A CRM APPLICATION FOR LAPTOP RENTALS

CRM Application on Laptop rentals is about delivering the items to the customers by rental purpose. It leverages the power of customer relationship management (CRM) to enhance customer experiences, optimize store operations, and improve overall efficiency. Additionally to these, we also need to do an effective CRM i.e via communicating through email with the potential customers identified.

Salesforce

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.

Object Creation

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

Create Total Laptops Object

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

    1) Enter the label name>> Total Laptops

    2) Plural label name>> Total Laptops

    3) Enter Record Name Label and Format

    Record Name >>Total Laptops

    Data Type >> Text
2. Click on Allow reports,Allow search and Track Field History,
3. Allow search >> Save.

Create consumer Object

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

1) Enter the label name >> consumer

2) Plural label name >> consumer

3) Enter Record Name Label and Format

Record Name >> consumer_name

Data Type >> Name

2. Click on Allow reports,Allow search and Track Field History,
3. Allow search >> Save.

Create Laptop Bookings Object

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

1) Enter the label name >> Laptop Bookings

2) Plural label name >> Laptop Bookings

3) Enter Record Name Label and Format

Record Name >> Laptop Bookings

Data Type >> Name

2. Click on Allow reports,Allow search and Track Field History,
3. Allow search >> Save.

Create Billing Process Object

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

1) Enter the label name >> Billing Process

2) Plural label name >> Billing Process

3) Enter Record Name Label and Format

Record Name >> Billing ProcessName

Data Type >> Name

2. Click on Allow reports,Allow search and Track Field History,
3. Allow search >> Save.

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.

1. **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.

2. **Lightning Component Tabs**

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

3. **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.

Creating a Custom Tab

To create a Tab:

1. Go to setup page >> Type Tabs in Quick Find bar >> click on tabs >> New
2. Select Object(Total Laptops) >> Select the tab style >> Next (Add to profiles page) keep it as default >> Next (Add to Custom App) uncheck the include tab .
3. Make sure that the Append tab to users' existing personal customizations is checked.
4. save

The Lightning App

An app is a collection of items that work together to serve a particular function. In Lightning Experience, Lightning apps give your 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.

Create a Lightning App

To create a lightning app page:

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 as LAPTOP RENTALS >>Next >> (App option page) keep it as default >> Next >> (Utility Items) keep it as default >> Next.
3. Upload a photo that is related to your app.
4. To Add Navigation Items:
5. Select the items (Total Laptops,consumer,Laptop Booking,Billing Process) from the search bar and move it using the arrow button >> Next.
6. To Add User Profiles:

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

Fields

When we talk about Salesforce, Fields represent the data stored in the columns of a relational database. It can also 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.

To create fields in an object:

1. Go to setup >> click on Object Manager >> type object name(consumer) in search bar >> click on the object.

2. Now click on “Fields & Relationships” >> New
3. Select Data Type as a “Phone”
4. Click on next

- Fill the Above as following:
- Field Label: Phone number
- Field Name : gets auto generated
- Click the required option checkbox.
- Click on Next >> Next >> Save and new.

To create another fields in an object:

1. Go to setup >> click on Object Manager >> type object name(consumer) in search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “Email” and Click on Next
4. Fill the Above as following:

- Field Label: Email
- Field Name :It’s gets auto generated
- Click on Next >> Next >> Save and new.

To create another fields in an object:

1. Go to setup >> click on Object Manager >> type object name(consumer) in search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “Text Area” and Click on Next
4. Fill the Above as following:

- Field Label: Address
- Field Name : It’s gets auto generated
- Select Required field.
- Click on Next >> Next >> Save and new.

To create another fields in an object:

1. Go to setup >> click on Object Manager >> type object name(consumer) in search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “Picklist” and Click on Next
4. Fill the Above as following:

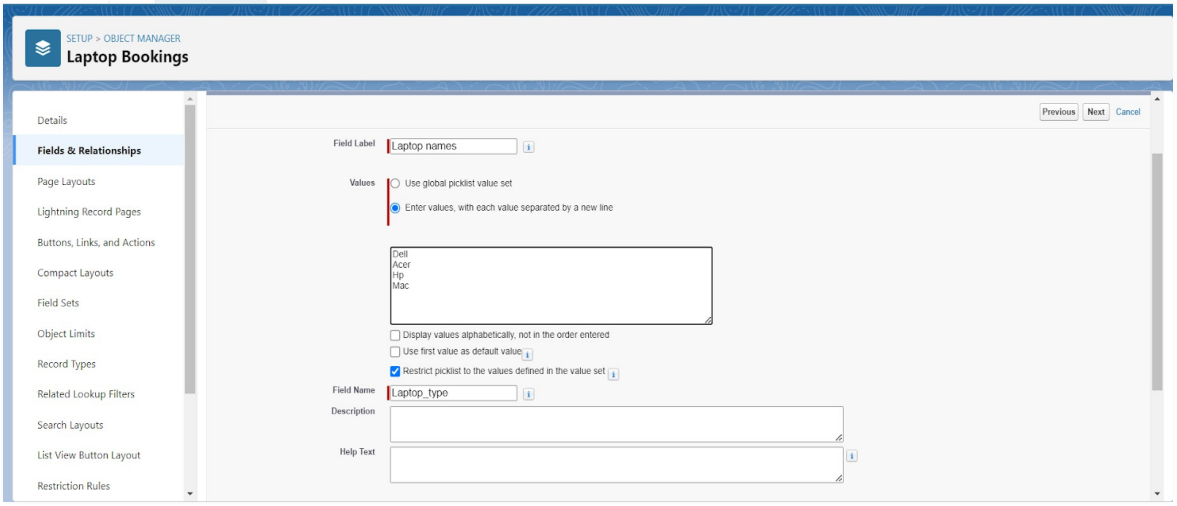
- Field Label: consumer Status
- Value - Select enter values with each value separated by a new line
- Student

- Employee
- Others
- Select required
- Field Name :It's gets auto generated
- Click on Next >> Next >> Save and new.

Creating the field in Laptops Bookings object

To create fields in an object:

1. Go to setup >> click on Object Manager >> type object name(Laptop Booking) in the search bar >> click on the object.
2. Now click on "Fields & Relationships" >> New
3. Select Data Type as a "Picklist"
4. Picklist values are:-1.Dell 2. Acer 3.Hp 4.Mac



5. Select required
6. Click on Next >> Next >> Save and new

2. To Create a Fields & Relationship to an Laptop Booking Object

To create fields & relationship to an object:

1. Go to setup >> click on Object Manager >> type object name(Laptop Booking) in the search bar >> click on the object.
2. Now click on "Fields & Relationships" >> New
3. Select Data Type as a "Picklist"
4. Picklist values are:-1.core i3 2. Core i5 3. Core i7 .

5. Select required
6. Click on Next >> Next >> Save and new

NOTE:-

Field Dependency:

1. A field dependency refers to a relationship between two fields on an object where the values of one field determine the available values for another field. Field dependencies are commonly used to create picklist field relationships, where the available options in a dependent picklist are determined by the value selected in a controlling picklist.

Need to use Field Dependency:

1. By using the field dependency we can get the different Values by selecting the different Picklist.

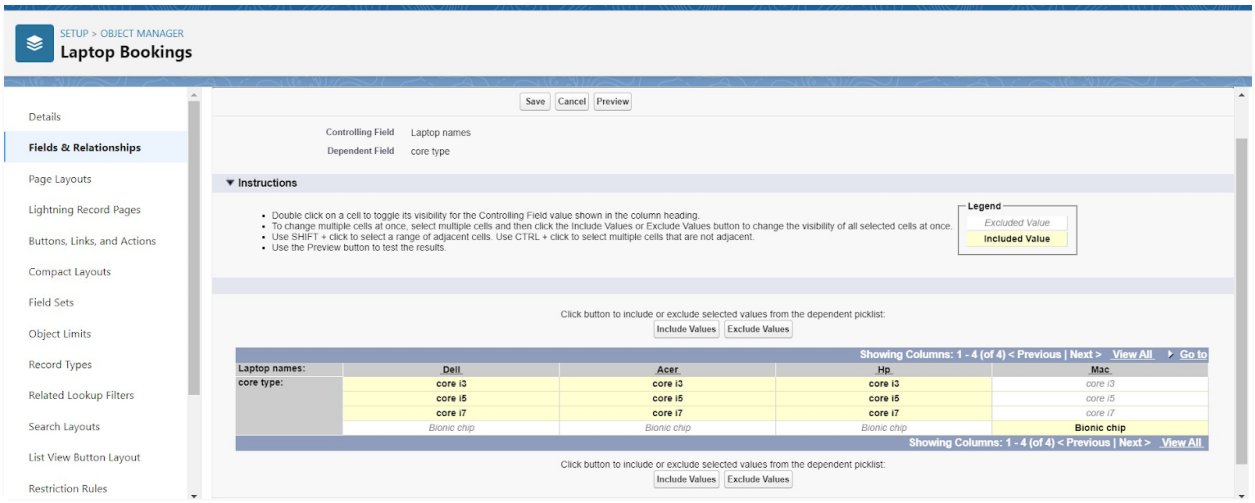
To Create a Fields & Relationship to an Laptop Booking Object

To create fields & relationship to an object:

1.Go to setup >> click on Object Manager >> type object name(Laptop Booking) in the search bar >> click on the object.

2.click field dependency and next

3. Click the include value for dell-core i3,i5,i7 and for acer i3,i4,i5 and for hp i3,i4,i5 and also for mac bionic chip include the values for it.



Click save.

To Create a Fields & Relationship to an Laptop Booking Object

To create fields & relationship to an object:

1. Go to setup >> click on Object Manager >> type object name(Laptop Booking) in the search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New

3. Select Data Type as a “Lookup Relationship”
4. Click on Next
5. Click on the Related to drop down and Select the “consumer” object and click on Next
6. Fill the Above as following:

- Change the Field Label: Name
- Field Name :It’s gets auto generated

7. Click on Next >> Next >> Save and new.

To create fields in an object:

1.Go to setup >> click on Object Manager >> type object name(Laptop Booking) in the 2.search bar >> click on the object.

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

4.Select Data Type as a “Currency”

5.Click on Next

Fill the Above as following:

- Field Label: Amount
- Length: (18,0)
- Field Name :It’s gets auto generated
- Click on Next >> Next >> Save and new

To Create a Fields & Relationship to an Object

1. Go to setup >> click on Object Manager >> type object name(Laptop Booking) in the search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data Type as a “Lookup Relationship”
4. Click on Next

- Click on the Related to drop down and Select the “Total Laptops” object and click on NextFill the Above as following:
- Change the Field Label: Total No Of Laptops
- Field Name :It’s gets auto generated
- Click on Next >> Next >> Save and new.

4. To Create a Fields & Relationship to an Laptop Booking Object

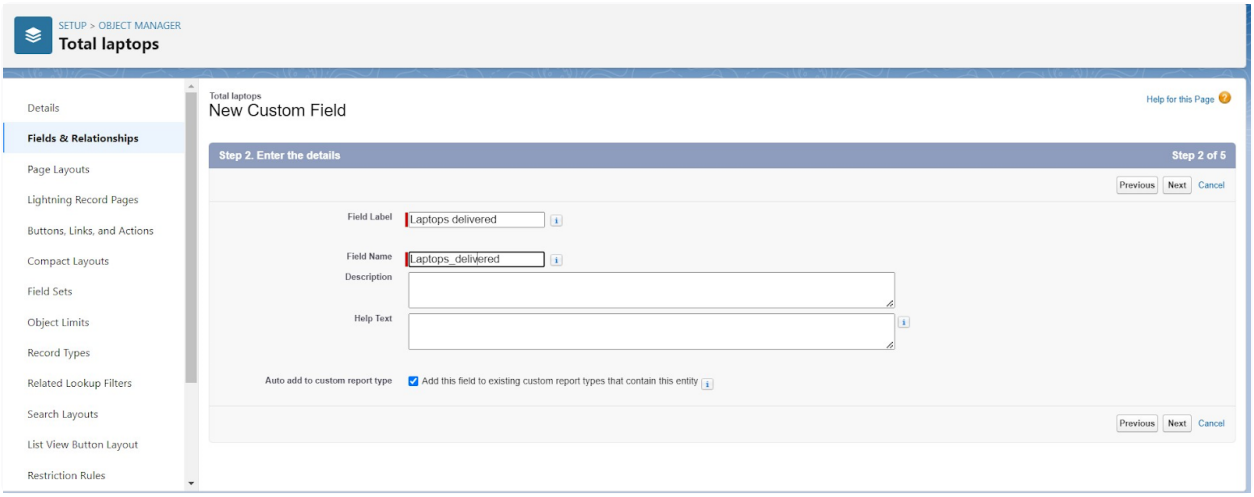
To create fields & relationship to an object:

8. Go to setup >> click on Object Manager >> type object name(Laptop Booking) in the search bar >> click on the object.
9. Now click on “Fields & Relationships” >> New
10. Select Data Type as a “Email”
11. Click on Next and save it.

NOTE:- fill the records which you have created in consumer and laptop bookings and give relations also. After saving the records go to the laptop bookings object and edit lookup to master the detailed relationship.

To Create a Rollup Summary Field in “Total Laptops Object”

1. After Creating the Lookup Relationship Than Only you can create the Rollup Summary
2. Go to setup >> click on Object Manager >> type object name(Total Laptops) in the search bar >> click on the object.
3. Now click on “Fields & Relationships” >> New
4.
5. Select Data type as a “Roll-up Summary” and Click on Next

- Fill the Above as following:
- Field Label: Laptops delivered
- Field Name :It’s gets auto generated
- 

- Click on Next

6. Select the Laptop Bookings in the Summarized Object
7. Select the count Radio button in the select Roll-up Type

8. To create fields in an object:

1. Go to setup >> click on Object Manager >> type object name(Laptop Booking) in the search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “Formula” and Click on Next
4. Fill the Above as following:

- Field Label: Laptops Available
- Field Name : It’s gets auto generated
- Select the Formula Return Type as “Number”
- Select the Decimal places as “0” and Click on Next
- Click on the Advanced Formula and Enter the value in formula box “ 50 - ” and Click on insert field than you will find a pop window under the Laptop Booking select the Total No Of Laptops in the second Column and select the Laptops delivered in the third column and click on insert
- “ 50 - Total_no_of_laptops__r.Laptops_delivered__c ” and Check Syntax
-
- Click on Next >> Next >> Save and new

To create fields in an object:

1.Go to setup >> click on Object Manager >> type object name(Laptop Booking) in the
2.search bar >> click on the object.
3.Now click on “Fields & Relationships” >>New
4.Select Data Type as a “picklist”

5. Picklist values are 1.2.3.4.5
6. Click and save it.

Creation of Fields & Relationship for Billing Process Object

1. To create fields & relationship to an object:

1. Go to setup >> click on Object Manager >> type object name(Billing Process) in the search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data Type as a “Master-detail Relationship”
4. Click on Next
5. Click on the Related to drop down and Select the consumer object and click on Next
6. Fill the Above as following:

- Change the Field Label: Name
- Field Name :It's gets auto generated
- Click on Next >> Next >> Save and new.

2. To create another fields & relationship to an object:

1. Go to setup >> click on Object Manager >> type object name(Billing Process) in the search bar >> click on the object.
2. Now click on "Fields & Relationships" >> New
3. Select Data Type as a "Lookup Relationship"
4. Click on Next
5. Click on the Related to drop down and Select the Laptop Booking object and click on Next
6.
7. Fill the Above as following:

- Change the Field Label: Laptop Booking
- Field Name :It's gets auto generated
- Click on Next >> Next >>Save and new.

3. Creation of another fields for the billing process object

To create fields in an object:

1. Go to setup >> click on Object Manager >> type object name(Billing Process) in the search bar >> click on the object.
2. Now click on "Fields & Relationships" >> New
3. Select Data Type as a "Picklist"
4. Fill the Above as following:

- Field Label: Payment Mode
- Value >> Select enter values with each value separated by a new line

1. Cash
2. Check
3. Credit card
4. Debit card
5. UPI
6. Phonepe
7. Gpay
8. Paytm

- Select required
- Click on Next >> Next >> Save and new.

Cross Object Formula Field:

In Salesforce, a cross-object formula field allows you to create a formula that references fields from related objects. It enables you to perform calculations or display data from related records without the need for custom code or complex workflows.

Why do we need to create the Cross Object Formula Field:

If we want to get the Particular field from another object in that case we will use the Cross object Formula field. For that First we need to create the relationship b/w two objects and relate the field with formula data type.

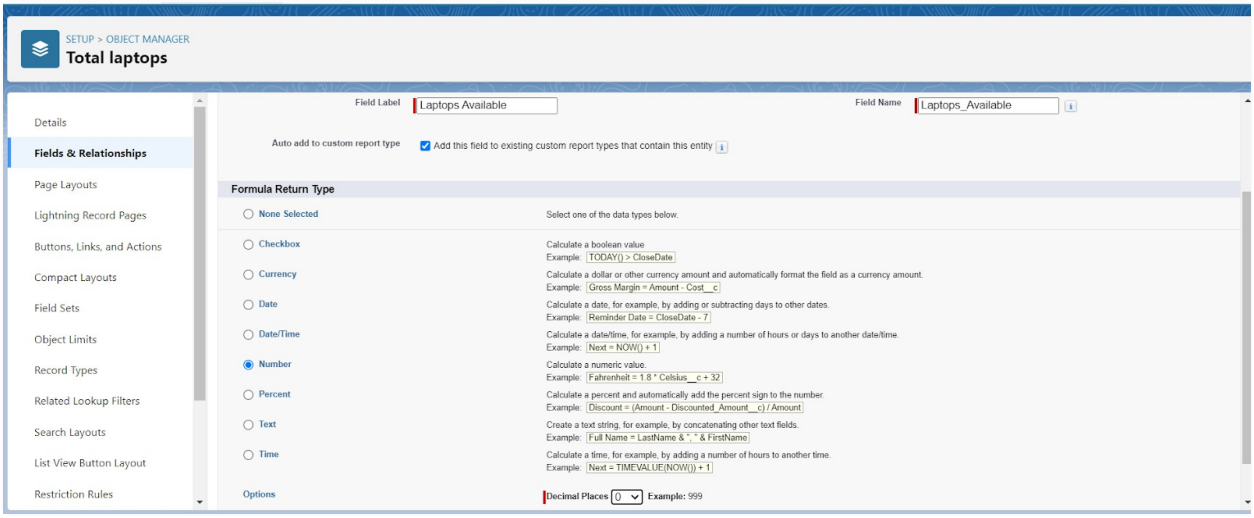
4. Create a Cross object formula Field in billing process Object

1. Go to setup >> click on Object Manager >> type object name(Billing Process) in the search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data Type as a “Formula”
4. Click on Next
5. Enter the Field label: Amount, the Field name gets auto generated and click on Next.(Formula return type Number).
6. In the Advanced Formula Click on the Insert field in the popup Screen Select the Billing Process and in the second drop down select the Laptop Booking and in the three drop down select the Amount field and click on Insert
7. “ Laptop_Booking__r.Amount__c ”.
8. Click on the Check syntax: No syntax errors in merge fields
9.
10. Click on Next >> Next >> Save and new.

Creating the field in Total Laptops object

1. To create fields in an object:

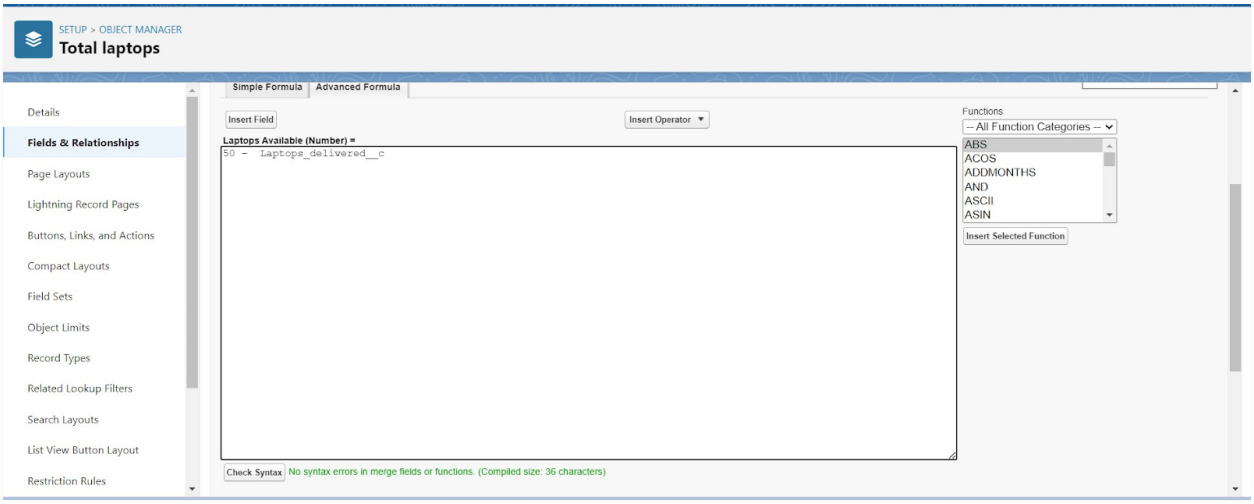
1. Go to setup >> click on Object Manager >> type object name(Total Laptops) in search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “Formula” and Click on Next
4. Fill the Above as following:
5. Field Label: Laptops Available
6. Field Name : It’s gets auto generated
7. Select the Formula Return Type as “Number”

8. 

9. Select the Decimal places as “0” and Click on Next

Note: I am Considering “Total No Of Laptops = 50” While creating a new record in Total Laptops Object.

1. Click on the Advanced
2. Formula “ 50 - Laptops_delivered__c ” and Check Syntax



3.
4. Click on Next >>Next >>Save and new.

Validation rule

Validation rules are applied when a user tries to save a record and are used to check if the data meets specified criteria. If the criteria are not met, the validation rule triggers an error message and prevents the user from saving the record until the issues are resolved.

Improve the quality of your data using validation rules. Validation rules verify that the data a user enters in a record meets the standards you specify before the user can save the record. A validation rule can contain a formula or expression that evaluates the data in one or more fields and returns a value of “True” or “False”. Validation rules also include an error message to display to the user when the rule returns a value of “True” due to an invalid value.

Creating the validation rule for phone number field in consumer object

1. Go to the setup page - click on object manager - From drop down click edit for consumer object.
2. Click on the validation rule - click New.
3. Enter the Rule name as “Phonenumberoremailblankrule ”.
4. Enter the description as “phone number and email number should not be blank”.
5. Enter the formula as “OR(ISBLANK(phone_number__c) , ISBLANK(email__c))” and check the syntax.
6. Save the validation rule.

Profiles

A profile is a group/collection of settings and permissions that define what a user can do in salesforce. Profile controls “Object permissions, Field permissions, User permissions, Tab settings, App settings, Apex class access, Visualforce page access, Page layouts, Record Types, Login hours & Login IP ranges. You can define profiles by the user's job function. For example System Administrator, Developer, Sales Representative.

Types of profiles in salesforce

1. Standard profiles:

By default salesforce provides below standard profiles.

- Contract Manager
- Read Only
- Marketing User
- Solutions Manager

- Standard User
- System Administrator.

We cannot deleted standard ones

Each of these standard ones includes a default set of permissions for all of the standard objects available on the platform.

2. Custom Profiles:

Custom ones defined by us.

They can be deleted if there are no users assigned with that particular one.

owner Profile

To create a new profile:

1. Go to setup >> type profiles in quick find box >> click on profiles >> clone the desired profile (Standard User) >> enter profile name (owner) >> Save.
2. Scroll down to Custom Object Permissions and Give access permissions for Total Laptops, consumers

3. Give Access and Save it.

Agent Profile

1. Go to setup >> type profiles in quick find box >> click on profiles >> clone the desired profile (Standard Platform User) >> enter profile name (Agent) >>Save.
2. While still on the profile page, then click Edit.
3. Scroll down to Custom Object Permissions and Give access permissions for Total Laptops, consumer , Laptop Bookings and Billing Process objects as mentioned in the below diagram.
4. Give access and save it.

Roles and Hierarchy

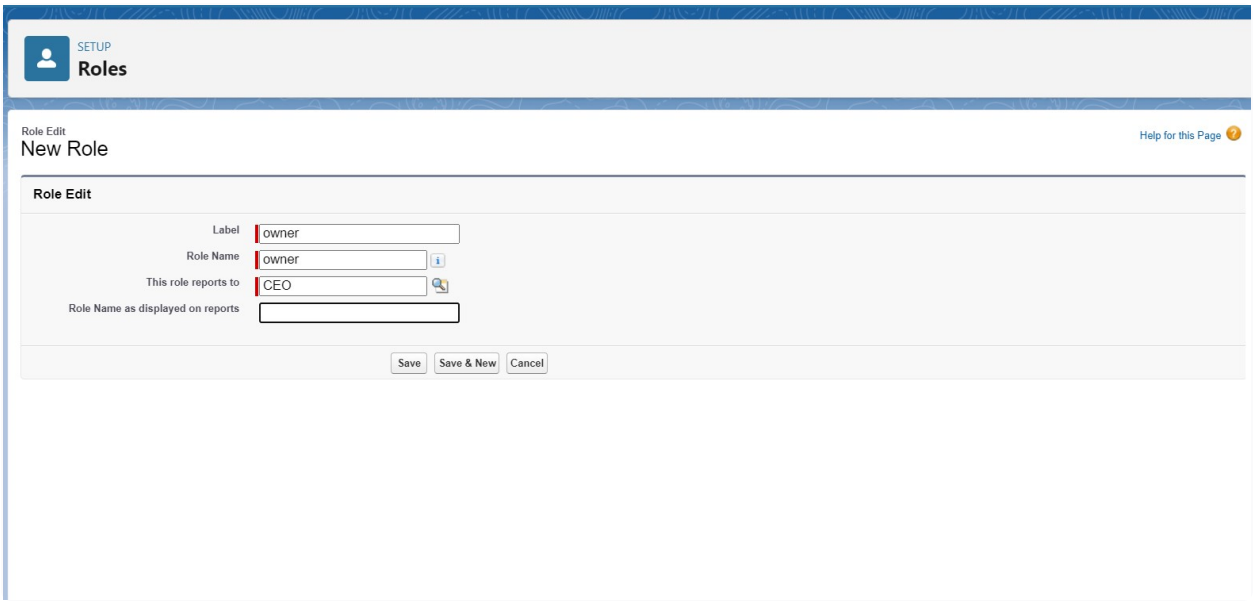
A role in Salesforce defines a user's visibility access at the record level. Roles may be used to specify the types of access that people in your Salesforce organization can have to data. Simply put, it describes what a user could see within the Salesforce organization.

Creating owner Role

Creating owner Role:

1. Go to quick find >> Search for Roles >> click on set up roles.

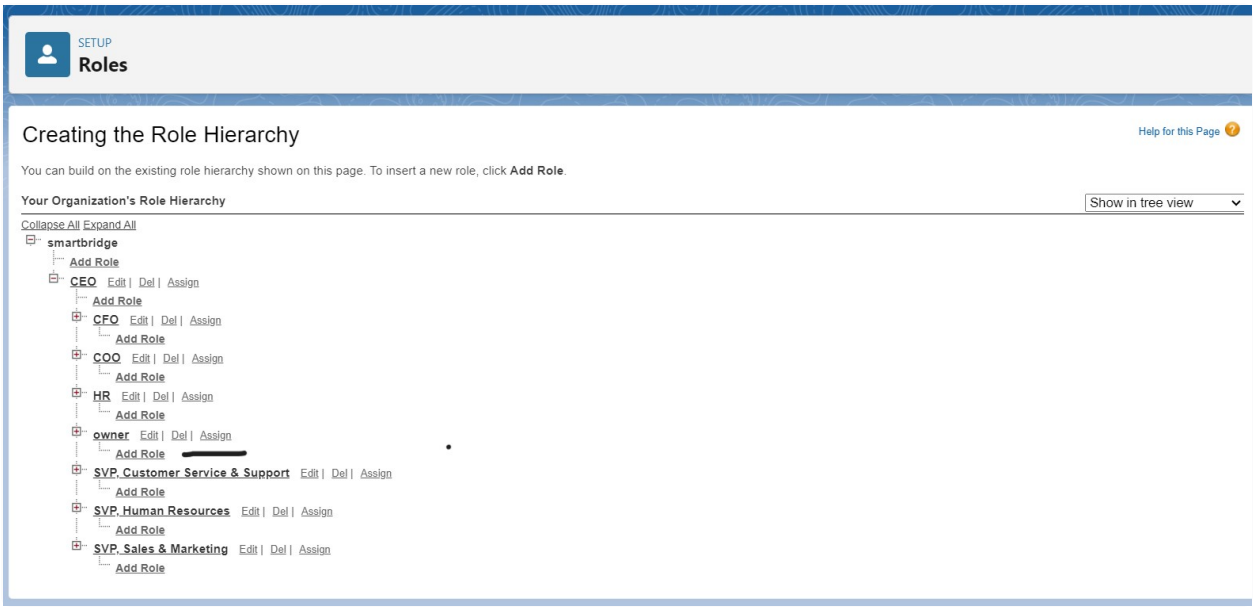
2.Click on Expand All and click on add role under whom this role works.

1. Give Label as “owner” and Role name gets auto populated. Then click on Save.
2. 

3. Click and save it.

Activity 2: Creating Agent roles

Creating another two roles under manager

1. Go to quick find - Search for Roles - click on set up roles.
2. Click plus on CEO role, and click add role under owner.
3. 

4. Give Label as “Agent” and Role name gets auto populated. Then click on Save.

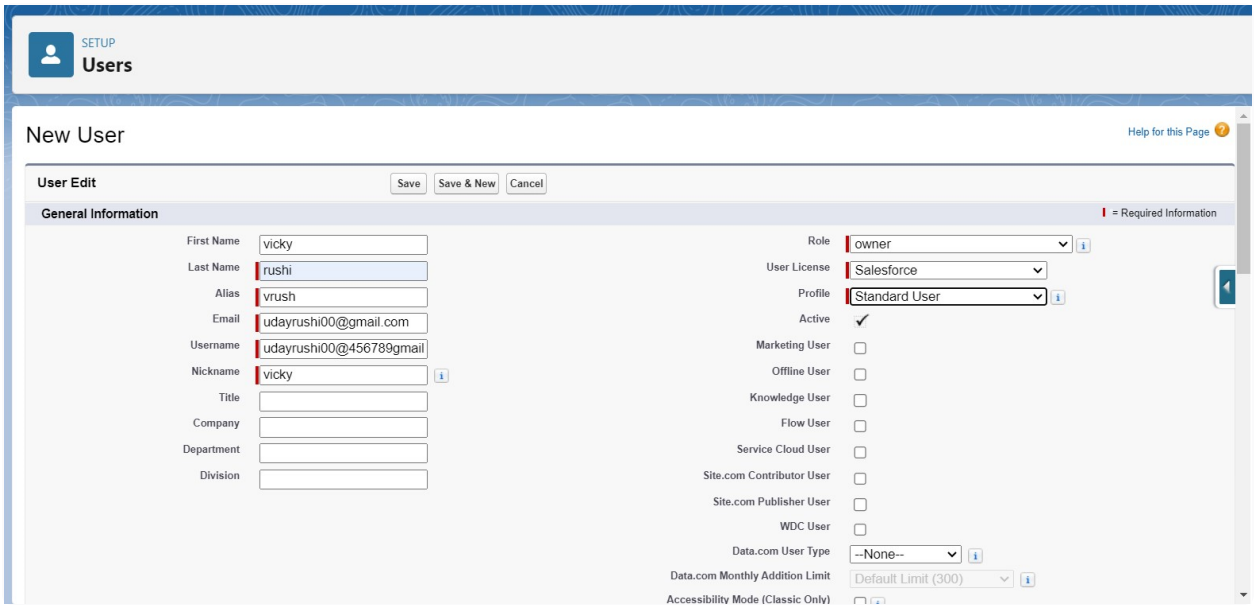
Users

A user is anyone who logs in to Salesforce. Users are employees at your company, such as sales reps, managers, and IT specialists, who need access to the company's records. Every user in Salesforce has a user account. The user account identifies the user, and the user account settings determine what features and records the user can access.

Create User

1. Go to setup - type users in quick find box - select users -click New user.
2. Fill in the fields
3. First Name : vicky
4. Last Name : y
5. Alias : Give a Alias Name
6. Email id : Give your Personal Email id
7. Username : Username should be in this form: text@text.text
8. Nick Name : Give a Nickname

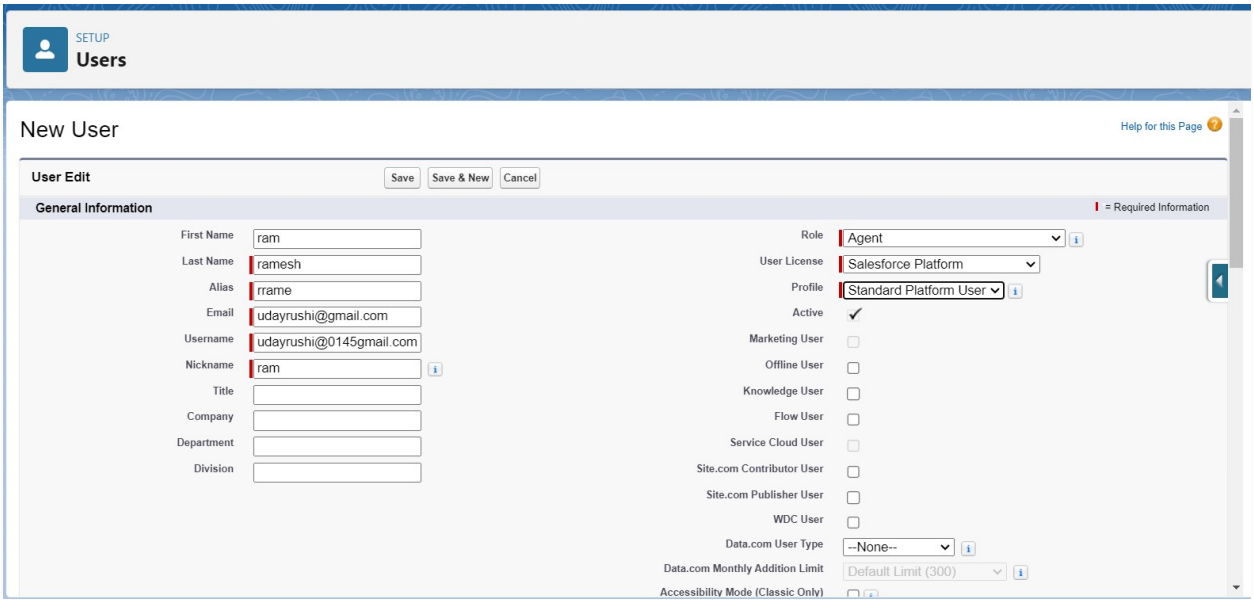
9. Role : owner
10. User license : Salesforce
11. Profiles : owner.



Save it.

Activity 2: creating another users

1. Go to setup -type users in quick find box - select users -click New user.
2. Fill in the fields
3. First Name : ram
4. Last Name : ram
5. Alias : Give a Alias Name
6. Email id : Give your Personal Email id
7. Username : Username should be in this form: text@text.text
8. Nick Name : Give a Nickname
9. Role : Agent
10. User license : Salesforce platform
11. Profiles : standard platform user.

12. 

13. Save it.

Flows

In Salesforce, a flow is a powerful tool that allows you to automate business processes, collect and update data, and guide users through a series of screens or steps. Flows are built using a visual interface and can be created without any coding knowledge.

In Salesforce, "flows" typically refer to Salesforce Flow, which is a powerful automation tool that allows you to create custom, automated processes in your Salesforce org without writing code. Salesforce Flow is a point-and-click tool that enables you to design and automate complex business processes, collect data, and interact with users in a visual interface. There are different types of flows in Salesforce, including:
Screen Flows: These are used to guide users through a series of screens to collect or display information. Screen Flows are often used for data entry and updates.

Autolaunched Flows: These are flows that are triggered by events, such as when a record is created or updated. They don't require user interaction and can be used for background automation.

Flow Builder: Flow Builder is the visual interface used to create flows. It allows you to design flows

by adding elements, like screens, logic, and actions, using a drag-and-drop approach.

Flow Templates: Salesforce provides a library of pre-built flow templates that you can use as a starting point for your own flows. These templates cover a variety of use cases, from simple to complex.

Scheduled Flows: These are flows that you can schedule to run at specific times or intervals. They are often used for automating recurring tasks.

Flow Elements: Flow Builder offers various elements that you can use to create flows, such as variables, decisions, loops, and more. These elements allow you to build sophisticated logic into your flows.

Subflows: Subflows are reusable flow elements that you can incorporate into multiple flows, making it easier to manage and maintain complex processes.

Record-Triggered Flows: These are flows that are triggered when records meet specified criteria. They are often used for automating record updates and related actions.

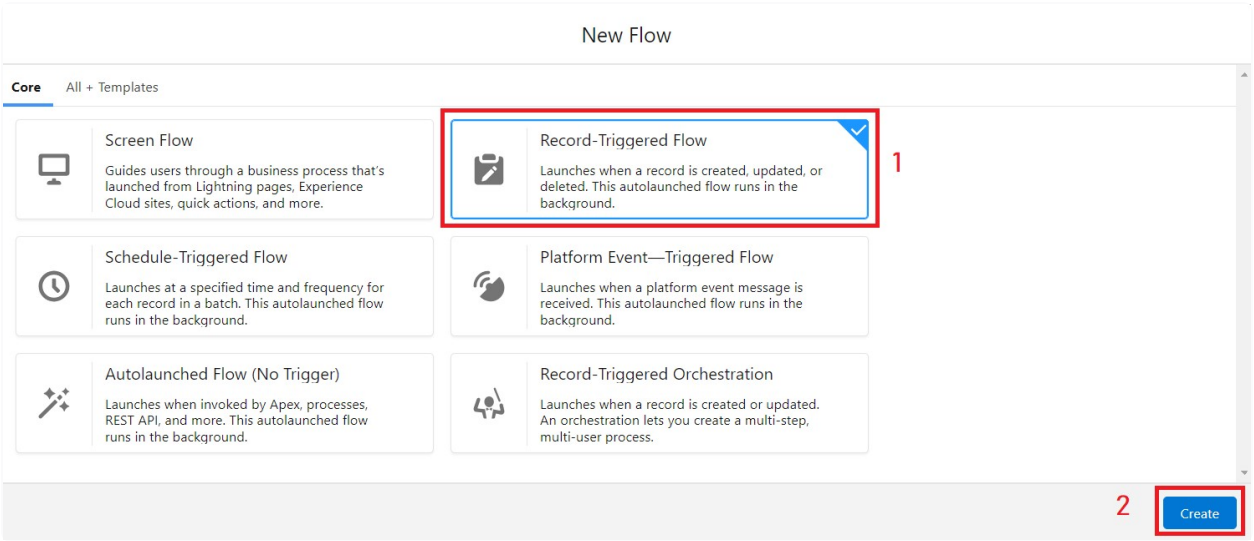
Why do we need to create a flow:
To get the Amount Field automatic by the selection of laptop types the Amount is generated Automatically in the amount field.

Create a Flow on dell laptop

Activity -

1. Go to setup >>type Flow in quick find box >> Click on the Flow and Select the New Flow.

2. Select the Record-triggered flow and Click on Create.



3. Select the Object as a Laptop Booking in the Drop down list.
4. Select the Trigger Flow when: "A record is Created or Updated".
5. Select the Optimize the flow for: "Actions and Related Records" and Click on Done.

Under the Record-triggered Flow Click on "+" Symbol and In the Drop down List select the "DecisioElement".

Enter the Details Label: Field should be Update, API name: Gets Automatically Generated.Enter the Outcome Details Label: dell , Outcome API name: Gets Automatically Generated.

- Resource: Select Record.Laptop booking__c.
- Operator: Select Equals.
- Value: Select dell
- Add the same outcome order to acer , hp,mac.
- Click done.

9. Go to flow page

11. Beside dell there is a symbol '+' click on that.
12. Again select decision
13. Enter the Details Label: Field should Update(any one u want), API name: Gets Automatically Generated.
14. select the Outcome Details Label: dell core i3 , Outcome API name: Gets Automatically Generated.

- Resource: Select Record.core type.
- Operator: Select Equals.

- Value: Select core i3.
- Then again click the symbol ‘+’ outcome details

15. select the Outcome ‘+’ Details Label: dell core i5 , Outcome API name: Gets Automatically Generated.
- Resource: Select Record.core type.
- Operator: Select Equals.
- Value: Select core i5.
- Then again click the symbol’+’ outcome details

16. Enter the Outcome Details Label: dell core i7 , Outcome API name: Gets Automatically Generated.
- Resource: Select Record.core type.
- Operator: Select Equals.
- Value: Select core i7.

17. Click done.
18. So go to the flow page select ‘+’ after core i3 then again select the decision.
19. Enter the Details Label: months selected , API name: Gets Automatically Generated.
20. Enter the Outcome Details Label: dell 1(i3) , Outcome API name: Gets Automatically Generated
21.

- Resource: Select Record.how many months.
- Operator: Select Equals.
- Value: 1.

23. Enter the Outcome Details Label: dell 2(i3) , Outcome API name: Gets Automatically Generated.
- Resource: Select Record.how many months.
- Operator: Select Equals.
- Value: Select 2..

24. Click ‘+’ outcome details
25. Enter the Outcome Details Label: dell 3(i3) , Outcome API name: Gets Automatically Generated.
- Resource: Select Record.how many months.
- Operator: Select Equals.
- Value: Select 3..

26. Click ‘+’ outcome details

27. Enter the Outcome Details Label: dell 4(i3) , Outcome API name: Gets Automatically Generated.
- Resource: Select Record.how many months.
- Operator: Select Equals.
- Value: Select 4..

28. Click ‘+’ outcome details
29. Enter the Outcome Details Label: dell 5(i3) , Outcome API name: Gets Automatically Generated.
- Resource: Select Record.how many months.
- Operator: Select Equals.
- Value: Select 4.

30. Follow the above picture you will understand.
31. After dell 1(i3) there is ‘+’ symbol like dell 2(i3),dell 3(i3),dell 4(i3),dell 5(i3).
32. Click on ‘+’ then select update records
33. Enter the Details Label: one month of dell i3 rate , API name: Gets Automatically Generated.
34. Field:- Amount__c , value:- for dell 1(i3)-1000, dell 2(i3)-2000, dell 3(i3)-3000, dell 4(i3)-4000, dell 5(i3)-5000. Follow for all these finally
35. Click done.

37. Enter the Details Label: months selected , API name: Gets Automatically Generated.
38. Enter the Outcome Details Label: dell 1(i7) , Outcome API name: Gets Automatically Generated.
39.
- Resource: Select Record.how many months.
- Operator: Select Equals.
- Value: 1.

40. Enter the Outcome Details Label: dell 2(i7) , Outcome API name: Gets Automatically Generated.
- Resource: Select Record.how many months.
- Operator: Select Equals.
- Value: Select 2..

41. Click ‘+’ outcome details
42. Enter the Outcome Details Label: dell 3(i7) , Outcome API name: Gets Automatically

Generated.

- Resource: Select Record.how many months.
- Operator: Select Equals.
- Value: Select 3..

43. Click ‘+’ outcome details
44. Enter the Outcome Details Label: dell 4(i7) , Outcome API name: Gets Automatically Generated.

- Resource: Select Record.how many months.
- Operator: Select Equals.
- Value: Select 4.

45. Click ‘+’ outcome details
46. Enter the Outcome Details Label: dell 5(i7) , Outcome API name: Gets Automatically Generated.

- Resource: Select Record.how many months.
- Operator: Select Equals.
- Value: Select 5.

47.
48. Follow the above picture you will understand.
49. After dell 1(i7) there is ‘+’ symbol like dell 2(i7),dell 3(i7),dell 4(i7),dell 5(i7).
50. Click on ‘+’ then select update records
51. Enter the Details Label: one month of dell i5 rate , API name: Gets Automatically Generated.
52. Field:- Amount__c , value:- for dell 1(i7)-2000, dell 2(i7)-4000, dell 3(i7)-6000, dell 4(i7)-8000, dell 5(i7)-10000. Follow for all these finally
53. Click done.

creating flow on acer laptop

1. Go to flow page

2. Beside acer there is a symbol ‘+’ click on that.
3. Again select decision
4. Enter the Details Label: Field is Update, API name: Gets Automatically Generated.
5. select the Outcome Details Label: acer core i3 , Outcome API name: Gets Automatically Generated.

- Resource: Select Record.core type.
- Operator: Select Equals.

- Value: Select core i3.

Click done.

6. Go to flow page

7. Beside dell there is a symbol '+' click on that.
8. Again select decision

9. Enter the Details Label: months selected , API name: Gets Automatically Generated.
10. Enter the Outcome Details Label: acer 1(i3) , Outcome API name: Gets Automatically Generated.
11.

- Resource: Select Record.how many months.
- Operator: Select Equals.
- Value: 1.

12. Enter the Outcome Details Label: acer 2(i3) , Outcome API name: Gets Automatically Generated.

- Resource: Select Record.how many months.
- Operator: Select Equals.
- Value: Select 2..

13. Click '+' outcome details
14. Enter the Outcome Details Label: acer 3(i3) , Outcome API name: Gets Automatically Generated.

- Resource: Select Record.how many months.
- Operator: Select Equals.
- Value: Select 3..

15. Click '+' outcome details
16. Enter the Outcome Details Label: acer 4(i3) , Outcome API name: Gets Automatically Generated.

- Resource: Select Record.how many months.
- Operator: Select Equals.
- Value: Select 4.

17. Click '+' outcome details
18. Enter the Outcome Details Label: acer 5(i3) , Outcome API name: Gets Automatically Generated.

- Resource: Select Record.how many months.
- Operator: Select Equals.
- Value:Select .

Click done.

19. After acer 1(i3) there is '+' symbol like acer 2(i3),acer 3(i3),acer 4(i3),acer 5(i3).
20. Click on '+' then select update records
21. Enter the Details Label: one month of acer i3 rate , API name: Gets Automatically Generated.
22. Field:- Amount__c , value:- for acer 1(i3)-900, acer 2(i3)-1800, acer 3(i3)-2700, acer 4(i3)-3600, acer 5(i3)-4800. Follow for all these finally
23. Click done.

creating a flow on hp laptop

1. Go to flow page

2. Beside hp there is a symbol '+' click on that.
3. Again select decision
4. Enter the Details Label: Field is Update, API name: Gets Automatically Generated.
5. select the Outcome Details Label: hp core i5 , Outcome API name: Gets Automatically Generated.

- Resource: Select Record.core type.
- Operator: Select Equals.
- Value: Select hp i5.

6. Go to flow page

7. Beside hp there is a symbol '+' click on that.
8. Again select decision

9. Enter the Details Label: hp field should be updated , API name: Gets Automatically Generated.
10. Enter the Outcome Details Label: hp 1(i5) , Outcome API name: Gets Automatically Generated.

11.

- Resource: Select Record.how many months.
- Operator: Select Equals.
- Value: 1.

12. Enter the Outcome Details Label: hp 2(i5) , Outcome API name: Gets Automatically Generated.

- Resource: Select Record.how many months.
- Operator: Select Equals.
- Value: Select 2..

13. Click ‘+’ outcome details
14. Enter the Outcome Details Label: hp 3(i5) , Outcome API name: Gets Automatically Generated.

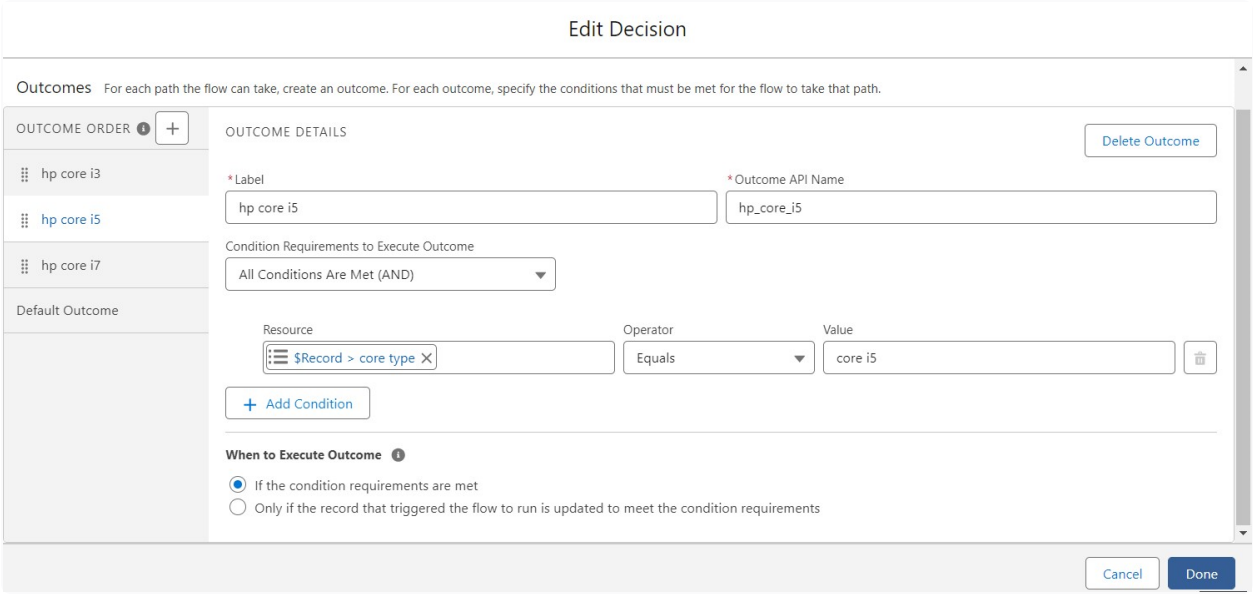
- Resource: Select Record.how many months.
- Operator: Select Equals.
- Value: Select 3..

15. Click ‘+’ outcome details
16. Enter the Outcome Details Label: hp 4(i5) , Outcome API name: Gets Automatically Generated.

- Resource: Select Record.how many months.
- Operator: Select Equals.
- Value: Select 4.

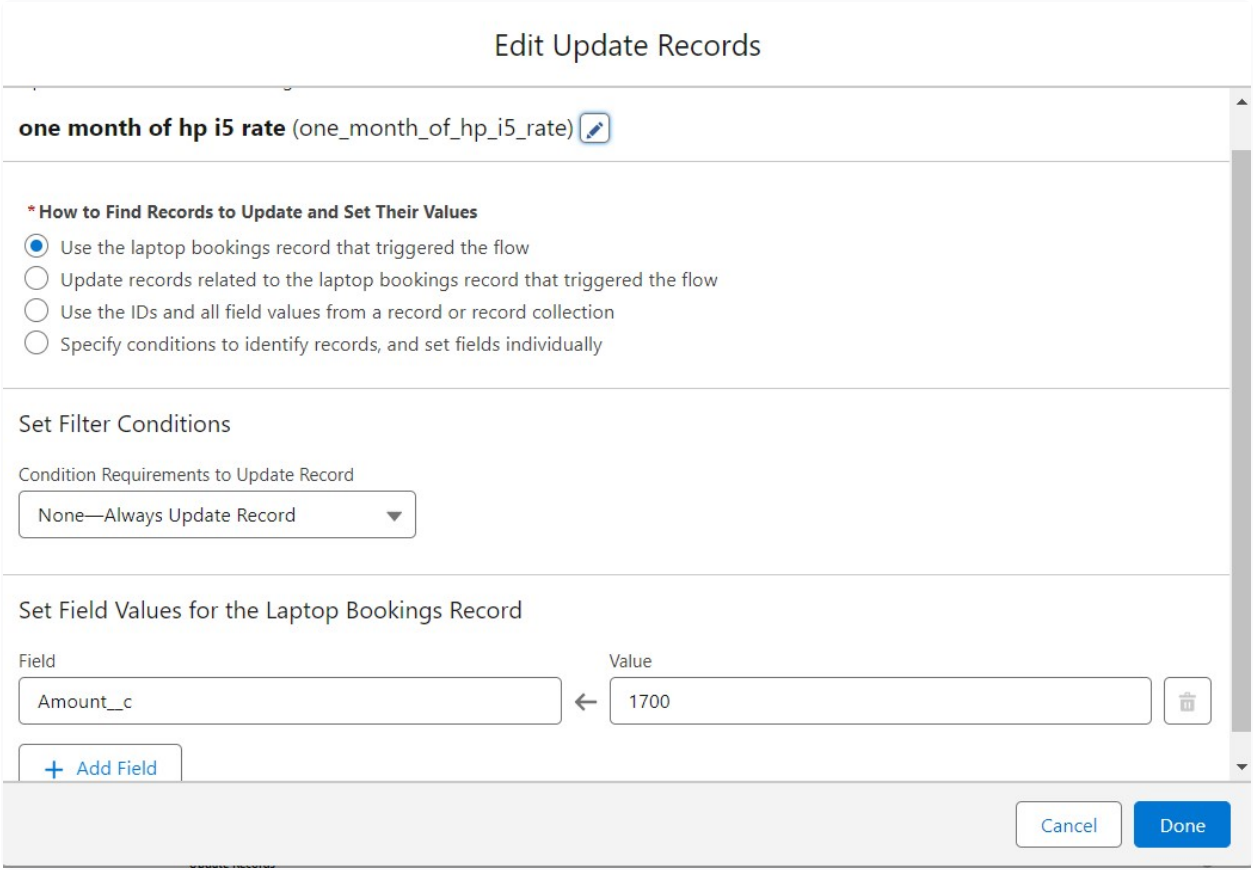
17. Click ‘+’ outcome details
18. Enter the Outcome Details Label: hp 5(i5) , Outcome API name: Gets Automatically Generated.

- Resource: Select Record.how many months.
- Operator: Select Equals.
- Value: Select 5.



Click on done.

19. After hp 1(i5) there is '+' symbol like hp 2(i5), hp 3(i5), hp 4(i5),hp 5(i5).
20. Click on '+' then select update records
21. Enter the Details Label: one month of hp i5 rate , API name: Gets Automatically Generated.
22. Field:- Amount__c , value:- for hp 1(i5)-1700, hp 2(i5)-3400, hp 3(i5)-5100, hp 4(i5)-6800, hp 5(i5)-8500. Follow for all these finally

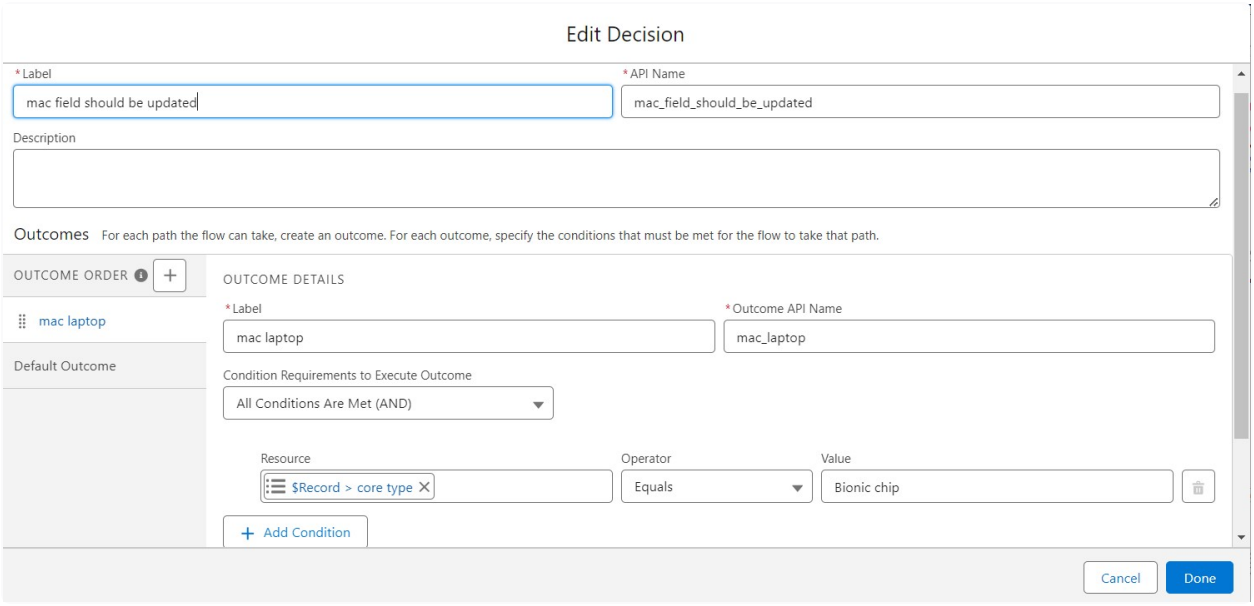


Click done.

creating a flow on mac laptop

1. Go to flow page
2. Beside mac there is a symbol '+' click on that.
3. Again select decision
4. Enter the Details Label: mac should be Updated, API name: Gets Automatically Generated.
5. select the Outcome Details Label: mac laptop , Outcome API name: Gets Automatically Generated.

- Resource: Select Record.core type.
- Operator: Select Equals.
- Value: Select Bionic Chip.



Click done.

6. Go to flow page

7. Beside Mac there is a symbol '+' click on that.
8. Again select decision

9. Enter the Details Label:Mac months selected , API name: Gets Automatically Generated.
10. Enter the Outcome Details Label: mac bionic chip(1) , Outcome API name: Gets Automatically Generated.
11.

- Resource: Select Record.how many months.
- Operator: Select Equals.
- Value: 1.

12. Enter the Outcome Details Label: mac bionic chip(1) , Outcome API name: Gets Automatically Generated.

- Resource: Select Record.how many months.
- Operator: Select Equals.
- Value: Select 2..

13. Click '+' outcome details
14. Enter the Outcome Details Label: mac bionic chip(1) , Outcome API name: Gets Automatically Generated.

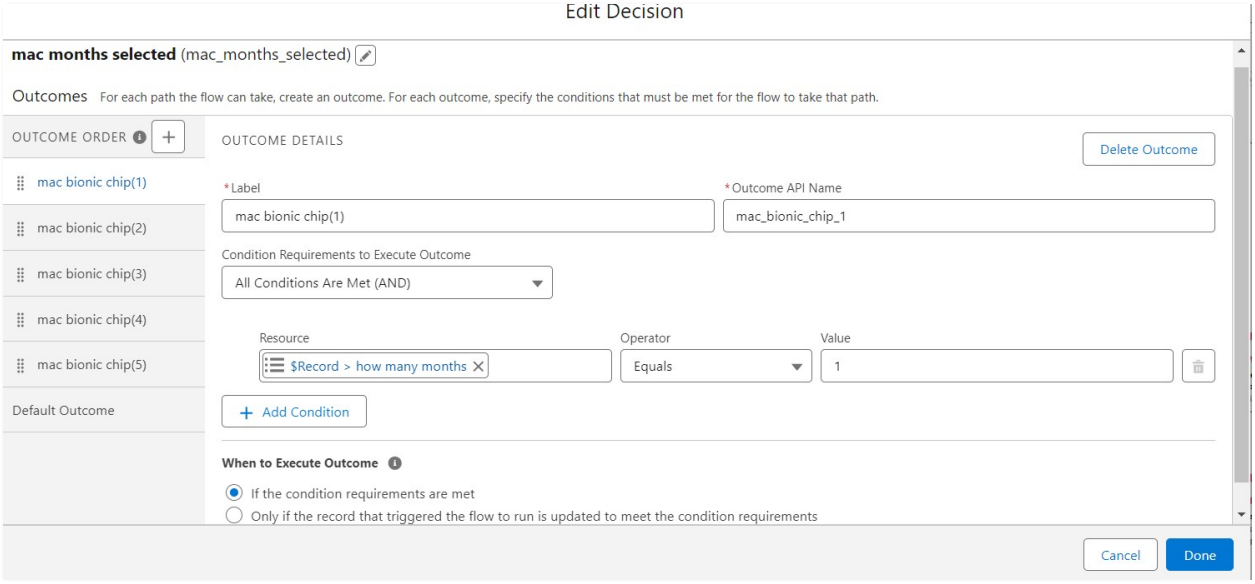
- Resource: Select Record.how many months.
- Operator: Select Equals.
- Value: Select 3..

15. Click '+' outcome details
16. Enter the Outcome Details Label: mac bionic chip(1) , Outcome API name: Gets Automatically Generated.

- Resource: Select Record.how many months.
- Operator: Select Equals.
- Value: Select 4.

17. Click '+' outcome details
18. Enter the Outcome Details Label: mac bionic chip(1) , Outcome API name: Gets Automatically Generated.

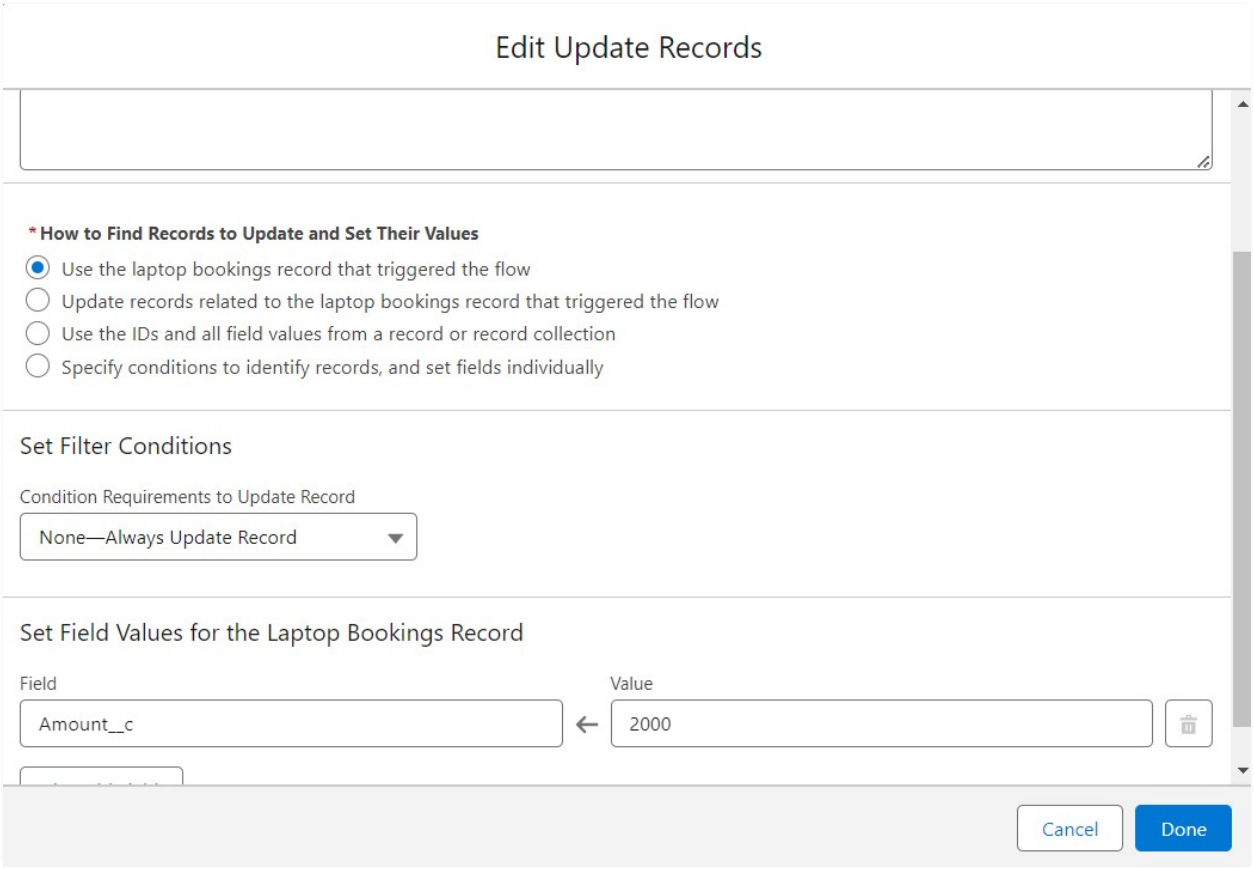
- Resource: Select Record.how many months.
- Operator: Select Equals.
- Value: Select 5.



Click done.

19. After mac bionic chip(1) there is '+' symbol like mac bionic chip(2), mac bionic chip(3), mac bionic chip(4),mac bionic chip(5).
20. Click on '+' then select update records
21. Enter the Details Label: one month of mac rate , API name: Gets Automatically Generated.
22. Field:- Amount__c , value:- for one month of mac bionic chip rate-1700, two month of mac

bionic chip rate-3400, three month of mac bionic chip rate-5100, four month of mac bionic chip rate-6800, five month of mac bionic chip rate-8500. Follow for all these finally



Click done.

FLOW:

Click on save .

Label:- Laptop distributions, api name:- automatically filled

Save the flow and activate it.

APEX

Apex OverView

Apex is a strongly typed, object-oriented programming language that allows developers to execute flow and transaction control statements on the Lightning platform server in conjunction with calls to the Lightning Platform? API. Using syntax that looks like Java and acts like database stored procedures, Apex enables developers to add business logic to most system events, including button clicks, related record updates, and Visualforce pages. Apex code can be initiated by Web service

requests and from triggers on objects.

It is as similar as java i.e, it also supports OOP(Object oriented programming) like Classes, objects, methods.

Creating Classes :

Apex classes are modeled on their counterparts in Java. You'll define, instantiate, and extend classes, and you'll work with interfaces, Apex class versions, properties, and other related class concepts.

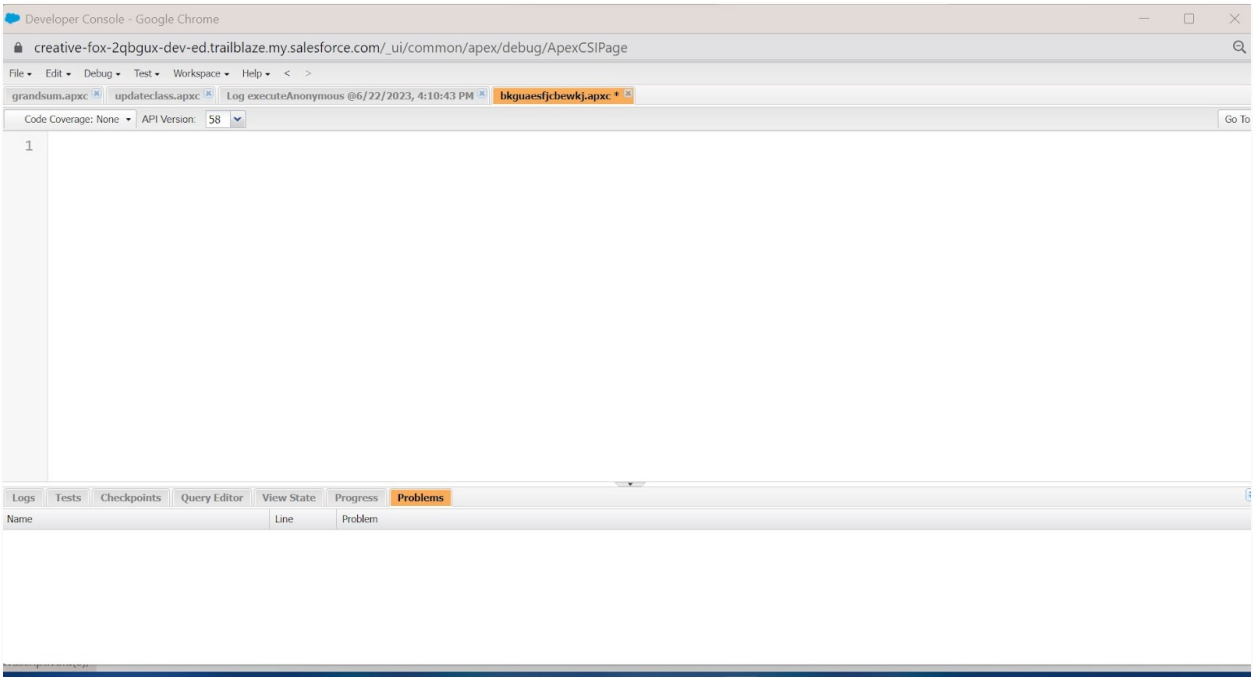
- Class:
- As in Java, you can create classes in Apex. A class is a template or blueprint from which objects are created. An object is an instance of a class.

- Object

  Object is an instance of a class, where it can access all the properties that are present in a class i.e, variables and methods.

Steps to create a class in APEX:

1. Login to the trailhead account and navigate to the gear account in the top right corner.
2. Then we can see the Developer console. Click on the developer console and you will navigate to a new console window.



3. Then you can see many tools in the Toolbar of the new console window. Click on File, New and Apex Class.
4. Enter the name of the class to create a new class file.

Access specifiers in Apex :

Apex allows you to use the private, protected, public, and global access modifiers when defining methods and variables.
While triggers and anonymous blocks can also use these access modifiers, they aren't as useful in smaller portions of Apex. For example, declaring a method as global in an anonymous block doesn't enable you to call it from outside of that code.

Private:
This access modifier is the default, and means that the method or variable is accessible only within the Apex class in which it's defined. If you don't specify an access modifier, the method or variable is private.

Protected:
This means that the method or variable is visible to any inner classes in the defining Apex class, and to the classes that extend the defining Apex class. You can only use this access modifier for instance methods and member variables. This setting is strictly more permissive than the default (private) setting, just like Java.

Public :
This means that the method or variable is accessible by all Apex within a specific package. For accessibility by all second-generation (2GP) managed packages that share a namespace, use public with the @NamespaceAccessible annotation. Using the public access modifier in no-namespace packages implicitly renders the Apex code as @NamespaceAccessible.

Global
This means the method or variable can be used by any Apex code that has access to the class, not just the Apex code in the same application. This access modifier must be used for any method that must be referenced outside of the application, either in SOAP API or by other Apex code. If you declare a method or variable as global, you must also declare the class that contains it as global.

Triggers :

A trigger is a set of Apex code that runs before or after DML(Data Manipulation Language) events.
A DML event could be a variety of data processing tasks that include the standard insert, update, and delete commands.

With Apex triggers, you can automate tasks that would otherwise be nearly impossible to accomplish using only the Salesforce user interface. Triggers enable you to create custom scripts that you can implement according to your needs, and the only limitation is your coding skills.

There are two Salesforce Apex trigger types:

Before triggers. These are helpful in cases that require a validation process before accepting a change. They run before any database changes. After triggers. These are helpful in cases where you need to modify your database records and when the necessary value is stored in other records. They run after any database changes. Both types will help you perform custom tasks and manage records effectively. They can help you perform bulk actions as they can handle several records simultaneously.

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.

Syntax For creating trigger :
The syntax for creating trigger is :

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

Trigger code:

```
trigger LaptopBooking on Laptop_Bookings__c (After insert,after update) {

   if(trigger.isAfter && ( trigger.isInsert || trigger.isupdate))
   {
   LaptopBookingHandler.sendEmailNotification(trigger.new);
      }


}
```

Note:- copy the API names
1.LaptopBooking - trigger name
2.Laptop_Bookings__c -as per your org(go to laptop bookings object and copy from that object api name).

Handler Class:

Code Snippet :

```
public class LaptopBookingHandler {
   public static void sendEmailNotification (List<Laptop_Bookings__c> lapList){
      for(Laptop_Bookings__c lap:lapList)
      {
         Messaging.SingleEmailMessage email = new Messaging.SingleEmailMessage();
```

```
            email.setToAddresses( new List<String>{lap.Email__c});
            email.setSubject('Welcome to our company');
          string body = 'Dear ' +lap.Name +', \n';
             body += 'Welcome to Laptop Rentals! You have been seen as a valuable customer to us.\n
Please continue your journey with us, while we try to provide you with good quality resources. \n
Laptop Amount = ' + lap.Amount__c + ' \n core type = '+lap.core__c +' \n Laptop type =
'+lap.Laptop_type__c;
          email.setPlainTextBody(body);
            Messaging.sendEmail(new List<Messaging.SingleEmailMessage>{email});

      }
   }
}
```

Note:-

1.Class name:- LaptopBookingHandler
2.API Name:- Laptop_Bookings__c(as per your org go to laptop booking object and copy from that).
3.core__c (as per your org go to laptop booking object and copy from that).
4.Laptop_type__c.(as per your org go to laptop booking object and copy from that).

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

Result:

Note: Before creating reports just fill the 10-12 records in the Laptop Bookings object.
Create records for each one you have to create at least 2 different records i.e dell(i3), dell(i7),acer(i3),hp(i5),mac(bionic chip).

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.

In Salesforce.com we can easily generate reports in different styles. And can create reports in a very short time and also schedule the reports. Salesforce provides a powerful suit of analytic tools to help you organize, view and analyze your data.

Types of Reports in Salesforce

1. Tabular
2. Summary
3. Matrix
4. Joined Reports

1. Tabula Reports: Simple listing of data without any subtotals. This type of reports provide you most basically to look at your data. Use tabular reports when you want a simple list or a list of items with a grand total.

Example: This type of reports are used to list all accounts, List of contacts, List of opportunities…..etc…..

2. Summary Reports: This type of reports provide a listing of data with groupings and sub totals. Use summary reports when you want subtotals based on the value of a particular field or when you want to create a hierarchically grouped report, such as sales organized by year and then by quarter.

Example: All opportunities for your team sub totaled by Sales Stage and Owner.

3. Matrix Reports: This type of reports allow you to group records both by row and by column. A comparison of related totals, with totals by both row and column. Use matrix reports when you want to see data by two different dimensions that aren't related, such as date and product.

Example: Summarize opportunities by month vertically and by account horizontally.

4. Joined Reports: Blocks of related information in a single report. This type of reports enable you to adopt five different blocks to display different types of related data. Each block can own unique columns, summary fields, formulas, filters and sort order. Use joined reports to group and show data from multiple report types in different views.

Example: You can build a report to show opportunity, case and activity data for your accounts.

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 “consumer with Laptop Bookings and total laptops” >> click on start report.
4.Customize your report
5.Add fields from left pane as shown below
6.Click the column drop down and select bucket list.
Click apply it.

Sharing report to owner

1. Click edit drop down and select subscribe option 2.
2. After selecting the run report as a “another person” select your personal account or whom you want to send that mail to.
3. Click save.

NOTE: The owner gets daily email notification of that laptop booking report.so that he can see all data remotely.

Dashboards

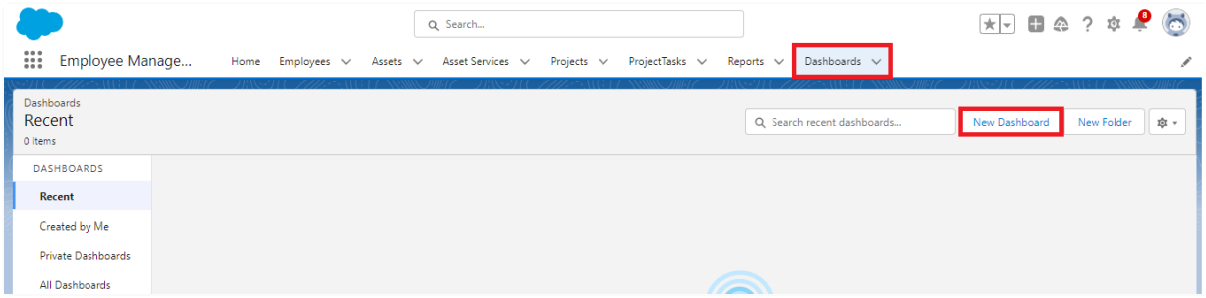
Dashboards help you visually understand changing business conditions so you can make decisions based on the real-time data you’ve gathered with reports. Use dashboards to help users identify trends, sort out quantities, and measure the impact of their activities. Before building, reading, and sharing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

Create Dashboard Folder

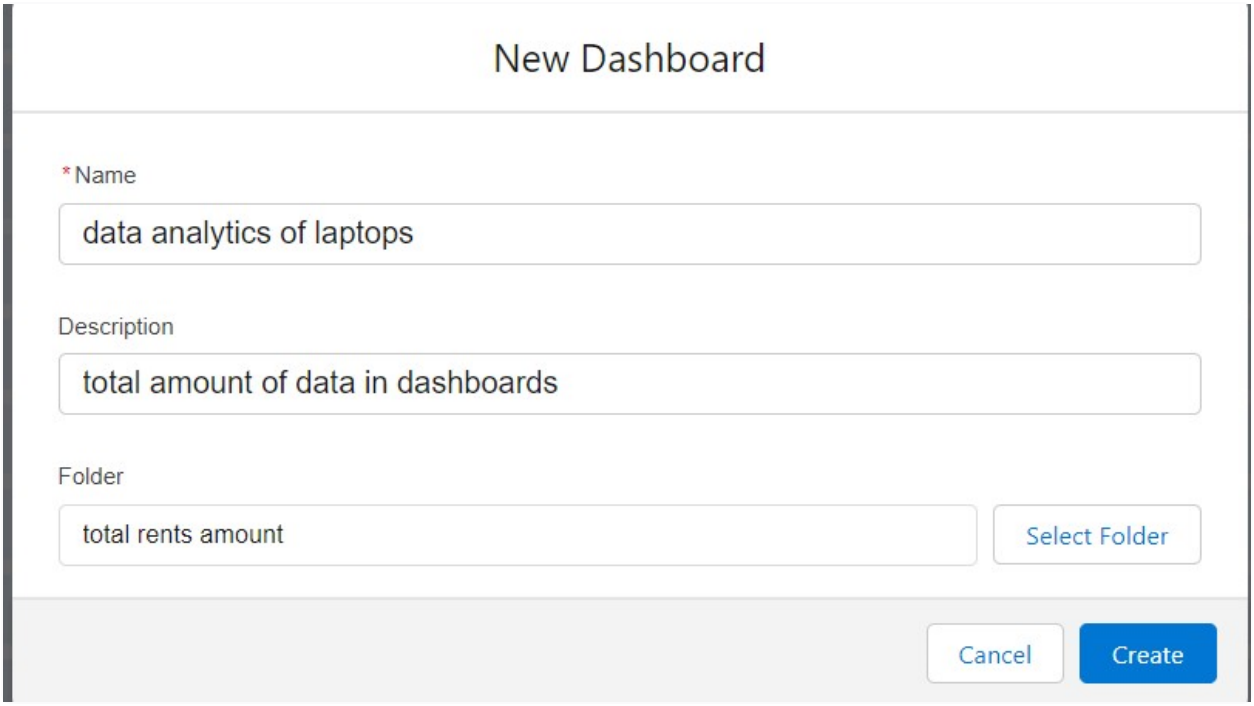
1. Click on the app launcher and search for the dashboard.
2. Click on the dashboard tab.
3. Click the new folder, give the folder label as “total rent amount”.
4. Folder unique names will be auto populated.
5. Click save.

Create Dashboard

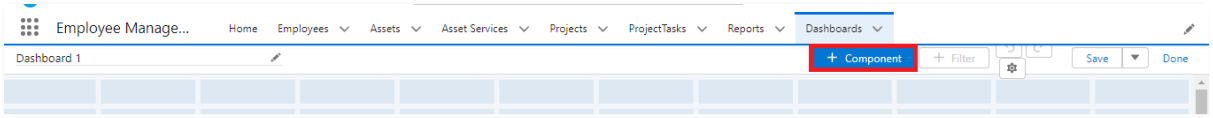
1. Go to the app >> click on the Dashboards tabs.



2. Give a Name and select the folder that was created, and click on create.



3. Select add component.



4. Select a Report and click on select.

5. Select the dark component and add to the dashboards.
6. Save it.
7. Click done.