A CRM APPLICATION TO HANDLE THE CLIENTS AND PROPERTY RELATED REQUIREMENTS

Project Description:

Harmony Homes integrates Salesforce to streamline customer interactions. Website engagement triggers automated record creation in Salesforce, capturing customer details and preferences. Salesforce categorizes users as approved or non-approved, offering tailored property selections to approved users. This enhances user experience and efficiency, providing personalized recommendations and broader listings.Seamless integration optimizesoperations, improving customer engagement and facilitating growth in the real estate market.

1. Client Management
   a. Add,update, and delete client details.
   b. Trackclient preferences, budget, and location interests.
   c. Maintain contact details and communication history.

2. Property and houses Management
   a. Manage property listings with details like type, price, location, and features.
   b. Track the properties available for sale, rent, or lease.
   c. Upload photos and documents for properties.

3. Requirement Matching
   a. Match client requirements with available properties using filters.
   b. Notify clients about new properties that fit their criteria.

4. Lead Tracking
   a. Manage inquiries and follow upwith potential clients.
   b. Schedulemeetings and site visits.
   c. Assign leads to specific team members.

Milestone 1: Create a Jotform and integrate it with the org to create a record of customers automatically

Client wants a form for the customers to get the details directly into the salesforce so that the admins can create a user in the org.Client wants a form for the customers to get the details directly into the salesforce so that the admins can create a user in the org.

Activity1

1. Open your browser and search for jotform and log in.
2. After login click on create form andclick on start from scratch
3. Now create a form to get the customer details like Name, Phone,EmaiI, Address andtype of property the customer is interested in.
4. Once the form is created, publish it by clicking on publish.
5. form link :-https://form.jotform.com/243219231536048

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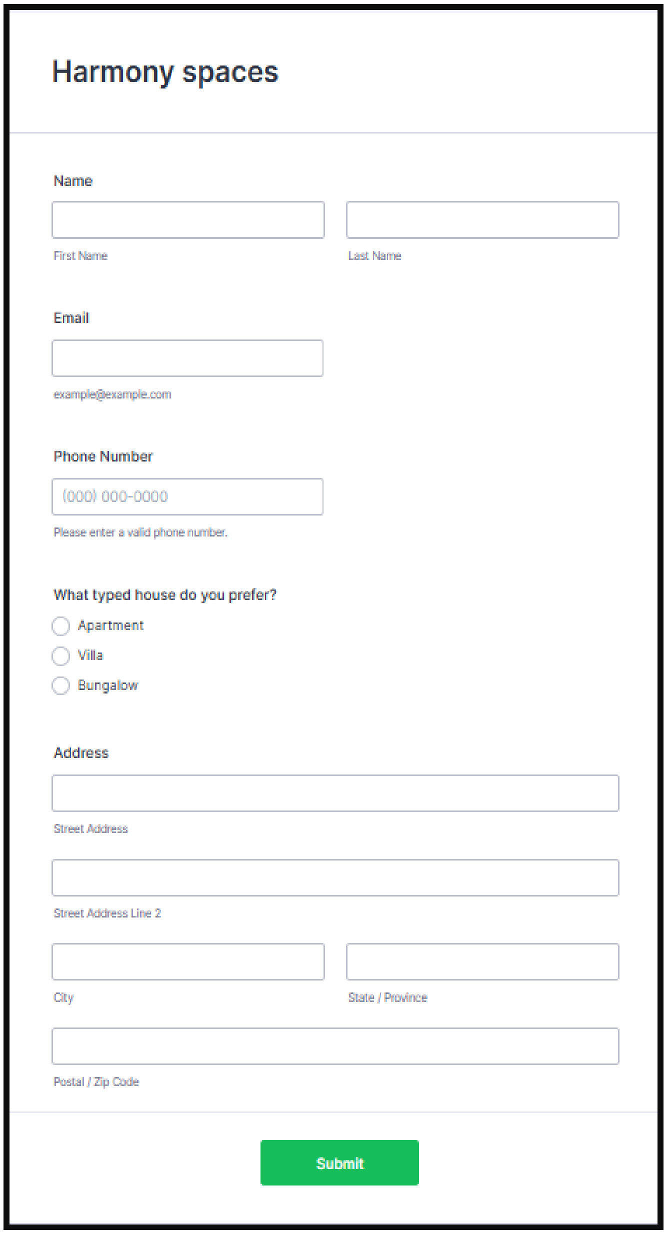


Harmony spaces

Name

First Name

Last Name

Email

example@example.com

Phone Number

(000) 000-0000

Please enter a valid phone number.

What typed house do you prefer?

- Apartment
- Villa
- Bungalow

Address

Street Address

Street Address Line 2

City

State / Province

Postal / Zip Code

Submit

Create Objects from Spreadsheet

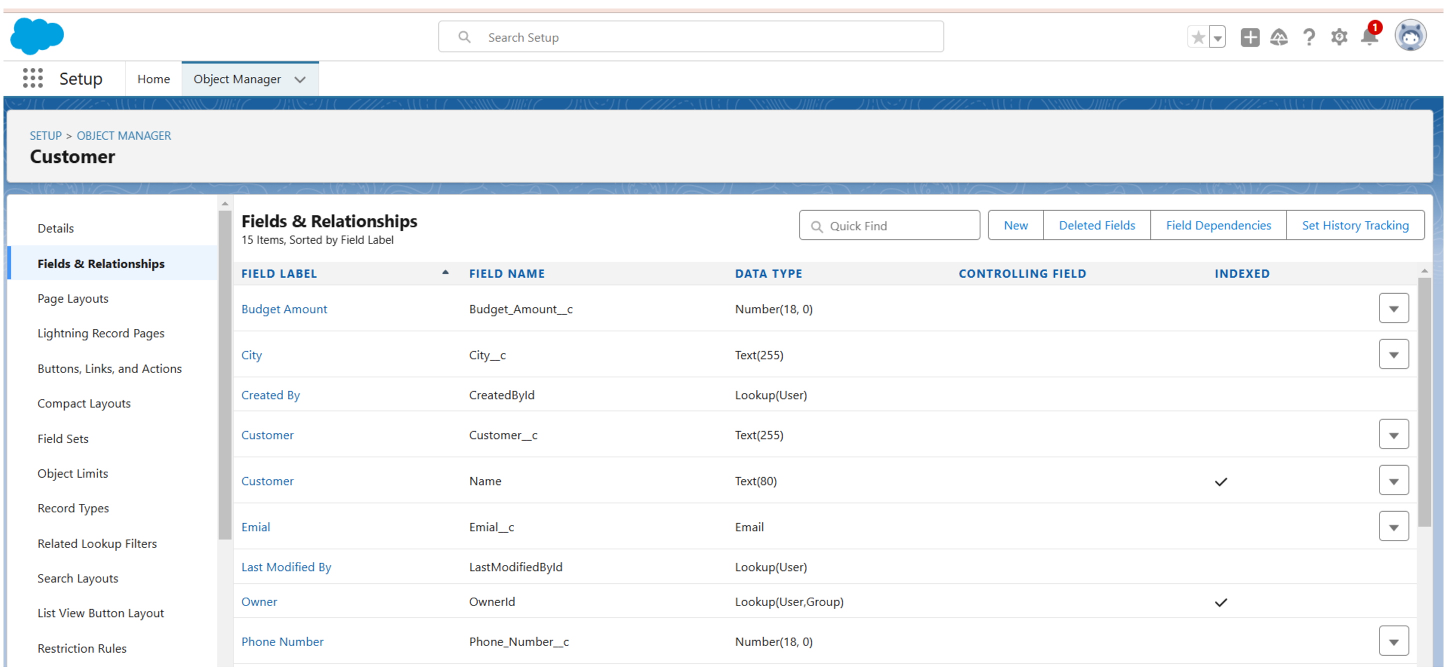
Directly Creating Objects from Spreadsheet in Salesforce

Creating Customer Object :

1. Go to your object manager and and click oncreate object from spreadsheet.
2. Click on the link to get the spreadsheet
3. customer.xlsx

Customer	Phone Number	Emial	State	Property Type	Budget Amount	Street Address	Street Address	City	postal code	Verified
Rakesh	788797	rakesh@gmail.	Telangana	Residential	4000000	gb road	street no 45	Hyderabad	555001	checked
prakash	55448855	p@gmail.com	Maharashtra	Commercial	8000000	gachibowli	indira road	mumbai	6600014	unchecked
Prajwal	454545	prajwal@gmail.	Maharashtra	Rental	25000	kamdli	kathora	Amravati	444805	checked

After downloading, upload the file, map the fields and upload to create an object.

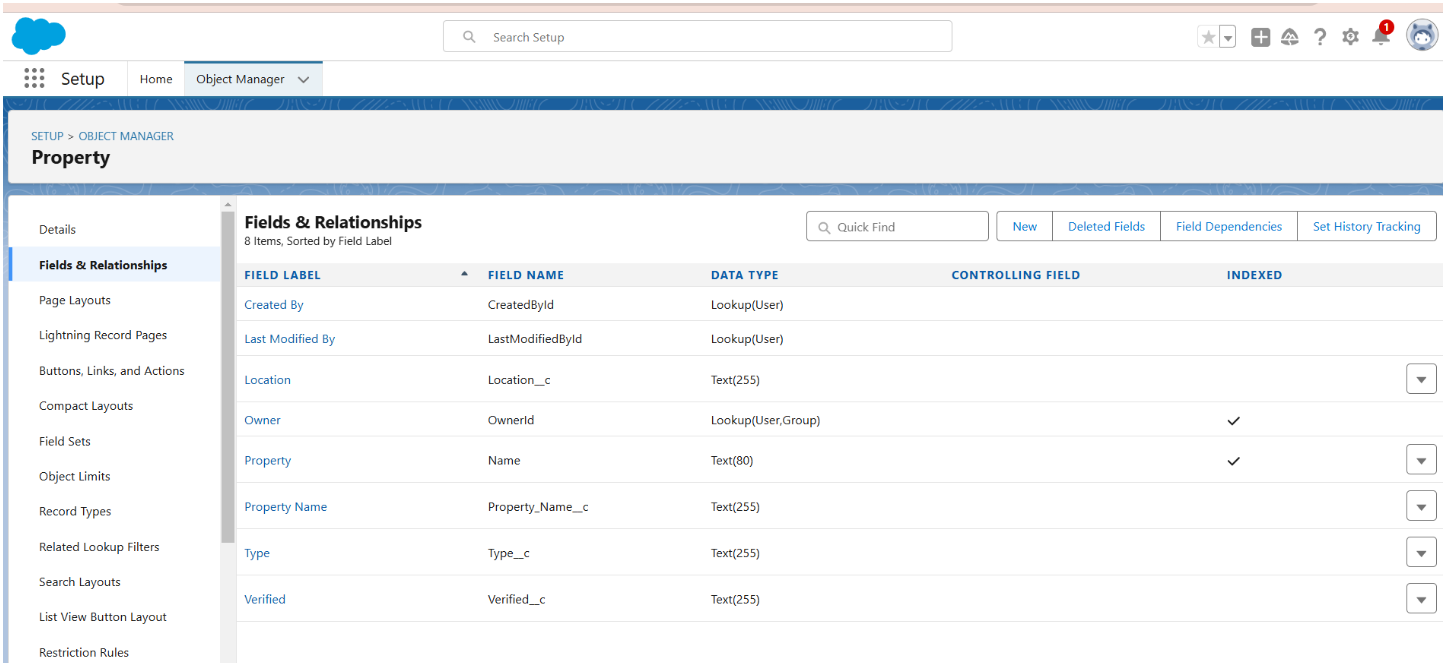


Creating Property Object :

1. Follow the same from the customer object tocreate theProperty Object
2. Property

A	B	C	D
Property Name	Type	Location	Verified
Lotus Appartme	Residential	hydeerabad	checked
500000 sq.ft pl	Commercial	Amravati	uchecked
3 Bhk fkat at st	rental	Jubliee hill Hyd	Checked

After downloading, upload the file, map the fields and upload to create an object. the filedsas follows



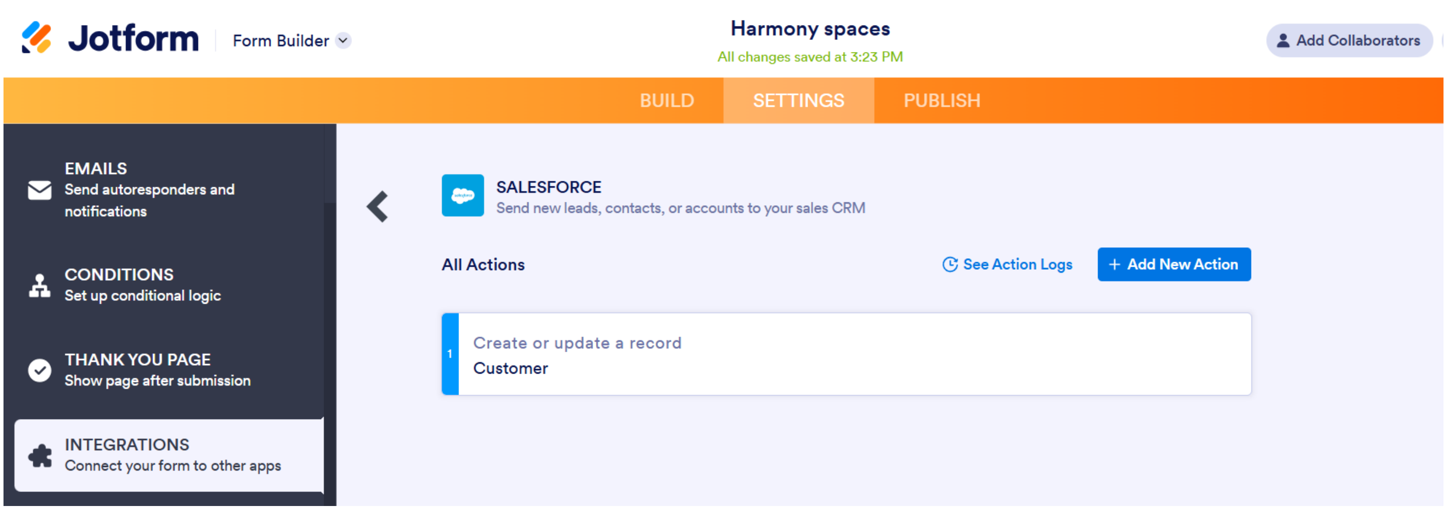
Integrate Jotformwith Salesforce Platform

In this Milestone we are going to integratejotform with Salesforce

Activity

1. On the Jotform Platform, Click on Integration and choose Salesforce
2. Click on User Integration and choose "Add to From"
3. Select the Org with which you want to Integrate your jotform with and select your account
4. Select an Action -Create a record.
5. Select a Salesforce Object : - Customer

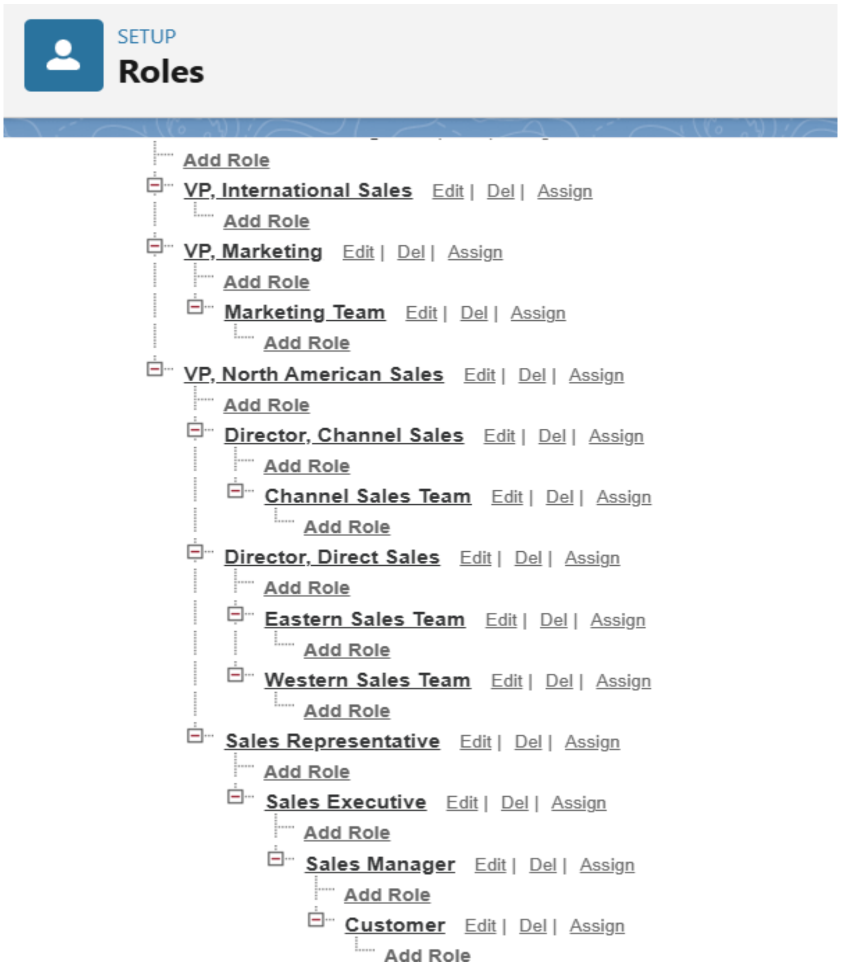
Map Each and every field on the Object with the fields on the form and "Save Action".



Create Roles

Here,we need to Create Roles as per business requirenment

Activity:- 1:



1. if wedon't find sales representative we need to create itaccording to theneed
2. It willuse the "System Administrator Profile".
3. Label -Sales Executive
4. Reports to- Sales Representative

Similarly Create a Role Name "Sales Manager" below Sales Executive which reports to Sales Executive, Also Add a Role below Sales Manager labeled as "Customer" which reports to Sales Manager.

Create a Property Details App

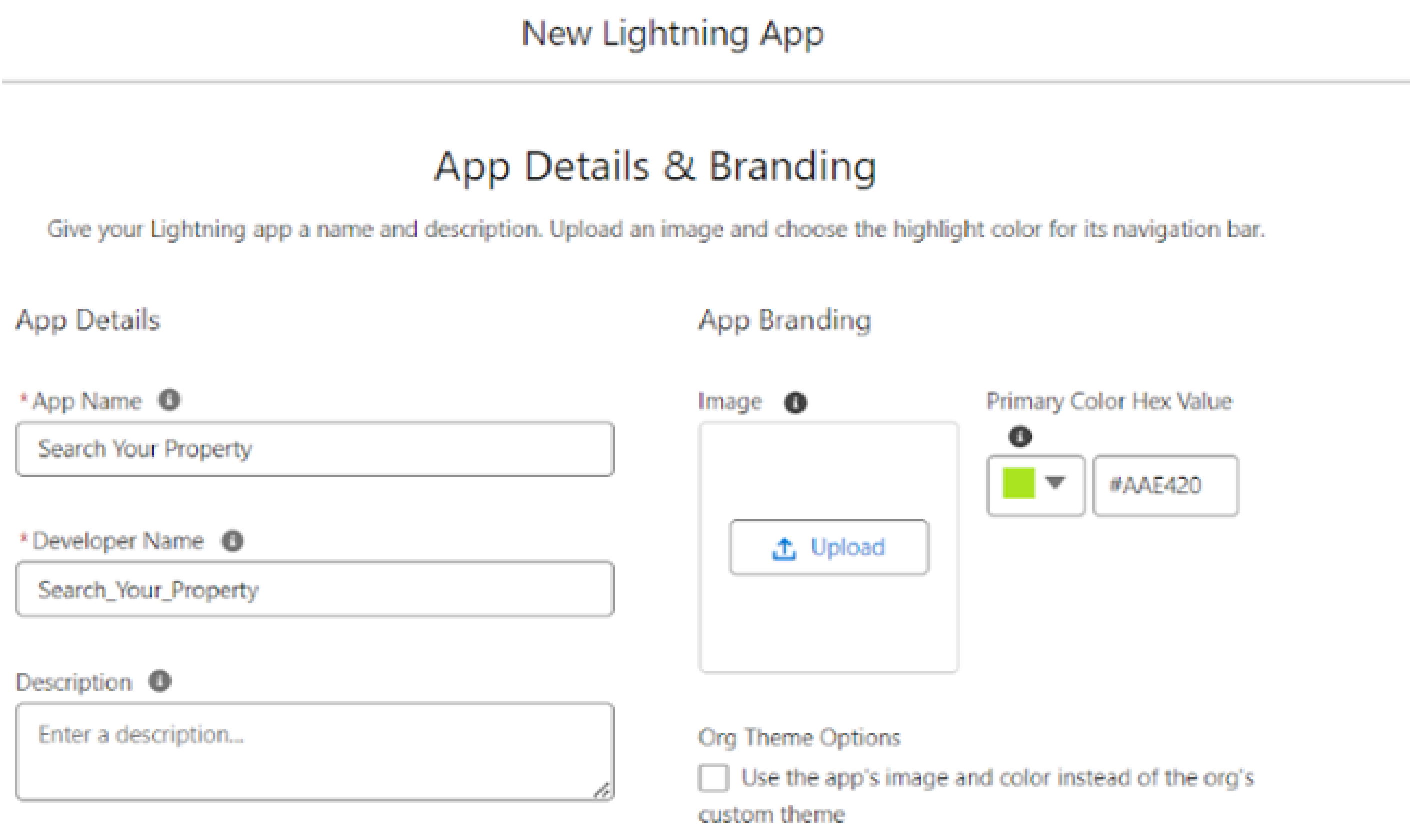
An App where the objectswill be displayed

Activity1

1. From Setup>» Go to AppManager and click on New Lightning App and Nameit as "Property Details" and add "Customer" and "Property" Object.
2. Click Next >» Next >» Save and Add “System Admin "Profile.

App Details & Branding

Give your Lightning app a name and description. Upload an image and choose the highlight color for its navigation bar.

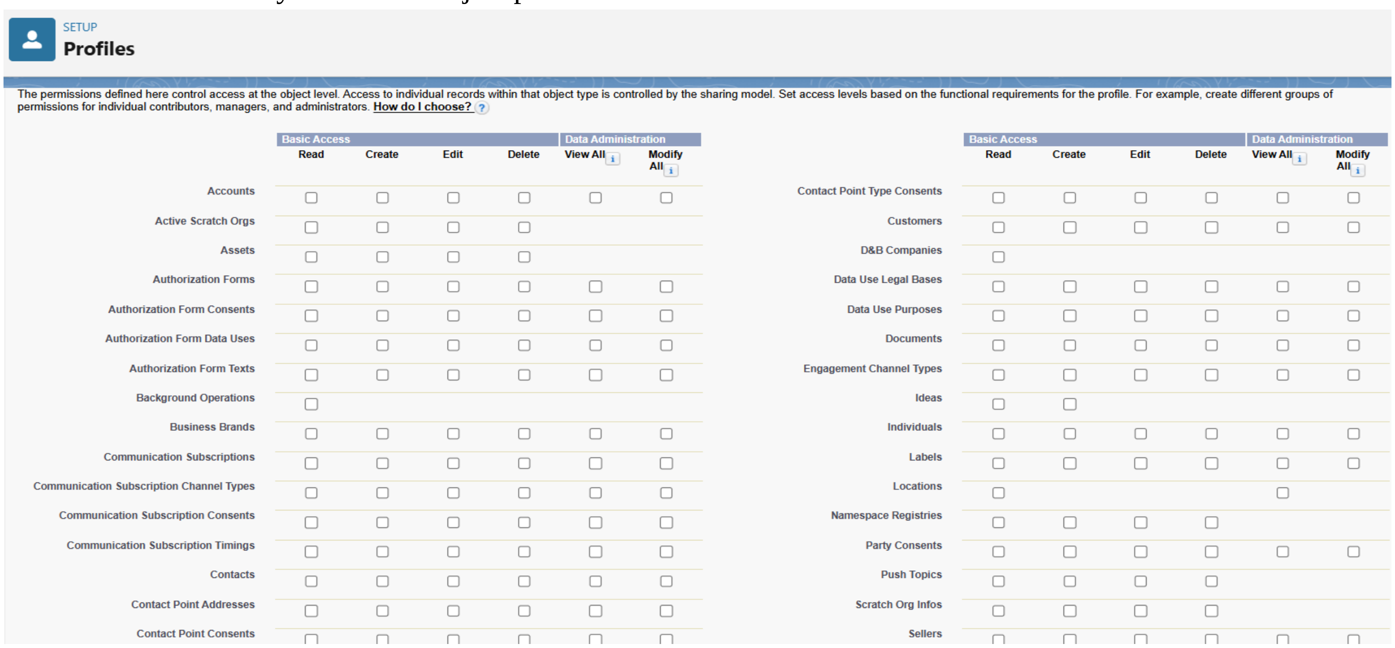


Create Profiles

Create profiles as per business requirement

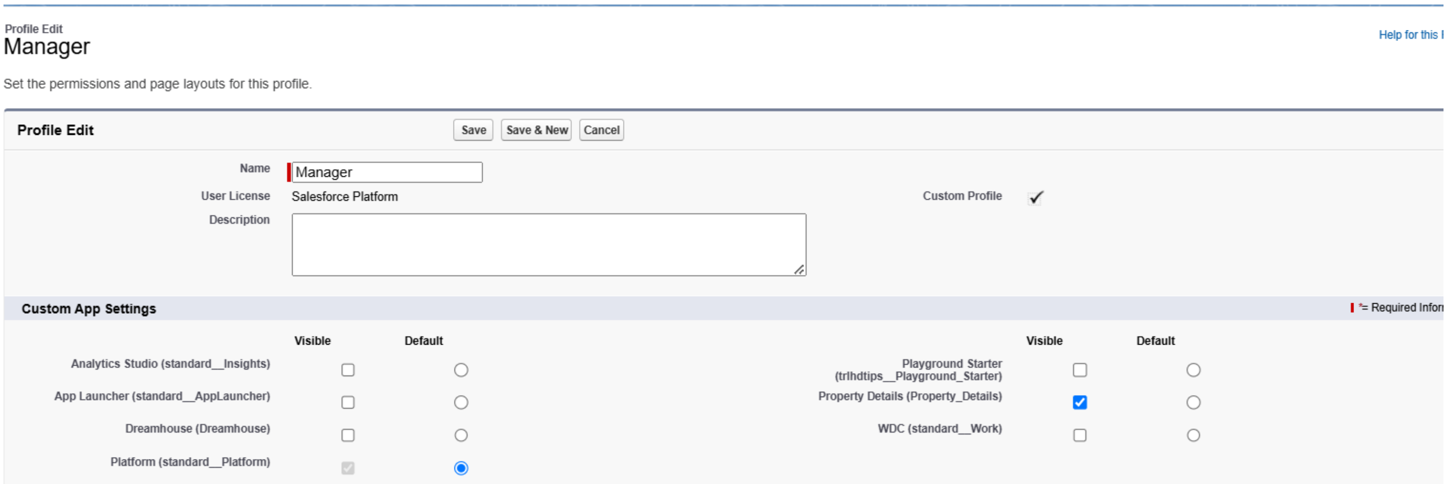
Creating Customer Profiles

1. From Setup? Go to Profiles and Clone (standard pIatform)SaIesforce Platform User and Name it “Customer”..
2. Uncheck allthe Custom Objects and Check onlyProperty Details From Custom App Settings.
3. so RemovealltheStandard Object Permissions
4. Uncheck all the Custom Object Permissions and check read and view all in “Property”
5. make sure every submissionobject permissions are unselected and then save.



Creating ManagerProfiles :-

1. From Setup » Go to Profiles andClone Salesforce Platform User and Name it “Manager”.
2. Uncheck allthe Custom Objects and Check onlyProperty Details From Custom App Settings.
3. Also Remove all the Standard Object Permissions.
4. Uncheck allthe Custom ObjectPermissions and check only“modify all” from “Property” and“Customer”.

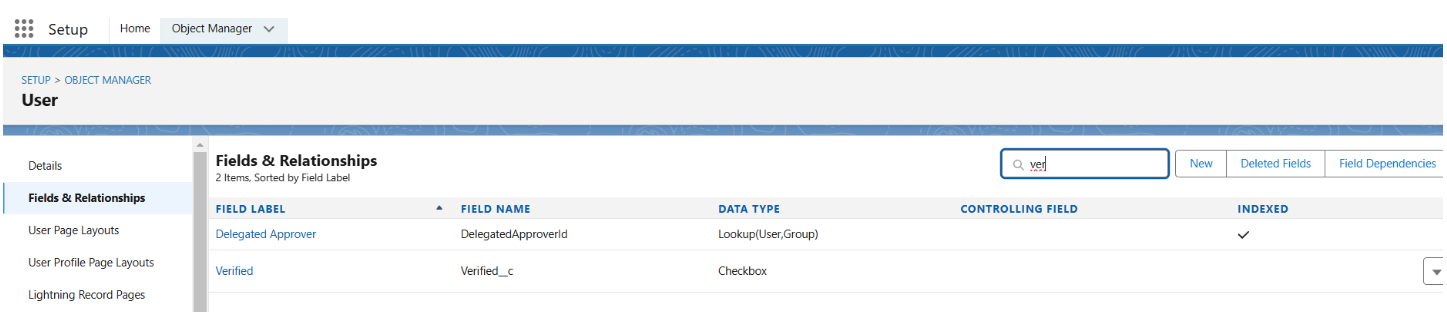


Create a CheckBox field on user

Create Field on the User as per the businessrequirement.

Activity:- 1

1. Setup >> Object Manager >> Search for User >> Fields and Relationships
2. select the Data type “Check Box”
3. Create new Field Named as “Verified”



Create Users

Create three differentusers with three different Roles and profilesas we have mentioned above. here we are going to create 4 users

User : 1

1. Goto Setup --> Administration --› Users --> New User
2. Last Name - Executive
3. Role - Sales Executive
4. License - Salesforce

5. Profile - System Administrator
6. Save

User : 2

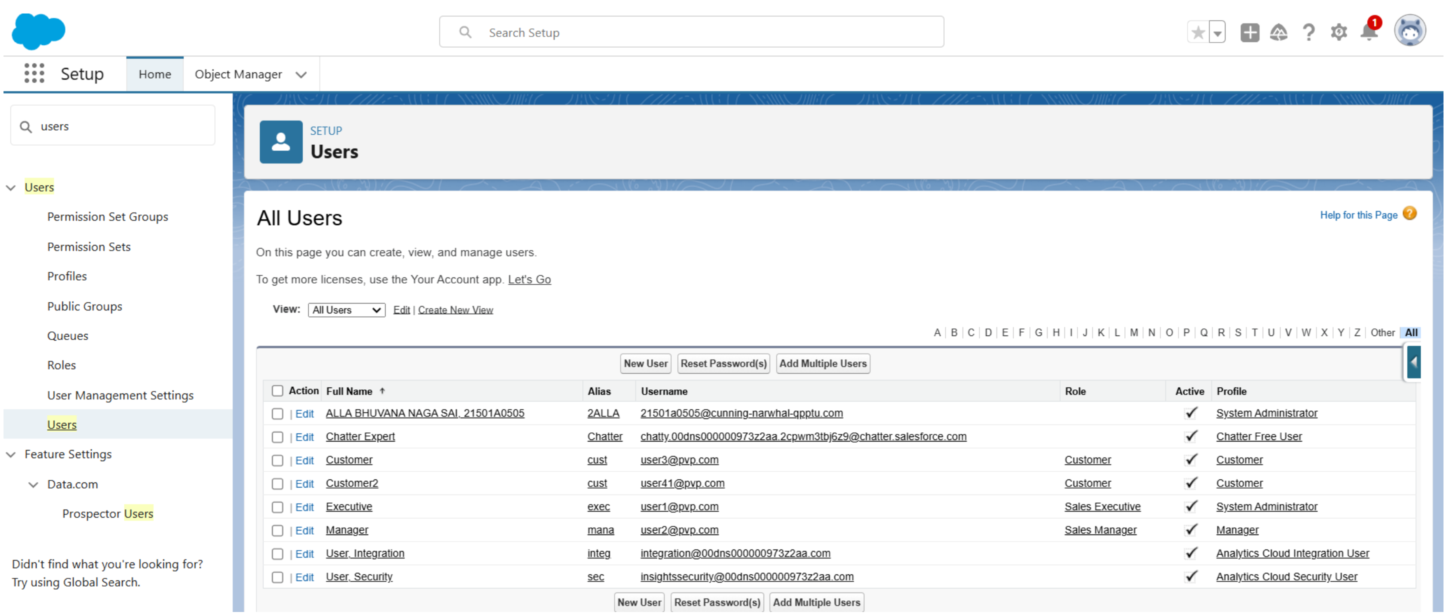
1. Goto Setup > Administration >› Users ››New User
2. Last Name >> Manager
3. Role >> Sales Manager
4. License >> Salesforce Platform
5. Profile >> Manager
6. Save

User : 3

1. Go to Setup»>Administration »> Users »> New User
2. Last Name » Customer
3. Role >> Customer
4. License»>Salesforce Platform
5. Profile»>Customer
6. Make Sure the verifiedcheckboxis"Unchecked"
7. Save

User : 4

1. Goto Setup »> Administration >> Users >> New User
2. Last Name >> Customer2
3. Role >» Customer
4. License >> Salesforce Platform
5. Profile »> Customer
6. Make Sure the verified check box is "checked"
7. Save



Create an Approval Process for PropertyObject

An Approval processto approve or reject the records as according

Activity1

1. From Setup >>Process Automation >Approval Process
2. before proceeding we need to select property in tne manage approval process
3. Process Name - Property Approval
4. select 2 criteria -
5. Location- i not equal to- blank,
6. Verified- Equals- false
7. Click next and "Next Automated Approver Determined By" Select Manager
8. FromRecord Editability Properties >>Click on AdministratorsoRthe currently assigned approver can edit records during the approval process.
9. FromStep 5. Select Fields to Display on Approval Page Layout select Property, Owner, Location, Type.

1. Click Next and Select the initial Submiters »
2. Owner >> Property Owner
3. Roles>> Sales Manager
4. Save.

after saving we are directed to approval steps and we need to do as follows Add an approval step name "Executive Approval "

click next and select the Approver as "Sales Executive "and "Save" Add One field Update as "Verified Property"

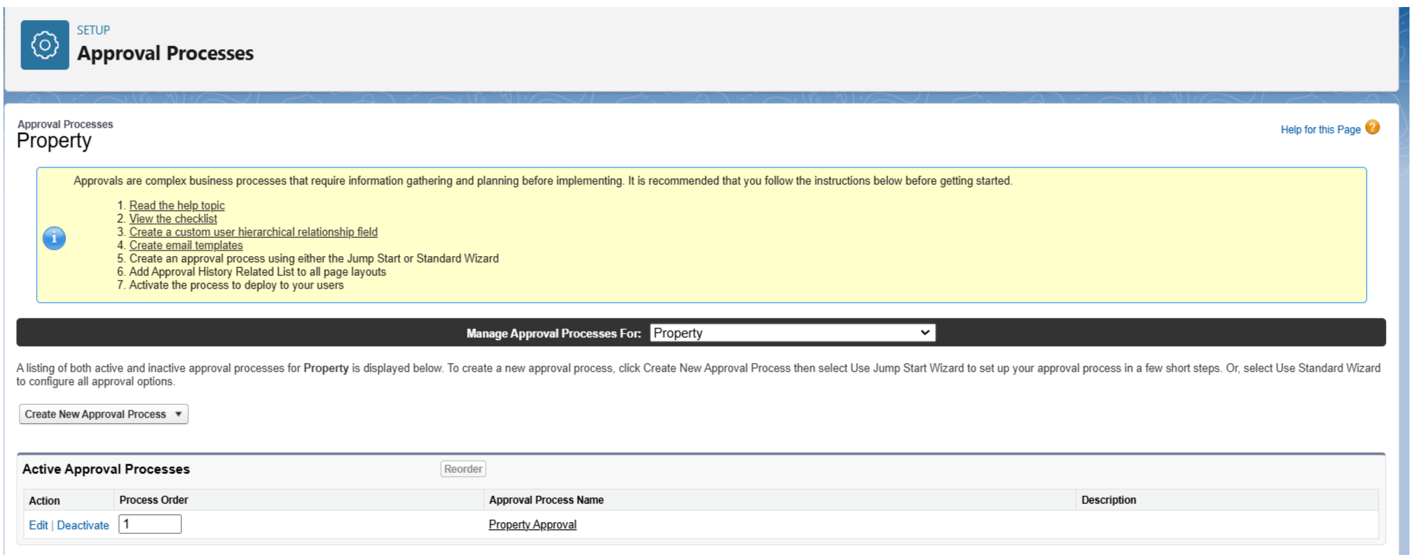
1. Select Object »Property

2. Field to Update >> Verified
3. Field Data Type >» CheckBox
4. Select CheckBox Option as"True"
5. Save.

Add One fieldUpdate as "UnVerified Property"

1. Select Object » Property
2. Field to Update >»Verified
3. Field Data Type >» CheckBox
4. Select CheckBox Option as"False"
5. Save.

Activate the Approval Process.



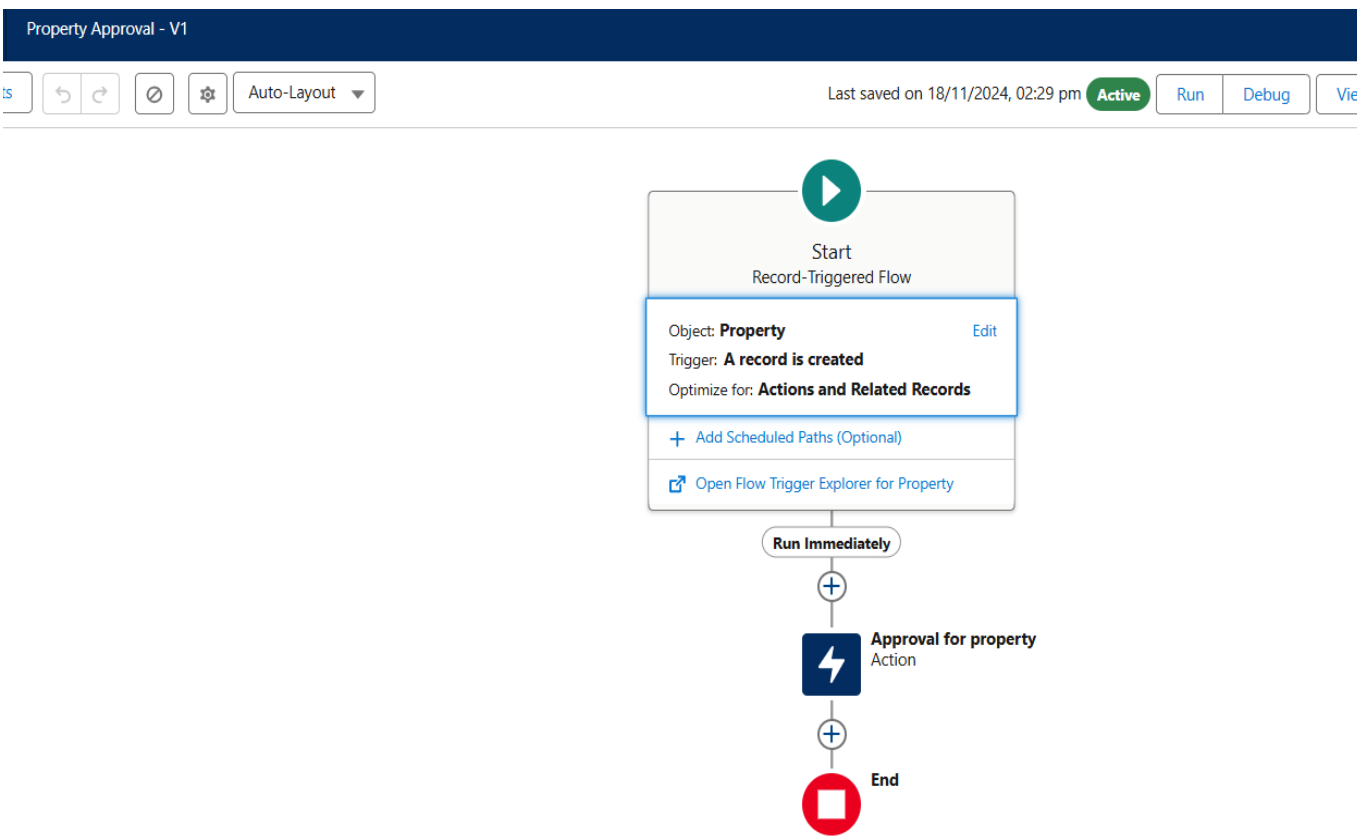
Create a Record Trigger flow to submit the Approval Process Automatically

A flow that can submit the recordsdirectly for approval

Activity1

a. FromSetup >>Search forFlows >>Click OnNew andSelect “Record Trigger Flow”.
b. SelectObject >>Property
c. Select“Trigger the flowwhen” >> “A record is created”
d. SetEntry Conditions>> “None”
e. Add a“Action” >> “Submit for Approval”
f. Give Label >> Approval forproperty
g. Record Id>> (!SRecord.Id)
h. Done

Save the Flow and Give label as “Property Approval” and “Activate”

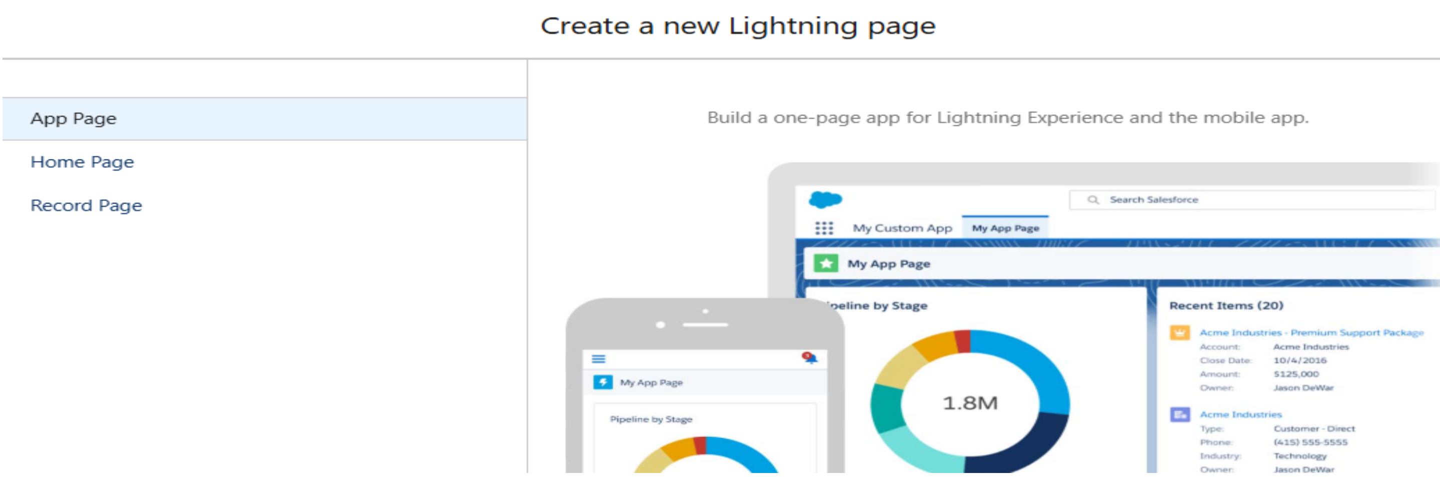


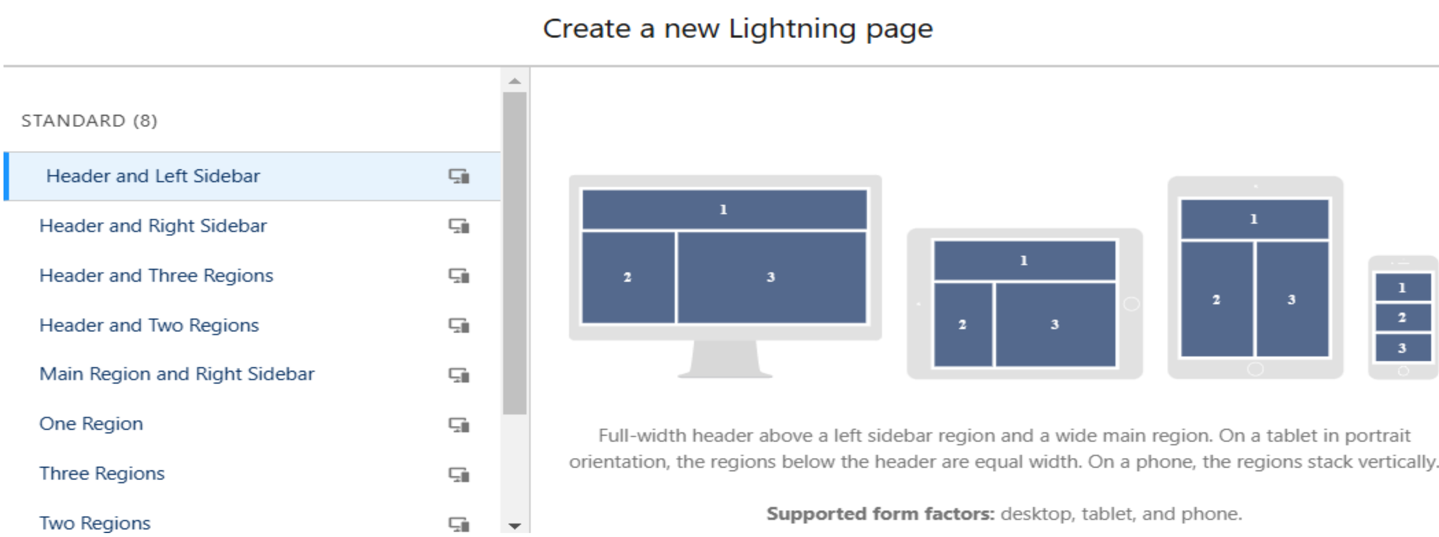
Create an App Page

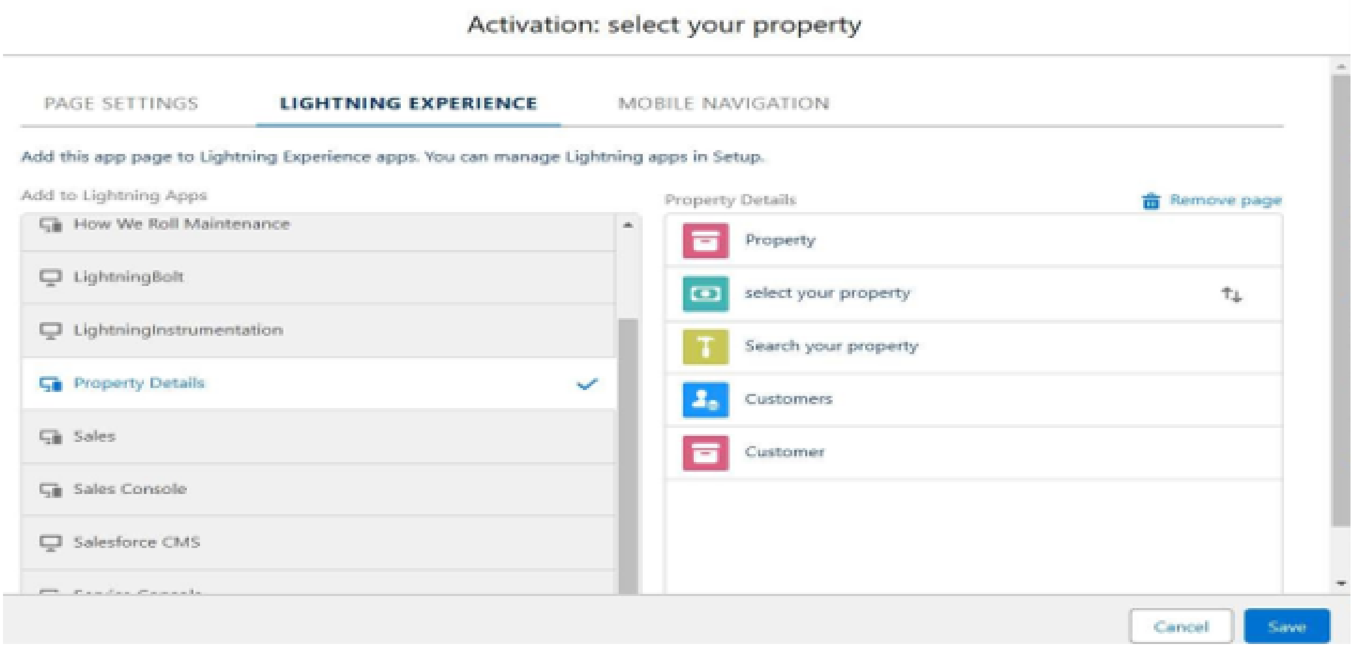
Create an App Page on the Property details Object named as "Search Your Property"

Activity1

1. From Setup »Go to Lightning App Builder >> Click on New >> Select App Page and
2. Click on Next.
3. Give Labelas"Search your Property" click "Next".
4. Click "header and Left Sidebar" and Click on "Done"
5. Click on "Save "and then click on "Activate".
6. From Page Settingselectpageactivationas "Activate for all Users".
7. From Lightning ExperienceClick on "Property Details" and click on Add Page".
8. Then Clickon"Save"







Create a LWC Component

1. Create an LWCComponent for the customers so that only verified customers canaccess the verified properties and non Verified customers can access non verified properties, and deploy it on “Search your Property Page”

```
public class PropertHandler_LWC {
   @AuraEnabled(cacheable=true)
   public static List<Property1__c> getProperty(String type, String verified) {
      // Ensure the verified parameter matches the field name in Salesforce
      return [SELECT Id, Location__c, Property_Name__c, Type__c, Verified__c
              FROM Property1__c
              WHERE Type__c =: type AND Verified__c =: verified];
   }
}
```

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File ▾ Edit ▾ Debug ▾ Test ▾ Workspace ▾ Help ▾ < >

PropertHandler_LWC.apxc

Code Coverage: None ▾ API Version: 62

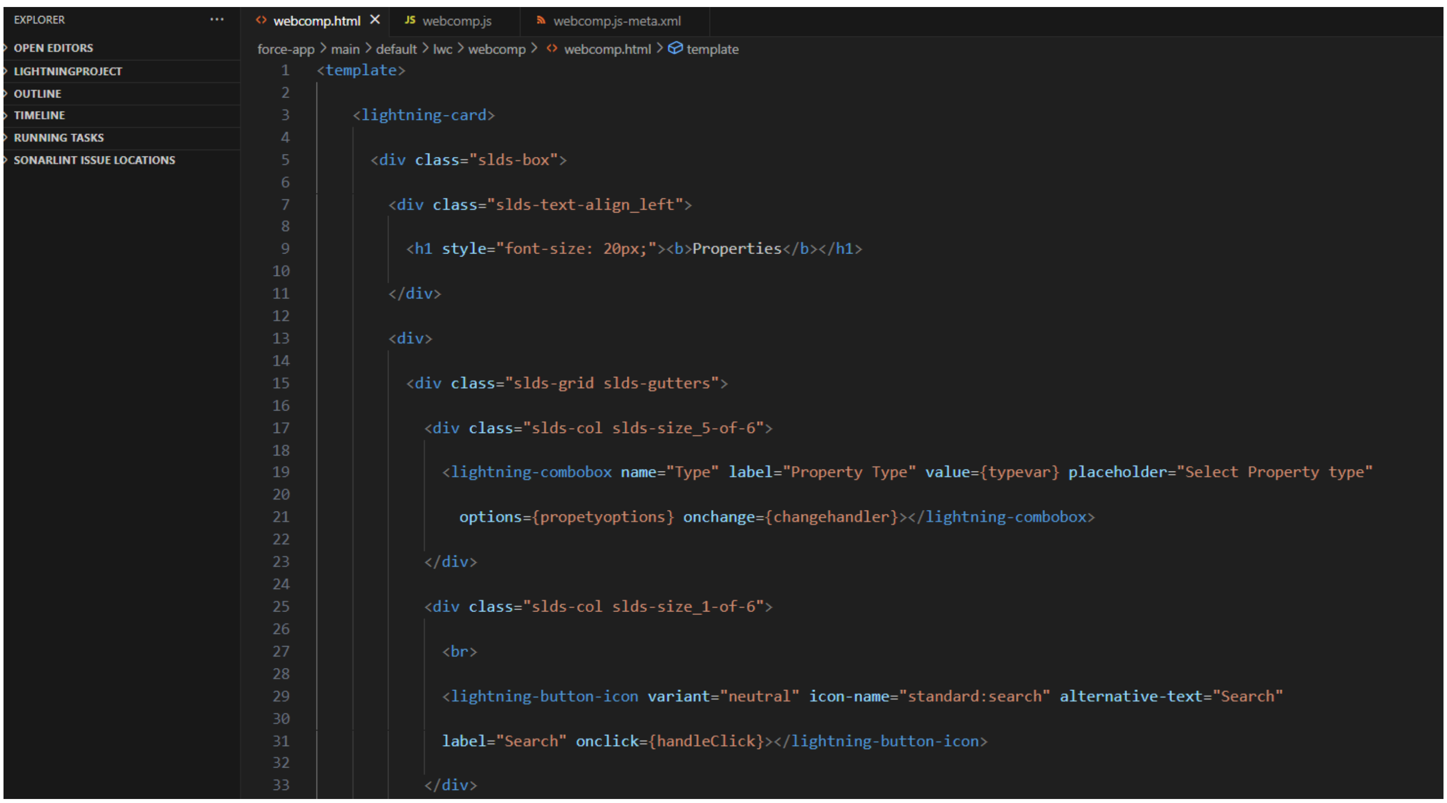
```
public class PropertHandler_LWC {

    @AuraEnabled(cacheable=true)
    public static List<Property1__c> getProperty(String type, String verified) {
        // Ensure the verified parameter matches the field name in Salesforce
        return [SELECT Id, Location__c, Property_Name__c, Type__c, Verified__c
                FROM Property1__c
                WHERE Type__c =: type AND Verified__c =: verified];
    }
}
```

1. Create a Lightning Web Component in your VsCode, and (ctrl+shift +P) andclick on authorize an org.
2. Enter your login id and password to authorize your org.
3. Now (ctrl+shift +P) and Create a lightning Web Component and Name it Anything you want to. (Example -
4. In yourHtml File Write this code : -

Code :-

```
<tempIate>
 <Iightning-card>
  <div class="sIds-box">
   <div class="sIds-text-aIign_Ieft">
    <h1 styIe="font-size: 20px;"><b>Properties</b></h1>
   </div>
   <div>
    <div cIass="sIds-grid sIds-gutters">
     <div class=”sIds-col sIds-size_5-of-6“>
                    <lightning-combobox name="Type"  IabeI="Property  Type"  value=(typevar} pIacehoIder="SeIect Property
type”
       options=(propetyoptions}  onchange=(changehandIer}></lightning-combobox>
     </div>
     <div class=”sIds-col sIds-size_1-of-6”>
      <br>
              <Iightning-button-icon  variant=”neutraI"  icon-name=”standard:search"  alternative-text="Search"
      IabeI="Search"  onclick=(handleCIick}></lightning-button-icon>
     </div>
    </div>
   </div>
```

```
    </div>
    <tempIate  if:true=(istrue)>

      <div class="sIds-box">

                <lightning-datatable  key-fieId="id"  data=(propertyIist}  columns=(coIumns}></Iightning-

datatabIe>

      </div>

    </templates

    <tempIate  if:false=(isfalse}>

      <div class="sIds-box">

       <div styIe="font-size: 15px;"><b>No  properties  Are Found !!</b></div>

      </div>
    </template›
  </lightning-card>

</templates>
```



EXPLORER
OPEN EDITORS
LIGHTNINGPROJECT
OUTLINE
TIMELINE
RUNNING TASKS
SONARLINT ISSUE LOCATIONS

webcomp.html × | webcomp.js | webcomp.js-meta.xml

force-app > main > default > lwc > webcomp > webcomp.html > template

```
<template>

    <lightning-card>

      <div class="slds-box">

        <div class="slds-text-align_left">

          <h1 style="font-size: 20px;"><b>Properties</b></h1>

        </div>

        <div>

          <div class="slds-grid slds-gutters">

            <div class="slds-col slds-size_5-of-6">

              <lightning-combobox name="Type" label="Property Type" value={typevar} placeholder="Select Property type"

                options={propetyoptions} onchange={changehandler}></lightning-combobox>

            </div>

            <div class="slds-col slds-size_1-of-6">

              <br>

              <lightning-button-icon variant="neutral" icon-name="standard:search" alternative-text="Search"

              label="Search" onclick={handleClick}></lightning-button-icon>

            </div>
```

```
import ( LightningElement, api, track, wire ) from 'Iwc';

import getProperty from "@salesforce/apex/PropertHandIer_LWC.getProperty"

import ( getRecord } from 'lightning/uiRecordApi'; import USER  ID from

'@salesforce/user/Id';

export default class C  01_Property_M anagementextends LightningElement ( @api recordld

    userld = USER_ID; verifiedvar  typevar

    isfalse = true; istrue = false;

    @track  propertylist  = [];
```

```
columns = [
  ( label: 'Property Name', fieldName: 'Property_Name   c' ), ( label: 'Property Type',
  fieldName: 'Type   c' ),
  ( label: 'Property Location', fieldName: 'Locationc' ), ( label: "Property link",
  fieldName: "Property  link   c"}
propetyoptions= [
  ( label: "Commercial", value: "Commercial" }, ( label: "Residential",
  value: "Residential" ),
  ( label: "rental", value: "rental" }

@wire(getRecord, ( recordld: "$userld", fields: ['User.Verified   c'] )) recordFunction(( data, error }) (
  if (data) ( console.log(data)
    console.log("This is the User Id ---> ”+this.userId); this.verifiedvar =
    data.fields.Verified   c.value;
  } else (
    console.error(error) console.log('this is error')
changehandIer(event) ( console.log(event.target.value); this.typevar =
  event.target.value;
handleClick() {
  getProperty(( type: this.typevar, verified: this.verifiedvar ))
    .then((result) => ( this.isfaIse = true;
      console.log(result)
      console.log('This is the User id ---> ' + this.userId);
      console.log(’This is the verified values ---> ' + this.verifiedvar); if (result != null &&
      result.length != 0) (
        this.istrue = true; this.propertyIist = result;
        console.log(this.verifiedvar);
        console.log(this.typevar)
      ) else (
        this.isfaIse = false; this.istrue = false;
    .catch((error) => ( console.log(error)
```

webcomp.html | webcomp.js | webcomp.js-meta.xml

force-app > main > default > lwc > webcomp > webcomp.js > Webcomp > columns

```javascript
import { LightningElement, api, track, wire } from 'lwc';

import getProperty from "@salesforce/apex/PropertHandler_LWC.getProperty"

import { getRecord } from 'lightning/uiRecordApi';

import USER_ID from '@salesforce/user/Id';

export default class Webcomp extends LightningElement {

    @api recordId

    userId = USER_ID;

    verifiedvar

    typevar

    isfalse = true;

    istrue = false;

    @track propertylist = [];

    columns = [

        { label: 'Property Name', fieldName: 'Property_Name__c' },

        { label: 'Property Type', fieldName: 'Type__c' },

        { label: 'Property Location', fieldName: 'Location__c' },

        { label: "Property link", fieldName: "Property_link__c" }
```

webcomp.html | webcomp.js | webcomp.js-meta.xml

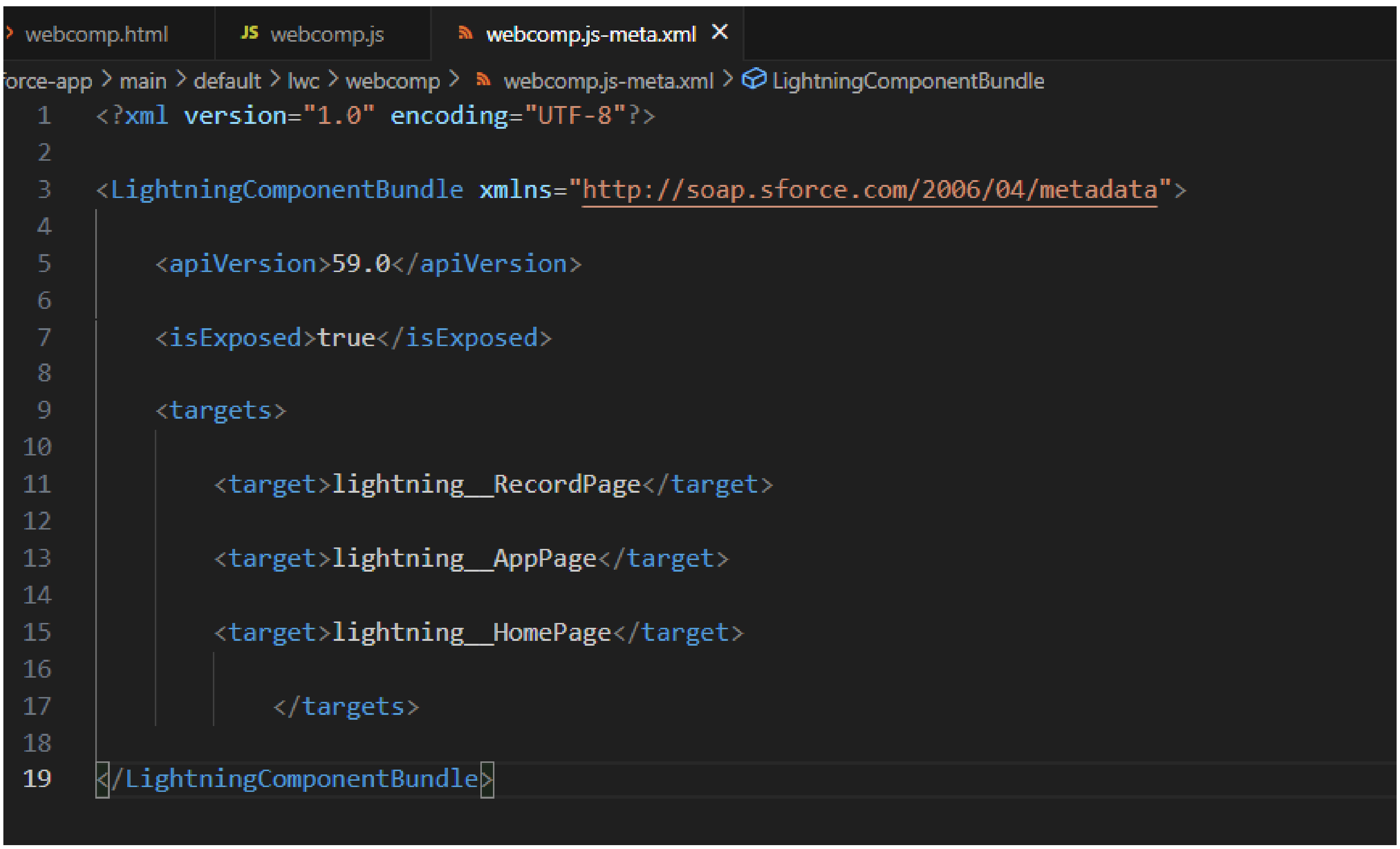
force-app > main > default > lwc > webcomp > webcomp.js > Webcomp > columns

```javascript
export default class Webcomp extends LightningElement {
    propetyoptions = [
        { label: "Commercial", value: "Commercial" },

        { label: "Residential", value: "Residential" },

        { label: "rental", value: "rental" }


    ]

    Tabnine | Edit | Test | Explain | Document | Ask
    @wire(getRecord, { recordId: "$userId", fields: ['User.Verified__c'] })

    recordFunction({ data, error }) {

        if (data) {

            console.log(data)

            console.log("This is the User Id ---> "+this.userId);

            this.verifiedvar = data.fields.Verified__c.value;

        } else {

            console.error(error)

            console.log('this is error')

        }

    }
```

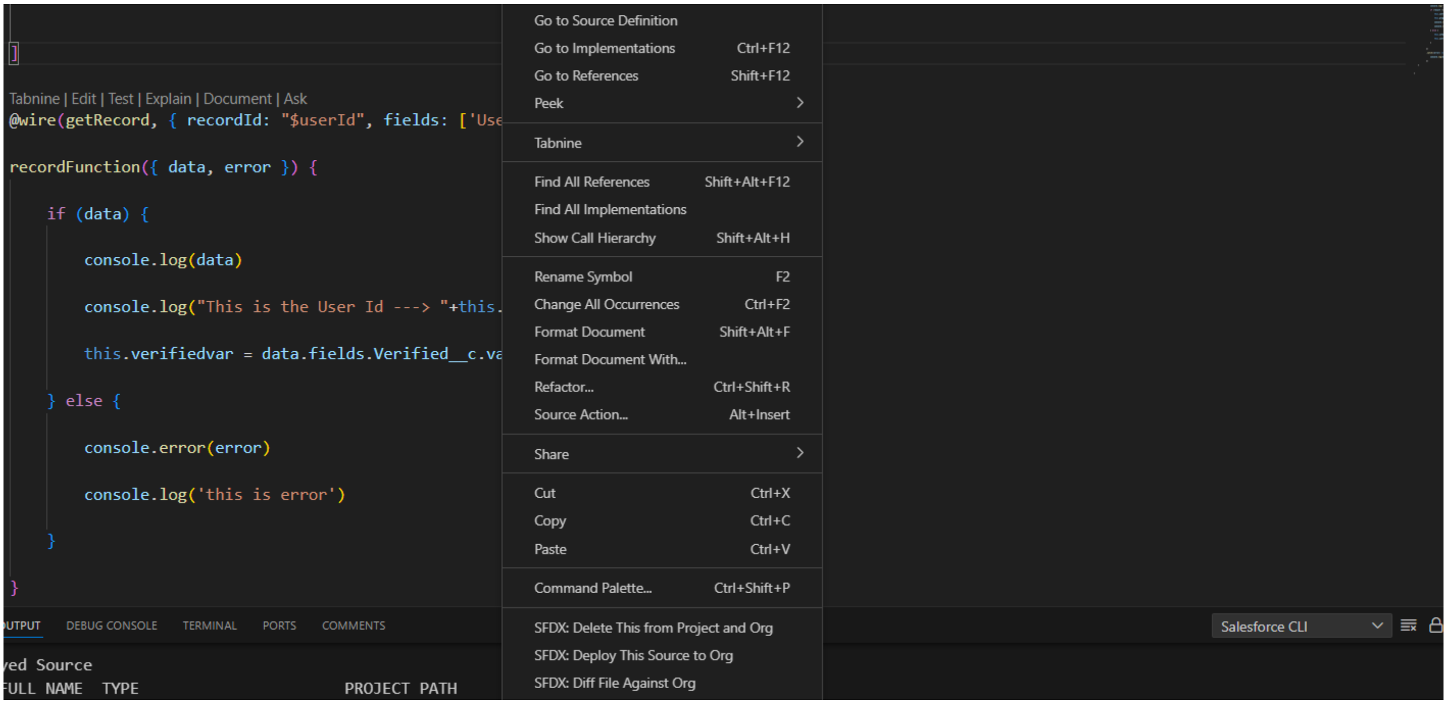
1. In Yourmetafile give your targets to deploy the component.

Code

```
<?xmI version="1.0" encoding="UTF-8"?>
<LightningComponentBundIe xmlns="http://soap.sforce.com/2006/04/metadata">
  <apiVersion>59.0</apiVersion>
  <isExposed>true</isExposed>
  <targets>
    <target>Iightning__RecordPage</targets
    <target>Iightning__AppPage</targets
    <target>Iightning__HomePage</targets
      </targets>
</LightningComponentBundIe>
```



After Saving all the three Codes , Right Click and deploy this componentto the org



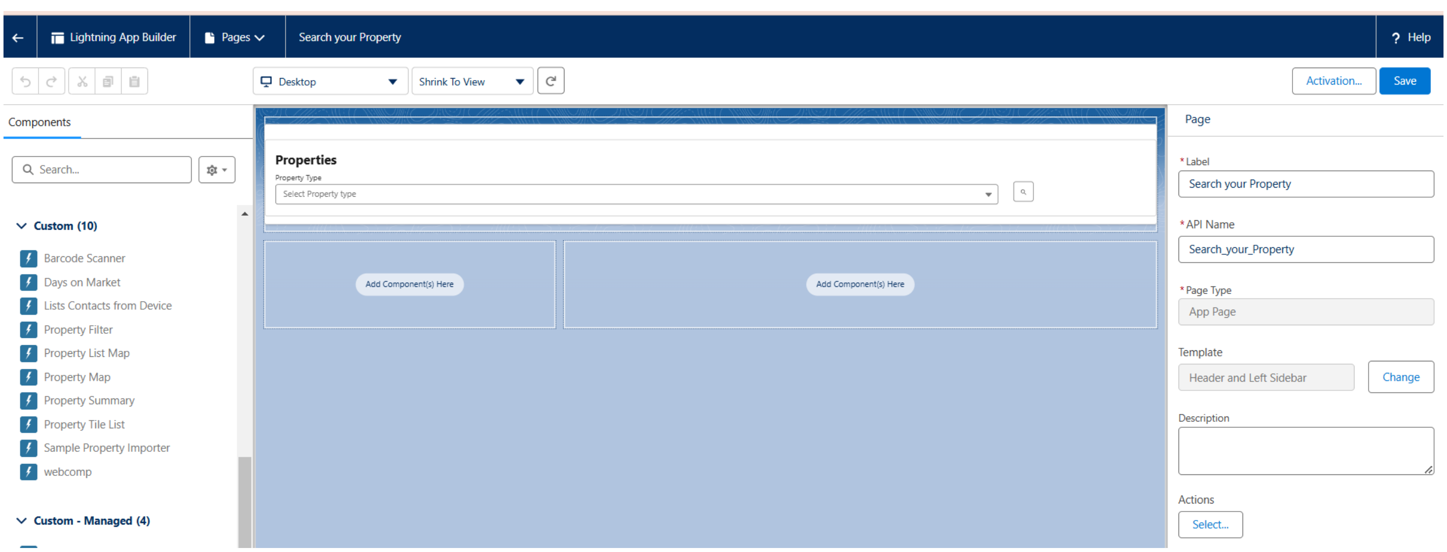
Drag this Component to your App Page

Adding the Componentto your Page

Activity1

1. From Setup >> Go to App Launcher >> Searchfor PropertyDetails
2. On thisPage click ongear icon andclick on EditPage
3. after clicking on edit pageit will bnedirected to apppages then

3. Drag the Component(properties) to your App Page and Save the Page.



Give Access of Apex Classesto Profiles

The Apex Class has a Security, Enable the security for the profiles that needs to access this class.

1. Activity1

   From Setup>> Search For Apex Classes>> Click on "Security" behind "PropertyHandlerLWC".

2. From Profiles Add "Manager" and"Customer" and "Save".