

**PROJECT TITLE:** SALES AUTOMOBILE USING SALESFORCE CRM

**COLLEGE NAME :** PARK COLLEGE OF ENGINEERING AND TECHNOLOGY

**COLLEGE CODE:** 7122

**DEPARTMENT:** B.E COMPUTER SCIENCE AND ENGINEERING

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**Abstract :**

The Salesforce CRM implementation for automobile sales streamlines the entire sales process, enhancing efficiency and customer satisfaction. Through this system, sales teams can manage leads, track customer interactions, and automate follow-ups.

It enables comprehensive customer profiling, allowing for personalized marketing strategies and targeted campaigns. The platform facilitates inventory management, ensuring real-time updates on available vehicles and their specifications.

Integration with marketing tools enables seamless communication and lead nurturing. Additionally, the system provides insightful analytics, empowering decision-making by identifying sales trends and forecasting demand. Overall, the Salesforce CRM for automobile sales optimizes operations, fosters customer relationships, and drives revenue growth within the automotive industry.

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# **Salesforce**

## **Introduction:**

### **Sales Automobile Using Salesforce CRM :**

The Salesforce CRM implementation for automobile sales streamlines the entire sales process, enhancing efficiency and customer satisfaction. Through this system, sales teams can manage leads, track customer interactions, and automate follow-ups. It enables comprehensive customer profiling, allowing for personalized marketing strategies and targeted campaigns. The platform facilitates inventory management, ensuring real-time updates on available vehicles and their specifications. Integration with marketing tools enables seamless communication and lead nurturing. Additionally, the system provides insightful analytics, empowering decision-making by identifying sales trends and forecasting demand. Overall, the Salesforce CRM for automobile sales optimizes operations, fosters customer relationships, and drives revenue growth within the automotive industry.

Are you new to Salesforce? Not sure exactly what it is, or how to use it? Don't know where you should start on your learning journey? If you've answered yes to any of these questions, then you're in the right place. This module is for you. Welcome to Salesforce! Salesforce is game-changing technology, with a host of productivity-boosting features, that will help you sell smarter and faster. As you work toward your badge for this module, we'll take you through these features and answer the question, "What is Salesforce, anyway?".



## **What Is Salesforce?**

Salesforce is your customer success platform, designed to help you sell, service, market, analyze, and connect with your customers.

Salesforce has everything you need to run your business from anywhere. Using standard products and features, you can manage relationships with prospects and customers, collaborate and engage with employees and partners, and store your data securely in the cloud.

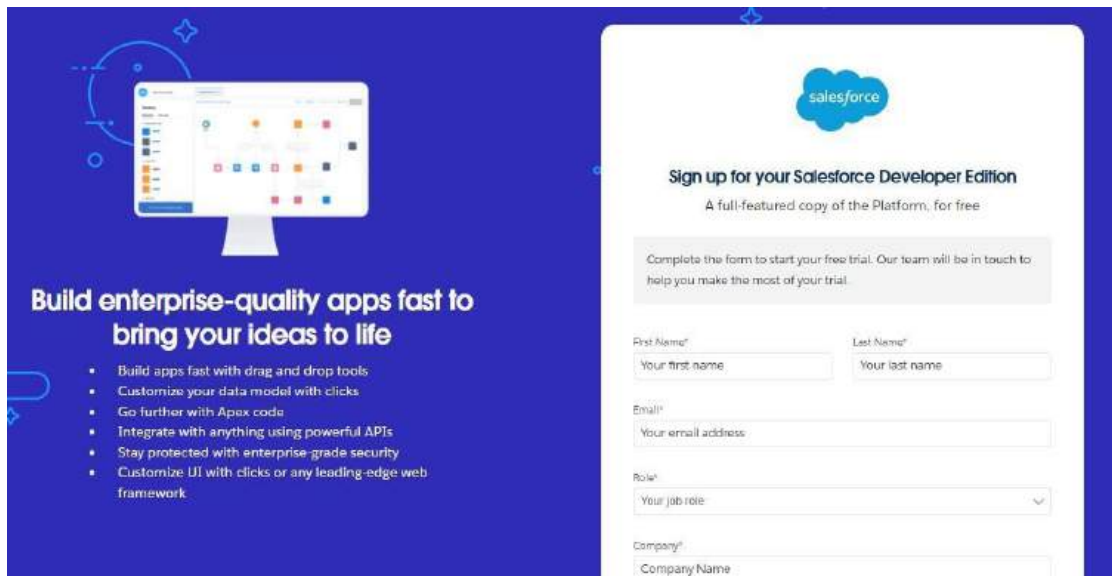
So what does that really mean? Well, before Salesforce, your contacts, emails, follow-up tasks, and prospective deals might have been organised something like this:

<https://youtu.be/r9EX3lGde5k>

## Creating Developer Account

Creating a developer org in salesforce.

1. Go to <https://developer.salesforce.com/signup>
2. On the sign up form, enter the following details :



**Build enterprise-quality apps fast to bring your ideas to life**

- Build apps fast with drag and drop tools
- Customize your data model with clicks
- Go further with Apex code
- Integrate with anything using powerful APIs
- Stay protected with enterprise-grade security
- Customize UI with clicks or any leading-edge web framework

**Sign up for your Salesforce Developer Edition**  
A full-featured copy of the Platform, for free

Complete the form to start your free trial. Our team will be in touch to help you make the most of your trial.

First Name\*  
Your first name

Last Name\*  
Your last name

Email\*  
Your email address

Role\*  
Your job role

Company\*  
Company Name

1. First name & Last name
2. Email
3. Role : Developer
4. Company : College Name
5. County : India
6. Postal Code : pin code
7. Username : should be a combination of your name and company

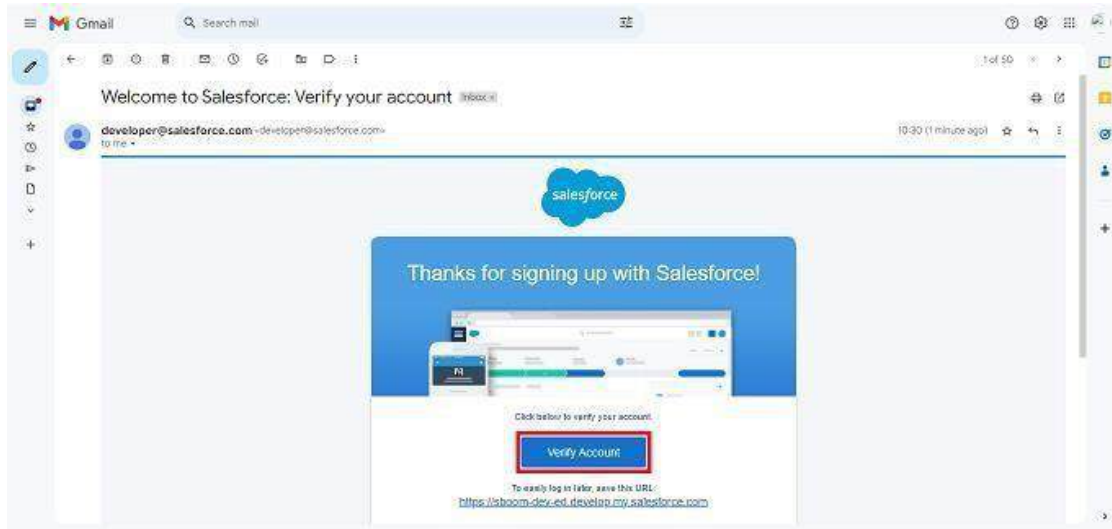
This need not be an actual email id, you can give anything in the format :

[username@organization.com](#)

Click on sign me up after filling these.

## Account Activation

1. Go to the inbox of the email that you used while signing up. Click on the verify account to activate your account. The email may take 5-10mins.



2. Click on Verify Account
3. Give a password and answer a security question and click on change password.

Change Your Password

Enter a new password for lead@sb.com.  
Make sure to include at least:

- 8 characters
- 1 letter
- 1 number

\* New Password  
Good

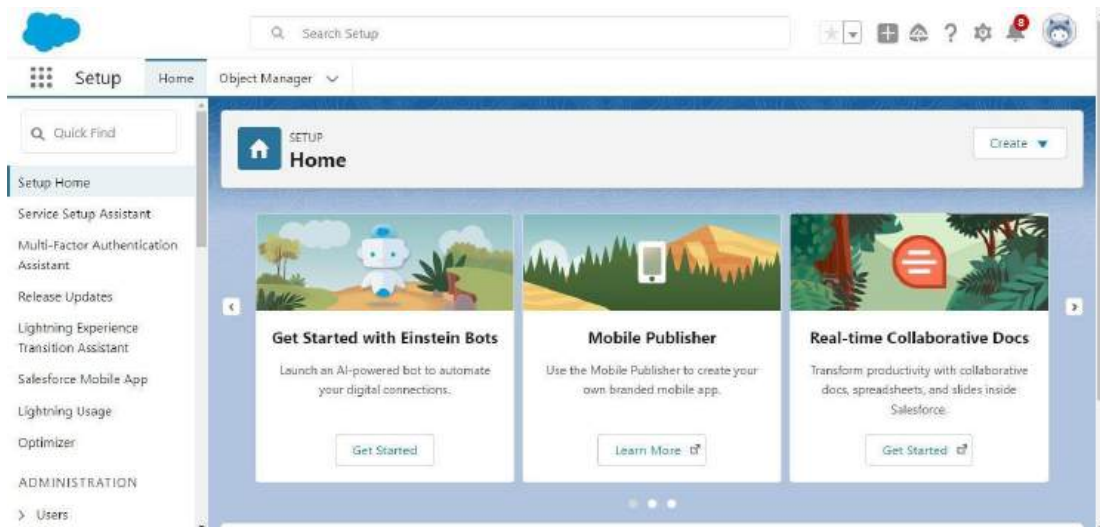
\* Confirm New Password  
Match

Security Question  
In what city were you born?

\* Answer  
asdfghjkl

Change Password

4. Then you will redirect to your salesforce setup page.



## Object

### What Is an Object?

Salesforce objects are database tables that permit you to store data that is specific to an organization. What are the types of Salesforce objects

#### Salesforce objects are of two types:

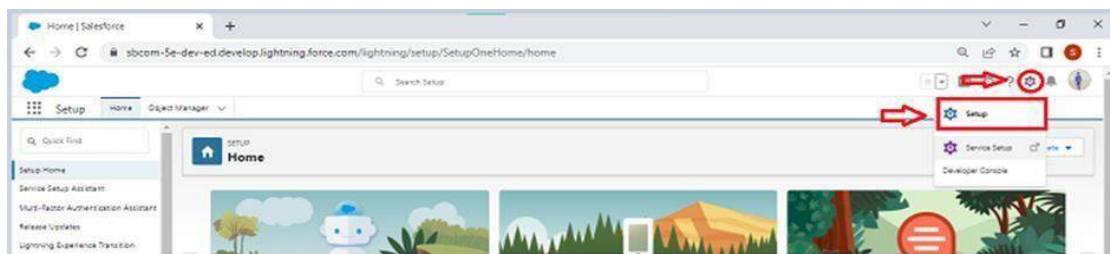
1. **Standard Objects:** Standard objects are the kind of objects that are provided by salesforce.com such as users, contracts, reports, dashboards, etc.
2. **Custom Objects:** Custom objects are those objects that are created by users. They supply information that is unique and essential to their organization. They are the heart of any application and provide a structure for sharing data.

#### Use Case:

Creating an object in Salesforce organization is essential for efficient data management and process automation. By defining custom objects, businesses can structure and store data specific to their needs, enabling streamlined workflows, personalized reporting, and enhanced user experiences. Objects serve as the foundation for organizing and leveraging critical information within Salesforce.

#### To Navigate to Setup page:

Click on gear icon >> click setup.



## **To create an object:**

### **Tabs**

**What is Tab:** A tab is like a user interface that is used to build records for objects and to view the records in the objects.

Types of Tabs:

#### **1. Custom Tabs**

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.

#### **2. Web Tabs**

Web Tabs are custom tabs that display web content or applications embedded in the salesforce.com window. Web tabs make it easier for your users to quickly access content and applications they frequently use without leaving the salesforce.com application.

#### **3. Visualforce Tabs**

Visualforce Tabs are custom tabs that display a Visualforce page. Visualforce tabs look and behave like standard salesforce.com tabs such as accounts, contacts, and opportunities.

#### **4. Lightning Component Tabs**

Lightning Component tabs allow you to add Lightning components to the navigation menu in Lightning Experience and the mobile app.

## **5. Lightning Page Tabs**

Lightning Page Tabs let you add Lightning Pages to the mobile app navigation menu.

Lightning Page tabs don't work like other custom tabs. Once created, they don't show up on the All Tabs page when you click the Plus icon that appears to the right of your current tabs. Lightning Page tabs also don't show up in the Available Tabs list when you customize the tabs for your apps.

### **Use Case:**

Creating Objects and storing organization's data is the very first step in the requirements they want. Now to access the stored data by an employee from the organization Admin needs to create Tabs. By designing a dedicated Tab, businesses can improve user experience, simplify navigation, and provide quick access to critical information, enhancing productivity and ensuring efficient utilization of Salesforce's capabilities.

## Create Automobile Information Object

1. Download and open [this spreadsheet](#), save it as AutomobileInformation.csv.
2. Make sure to download the File into CSV format.

Note : Make sure to have the name of the file as “Automobile Information”.  
Log into your salesforce account, click ⚙️, then select Setup.

3. Click the Object Manager tab.



4. Click Create.
5. Select Custom Object from Spreadsheet.



6. Click Login With Salesforce.
7. Enter your Salesforce account username and password. (which you have created in the Milestone 1, Activity 1)
8. Click Log In.
9. Click Allow.
10. Click Upload.



11. Navigate to the Automobile Information.csv file you downloaded and upload it. Salesforce automatically detects the fields and populates all its record data. Choose the Record Name field and make sure all fields are with the proper datatypes as below as they are.

12. Click Next and enter the following settings.

13. Click Finish. The Automobile Information object is successfully created and data imported, all within minutes.

## Create Invoice Object

Create Invoice object, just as we have created an Automobile Information Object using [this sheet](#)

Make sure to Download the File into CSV Format.

Note: Make sure you do field mapping with proper field type as shown below.

## Create Automobile Object :

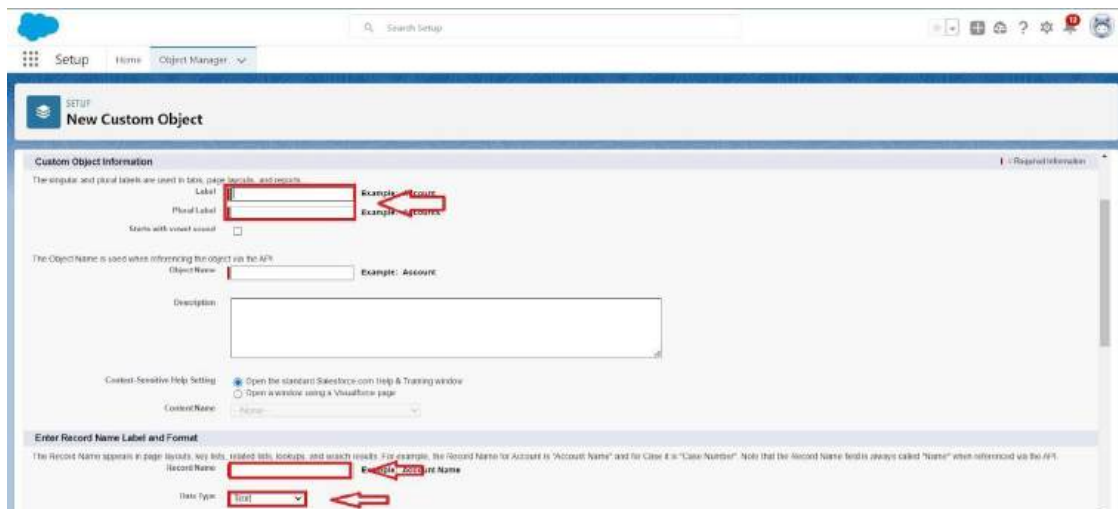
The purpose of creating an Automobile custom object is to store and manage information about Invoice.

To create an object:

1. From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.



1. Enter the label name >> Opportunity Automobile
2. Plural label name >> Opportunity Automobiles



3. Enter Record Name Label and Format

- Record Name >> Opportunity Automobile Id
- Data Type >> Auto Number
- Display Format >> OA-{0000}
- Starting Number >> 1

**Custom Object Information**

The singular and plural labels are used in tabs, page layouts, and reports. Be careful when changing the name or label as it may affect existing integrations and merge templates.

Label:  Example: Account

Plural Label:  Example: Accounts

Starts with vowel sound: ☐

The Object Name is used when referencing the object via the API.

Object Name:  Example: Account

Description:

Context-Sensitive Help Setting: ☒ Open the standard Salesforce.com Help & Training window  
☐ Open a window using a Visualforce page

Content Name:

---

**Enter Record Name Label and Format**

The Record Name appears in page layouts, key lists, related lists, lookups, and search results. For example, the Record Name for Account is "Account Name" and for Case it is "Case Number".

Record Name:  Example: Account Name

Data Type:

Display Format:  Example: A-{0000} [What Is This?](#)

Starting Number:

2. Click on Allow reports.
3. Allow search
4. Save.

## Tabs

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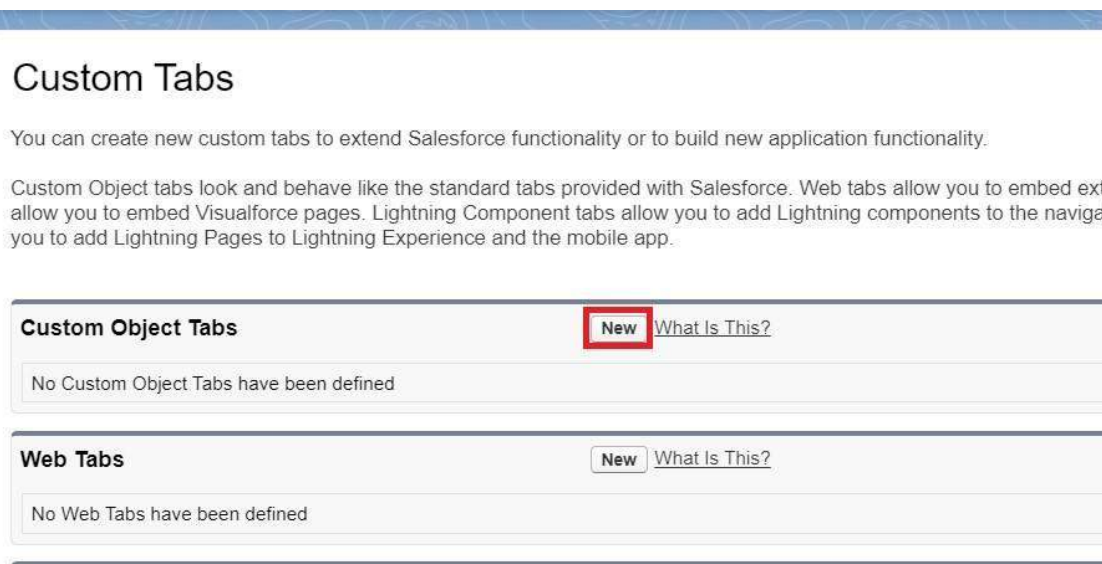
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## Use Case:

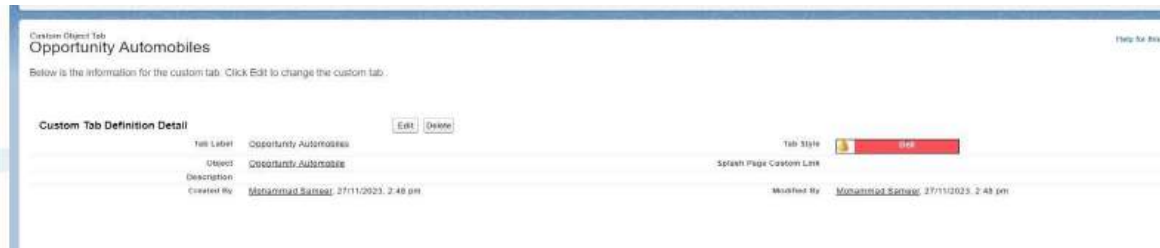
Creating Objects and storing organization's data is the very first step in the requirements they want. Now to access the stored data by an employee from the organization Admin needs to create Tabs. By designing a dedicated Tab, businesses can improve user experience, simplify navigation, and provide quick access to critical information, enhancing productivity and ensuring efficient utilization of Salesforce's capabilities.

### Creating A Custom Tab

1. Go to setup page >> type Tabs in Quick Find bar >> click on tabs >> New  
(under custom object tab)



2. Select Object(Opportunity Automobile) >> Select any tab style >> Next (Add to profiles page) keep it as default >> Next (Add to Custom App) keep it as default >> Save.



Note: Tabs for Automobile Information & Invoice objects do get created automatically. We do not need to create tabs for those objects.

### **The Lightning App :**

An app is a collection of items that work together to serve a particular function. In Lightning Experience, Lightning apps gives users access to sets of objects, tabs, and other items all in one convenient bundle in the navigation bar.

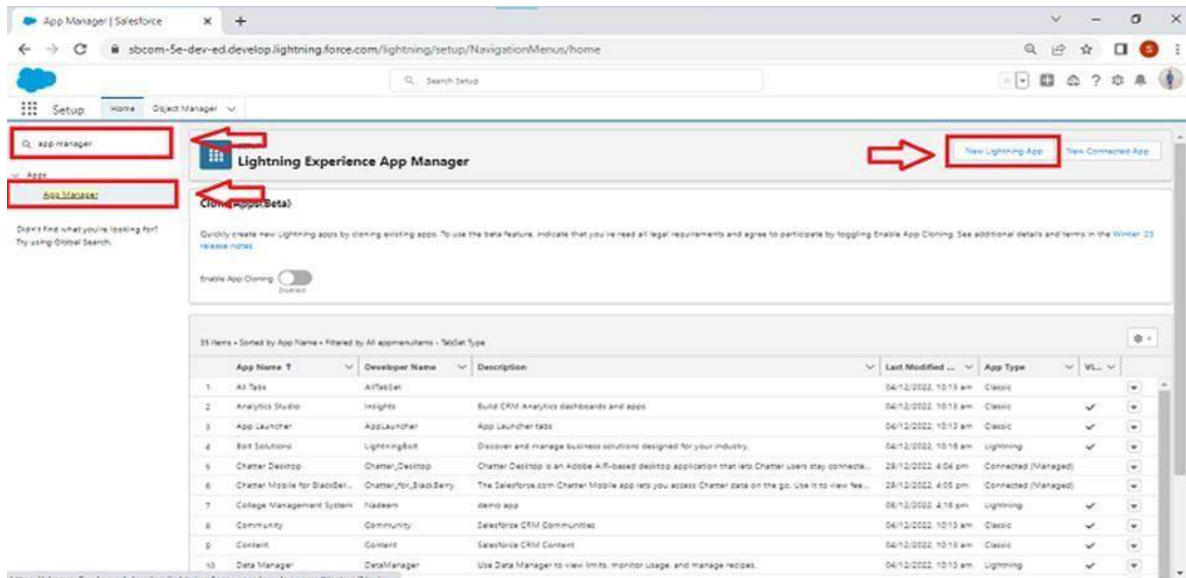
Lightning apps let you brand your apps with a custom color and logo. You can even include a utility bar and Lightning page tabs in your Lightning app. Members of your org can work more efficiently by easily switching between apps.

### **Use Case:**

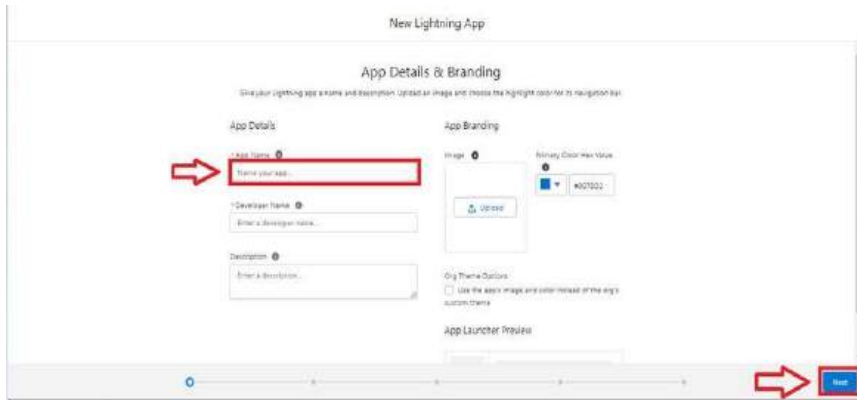
Well done you have reached close to your organizational requirement by creating the objects to store the organization's data. Making a database for an organization is just not enough to reach out the requirements, the task is how the users at the organization can access the objects you have created for them. As an Admin and Developer for the organization it's your duty to make sure every user of the organization is able to access the data modeling structure.

## Create A Lightning App

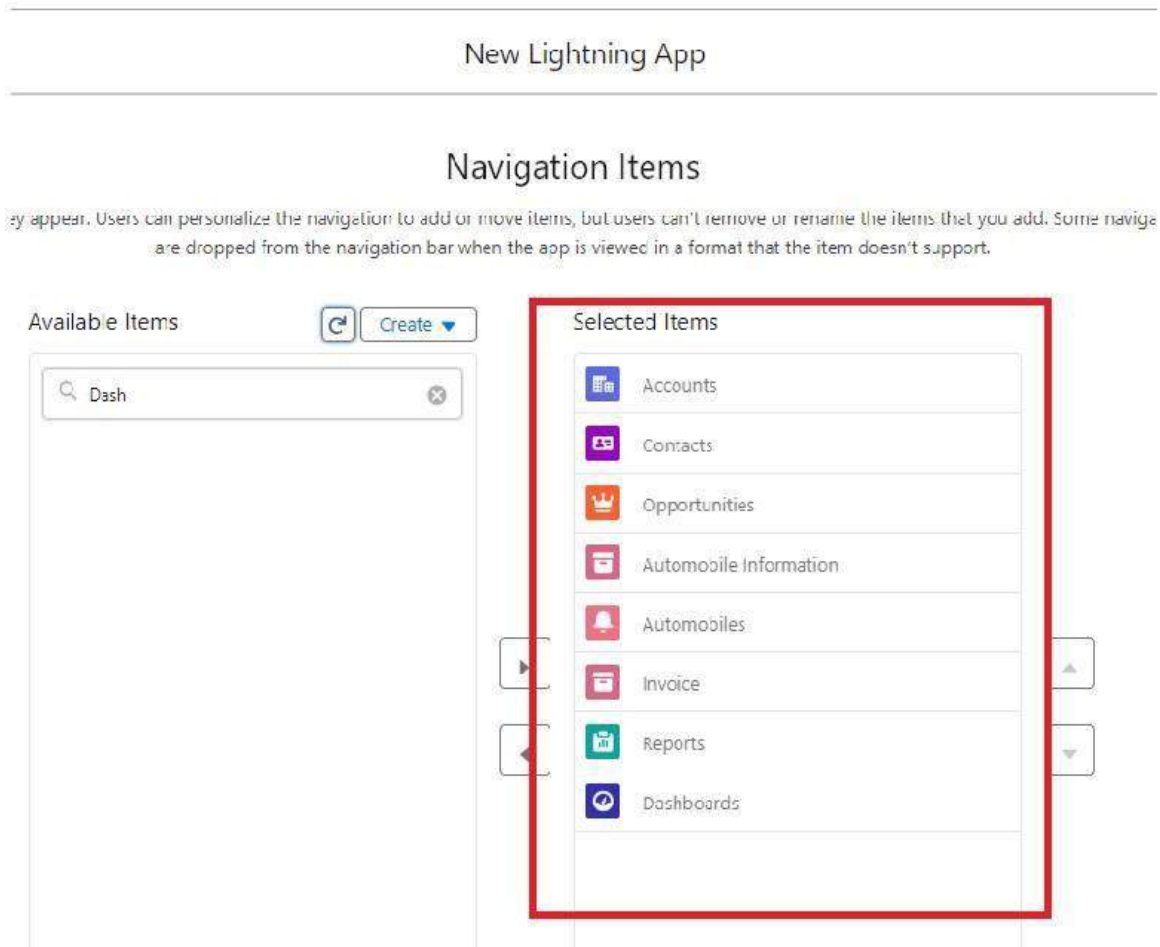
1. Go to setup page >> search “app manager” in quick find >> select “app manager” >> click on New lightning App.



2. Fill the app name in app details and branding as follow
  - a. App Name :Sales Automobile Using Salesforce CRM
  - b. Developer Name : this will auto populated
  - c. Description : Give a meaningful description
  - d. Image : optional (if you want to give any image you can otherwise not mandatory)
  - e. Primary color hex value : keep this default
3. Then click Next >> (App option page) keep it as default >> Next >> (Utility Items) keep it as default >> Next.



#### 4. Add Navigation Items:

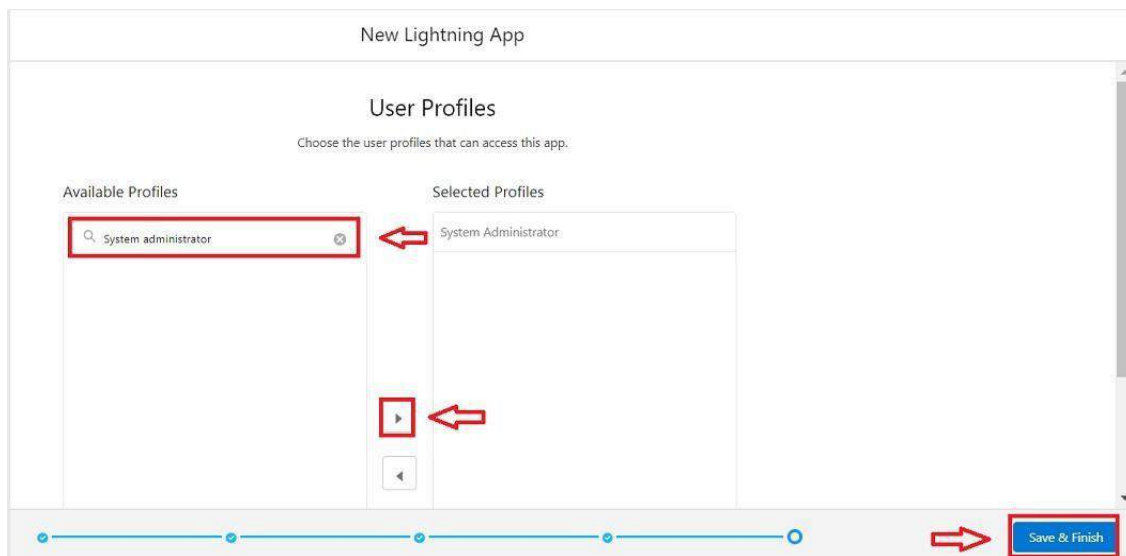


5. Search the items in the search bar(Account,Contact ,Opportunities,Automobile Information,Opportunity Automobile,Invoice,



Reports, Dashboard) from the search bar and move it using the arrow button  
? Next.

Note: select asset the custom object which we have created in the previous activity.



6. Search profiles (System administrator) in the search bar >> click on the arrow button >> save & finish.

## **Fields & Relationships**

When we talk about Salesforce, Fields represent the data stored in the columns of a relational database. It can hold any valuable information that you require for a specific object. Hence, the overall searching, deletion, and editing of the records become simpler and quicker. **Types of Fields**

1. Standard Fields
2. Custom Fields

### **Standard Fields:**

As the name suggests, the Standard Fields are the predefined fields in Salesforce that perform a standard task. The main point is that you can't simply delete a Standard Field until it is a non-required standard field. Otherwise, users have the option to delete them at any point from the application freely. Moreover, we have some fields that you will find common in every Salesforce application.

They are,

>>Created By

>> Owner

>> Last Modified

>> Field Made During object Creation

### **Custom Fields:**

On the other side of the coin, Custom Fields are highly flexible, and users can change them according to requirements. Moreover, each organizer or company can use them if necessary. It means you need not always include them in the records, unlike Standard fields. Hence, the final decision depends on the user, and he can add/remove Custom Fields of any given form.

## Use Case:

Now it's time for you to think out of the box for your organization. You have successfully created the database objects for the organization but now all eyes turn on you as you have to define what sort of information the objects store which you have created. As a life saver of your organization you come up with the idea of creating fields to store different types of data.

## Creating Opportunity Master Detail Relationship Field In Opportunity AutoMobile Object

To create fields in an object:

1. Go to setup >> click on Object Manager >> type object name(Opportunity Automobile) in quick find bar>> click on the object.



2. Now click on “Fields & Relationships” >> New



3. Select Data type as “Master Details Relationship”.

SETUP • OBJECT MANAGER

## Opportunity Automobile

Details

**Fields & Relationships**

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Component Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

List View Button Layout

Restriction Rules

Scoping Rules

### Opportunity Automobile New Custom Field

Step 1: Choose the field type

Specify the type of information that the custom field will contain.

**Data type**

☐ None Selected Select one of the field types below.

☐ Auto Number A system-generated sequence number that uses a display format you define. The number is automatically incremented for each new record.

☐ Formula A formula field that derives its value from a formula expression you define. The formula field is updated when any of the source fields change.

☐ Multiple Picklist Summary A picklist field that displays the sum, minimum, or maximum value of a field in a related list or the record count of all records listed in a related list.

☐ Lookup Relationship Create a relationship that links the object to another object. The relationship field allows users to click on a lookup icon to select a value from a popup list. The pop-up list is a special view of parent-child relationship between the object (the child, or "detail") and another object (the parent, or "master") where:

- The relationship field is required on all detail records.
- The ownership and sharing of a detail record are determined by the master record.
- When a user creates the master record, all detail records are deleted.
- The parent record's summary field is on the master record's summary field.

The relationship field allows users to click on a lookup icon to select a value from a popup list. The master object is the source of the values in the list. Updating a relationship that links the object to an existing object whose data is stored outside the Salesforce org.

☐ External Lookup Relationship

#### 4. Click on Next

Opportunity Automobile  
New Relationship

Step 2: Choose the related object Step 2 of 3

Select the other object to which the object is related.

Related To:

Previous Next Cancel

#### 5. Fill the above as following:

- Field Label: gets auto Generated(Opportunity) • Field Name : gets auto generated(Opportunity)
- Click on Next >> Next >> Save and new.

Opportunity Automobile  
New Relationship

Step 3: Enter the label and name for the lookup field Step 3 of 3

Field Label:

Field Name:

Description:

Help Text:

Child Relationship Name:

Displaying Summary: ☐ Select the minimum access level required on the Master record to create, edit, or delete related Detail records.

☐ Read Only: Allow users with at least Read access to the Master record to create, edit, or delete related Detail records.

☒ Read/Write: Allow users with at least Read/Write access to the Master record to create, edit, or delete related Detail records.

Allow reparenting: ☐ Child records can be reparented to other parent records after they are created.

Auto add to custom report type: ☒ Add this field to existing custom report types that contain this entity.

**Lookup Filter**

Optionally, create a filter to limit the records available to users in the lookup field. [Learn more.](#)

► [Show Filter Settings](#)

Previous Next Cancel

# Creating The AutoMobile Information Lookup Field In Opportunity Automobile Object

To create fields in an object:

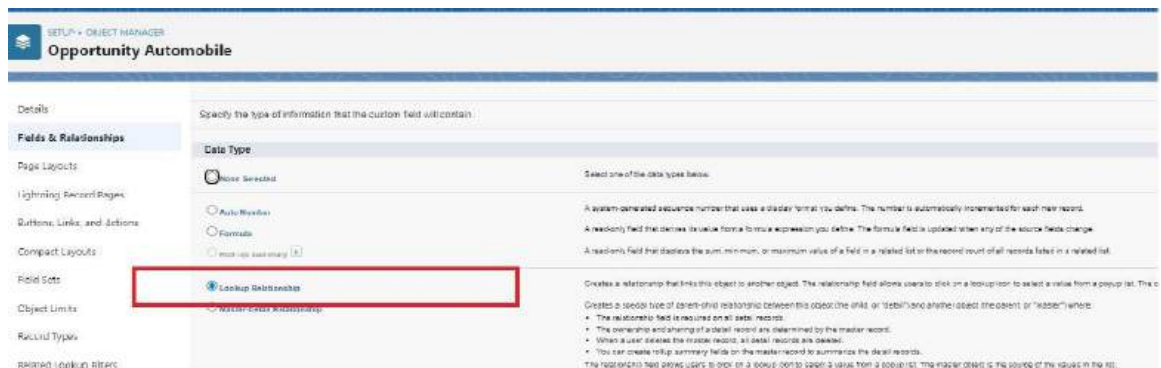
1. Go to setup >> click on Object Manager >> type object name(Opportunity Automobile) in quick find bar>> click on the object.



2. Now click on “Fields & Relationships” >> New



3. Select Data type as “Lookup Relationship”.



4. Click on Next



5. Fill the above as following:

a. Field Label: Automobile

b. Field Name : Automobile

6. Click on Next >>

Next>>

Save and new.

## Creating Quantity Number Field In Opportunity Automobile Object

To create fields in an object:

1. Go to setup >> click on Object Manager >> type object name(Opportunity Automobile) in quick find bar >> click on the object.
2. Now click on “Fields & Relationships” >> New.
3. Select Data type as “Number” and click Next.

a. Field Label >> Quantity

b. Field Name >> Quantity

The screenshot shows the Salesforce Setup interface for the 'Opportunity Automobile' object. The left sidebar lists navigation options: Details, Fields & Relationships (selected), Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, and Object Limits. The main content area is titled 'Step 2: Enter the details' and shows the configuration for a new field. The 'Field Label' is 'Quantity' and the 'Field Name' is 'Quantity'. The 'Length' is set to 18 and 'Decimal Places' is 0. The 'Required' checkbox is checked. The 'Field Name' is highlighted with a red box.

4. Check that Required Check box.
5. Click Next >> Next >> Save & New.

## Creating Formula Field In Opportunity Automobile Object

To create fields in an object:

1. Go to setup >> click on Object Manager >> type object name(Opportunity Automobile) in quick find bar >> click on the object.

1. Now click on “Fields & Relationships” >> New.
2. Select Data type as “Formula” and click Next.
3. Give Field Label and Field Name as “Unit Price” and select formula return type as “Currency” and change the decimal values to two and click next.

Opportunity: Automobile

## New Custom Field

Step 2: Choose output type Step 3 of 5

Field Label: **Unit Price** Field Name: **Unit\_Price**

Auto add to custom report type ☒ Add this field to existing custom report types that contain this entity [\(+\)](#)

**Formula Return Type**

☐ None Selected  
☐ Boolean  
☒ Currency  
☐ Date  
☐ Date/Time  
☐ Number  
☐ Percent  
☐ Text  
☐ Time

Options

Selections of the data type below:

Calculate a boolean value.  
Example: `(TOTAL() > 0) & true`

Calculate a date or date/time value and automatically format the field as a currency amount.  
Example: `(TOTAL() > 0) & true`

Calculate a date, for example, by adding or subtracting days to other dates.  
Example: `(TOTAL() > 0) & true`

Calculate a number, for example, by adding a number of days or days to another number.  
Example: `(TOTAL() > 0) & true`

Calculate a number value.  
Example: `(TOTAL() > 0) & true`

Calculate a percent and automatically add the percent sign to the number.  
Example: `(TOTAL() > 0) & true`

Calculate a time using the example by concatenating other text fields.  
Example: `(TOTAL() > 0) & true`

Calculate a time, for example, by adding a number of hours to another time.  
Example: `(TOTAL() > 0) & true`

Decimal Places: **2** Example: 999.00

[Previous](#) [Next](#) [Cancel](#)

4. Under Advanced Formula write down the formula : Automobile\_\_r.Price\_\_c

Simple Formula **Advanced Formula**

Insert Field Insert Operator ▼

**Unit Price (Currency) =**  
**Automobile\_\_r.Price\_\_c**

[Check Syntax](#) No syntax errors in merge fields or functions. (Compiled size: 31 characters)

5. click “Check Syntax” and Next >> Next >> Save & New.



## Creating The Formula Field In Opportunity Automobile Object

To create fields in an object:

1. Go to setup >> click on Object Manager >> type object name(Opportunity Automobile) in quick find bar >> click on the object.

1. Now click on “Fields & Relationships” >> New.
2. Select Data type as “Formula” and click Next.
3. Give Field Label and Field Name as “Total Price” and select formula return type as “Currency” and change the decimal values to two and click next.

The screenshot shows the 'New Custom Field' wizard in Salesforce. The title is 'New Custom Field' and the subtitle is 'Step 2: Choose field type'. The 'Field Label' is 'Total Price' and the 'Field Name' is 'Total\_Price'. The 'Formula Return Type' is set to 'Currency'. The 'Decimal Places' are set to 2. The 'Next' button is highlighted.

4. Under Advanced Formula write down the formula :  $\text{Unit\_Price\_c} * \text{Quantity\_c}$



5. click “Check Syntax” and Next >> Next >> Save.

## Updating Field In Invoice Object

To Update fields in an object:

1. Go to setup ? click on Object Manager ? type object name(Invoice) in quick find bar? click on the object.
2. Now click on “Fields & Relationships”, Click on the edit of Invoice Id field.

SETUP > OBJECT MANAGER  
Invoice

Details

**Fields & Relationships**  
# Items, Sorted by Field Label

Fields & Relationships

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedBy	Lookup(User)		
Last Modified By	LastModifiedBy	Lookup(User)		
Owner	OwnerId	Lookup(Group)		✓
Purchase Date	PurchaseDate_c	Date		
Quantity	Quantity_c	Number(18, 0)		
Total Price	TotalPrice_c	Number(18, 0)		
Unit Price	UnitPrice_c	Number(18, 0)		
Invoice ID	Name	Text(50)		✓

Edit

SETUP > OBJECT MANAGER  
Invoice

Details

**Fields & Relationships**

Field Invoice ID

The Record Name appears in page layouts, key lists, related lists, lookups, and search results. For example, the Record Name for Account is "Acco" referenced via the API.

Record Name: Invoice ID  
Example: Account Name

Data Type: Auto Number

Display Format: I-{0000}  
Example: A-{0000} What is This?

Starting Number: 1

Save Cancel

Recent Accounts

Account Name	City
Acme	New York
Global Media	Toronto
salesforce.com	San Francisco

3. Select Data type as “Auto Number ” and click Next.
  - a. Display Format :- I-{0000}
  - b. StartingNumber:-
4. Click Save.

## Creating Remaining Fields In Objects

Now create the remaining fields using the data types mentioned.

s.no	Object name	Fields	
1	Invoice		
		Field Name	Opportunity
		Data type	Master Detail relationship Object : Opportunity

## Page Layouts

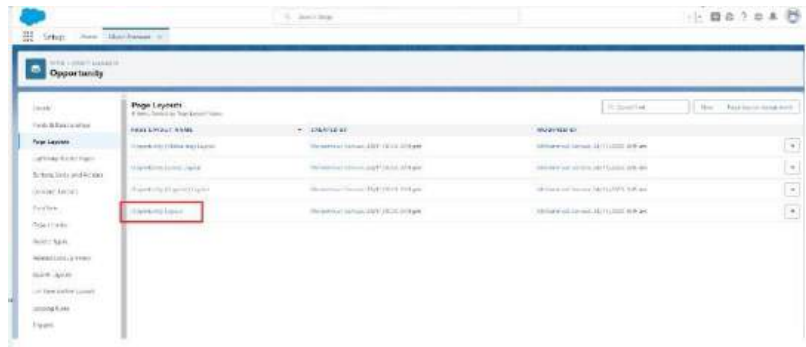
Page Layout in Salesforce allows us to customize the design and organize detail and edit pages of records in Salesforce. Page layouts can be used to control the appearance of fields, related lists, and custom links on standard and custom objects' detail and edit pages.

### Use Case:

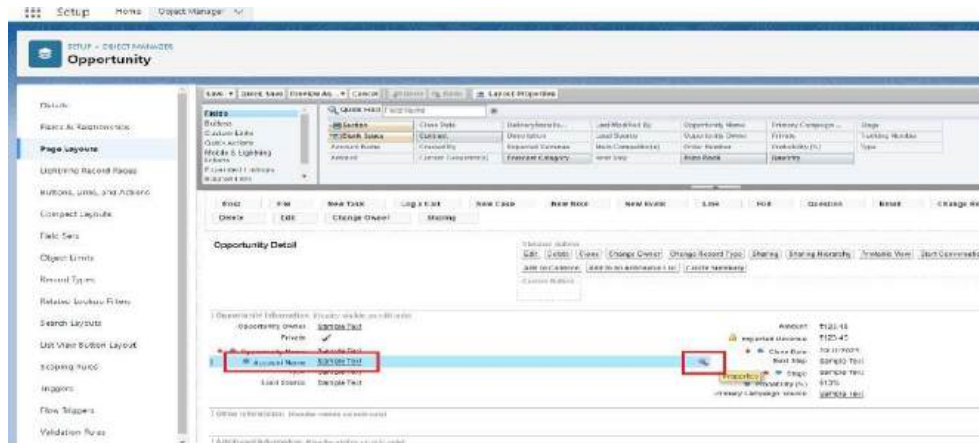
Hurray!! you have completed the data model structure for your organization but while looking at the detailed and edit pages it seems to be so clumsy, so decide to organize the page in a pleasant way for the sake of good and pleasant appearance and assemble all different kinds of information in different sections in order.

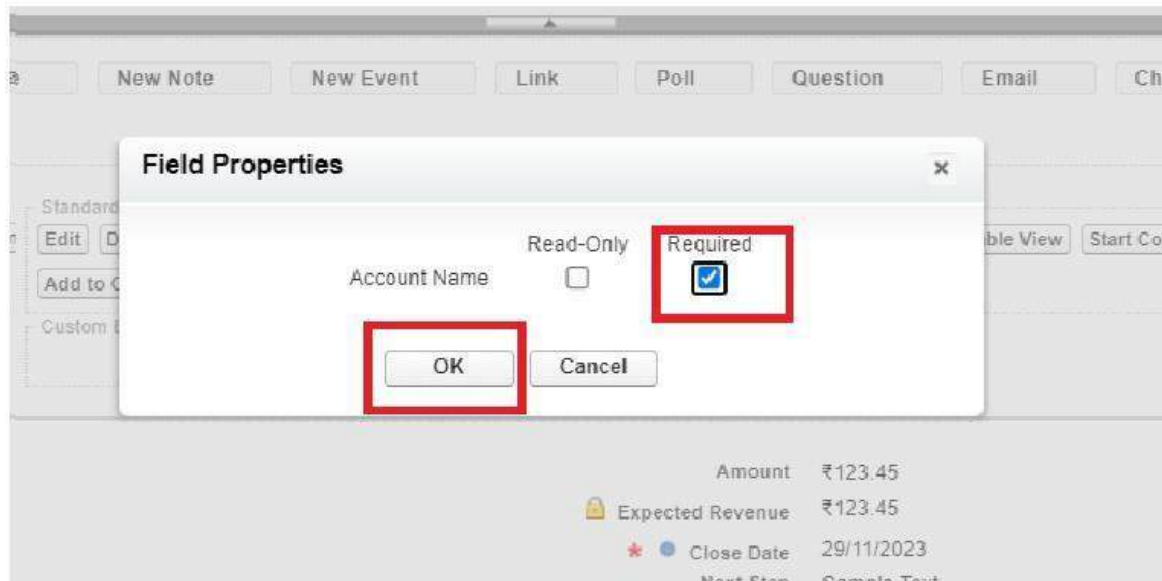
## Edit The Page Layout For Opportunity Object

Step 1: Go to Setup >> Click on Object Manager >> On the search bar, select Opportunity Layout. You can notice Page Layouts on the left panel Step 2: Click on Page Layouts, Click on 'Opportunity Layouts'.



Step 3: In the Opportunity Detail Section, you can see various fields. Go on Account And Click on that Properties icon of Account name Field.





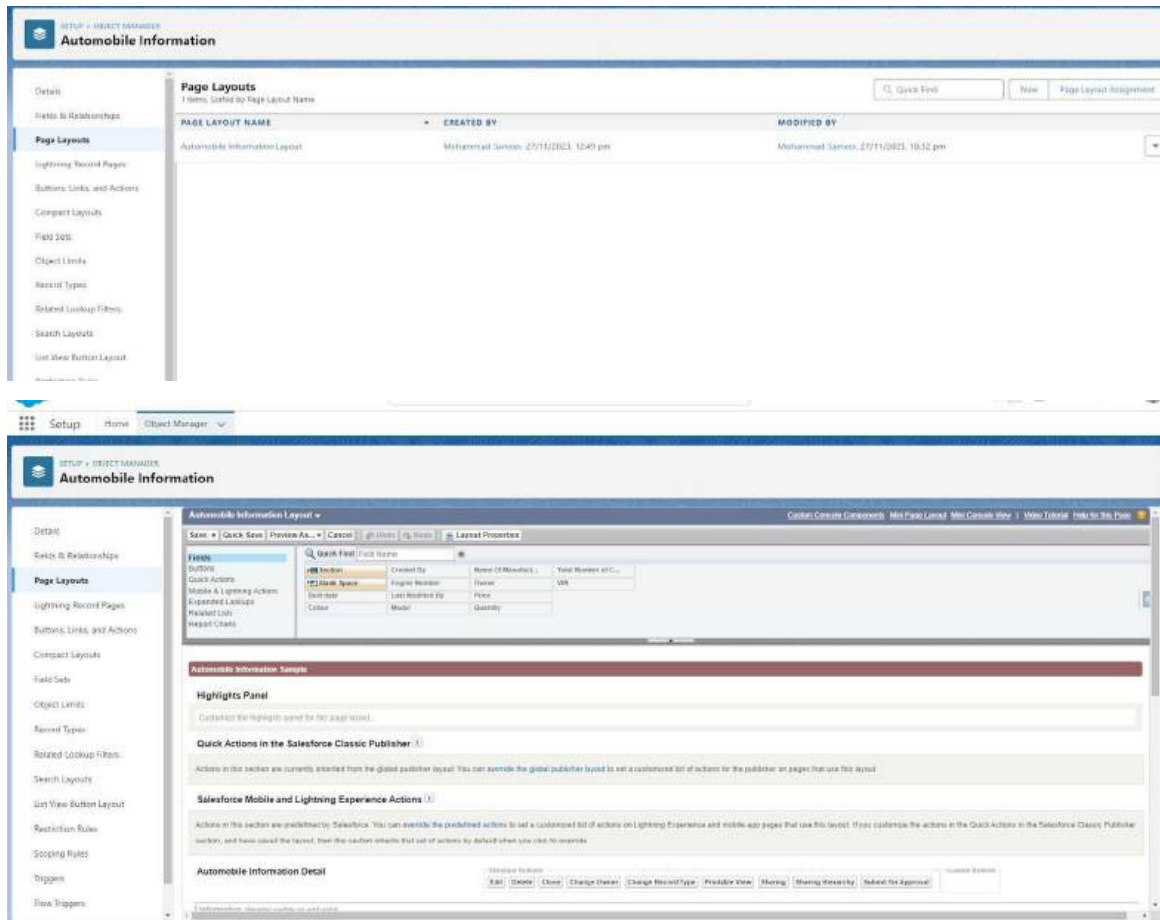
Step 4: check the Required box for Account name and click on Ok.

Step 5: Click on Save.

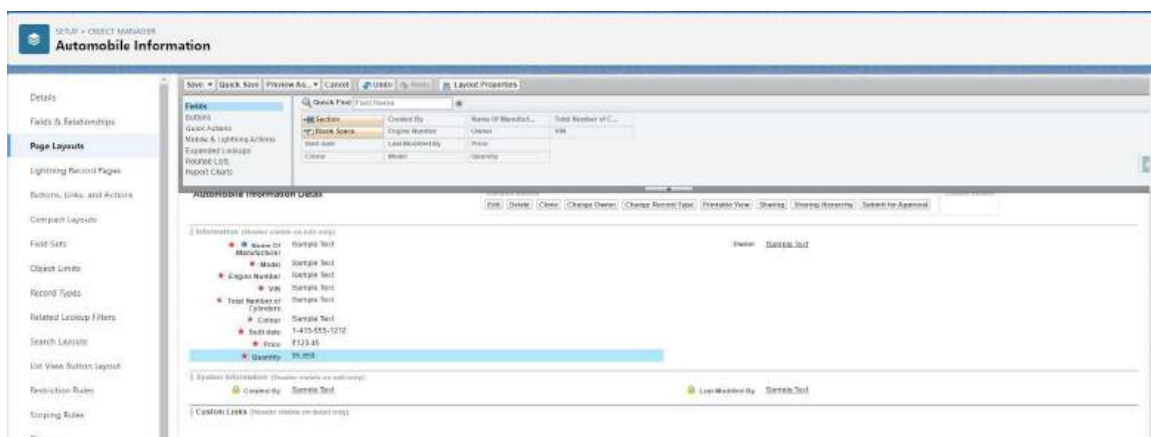
### **Edit The Page Layout For Automobiles Information**

Step 1: Go to Setup >> Click on Object Manager >> On the search bar, select Automobile Information. You can notice Page Layouts on the left panel

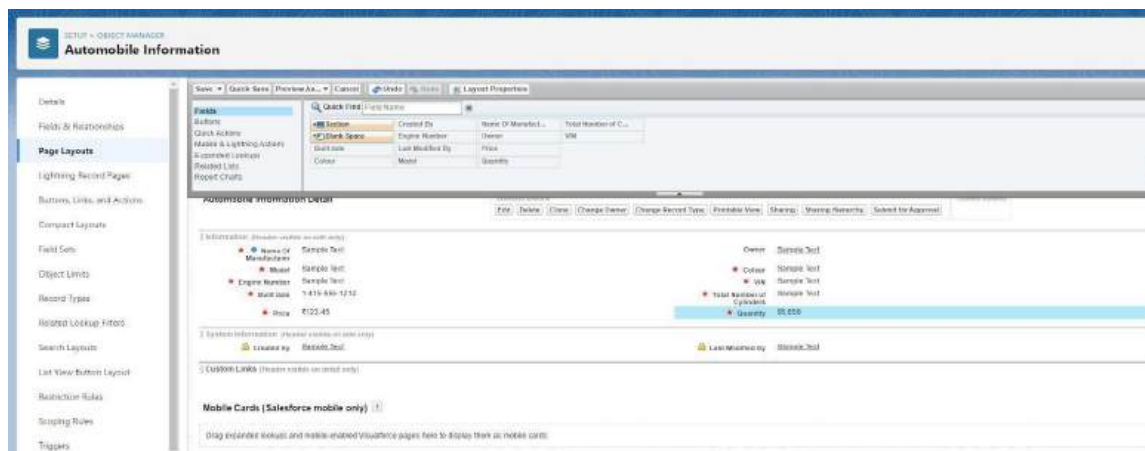
Step 2: Click on Page Layouts. Click on 'Automobile Information Layout'.



Step 3: Just Go for each one field of Automobile Information Object, Click on Gear Icon and mark as Required just as Done for Above Account Object. After required is done it will show the red color as given in below image.



Step 4 : Adjust the Fields as given below for A good looking view.



**Step 5 : Click on Save.**



## Apex Trigger

Apex can be invoked by using triggers. Apex triggers enable you to perform custom actions before or after changes to Salesforce records, such as insertions, updates, or deletions.

A trigger is Apex code that executes before or after the following types of operations:

- insert
- update
- delete
- merge
- upsert
- undelete

For example, you can have a trigger run before an object's records are inserted into the database, after records have been deleted, or even after a record is restored from the Recycle Bin.

You can define triggers for top-level standard objects that support triggers, such as a Contact or an Account, some standard child objects, such as a CaseComment, and custom objects. To define a trigger, from the object management settings for the object whose triggers you want to access, go to Triggers.

There are primarily two types of Apex Triggers:

**Before Trigger:** This type of trigger in Salesforce is used either to update or validate the values of a record before they can be saved into the database. So, basically, the before trigger validates the record first and then saves it. Some

criteria or code can be set to check data before it gets ready to be inserted into the database.

**After Trigger:** This type of trigger in Salesforce is used to access the field values set by the system and affect any change in the record. In other words, the after trigger makes changes to the value from the data inserted in some other record.

### **Opportunity Automobile Quantity**

**UseCase : Whenever Opportunity Closed won Than Neglect / Minus the Quantity From Automobile Information on the Bases of Opportunity Automobile quantity.**

1. Login to the respective trailhead account and navigate to the gear icon in the top right corner.
2. Click on the Developer console. Now you will see a new console window.
3. In the toolbar, you can see FILE. Click on it and navigate to new and create New apex class.
4. Name the class as “OpportunityHandlerClass”.

```

public class OpportunityHandlerClass {

    public static void opportunityAutomobileQuantity(List<Opportunity> LstOpportunity, Map<Id,Opportunity> OldMapOpportunity){
        set<Id> opportunityIds = new set<Id>();
        for(Opportunity opp : LstOpportunity){
            if(opp.StageName == 'Closed Won' ){
                opportunityIds.add(opp.Id);
            }
        }

        set<Id> opportunityIds = new set<Id>();
        for(Opportunity opp : LstOpportunity){
            if(opp.StageName == 'Closed Won' ){
                opportunityIds.add(opp.Id);
            }
        }

        Map<Id,Opportunity_Automobile__c> LstOpportunityAutomobile = new Map<Id,Opportunity_Automobile__c>([SELECT Id, Opportunity__c, Automobile__c, Quantity__c, Unit_Price__c, Total_Price__c
                                                                                                     FROM Opportunity_Automobile__c Where Opportunity__c IN: opportunityIds]);

        set<Id> AutoInformationIds = new set<Id>();
        for(Opportunity_Automobile__c OppAuto: LstOpportunityAutomobile.values()){
            if(OppAuto.Automobile__c != null){
                AutoInformationIds.add(OppAuto.Automobile__c);
            }
        }

        List<Automobile_Information__c> LstAutomobileInformation = new List<Automobile_Information__c>();
        Map<Id,Automobile_Information__c> MapAutomobileInformation = new Map<Id,Automobile_Information__c>([SELECT Quantity__c, Price__c, Name, Id
                                                                                                     FROM Automobile_Information__c
                                                                                                     WHERE Id IN: AutoInformationIds]);

        for(Opportunity_Automobile__c AutoOpp : LstOpportunityAutomobile.values()){
            decimal num = 0;
            if(AutoOpp.Automobile__c == MapAutomobileInformation.get(AutoOpp.Automobile__c).Id && OldMapOpportunity.get(AutoOpp.Opportunity__c).StageName != 'Closed Won'){

                num = MapAutomobileInformation.get(AutoOpp.Automobile__c).Quantity__c - AutoOpp.Quantity__c;
                MapAutomobileInformation.get(AutoOpp.Automobile__c).quantity__c = num;
                LstAutomobileInformation.add(MapAutomobileInformation.get(AutoOpp.Automobile__c));
            }
        }

        if(!LstAutomobileInformation.isEmpty()){
            update LstAutomobileInformation;
        }
    }
}

```

**Code:**

```
public class OpportunityHandlerClass {

    public static void opportunityAutomobileQuantity(List<Opportunity>
LstOpportunity, Map<Id,Opportunity> OldMapOpportunity){        set<Id>
opportunityIds = new set<Id>();    for(Opportunity opp : LstOpportunity){

        if(opp.StageName        =='Closed        Won'        ){
opportunityIds.add(opp.Id);
        }
    }

    Map<Id,Opportunity_Automobile__c>    lstOpportunityAutomobile    =new
Map<Id,Opportunity_Automobile__c>([SELECT        Id,        Opportunity__c,
Automobile__c,    Quantity__c,    Unit_Price__c,    Total_Price__c    FROM
Opportunity_Automobile__c Where Opportunity__c IN: opportunityIds]);

    set<Id>        AutoInformationIds        =        new        set<Id>();
for(Opportunity_Automobile__c    OppAuto:    lstOpportunityAutomobile.values()){
if(OppAuto.Automobile__c != null){
        AutoInformationIds.add(OppAuto.Automobile__c);
    }
}

List<Automobile_Information__c>    lstAutomobileInfomation        =
    new List<Automobile_Information__c>();

    Map<Id,Automobile_Information__c>    MapAutomobileInformation    =    New
Map<Id,Automobile_Information__c>([SELECT    Quantity__c,    Price__c,    Name,    Id
FROM Automobile_Information__c WHERE Id IN: AutoInformationIds]);
```

```

        For(Opportunity_Automobile__c                AutoOpp                :
lstOpportunityAutomobile.Values()){
            decimal num = 0;
            if(AutoOpp.Automobile__c                ==
MapAutomobileInformation.get(AutoOpp.Automobile__c).Id                &&
OldMapOpportunity.get(AutoOpp.Opportunity__c).stagename != 'Closed Won'){
num    =
MapAutomobileInformation.get(AutoOpp.Automobile__c).Quantity__c-
AutoOpp.Quantity__c;
            MapAutomobileInformation.get(AutoOpp.Automobile__c).quantity__c
= num;

lstAutomobileInfomation.add(MapAutomobileInformation.get(AutoOpp.Automobi
le__c));
        }
    }
    If(!lstAutomobileInfomation.IsEmpty()){
update lstAutomobileInfomation;
    }

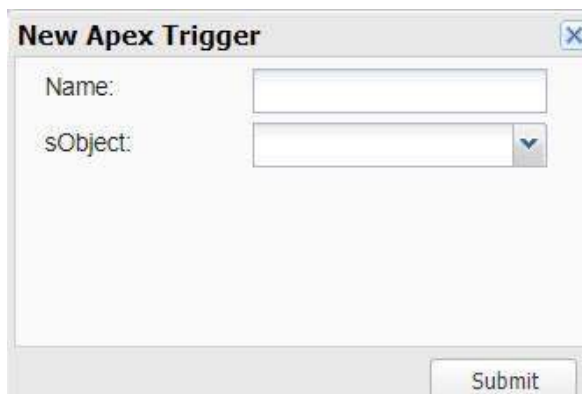
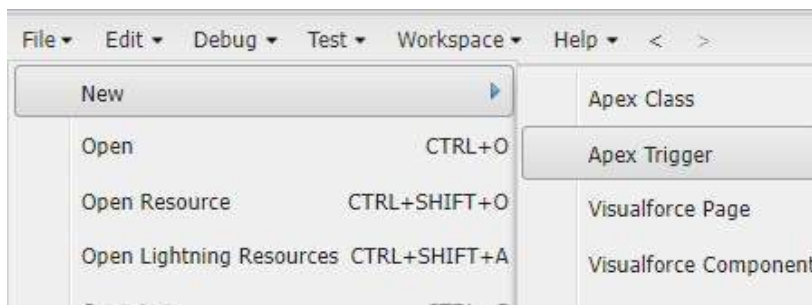
}
}

```

### **Trigger Handler :**

How to create a new trigger :

1. While still in the account, navigate to the gear icon in the top right corner.
2. Click on developer console and you will be navigated to a new console window.
3. Click on the File menu in the toolbar, and click on new? Trigger.
4. Enter the trigger name and the object to be triggered.
5. Name : OpportunityTrigger
6. sObject : Opportunity



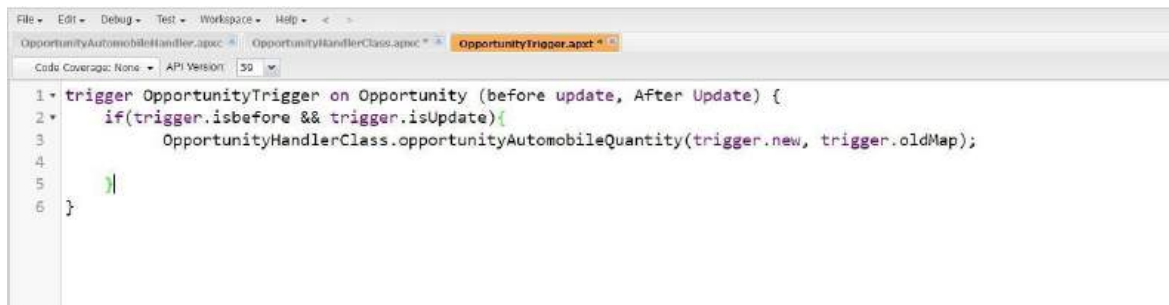
Syntax For creating trigger :

The syntax for creating trigger is :

```
Trigger [trigger name] on [object name]( Before/After event){  
//block of code  
}
```

In this project , trigger is called whenever the particular records sum exceed the threshold i.e minimum business requirement value. Then the code in the trigger will get executed.

## 1. Trigger for Opportunity Object.



```
trigger OpportunityTrigger on Opportunity (before update, After Update) {  
if(trigger.isbefore && trigger.isUpdate){  
    OpportunityHandlerClass.opportunityAutomobileQuantity(trigger.new,  
trigger.oldMap);  
} }
```

## Opportunity-Automobile Error

**UseCase : If Quantity of Automobile is Zero or Less than The Quantity from The Opportunity-Automobile Than Throw an error .**

Login to the respective trailhead account and navigate to the gear icon in the top right corner.

1. Click on the Developer console. Now you will see a new console window.
2. In the toolbar, you can see FILE. Click on it and navigate to new and create New apex class.

### 3. Name the class as “OpportunityAutomobileHandler”.



```

1 public class OpportunityAutomobileHandler {
2     public static void quantityErrorOnAutomobileInformation(List<Opportunity_Automobile__c> lstOpportunityAutomobile){
3         Set<Id> AutomobileIds = new Set<Id>();
4         For(Opportunity_Automobile__c OppAutomobile : lstOpportunityAutomobile){
5             If(Opportunity_Automobile__c != null){
6                 AutomobileIds.add(Opportunity_Automobile__c);
7             }
8         }
9         Map<Id, Automobile_Information__c> lstAutomobileInformation = new Map<Id, Automobile_Information__c>([SELECT Id, CreatedById, Quantity__c, Price__c
10             FROM Automobile_Information__c WHERE Id IN: AutomobileIds]);
11         For(Opportunity_Automobile__c OppAutomobile : lstOpportunityAutomobile){
12             If(Opportunity_Automobile__c == lstAutomobileInformation.get(Opportunity_Automobile__c).Id && lstAutomobileInformation.get(Opportunity_Automobile__c).Quantity__c < OppAutomobile.Quantity__c){
13                 OppAutomobile.addError('The number of Automobile u want are not available !! The Automobile are available count is ' + lstAutomobileInformation.get(Opportunity_Automobile__c).Quantity__c);
14             }
15         }
16     }
17 }

```

#### Code:

```

public class OpportunityAutomobileHandler {

    public static void quantityErrorOnAutomobileInformation(List<Opportunity_Automobile__c>
lstOpportunityAutomobile){

        set<Id> AutomobileIds = new Set<Id>();

        For(Opportunity_Automobile__c      OppAutomobile      :
lstOpportunityAutomobile){

            if(oppAutomobile.Automobile__c != null){

                AutomobileIds.add(oppAutomobile.Automobile__c);

            }

        }

        Map<Id, Automobile_Information__c>  lstAutomobileInformation  =  new
map<Id, Automobile_Information__c>([SELECT Id, CreatedById, Quantity__c, Price
c FROM Automobile_Information__c WHERE Id IN: AutomobileIds]);

        For(Opportunity_Automobile__c      OppAutomobile      :
lstOpportunityAutomobile){

            If(OppAutomobile.Automobile__c ==

lstAutomobileInformation.get(OppAutomobile.Automobile__c).Id    &&
lstAutomobileInformation.get(OppAutomobile.Automobile__c).Quantity__c
<
OppAutomobile.Quantity__c){

```



```

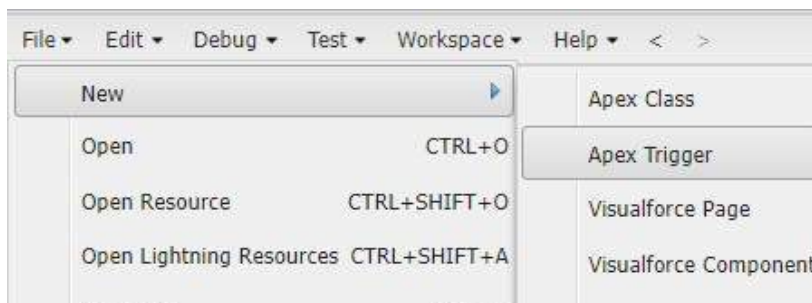
        OppAutomobile.addError('the Number of Automobile u want are not
        Available !! the Automobile are Available Count is ' +
        lstAutomobileInformation.get(OppAutomobile.Automobile__c).Quantity__c );
    }
}
}
}
}

```

### Trigger Handler :

How to create a new trigger :

1. While still in the trailhead account, navigate to the gear icon in the top right corner.
2. Click on developer console and you will be navigated to a new console window.
3. Click on the File menu in the toolbar, and click on new? Trigger.
4. Enter the trigger name and the object to be triggered.
5. Name : OpportunityAutoMobileTrigger
6. sObject : Opportunity\_Automobile\_\_c



The image shows a 'New Apex Trigger' window. It contains two input fields: 'Name:' and 'sObject:'. The 'sObject:' field has a dropdown arrow on its right side. At the bottom right of the window is a 'Submit' button.

## Trigger :

Handler for the Opportunity\_Automobile\_\_c Object

```

1 * trigger OpportunityAutoMobileTrigger on Opportunity_Automobile__c (before insert, before Update) {
2 *     if(trigger.isbefore && trigger.isinsert || trigger.isupdate){
3 *         OpportunityAutomobileHandler.quantityErrorOnAutomobileInformation(trigger.new);
4 *     }
5 * }

```

**Code:** trigger OpportunityAutoMobileTrigger on Opportunity\_Automobile\_\_c  
(before insert, before Update) { if(trigger.isbefore && trigger.isinsert ||  
trigger.isupdate){

OpportunityAutomobileHandler.quantityErrorOnAutomobileInformation(trigger.new);  
}  
}

## Invoice Creation Trigger

**UseCase :** Whenever an opportunity is Closed won then create the Invoice on the Bases of Opportunity Automobile Data.

Login to the respective trailhead account and navigate to the gear icon in the top right corner.

1. Click on the Developer console. Now you will see a new console window.
2. In the toolbar, you can see FILE. Click on it and navigate to new and create New apex class.
3. Name the class as “InvoiceCreation”.

```
public class InvoiceCreation {
    public static void opportunityClosedwonInvoiceGeneration(List<Opportunity> lstOpportunity, Map<Id,Opportunity>oldMapOpportunity){
        Set<Id> oppIds = new Set<Id>();
        for(Opportunity opp : lstOpportunity){
            if(opp.StageName == 'Closed Won' && OldMapOpportunity.get(opp.Id).StageName != opp.StageName){
                oppIds.add(opp.Id);
            }
        }
        List<Opportunity_Automobile__c> lstOpportunityAutomobile = [SELECT Unit_Price__c, Total_Price__c, Automobile__c, Quantity__c,Opportunity__c, Id FROM Opportunity_Automobile__c WHERE Opportunity__c IN: oppIds];
        Set<Closedwon__c> lstInvoice = new Set<Closedwon__c>();
        for(Opportunity_Automobile__c oppAuto : lstOpportunityAutomobile){
            Invoice__c i = new Invoice__c();
            i.Quantity__c = oppAuto.Quantity__c;
            i.Unit_Price__c = oppAuto.Unit_Price__c;
            i.Total_Price__c = oppAuto.Total_Price__c;
            i.Purchase_Date__c = Date.today();
            i.Opportunity__c = oppAuto.Opportunity__c;
            lstInvoice.add(i);
        }
        if(lstInvoice.isEmpty()){
            insert lstInvoice;
        }
    }
}
```

## Code:

```
public class InvoiceCreation {
    public static void
    OpportunityClosedwonInvoiceGeneration(List<Opportunity> lstOpportunity,
    Map<Id,Opportunity>OldMapOpportunity){
        Set<Id> oppIds = new Set<Id>();
        For(Opportunity opp : lstOpportunity){
            if(opp.StageName == 'Closed Won' &&
            OldMapOpportunity.get(opp.Id).StageName != opp.StageName){
                oppIds.add(opp.Id);
            }
        }
    }
}
```

```
List<Opportunity_Automobile__c> lstOpportunityAutomobile = [SELECT
Unit_Price__c, Total_Price__c, Automobile__c, Quantity__c,Opportunity__c, Id
FROM Opportunity_Automobile__c WHERE Opportunity__c IN: oppIds];
```

```

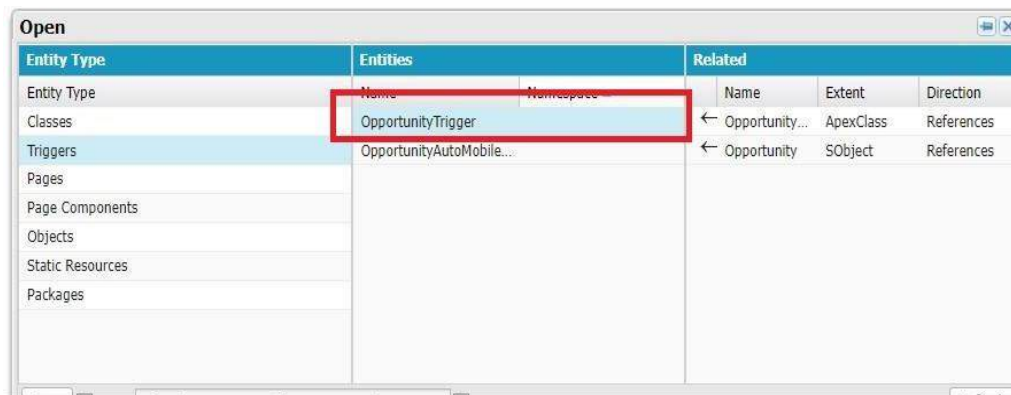
List<Invoice__c> lstInvoice = new List<Invoice__c>();
For(Opportunity_Automobile__c oppAuto : lstOpportunityAutomobile){
    Invoice__c i = new Invoice__c();
    i.Quantity__c = oppAuto.Quantity__c;
    i.Unit_Price__c = oppAuto.Unit_Price__c;
    i.Total_Price__c = oppAuto.Total_Price__c;
    i.Purchase_Date__c = date.today();
    i.Opportunity__c          =          oppAuto.Opportunity__c;
lstInvoice.add(i);
}
if(!lstInvoice.isEmpty()){
insert lstInvoice;
}
}
}

```

### **Trigger Handler :**

For this class we don't need to create any trigger, we will call this Code in "Opportunity Trigger".

1. Go on files and click on open.
2. Click on triggers.
3. Double click on OpportunityTrigger.



```

Code Coverage: None | API Version: 59
1 trigger OpportunityTrigger on Opportunity (before update, After Update) {
2     if(trigger.isbefore && trigger.isUpdate){
3         OpportunityHandlerClass.opportunityAutomobileQuantity(trigger.new, trigger.oldMap);
4     }
5 }
6 IF(trigger.isafter && trigger.isupdate){
7     InvoiceCreation.OpportunityClosedwonInvoiceGeneration(trigger.new, trigger.oldMap);
8 }
9 }

```

## Trigger:

```

trigger OpportunityTrigger on Opportunity (before update, After Update) {
    if(trigger.isbefore && trigger.isUpdate){
        OpportunityHandlerClass.opportunityAutomobileQuantity(trigger.new,
        trigger.oldMap);
    }
    IF(trigger.isafter && trigger.isupdate){
        InvoiceCreation.OpportunityClosedwonInvoiceGeneration(trigger.new,
        trigger.oldMap);
    }
}

```

## Check Contact Role

**UseCase : Whenever an opportunity is Going to Closed won then check it has the contact role or Not.**

Login to the respective trailhead account and navigate to the gear icon in the top right corner.

1. Click on the Developer console. Now you will see a new console window.
2. In the toolbar, you can see FILE. Click on it and navigate to new and create New apex class.
3. Name the class as “ContactRoleCheck”.

```
public class ContactRoleCheck {  
    public static void CheckContactRoleonOpportunity(List<Opportunity> lstOpportunity, Map<Id,Opportunity>OldMapOpportunity){  
        List<OpportunityContactRole> lstContactRole = [SELECT Id From OpportunityContactRole WHERE OpportunityId IN: OldMapOpportunity.keySet()];  
        For(Opportunity opp : lstOpportunity){  
            if(opp.StageName == 'Closed Won' && OldMapOpportunity.get(opp.Id).StageName != opp.StageName){  
                If(lstContactRole.isEmpty()){  
                    opp.adderror('Please add contact Role on opportunity whenever Opportunity is Going to Closed Won.');                }  
            }  
        }  
    }  
}
```

### Trigger:

```
public class ContactRoleCheck { public static void  
CheckcontactRoleonOpportunity(List<Opportunity> lstOpportunity,  
Map<Id,Opportunity>OldMapOpportunity){  
    List<OpportunityContactRole> lstContactRole = [SELECT Id From  
OpportunityContactRole WHERE OpportunityId IN:  
OldMapOpportunity.keySet()];  
    For(Opportunity opp : lstOpportunity){  
        if(opp.StageName == 'Closed Won' &&  
OldMapOpportunity.get(opp.Id).StageName != opp.StageName){  
            If(lstContactRole.isEmpty()){
```

```
        opp.adderror('Please add contact Role on opportunity whenever  
Opportunity is Going to Closed Won.');
```

```
    }
```

```
  }
```

```
}
```

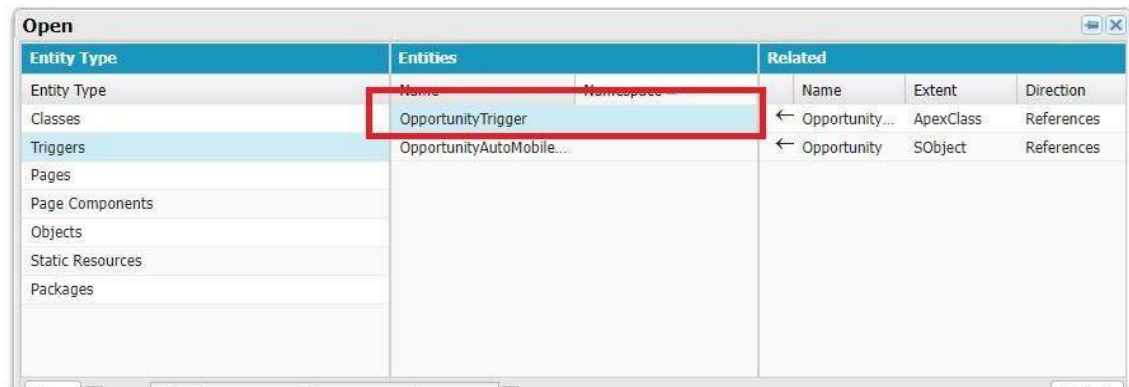
```
}
```

```
}
```

## Trigger Handler :

For this class we don't need to create any trigger, we will call this Code in "Opportunity Trigger".

1. Go on files and click on open.
2. Click on triggers.
3. Double click on OpportunityTrigger.



## Trigger Code :

```
Code Coverage: None | API Version: 59
1 trigger OpportunityTrigger on Opportunity (before update, After Update) {
2     if(trigger.isbefore && trigger.isUpdate){
3         OpportunityHandlerClass.opportunityAutomobileQuantity(trigger.new, trigger.oldMap);
4         ContactRoleCheck.CheckcontactRoleonOpportunity(trigger.new, trigger.oldMap);
5     }
6     IF(trigger.isafter && trigger.isupdate){
7         InvoiceCreation.OpportunityClosedwonInvoiceGeneration(trigger.new, trigger.oldMap);
8     }
9 }
```

Trigger:

```
trigger OpportunityTrigger on Opportunity (before update, After Update) {
if(trigger.isbefore && trigger.isUpdate){
    OpportunityHandlerClass.opportunityAutomobileQuantity(trigger.new,
trigger.oldMap);
}
```



```

        ContactRoleCheck.CheckcontactRoleonOpportunity(trigger.new,
trigger.oldMap);
    }
    IF(trigger.isafter && trigger.isupdate){
InvoiceCreation.OpportunityClosedwonInvoiceGeneration(trigger.new,
trigger.oldMap);
    }
}

```

## LWC Component:

### Create Apex Class To Get Invoices

1. Login to the respective account and navigate to the gear icon in the top right corner.
2. Click on the Developer console.
3. Now you will see a new console window.
4. In the toolbar, you can see FILE.
5. Click on it and navigate to new and create New apex class.
6. Name the class as “OpportunityInvoiceswithLWC”.



```

1 public class OpportunityInvoiceswithLWC {
2     @AuraEnabled(cacheable=true)
3     public static List<Invoice__c> getInvoices(string OpportunityId){
4         return [SELECT Id, Quantity__c, Purchase_Date__c, Opportunity__c, Unit_Price__c, Total_Price__c, Name FROM Invoice__c WHERE Opportunity__c =: OpportunityId];
5     }
6 }
7

```

## Code:

```

public class OpportunityInvoiceswithLWC {
    @AuraEnabled(cacheable=true)    public static List<Invoice__c>
    getInvoices(string OpportunityId){        return [SELECT Id,
    Quantity__c, Purchase_Date__c, Opportunity__c, Unit_Price__c,
    Total_Price__c, Name FROM Invoice__c WHERE Opportunity__c
    =: OpportunityId];
        }

}

```

## Install Salesforce CLI

The Salesforce CLI is a powerful command line interface that simplifies development and build automation when working with your Salesforce org.

### [Download and install Salesforce CLI](#)

To confirm that the Salesforce CLI is installed and working correctly, you can open a command prompt and type sfdx. This will display the version number of the Salesforce CLI that is currently installed on your system.

```
C:\Users\ navee>sfdx
Salesforce CLI

VERSION
  sfdx-cli/7.182.1 win32-x64 node-v18.12.1

USAGE
  $ sfdx [COMMAND]

TOPICS
  alias      manage username aliases
  auth       authorize an org for use with the Salesforce CLI
  config     configure the Salesforce CLI
  force      tools for the Salesforce developer
  info       access cli info from the command line
  plugins    add/remove/create CLI plug-ins
  version

codekiat.com
```

## Install Microsoft VS Code

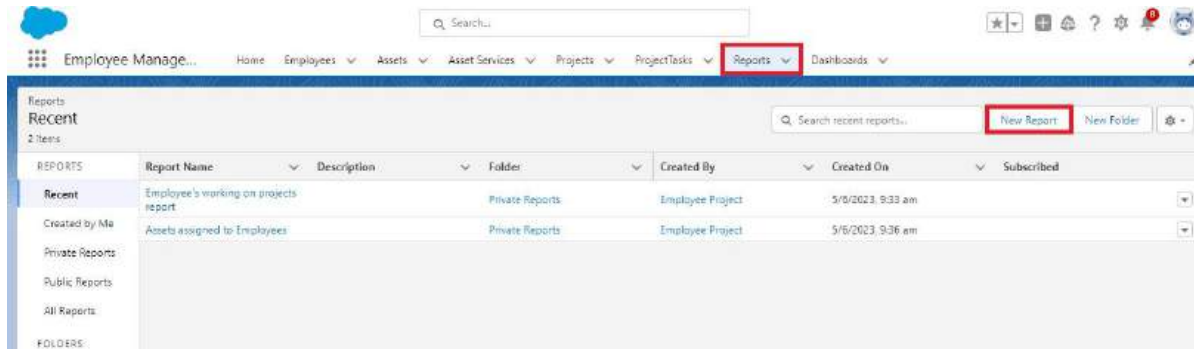
VS Code, or Visual Studio Code, is a free, open-source code editor developed by Microsoft. It is a lightweight, cross-platform code editor that provides features such as debugging, Git integration, and support for a wide range of programming languages.

[Download the version of the software](#) that is compatible with your operating system and install it. The following instructions are for Windows OS. Other operating systems may have slightly different steps.

## OUTPUT :

### Create Report on Opportunity

1. Go to the app >> click on the reports tab
2. Click New Report.



3. Select report type from category or from report type panel or from search panel >> click on start report.



4. Customize your report

- Add fields from left pane as shown below

Employee Manager

Home Employees Assets Asset Services Projects ProjectTasks Reports Dashboards

REPORT New Employees Report Employees

Previewing a limited number of records. Run the report to see everything.

Employee (Employee Name)	Employee ID	Reports to	Login Time	Logout Time	Mode of Work	LinkedIn Profile
Employee	4059-0000000000					http://https://linkedin
Emp for Jambhantell	4059-0000000000		8:00 am	8:00 pm		https://linkedin

Update Preview Automatically

REPORT Opportunity Closed Won Report Opportunities

Previewing a limited number of records. Run the report to see everything.

Account Name	Opportunity Name	Owner Role	Opportunity Owner	Stage	Next Step	Lead Source	Type
-(1)	Task		Muhammad Samir	Closed Won		Web	Existing Customer - Upgrade
Subtotal							
Burlington Textiles Corp of America (1)	Burlington Textiles Weaving Plant Generator		Muhammad Samir	Closed Won		Web	New Customer
Subtotal							
Dickerson plk (1)	Dickerson Mobile Generators		Muhammad Samir	Qualification		Purchased List	New Customer
Subtotal							
Edge Communications (4)	Edge Emergency Generator		Muhammad Samir	Closed Won		Word of mouth	New Customer
	Edge Installation		Muhammad Samir	Closed Won		Word of mouth	Existing Customer - Upgrade
	Edge SLA		Muhammad Samir	Closed Won		Word of mouth	Existing Customer - Upgrade
	Edge Emergency Generator		Muhammad Samir	In Decision Makers			Existing Customer - Replacement
Subtotal							
Grand Hotels & Resorts Ltd (3)	Grand Hotels Kitchen Generator		Muhammad Samir	In Decision Makers			Existing Customer - Upgrade
	Grand Hotels Guest Portable Generators		Muhammad Samir	Value Proposition		Employee Referral	Existing Customer - Upgrade
	Grand Hotels Generator Installation		Muhammad Samir	Closed Won		External Referral	Existing Customer - Upgrade
	Grand Hotels SLA		Muhammad Samir	Closed Won		External Referral	Existing Customer - Upgrade
	Grand Hotels Emergency Generator		Muhammad Samir	Closed Won		External Referral	New Customer
Subtotal							

Add the Above Filter as well.

5. Save or run it.

Note: Reports may get varied from the above pictures as the data might be different.

## Create Report on Automobile Information

1. Create a report with a report type: “Automobile Information”.

REPORT

Automobile Information Report

Automobile Information

Previewing a limited number of records. Run the report to see everything.

Automobile Information Name Of Manufacturer	Model	Built date	Total Number of Cylinders	Colour	Quantity	Price	VIN
Toyota	Corolla	15-05-2022	4	Red	12	\$20,000	1-4CZCMB2158004152
Ford	Mustang	10-01-2022	8	Blue	54	\$15,000	2C3RC20G40H121456
Subaru	Outback	14-10-2022	6	Green	56	\$20,000	5N6T2451L121456
Hyundai	Sonata	08-06-2022	4	Red	38	\$16,000	10TYY320333125456
Nissan	Altima	25-02-2022	4	Silver	77	\$24,000	2T2W61U40C125456
Audi	A4	12-08-2022	4	Blue	6	\$13,000	10N6T2R791125456
Mercedes-Benz	C-Class	18-09-2022	6	Gray	34	\$18,000	3N1B1CP9H9125456
BMW	3 Series	05-04-2022	6	White	116	\$42,000	WAPVAP76X125456
Chevrolet	Malibu	30-11-2022	6	Black	33	\$18,000	5N1B1E242125456
					450	\$276,000	

Filters:-

REPORT

Automobile Information Report

Automobile Information

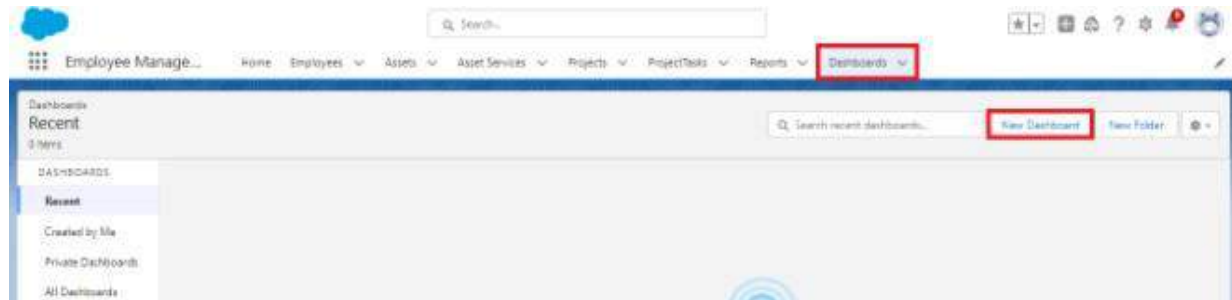
Previewing a limited number of records. Run the report to see everything.

Automobile Information Name Of Manufacturer	Model	Built date	Total Number of Cylinders	Colour	Quantity	Price	VIN
1 Toyota	Corolla	15-05-2022	4	Red	12	\$20,000	1-4CZCMB2158004152
2 Ford	Mustang	10-01-2022	8	Blue	54	\$15,000	2C3RC20G40H121456
3 Subaru	Outback	14-10-2022	6	Green	56	\$20,000	5N6T2451L121456
4 Hyundai	Sonata	08-06-2022	4	Red	38	\$16,000	10TYY320333125456
5 Nissan	Altima	25-02-2022	4	Silver	77	\$24,000	2T2W61U40C125456
6 Audi	A4	12-08-2022	4	Blue	6	\$13,000	10N6T2R791125456
7 Mercedes-Benz	C-Class	18-09-2022	6	Gray	34	\$18,000	3N1B1CP9H9125456
8 BMW	3 Series	05-04-2022	6	White	116	\$42,000	WAPVAP76X125456
9 Chevrolet	Malibu	30-11-2022	6	Black	33	\$18,000	5N1B1E242125456
10					450	\$276,000	

2. Create a Report by using “Opportunities with Opportunity Automobiles and Automobile” Report Type.

reate Dashboard

1. Go to the app ? click on the Dashboards tabs.

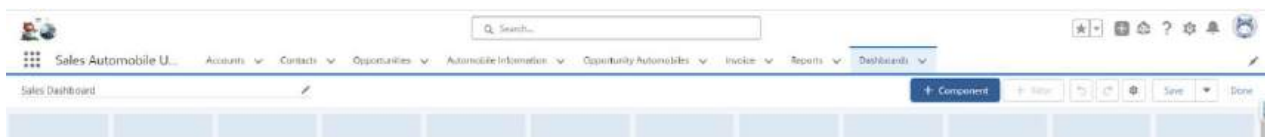


2. Give a Name and click on Create.

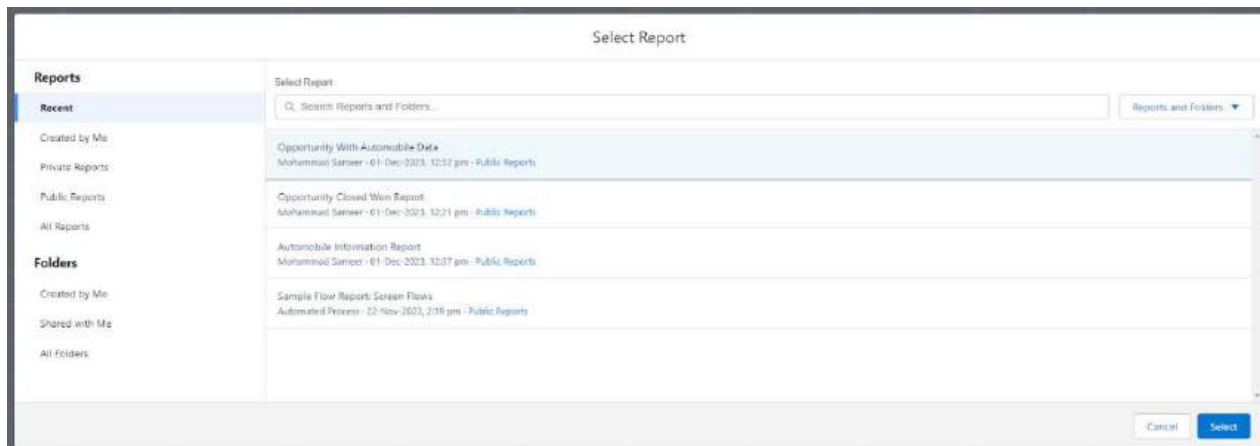
A screenshot of the 'New Dashboard' form in Salesforce. The form has a title 'New Dashboard' and a subtitle 'Recent'. It contains three input fields: 'Name' (with the text 'Dashboard 1'), 'Description', and 'Folder' (with the text 'Private Dashboards'). There is a 'Select Folder' button next to the Folder field. At the bottom right, there are two buttons: 'Cancel' and 'Create'. The 'Create' button is highlighted with a red box.

Name : Automobile Sales

3. Select add component.



4. Select a Report and click on select.



5. Click Add then click on Save and then click on Done.

The Created Dashboard will look like this.





## Conclusion :

The integration of CRM into the automotive industry has proven to be a strategic move that yields significant benefits. By streamlining operations, enhancing customer relationships, and driving sales, CRM empowers automotive businesses to thrive in an increasingly competitive market.

Key advantages include:

- **Improved Customer Experience:** Personalized interactions, efficient issue resolution, and proactive service contribute to enhanced customer satisfaction and loyalty.
- **Optimized Sales Processes:** CRM tools streamline sales funnels, track leads effectively, and facilitate efficient deal closures.
- **Enhanced Marketing Effectiveness:** Targeted campaigns, data-driven insights, and precise customer segmentation lead to higher conversion rates and ROI.
- **Efficient Service Management:** Streamlined service scheduling, optimized inventory management, and improved technician productivity contribute to superior after-sales service.
- **Data-Driven Decision Making:** Comprehensive data analysis enables informed business decisions, strategic planning, and risk mitigation.

## Future Enhancements

To maximize the potential of CRM in the automotive industry, future enhancements should focus on the following areas:

- **AI-Powered Insights:** Leveraging AI to analyze vast amounts of customer data to identify emerging trends, predict customer behavior, and provide proactive recommendations.
- **Omnichannel Integration:** Seamlessly integrating CRM with various channels (e.g., websites, mobile apps, social media) to deliver consistent customer experiences across all touchpoints.
- **Predictive Analytics:** Utilizing advanced analytics to forecast future trends, identify potential risks, and optimize resource allocation.
- **IoT Integration:** Connecting CRM with IoT devices to gather real-time vehicle data, enabling predictive maintenance, personalized offers, and enhanced customer service.
- **Blockchain Technology:** Implementing blockchain for secure and transparent data sharing, particularly in areas like vehicle history, maintenance records, and supply chain management.

By embracing these future enhancements, automotive businesses can further elevate customer experiences, streamline operations, and gain a competitive edge in the evolving automotive landscape.