpportunity.keySet()];
6
7         For(Opportunity opp : lstOpportunity){
8
9             if(opp.StageName == 'Closed Won' && OldMapOpportunity.get(opp.Id).StageName != opp.StageName){
10
11                 If(lstContactRole.isEmpty()){
12
13                     opp.adderror('Please add contact Role on opportunity whenever Opportunity is Going to Closed Won.');

The interface at the bottom shows the 'Logs' tab selected, with columns for User, Application, Operation, Time, Status, Read, and Size.


```

## Creating OpportunityTrigger



```

1  trigger OpportunityTrigger on Opportunity (before update, After Update) {
2
3  if(trigger.isbefore && trigger.isupdate){
4
5      OpportunityHandlerClass.opportunityAutomobileQuantity(trigger.new, trigger.oldMap);
6
7      ContactRoleCheck.CheckcontactRoleonOpportunity(trigger.new, trigger.oldMap);
8
9  }
10
11 IF(trigger.isafter && trigger.isupdate){
12
13     InvoiceCreation.OpportunityClosedwonInvoiceGeneration(trigger.new, trigger.oldMap);
14
15 }
16
17 }

```

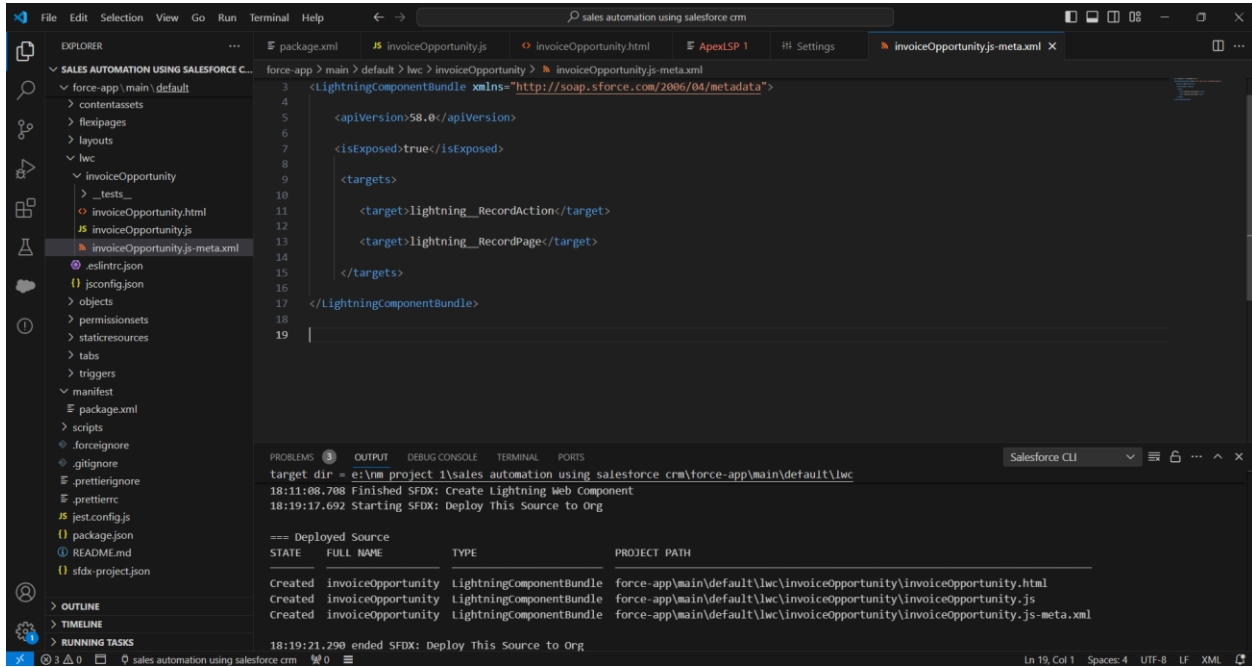
## ○ LWC Component:

Lightning Web Components (LWC) are a modern framework for building user interfaces in Salesforce. Unlike Aura Components (Salesforce's previous framework), LWC is based on modern web standards, including web components, HTML, CSS, and JavaScript. It offers faster performance, better developer productivity, and is more aligned with web development best practices.

## Create Lightning Web Component

The lwc component name is InvoiceOpportunity.

### XML File



The screenshot shows the VS Code editor with the following files open: package.xml, invoiceOpportunity.js, invoiceOpportunity.html, ApexSP 1, and invoiceOpportunity.js-meta.xml. The invoiceOpportunity.js-meta.xml file is selected, showing the following XML content:

```
<?xml version="1.0"?>
<LightningComponentBundle xmlns="http://soap.sforce.com/2006/04/metadata">
  <apiVersion>58.0</apiVersion>
  <isExposed>true</isExposed>
  <targets>
    <target>lightning__RecordAction</target>
    <target>lightning__RecordPage</target>
  </targets>
</LightningComponentBundle>
```

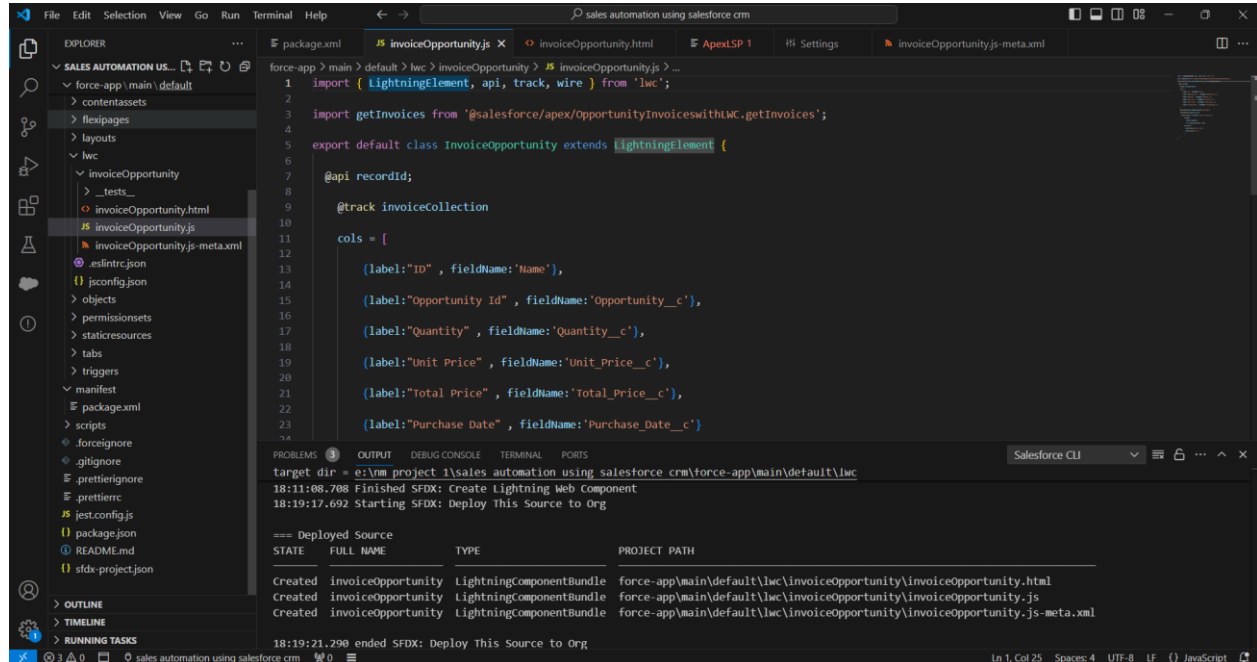
The terminal output shows the following commands and results:

```
target dir = e:\nm project 1\sales automation using salesforce crm\force-app\main\default\lwc
18:11:08.708 Finished SFDX: Create Lightning Web Component
18:19:17.692 Starting SFDX: Deploy This Source to Org

=== Deployed Source
STATE      FULL NAME                                TYPE                                PROJECT PATH
-----
Created    InvoiceOpportunity                        LightningComponentBundle           force-app\main\default\lwc\invoiceOpportunity\invoiceOpportunity.html
Created    InvoiceOpportunity                        LightningComponentBundle           force-app\main\default\lwc\invoiceOpportunity\invoiceOpportunity.js
Created    InvoiceOpportunity                        LightningComponentBundle           force-app\main\default\lwc\invoiceOpportunity\invoiceOpportunity.js-meta.xml

18:19:21.298 ended SFDX: Deploy This Source to Org
```

## JS File



The image shows a VS Code editor window with the file explorer on the left, the editor in the center, and the terminal at the bottom. The file explorer shows the project structure for 'SALES AUTOMATION USING SALESFORCE CRM'. The editor displays the content of 'invoiceOpportunity.js'. The terminal shows the output of the SFDX command to create the Lightning Web Component.

```
force-app > main > default > lwc > invoiceOpportunity > .js invoiceOpportunity.js > ...
1 import { LightningElement, api, track, wire } from 'lwc';
2
3 import getInvoices from '@salesforce/apex/OpportunityInvoicesWithLWC.getInvoices';
4
5 export default class InvoiceOpportunity extends LightningElement {
6
7     @api recordId;
8
9     @track invoiceCollection
10
11     cols = [
12
13         {label:'ID' , fieldName:'Name'},
14
15         {label:'Opportunity Id' , fieldName:'Opportunity__c'},
16
17         {label:'Quantity' , fieldName:'Quantity__c'},
18
19         {label:'Unit Price' , fieldName:'Unit_Price__c'},
20
21         {label:'Total Price' , fieldName:'Total_Price__c'},
22
23         {label:'Purchase Date' , fieldName:'Purchase_Date__c'}
24
25     ]
```

PROBLEMS 0 OUTPUT DEBUG CONSOLE TERMINAL PORTS Salesforce CLI

target dir = c:\nm project 1\sales automation using salesforce crm\force-app\main\default\lwc

18:11:08.788 Finished SFDX: Create Lightning Web Component

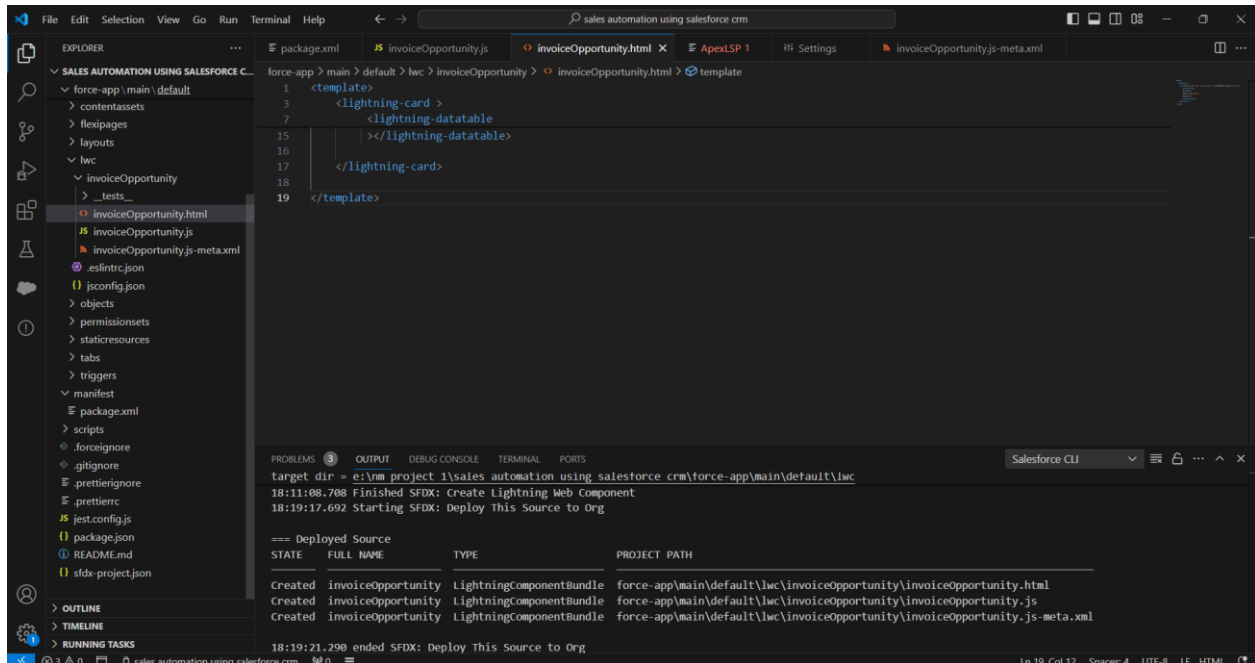
18:19:17.692 Starting SFDX: Deploy This Source to Org

=== Deployed Source

STATE	FULL NAME	TYPE	PROJECT PATH
Created	invoiceOpportunity	LightningComponentBundle	force-app\main\default\lwc\invoiceOpportunity\invoiceOpportunity.html
Created	invoiceOpportunity	LightningComponentBundle	force-app\main\default\lwc\invoiceOpportunity\invoiceOpportunity.js
Created	invoiceOpportunity	LightningComponentBundle	force-app\main\default\lwc\invoiceOpportunity\invoiceOpportunity.js-meta.xml

18:19:21.290 ended SFDX: Deploy This Source to Org

## HTML File



The image shows a VS Code editor window with the file explorer on the left, the editor in the center, and the terminal at the bottom. The file explorer shows the project structure for 'SALES AUTOMATION USING SALESFORCE CRM'. The editor displays the content of 'invoiceOpportunity.html'. The terminal shows the output of the SFDX command to create the Lightning Web Component.

```
force-app > main > default > lwc > invoiceOpportunity > .html invoiceOpportunity.html > template
1 <template>
2
3 <lightning-card>
4
5 <lightning-datatable
6
7 ></lightning-datatable>
8
9 </lightning-card>
10
11 </template>
```

PROBLEMS 0 OUTPUT DEBUG CONSOLE TERMINAL PORTS Salesforce CLI

target dir = c:\nm project 1\sales automation using salesforce crm\force-app\main\default\lwc

18:11:08.788 Finished SFDX: Create Lightning Web Component

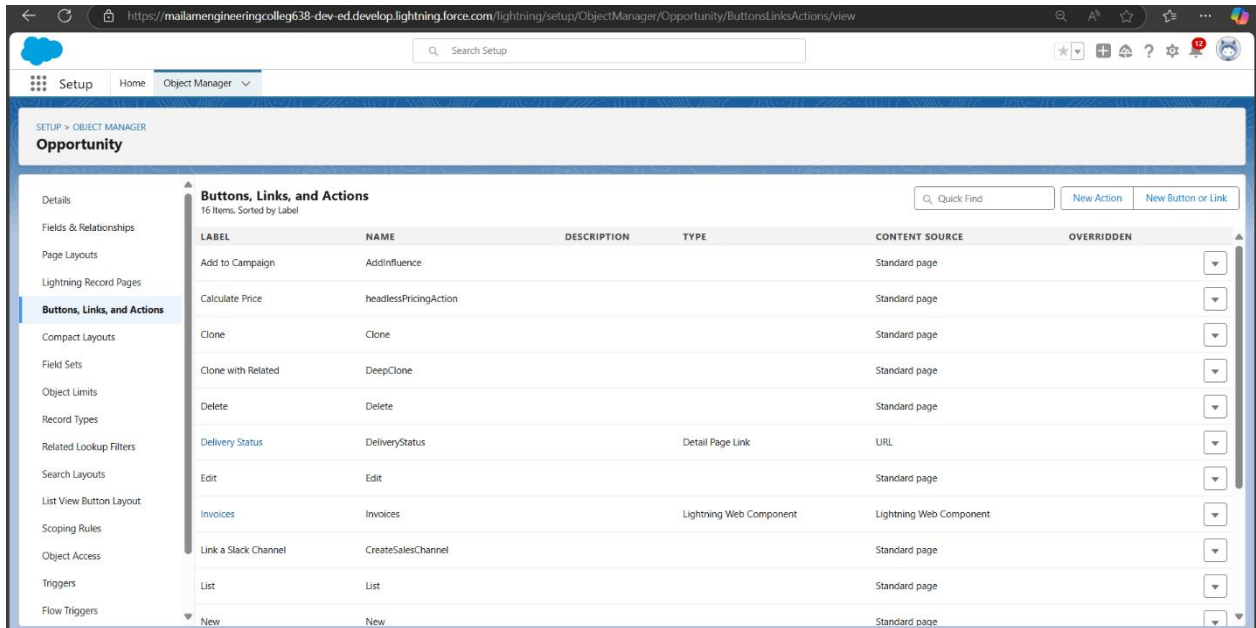
18:19:17.692 Starting SFDX: Deploy This Source to Org

=== Deployed Source

STATE	FULL NAME	TYPE	PROJECT PATH
Created	invoiceOpportunity	LightningComponentBundle	force-app\main\default\lwc\invoiceOpportunity\invoiceOpportunity.html
Created	invoiceOpportunity	LightningComponentBundle	force-app\main\default\lwc\invoiceOpportunity\invoiceOpportunity.js
Created	invoiceOpportunity	LightningComponentBundle	force-app\main\default\lwc\invoiceOpportunity\invoiceOpportunity.js-meta.xml

18:19:21.290 ended SFDX: Deploy This Source to Org

## Create Button to add an opportunity

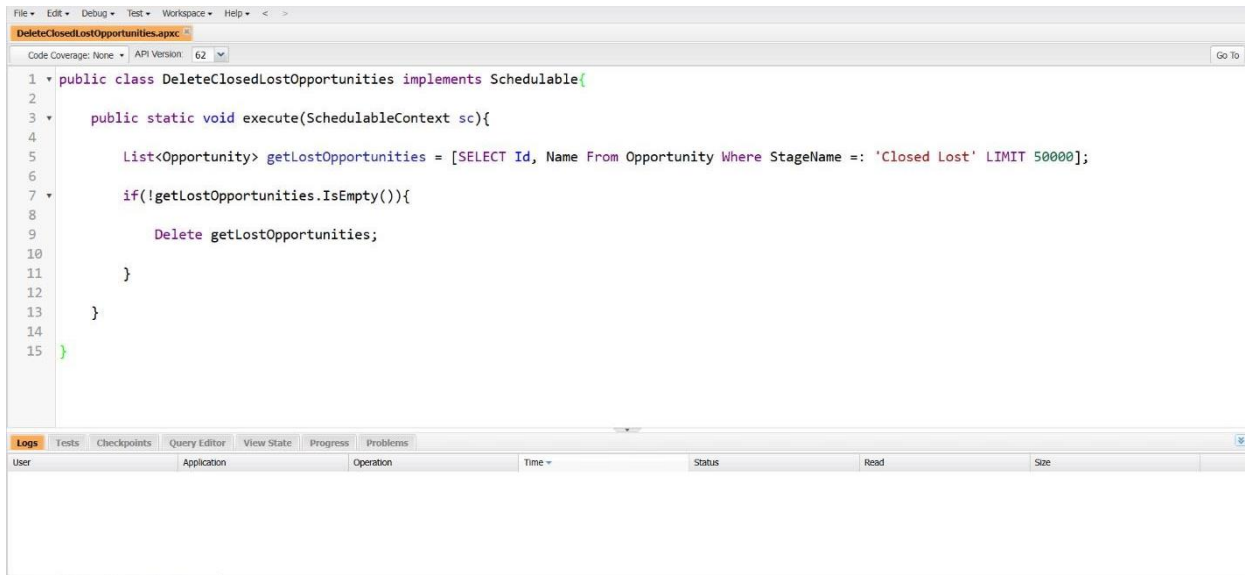


The screenshot shows the Salesforce Setup page for the Opportunity object. The left sidebar contains a navigation menu with options like Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions (selected), Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts, List View Button Layout, Scoping Rules, Object Access, Triggers, and Flow Triggers. The main content area is titled "Buttons, Links, and Actions" and displays a table of 16 items. The table has columns for LABEL, NAME, DESCRIPTION, TYPE, CONTENT SOURCE, and OVERIDDEN. The items listed are: Add to Campaign, Calculate Price, Clone, Clone with Related, Delete, Delivery Status, Edit, Invoices, Link a Slack Channel, List, and New. The "New" item is highlighted at the bottom of the list.

LABEL	NAME	DESCRIPTION	TYPE	CONTENT SOURCE	OVERIDDEN
Add to Campaign	AddInfluence			Standard page	
Calculate Price	headlessPricingAction			Standard page	
Clone	Clone			Standard page	
Clone with Related	DeepClone			Standard page	
Delete	Delete			Standard page	
Delivery Status	DeliveryStatus		Detail Page Link	URL	
Edit	Edit			Standard page	
Invoices	Invoices		Lightning Web Component	Lightning Web Component	
Link a Slack Channel	CreateSalesChannel			Standard page	
List	List			Standard page	
New	New			Standard page	

## ○ Apex Schedulers:

### Delete opportunity schedule class



The screenshot shows an IDE window with the file "DeleteClosedLostOpportunities.apex". The code is as follows:

```

1 public class DeleteClosedLostOpportunities implements Schedulable{
2
3     public static void execute(SchedulableContext sc){
4
5         List<Opportunity> getLostOpportunities = [SELECT Id, Name From Opportunity Where StageName =: 'Closed Lost' LIMIT 50000];
6
7         if(!getLostOpportunities.isEmpty()){
8
9             Delete getLostOpportunities;
10
11         }
12
13     }
14
15 }

```

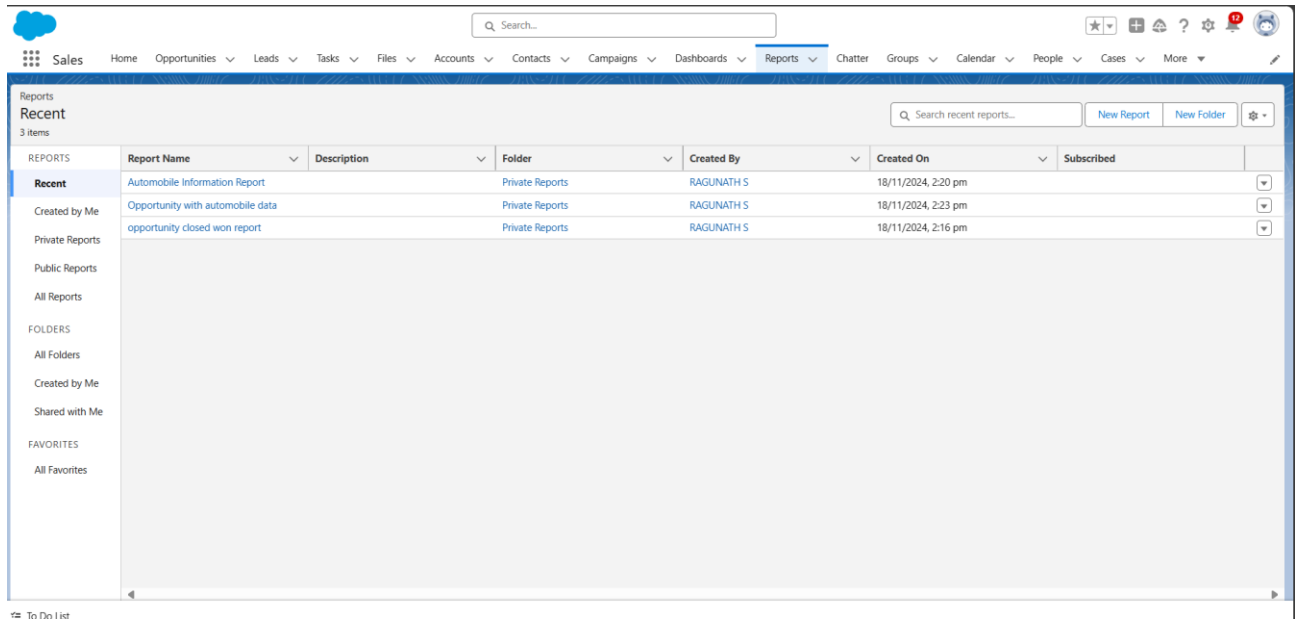
The IDE interface includes a menu bar (File, Edit, Debug, Test, Workspace, Help), a toolbar with "Code Coverage: None" and "API Version: 62", and a "Go To" button. The bottom of the IDE shows a "Logs" tab and a table with columns: User, Application, Operation, Time, Status, Read, and Size.



## ○ Reports:

Reports give you access to your Salesforce data. You can examine your Salesforce data in almost infinite combinations, display it in easy-to-understand formats, and share the resulting insights with others. Before building, reading, and sharing reports, review these reporting basics.

Here we create three reports namely Opportunity with automobile data, opportunity closed won report, and Automobile Information report.



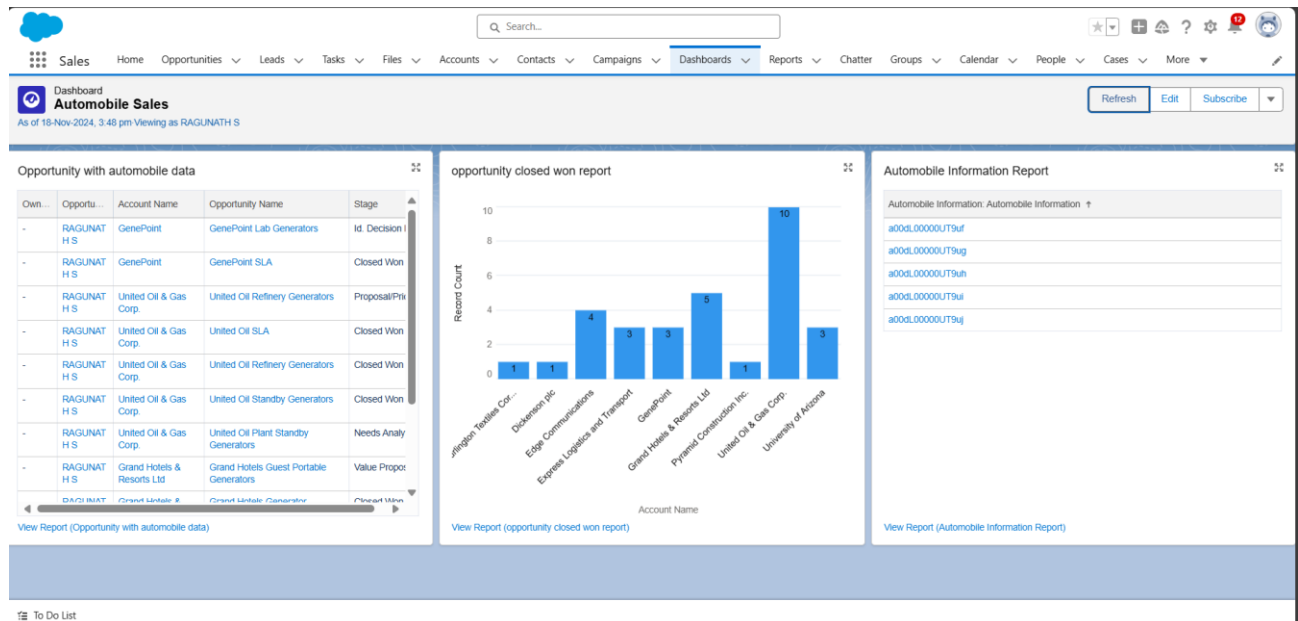
The screenshot shows the Salesforce Reports interface. The top navigation bar includes links to Sales, Home, Opportunities, Leads, Tasks, Files, Accounts, Contacts, Campaigns, Dashboards, Reports (selected), Chatter, Groups, Calendar, People, Cases, and More. A search bar is located in the top right. The main content area displays a list of recent reports under the 'Recent' tab. The table has columns for Report Name, Description, Folder, Created By, Created On, and Subscribed. Three reports are listed: 'Automobile Information Report', 'Opportunity with automobile data', and 'opportunity closed won report'. All reports are in the 'Private Reports' folder and were created by 'RAGUNATH S' on 18/11/2024.

REPORTS	Report Name	Description	Folder	Created By	Created On	Subscribed
Recent	Automobile Information Report		Private Reports	RAGUNATH S	18/11/2024, 2:20 pm	
Created by Me	Opportunity with automobile data		Private Reports	RAGUNATH S	18/11/2024, 2:23 pm	
Private Reports	opportunity closed won report		Private Reports	RAGUNATH S	18/11/2024, 2:16 pm	

## ○ Dashboard:

Dashboards help you visually understand changing business conditions so you can make decisions based on the real-time data you've gathered with reports. Use dashboards to help users identify trends, sort out quantities, and measure the impact of their activities.

## The Created Dashboard:



## 5. Testing and Validation for the Automobile Sales CRM Project:

In the Automobile Sales CRM project, testing and validation play a crucial role in ensuring the reliability, accuracy, and overall functionality of the application. The project involves multiple components such as Apex classes, Apex triggers, Lightning Web Components (LWC), and custom objects. For Apex classes and triggers, unit tests are designed to verify business logic, such as calculating automobile prices, updating opportunity quantities, and handling complex workflows. These unit tests simulate real-world scenarios by inserting mock data and validating outcomes with assertions. Additionally, tests cover edge cases, such as handling invalid or missing inputs, ensuring that the system behaves as expected under all conditions, and confirming that bulk processing does not exceed Salesforce governor limits. Apex test classes ensure that the code is fully covered (with at least 75% test coverage) and compliant with Salesforce's deployment requirements.

For the user interface (UI), testing focuses on Lightning Web Components (LWC) to ensure that the system is intuitive, responsive, and user-friendly. The UI testing validates the correct functionality of components such as automobile search, invoice generation, and opportunity management. Tests

are implemented to simulate user interactions, such as filtering automobiles by make, adding items to opportunities, and updating quantities. Using Jest for testing LWC, developers verify that components respond correctly to user input, trigger appropriate events, and dynamically update the interface based on realtime data. These tests ensure that the final product offers a seamless user experience, with minimal bugs or UI inconsistencies, and that all components interact smoothly with Salesforce's backend systems.

## **6. Key Scenarios Addressed by Salesforce in the Implementation Project:**

### **1.Managing Automobile Inventory**

**Scenario:** The business needs to manage a dynamic inventory of automobiles with details such as make, model, price, stock availability, and other relevant attributes. The sales team needs a centralized system to view and update automobile information in real time.

#### **Salesforce Solution:**

- Custom Object for Automobile Inventory: A custom object is created to store automobile details (e.g., model, price, stock quantity).
- Lightning Web Component (LWC) is built to enable the sales team to view and search for automobiles in real time.
- The system can auto-update stock quantities based on sales or returns through Apex triggers.

## 2. Customer Relationship Management (CRM)

**Scenario:** The business needs to track detailed customer information, including contact details, previous interactions, and automobile purchases. The system should also allow for effective follow-ups and communication with leads, prospects, and customers.

### **Salesforce Solution:**

- **Contact and Account Management:** Salesforce's Contact and Account objects are customized to track customer information and interactions related to automobile purchases.
- **Lead Management:** Leads are captured through forms or imports and converted into Opportunities when ready for further engagement.
- **Task and Event Tracking:** Salesforce's Task and Event functionalities are used to create reminders, track follow-up calls, and schedule meetings with customers.

## **7. Conclusion:**

The Automobile Sales CRM project has successfully implemented a comprehensive solution that streamlines key business processes, enhances sales operations, and improves customer relationship management. By leveraging Salesforce's powerful features, including custom objects, Apex triggers, Lightning Web Components (LWC), and automation tools like Process Builder and Flows, the project has effectively addressed critical use cases such as managing automobile inventory, tracking sales opportunities, generating invoices, and automating workflows. The system enables real-time data updates, detailed reporting and analytics, and seamless integration of sales and customer data, ultimately driving increased sales efficiency and better customer experiences. Through this implementation, the business now has a scalable, flexible CRM solution that supports both operational needs and strategic growth.