

# **CRM APPLICATION FOR JEWEL MANAGEMENT**

SK

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## **1.INTRODUCTION**

### **1.1 PROJECT OVERVIEW**

- ❖ Jewellery management in a CRM (Customer Relationship Management) system is specialized software designed for jewelry businesses to centralize customer data, manage interactions, and optimize sales and inventory.
- ❖ It helps jewelers understand customer preferences and purchase history to provide personalized service, automate follow-ups, and track sales and orders efficiently. By analyzing data, a jewelry CRM can also improve inventory management, suggest targeted marketing campaigns, and ultimately foster customer loyalty and drive business growth.

SK



## 1.2 PURPOSE

- ❖ The primary purpose of jewellery management in a CRM is to enhance customer satisfaction and loyalty by providing personalized service, tracking purchase history and preferences, and facilitating targeted marketing and engagement.

## DEVELOPMENT PHASE

CREATING DEVELOPER ACCOUNT :

BY USING THIS URL : <https://www.salesforce.com/form/developer-signup/>

The screenshot shows the Salesforce Developer Edition signup page. The page has a dark blue background with white text. On the left, there is a heading "Build enterprise-quality apps fast and get hands-on with Agentforce and Data Cloud." followed by "Sign up for your Developer Edition." and a list of five bullet points: "Build apps fast with drag-and-drop tools", "Go further with Apex code", "Build AI agents with Agentforce", "Harmonize your data with Data Cloud", "Ground Agentforce with structured and unstructured data", and "Integrate with anything using APIs". On the right, there is a white box titled "Sign up for your Developer Edition" with the subtitle "A free Salesforce Platform environment with Agentforce and Data Cloud". Inside this box, there are input fields for "First name", "Last name", "Job title", "Work email", "Company", and "Country/Region". Below these fields, there is a checkbox labeled "I agree to the Main Services Agreement – Developer Services and Salesforce Program Agreement. I acknowledge, as described in the Developer Documentation: (1) the Developer Edition includes autonomous and other generative AI features; and (2) Salesforce may limit use of those features and the org. and may terminate any org that has been inactive for 45 days." and a line of text "By registering I confirm that I have read and agree to the Privacy Statement."

Build enterprise-quality apps fast and get hands-on with Agentforce and Data Cloud.

Sign up for your Developer Edition.

- ✓ Build apps fast with drag-and-drop tools
- ✓ Go further with Apex code
- ✓ Build AI agents with Agentforce
- ✓ Harmonize your data with Data Cloud
- ✓ Ground Agentforce with structured and unstructured data
- ✓ Integrate with anything using APIs

**Sign up for your Developer Edition**  
A free Salesforce Platform environment with Agentforce and Data Cloud

First name Last name

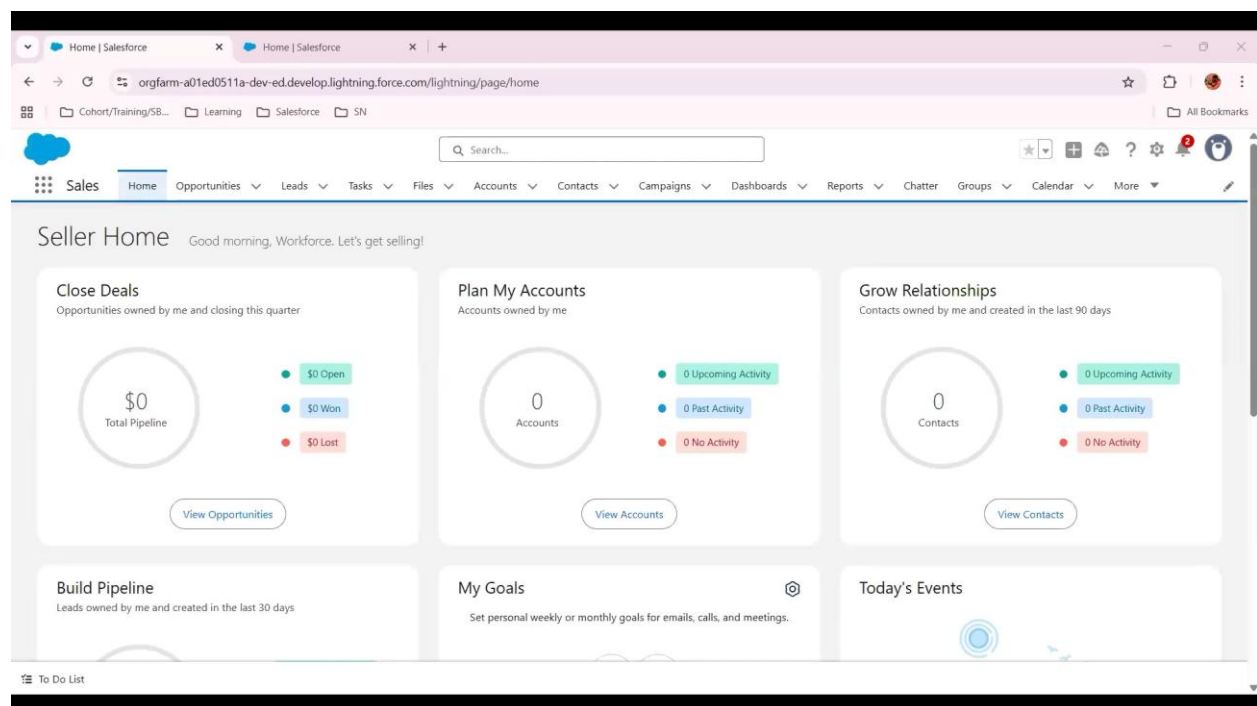
Job title Work email

Company Country/Region

Your org may be provisioned on or migrated to Hyperforce, Salesforce's public cloud infrastructure.

☐ I agree to the Main Services Agreement – Developer Services and Salesforce Program Agreement. I acknowledge, as described in the Developer Documentation: (1) the Developer Edition includes autonomous and other generative AI features; and (2) Salesforce may limit use of those features and the org. and may terminate any org that has been inactive for 45 days.

By registering I confirm that I have read and agree to the Privacy Statement.





## Created objects: Property, Tenant, Lease, Payment

The screenshot shows the Salesforce Object Manager interface. The browser tabs include 'Home | Salesforce', 'Object Manager | Salesforce', and 'Student'. The address bar shows the URL 'orgfarm-a01ed0511a-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/home'. The Salesforce navigation bar includes 'Setup', 'Home', and 'Object Manager'. The Object Manager header shows 'Object Manager' with a 'Quick Find' search bar, 'Schema Builder' button, and 'Create' button. Below the header is a table listing standard objects.

LABEL	API NAME	TYPE	DESCRIPTION	LAST MODIFIED	DEPLOYED
Account	Account	Standard Object			
Activity	Activity	Standard Object			
Address	Address	Standard Object			
Agent Work	AgentWork	Standard Object			
Alternative Payment Method	AlternativePaymentMethod	Standard Object			
API Anomaly Event Store	ApiAnomalyEventStore	Standard Object			
Appointment Category	AppointmentCategory	Standard Object			
Appointment Invitation	AppointmentInvitation	Standard Object			
Appointment Invitee	AppointmentInvitee	Standard Object			
Appointment Topic Time Slot	AppointmentTopicTimeSlot	Standard Object			
Approval Submission	ApprovalSubmission	Standard Object			
Approval Submission Detail	ApprovalSubmissionDetail	Standard Object			

Home | Salesforce | Object Manager | Salesforce | Student | orgfarm-a01ed0511a-dev-ed.lightning.force.com/lightning/setup/ObjectManager/home

Search Setup

Setup Home Object Manager

Object Manager  
19 Items, Sorted by Label

Search item Schema Builder Create

LABEL	API NAME	TYPE	DESCRIPTION	LAST MODIFIED	DEPLOYED
Approval Work Item	ApprovalWorkItem	Standard Object			
Cart Item	CartItem	Standard Object			
Cart Item Price Adjustment	CartItemPriceAdjustment	Standard Object			
Change Request Related Item	ChangeRequestRelatedItem	Standard Object			
Contract Line Item	ContractLineItem	Standard Object			
Duplicate Record Item	DuplicateRecordItem	Standard Object			
Fulfillment Order Item Adjustment	FulfillmentOrderItemAdjustment	Standard Object			
Fulfillment Order Item Tax	FulfillmentOrderItemTax	Standard Object			
Incident Related Item	IncidentRelatedItem	Standard Object			
Inventory Item Reservation	InventoryItemReservation	Standard Object			

❖ Configured fields and relationships

Home | Salesforce x Jewel Customer | Salesforce x Student x +

orgfarm-a01ed0511a-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/011gK000001owLB/Details/View

Cohort/Training/SB... Learning Salesforce SN

Search Setup

Setup Home Object Manager

SETUP > OBJECT MANAGER

### Jewel Customer

Details Edit Delete

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

List View Button Layout

Restriction Rules

Description

API Name  
Jewel\_Customer\_\_c

Custom ✓

Singular Label  
Jewel Customer

Plural Label  
Jewel Customers

Enable Reports  
✓

Track Activities

Track Field History

Deployment Status  
Deployed

Help Settings  
Standard salesforce.com Help Window

Home | Salesforce x Item | Salesforce x Student x +

orgfarm-a01ed0511a-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/011gK000001oqUH/PageLayouts/view

Cohort/Training/SB... Learning Salesforce SN

Search Setup

Setup Home Object Manager

SETUP > OBJECT MANAGER

### Item

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Restriction Rules

Page Layouts

1 Items, Sorted by Page Layout Name

Quick Find New Page Layout Assignment

PAGE LAYOUT NAME	CREATED BY	MODIFIED BY
Item Layout	Workforce Project, 8/24/2025, 9:02 PM	Workforce Project, 8/24/2025, 11:24 PM

orgfarm-a01ed0511a-dev-ed.develop.lightning.force.com/lightning/setup/.../view

Create New Custom Object

**Customer Order**

Details

**Fields & Relationships**

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Restriction Rules

### 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 data 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 read-only field that derives its value from a formula expression you define. The formula field is updated when any of the source fields change.

☐ Roll-Up Summary (1) A read-only 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 Creates a relationship that links this object to another object. The relationship field allows users to click on a lookup icon to select a value from a popup list. The other object is the source of the values in the list.

☐ Master Detail Relationship Creates a special type of exact child relationship between this object (the child, or detail) and another object (the parent, or master) where...

**New Custom Object**

Permissions for this object are disabled for all profiles by default. You can enable object permissions in permission sets or by editing custom profiles. [Tell me more!](#) [Don't show this message again](#)

**Custom Object Definition Edit** Save Save & New Cancel

**Custom Object Information** Required Information

The singular and plural labels are used in tabs, page layouts, and reports.

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

## ❖ Create New User and Roles





Home | Salesforce x Users | Salesforce x Student x +

orgfarm-a01ed0511a-dev-ed.develop.lightning.force.com/lightning/setup/ManageUsers/home

Search Setup

Setup Home Object Manager

users

Users

- Permission Set Groups
- Permission Sets
- Profiles
- Public Groups
- Queues
- Roles
- User Management Settings
- Users
- Feature Settings
  - Data.com
  - Prospector Users

Didn't find what you're looking for? Try using Global Search.

## SETUP Users

On this page you can create, view, and manage users.

To get more licenses, use the Your Account app. [Let's Go](#)

View: All Users Edit Create New View

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Other All

New User Reset Password(s) Add Multiple Users

Action	Full Name	Alias	Username	Role	Active	Profile
<input type="checkbox"/> Edit	Chatter Expert	Chatter	chatter.00d9k00000v4sluas.grbzrarnhwa@chatter.salesforce.com		<input checked="" type="checkbox"/>	Chatter Free User
<input type="checkbox"/> Edit	EPIC_OrgFarm	OEPIG	epic.a01289b77b47@orgfarm.salesforce.com		<input checked="" type="checkbox"/>	System Administrator
<input type="checkbox"/> Edit	Mikaelson_Kol	kmika	kol@org.com	Manager	<input checked="" type="checkbox"/>	Manager
<input type="checkbox"/> Edit	Mikaelson_Niklaus	nmika	niklaus@org.com	HR	<input checked="" type="checkbox"/>	HR
<input type="checkbox"/> Edit	Mikaelson_Paul	pmika	paulm@org.com	On Site Employee	<input checked="" type="checkbox"/>	On Site Employee
<input type="checkbox"/> Edit	Mikaelson_Van	vmika	van@org.com	Remote Employee	<input type="checkbox"/>	Remote Employee
<input type="checkbox"/> Edit	Project_Workforce	nad	nadeem@16@agentforce.com		<input checked="" type="checkbox"/>	System Administrator
<input type="checkbox"/> Edit	User_Integration	integ	integration@00d9k00000v4sluas.com		<input checked="" type="checkbox"/>	Analytics Cloud Integration User

SAKTHI

Home | Salesforce x Roles | Salesforce x Student x +

orgfarm-a01ed0511a-dev-ed.develop.lightning.force.com/lightning/setup/Roles/home

Search Setup

Setup Home Object Manager

roles

Users

Roles

- Feature Settings
  - Sales
    - Contact Roles on Contracts
    - Contact Roles on Opportunities
  - Service
    - Case Teams
      - Case Team Roles
      - Contact Roles on Cases

Didn't find what you're looking for? Try using Global Search.

## SETUP Roles

### Understanding Roles

Set up your Role Hierarchy to control how your organization reports on and accesses data.

Sample Role Hierarchy

View other sample Role Hierarchies: Territory-based Sample

[Set Up Roles](#)

☐ Don't show this page again

<https://orgfarm-a01ed0511a-dev-ed.develop.lightning.force.com/lightning/setup/Roles/home>

Create New Lightning App

SAKTHIVEL



Home | Salesforce x App Manager | Salesforce x Student x +

orgfarm-a01ed0511a-dev-ed.lightning.force.com/lightning/setup/NavigationMenus/home

## New Lightning App

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


### App Details


\* App Name ⓘ  
Name your app...

\* Developer Name ⓘ  
Enter a developer name...

Description ⓘ  
Enter a description...

### App Branding

Image ⓘ  
 Upload

Primary Color Hex Value ⓘ  
 #0070D2

Org Theme Options  
☐ Use the app's image and color instead of the org's custom theme

### App Launcher Preview

Home | Salesforce x App Manager | Salesforce x Student x +

orgfarm-a01ed0511a-dev-ed.lightning.force.com/lightning/setup/NavigationMenus/home

## New Lightning App

### Available Items

Search Item

- Approval Work Items
- Contract Line Items
- Inventory Count Plan Items
- Inventory Count Product Batch Items
- Inventory Item Reservations
- IT Services Configured Items
- Items
- Orchestration Work Items
- Price Protection Execution Line Items
- Product Batch Items

### Selected Items

- Jewel Customers

Back Next

## ❖ Create An Apex Class



Home | Salesforce | Billing | Salesforce | Developer Console | Student

orgfarm-a01ed0511a-dev-ed.develop.my.salesforce.com/\_ui/common/apex/debug/ApexCSIPage

My Tabs | My Tabs

File | Edit | Debug | Test | Workspace | Help

UpdatePaidAmountTriggerHandler.apxc

Code Coverage: None | API Version: 64

```
1 public class UpdatePaidAmountTriggerHandler {
2     public static void handleBeforeInsert(List<Billing__c> newBillings) {
3
4         for (Billing__c billing : newBillings) {
5
6             billing.Paid_Amount__c = billing.Paying_Amount__c;
7
8         }
9     }
10
11
12
13
14     public static void handleBeforeUpdate(Map<Id, Billing__c> oldBillingsMap, List<Billing__c> updatedBillings) {
15
16         for (Billing__c billing : updatedBillings) {
17
18             Billing__c oldBilling = oldBillingsMap.get(billing.Id);
19
20         }
21     }
22 }
```

Logs | Tests | Checkpoints | Query Editor | View State | Progress | Problems

Name	Line	Problem
UpdatePaidAmountTriggerHandler	6	Variable does not exist: Paying_Amount__c
UpdatePaidAmountTriggerHandler	6	Variable does not exist: Paid_Amount__c
UpdatePaidAmountTriggerHandler	20	Variable does not exist: Paid_Amount__c
UpdatePaidAmountTriggerHandler	22	Variable does not exist: Paying_Amount__c
UpdatePaidAmountTriggerHandler	22	Variable does not exist: Paid_Amount__c

Home | Salesforce | Billing | Salesforce | Developer Console | Student

orgfarm-a01ed0511a-dev-ed.develop.my.salesforce.com/\_ui/common/apex/debug/ApexCSIPage

My Tabs | My Tabs

File | Edit | Debug | Test | Workspace | Help

UpdatePaidAmountTriggerHandler.apxc | UpdatePaidAmountTrigger.apxt

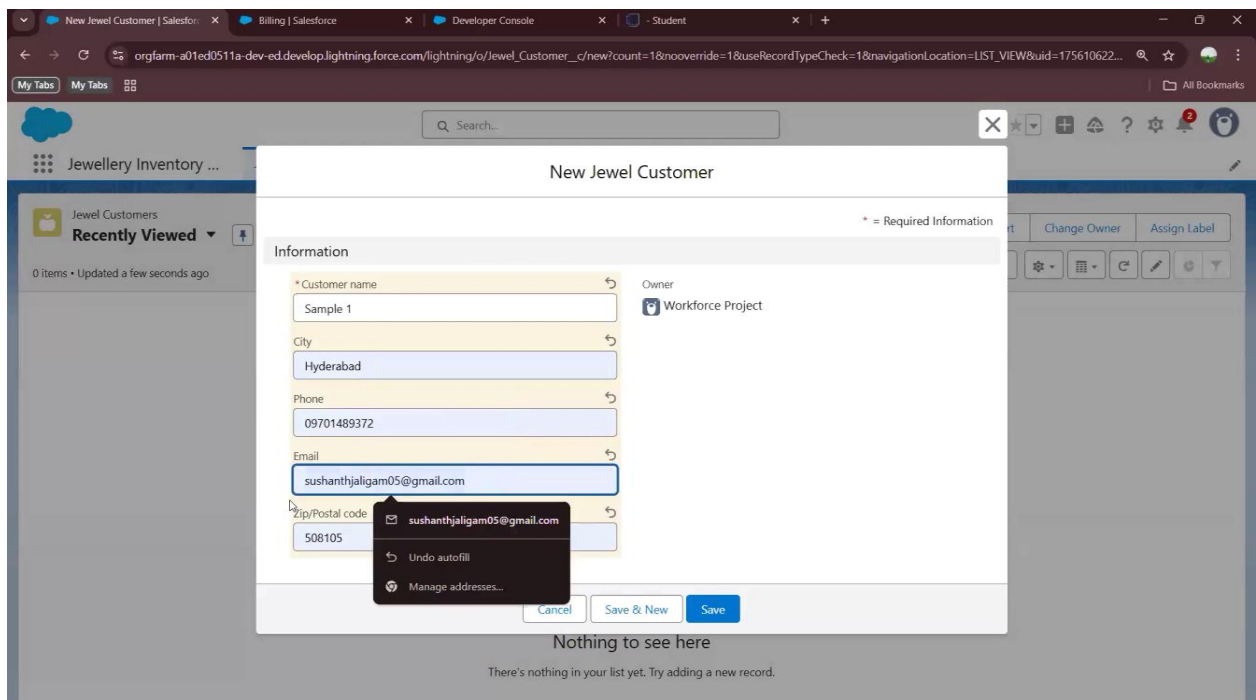
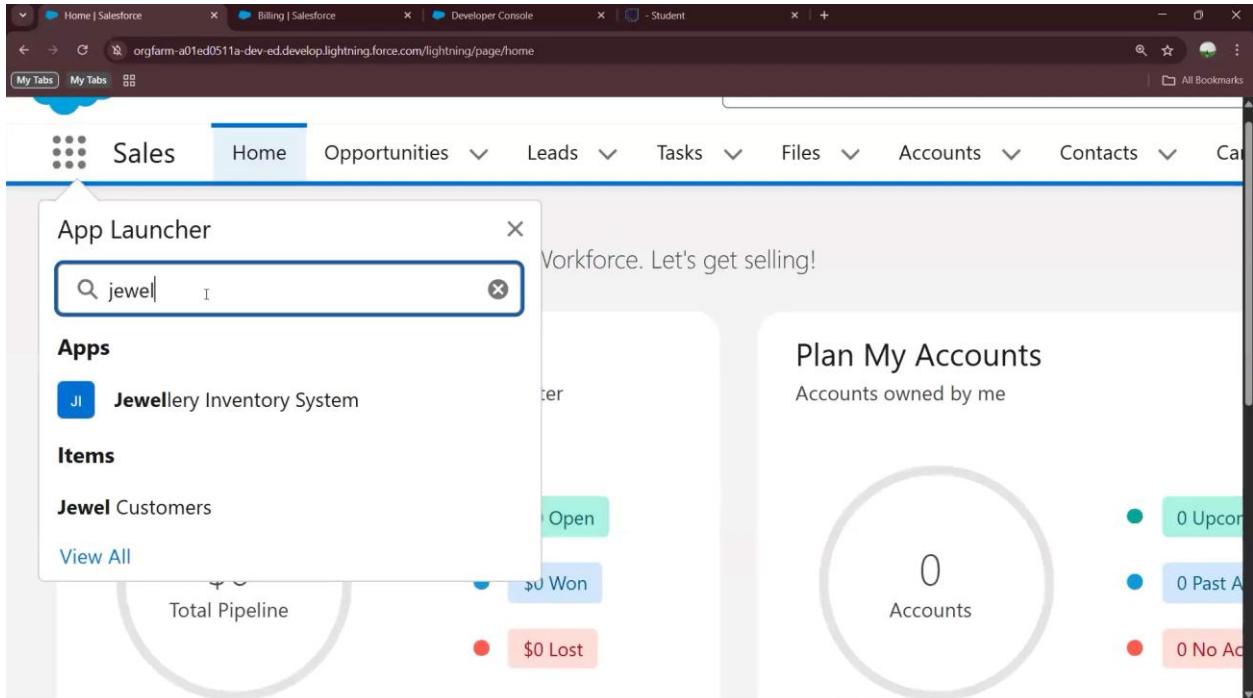
Code Coverage: None | API Version: 64

```
1 trigger UpdatePaidAmountTrigger on Billing__c (before insert, before) {
2     if (Trigger.isInsert) {
3
4         UpdatePaidAmountTriggerHandler.handleBeforeInsert(Trigger.new);
5
6     } else if (Trigger.isUpdate) {
7
8         UpdatePaidAmountTriggerHandler.handleBeforeUpdate(Trigger.oldMap, Trigger.new);
9
10    }
11 }
```

Logs | Tests | Checkpoints | Query Editor | View State | Progress | Problems

Name	Line	Problem
------	------	---------

## ❖ Go to Home and Search For Jewellery Inventory System



## ❖ Create New Customer and Give Price

SAKTHIVEL

orgfarm-a01ed0511a-dev-ed.develop.lightning.force.com/lightning/o/Jewel\_Customer\_c/new?count=1&nooverride=1&useRecordTypeCheck=1&navigationLocation=LIST\_VIEW&uid=175610622...

My Tabs My Tabs

Jewellery Inventory ...

Jewel Customers  
Recently Viewed ▾

0 items • Updated a few seconds ago

**New Jewel Customer**

\* = Required Information

Information

\* Customer name  
Sample 1

City  
Hyderabad

Phone  
09701489372

Email  
sushanthjaligam05@gmail.com

Zip/Postal code  
508105

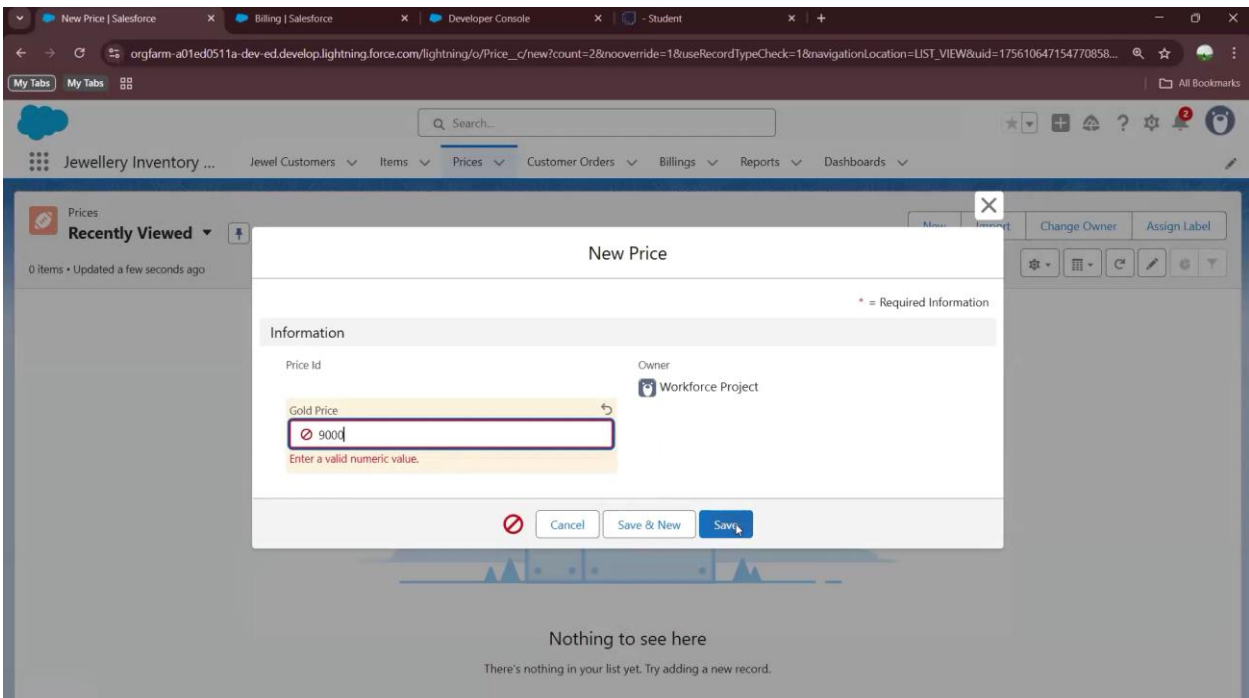
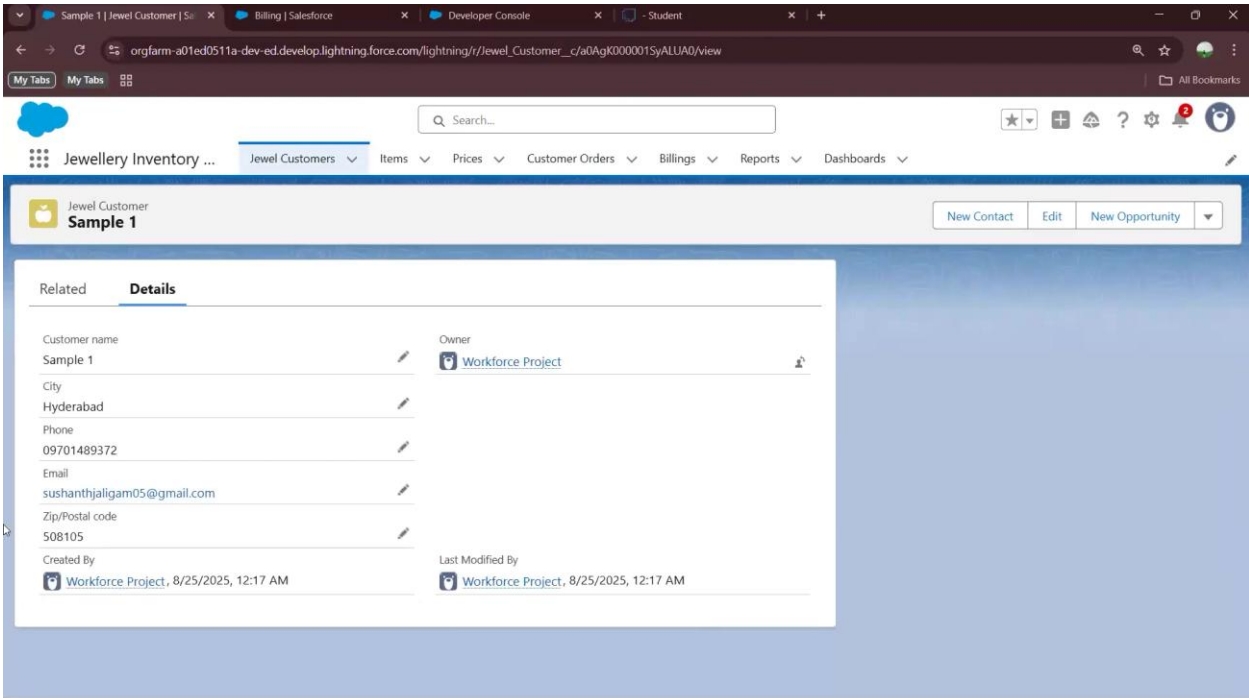
Owner  
Workforce Project

sushanthjaligam05@gmail.com  
Undo autofill  
Manage addresses...

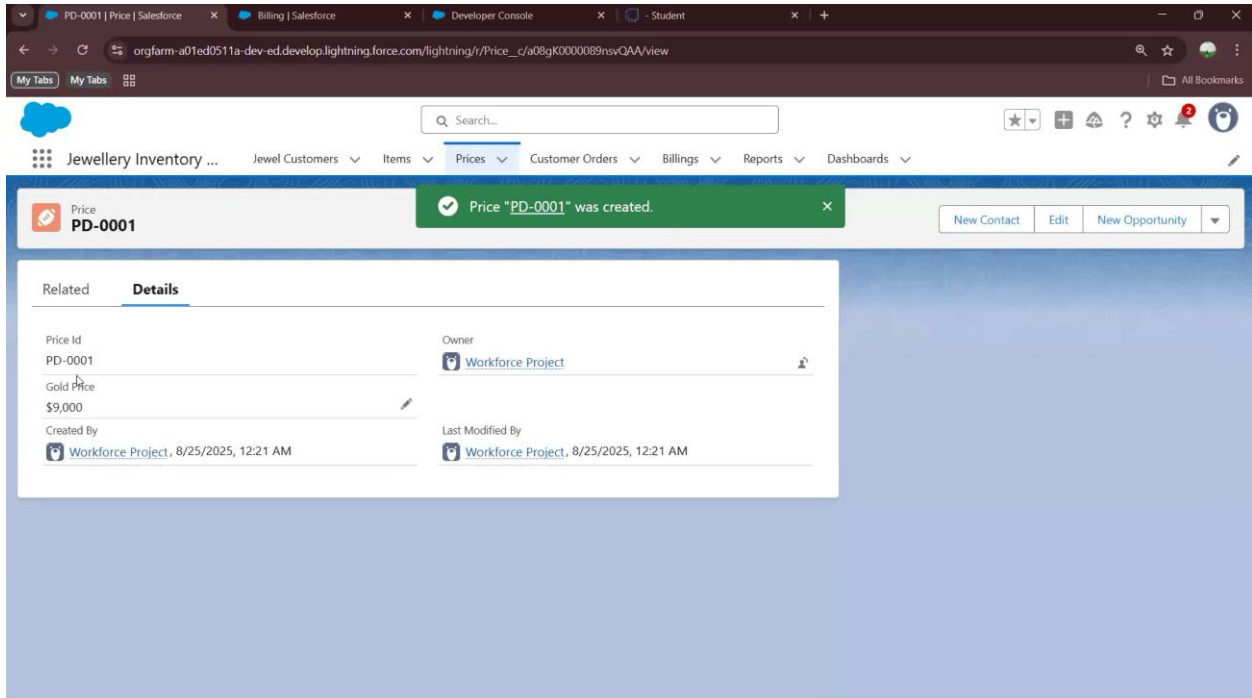
Cancel Save & New Save

Nothing to see here  
There's nothing in your list yet. Try adding a new record.

SAKTHIVEL



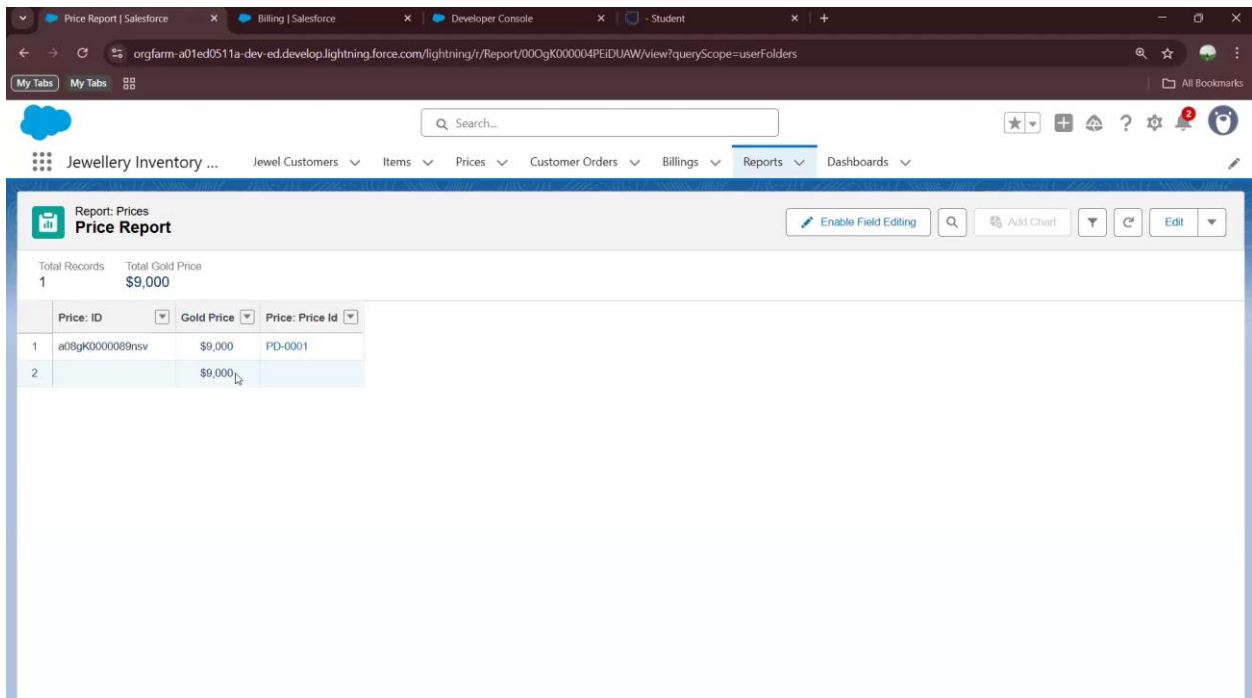
## ❖ Check For Price Report



This screenshot shows the Salesforce interface for viewing a specific price record. The browser tabs include 'PD-0001 | Price | Salesforce', 'Billing | Salesforce', 'Developer Console', and 'Student'. The URL is 'orgfarm-a01ed0511a-dev-ed.develop.lightning.force.com/lightning/r/Price\_c/a08gK0000089nsvQAA/view'. The page title is 'Price PD-0001'. A green notification banner at the top states 'Price "PD-0001" was created.' with a close button. Below the notification, there are buttons for 'New Contact', 'Edit', and 'New Opportunity'. The main content area is divided into 'Related' and 'Details' tabs. The 'Details' tab is active, showing the following information:

Field	Value
Price Id	PD-0001
Gold Price	\$9,000
Created By	Workforce Project, 8/25/2025, 12:21 AM
Owner	Workforce Project
Last Modified By	Workforce Project, 8/25/2025, 12:21 AM

SAKTHI

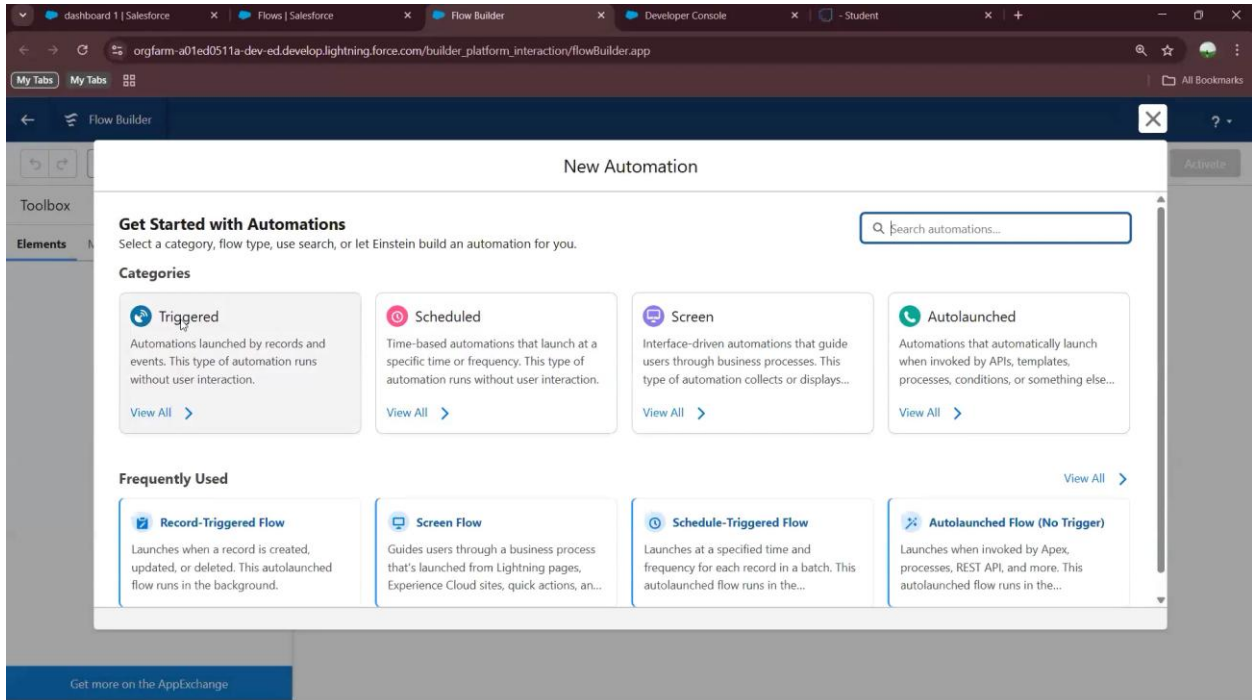


This screenshot shows the Salesforce interface for a Price Report. The browser tabs include 'Price Report | Salesforce', 'Billing | Salesforce', 'Developer Console', and 'Student'. The URL is 'orgfarm-a01ed0511a-dev-ed.develop.lightning.force.com/lightning/r/Report/00OgK000004PEIDUAW/view?queryScope=userFolders'. The page title is 'Report: Prices Price Report'. There are buttons for 'Enable Field Editing', 'Add Chart', and 'Edit'. The report summary shows 'Total Records: 1' and 'Total Gold Price: \$9,000'. Below the summary is a table with the following data:

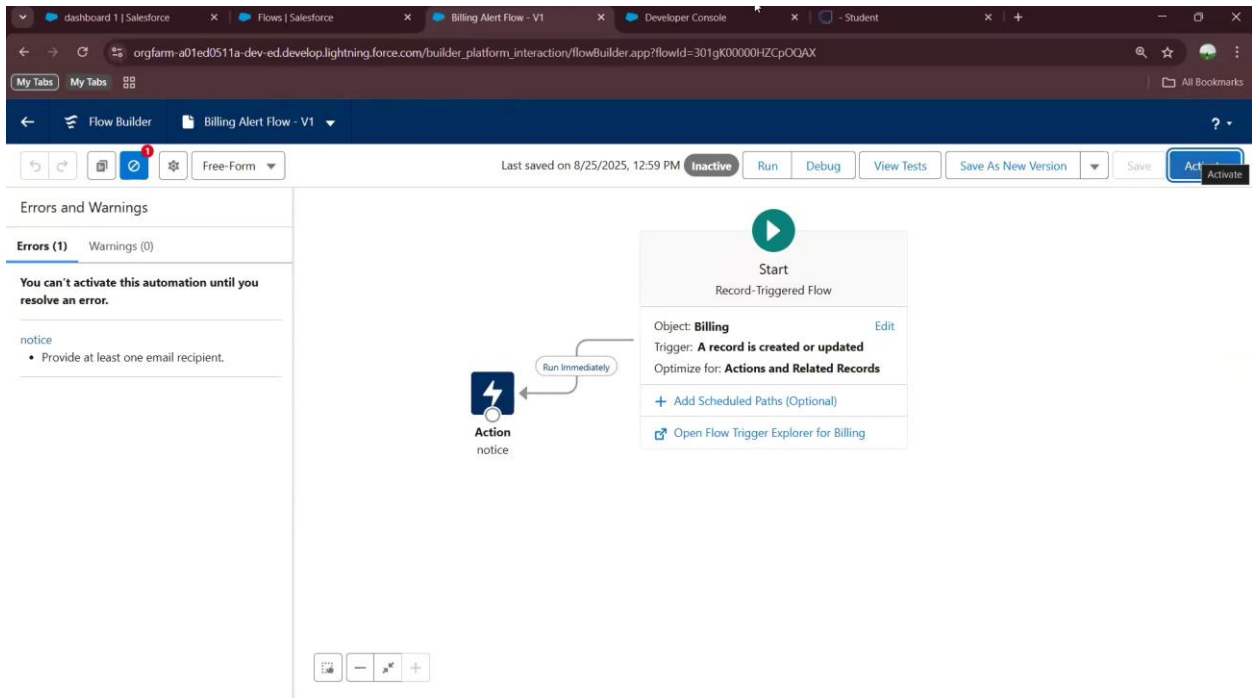
	Price: ID	Gold Price	Price: Price Id
1	a08gK0000089nsv	\$9,000	PD-0001
2		\$9,000	

SAKTHIVEL

## ❖ Create New Automation and Start



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# **ADVANTAGES :**

## **1. DOMAIN-SPECIFIC SOLUTION :**

- ❖ **Focused on jewelry business needs like inventory tracking (gold, diamonds, stones), customized billing, and customer preferences.**
- ❖ **Easier to target a niche market compared to generic CRMs.**

## **2. SCALABILITY & FLEXIBILITY :**

- ❖ **Developers can design the system to handle both small jewelry shops and larger chains.**
- ❖ **Can integrate features like loyalty programs, gemstone certifications, and repair tracking.**

## **3. INTEGRATION OPPORTUNITIES :**

- ❖ **Can connect with POS systems, e-commerce websites, and accounting tools.**
- ❖ **Increases product value and gives developers scope to expand modules.**

## **4. DATA-DRIVEN INSIGHTS :**

- ❖ **Offers jewelers customer insights (purchase history, trends).**
- ❖ **Developers can implement analytics dashboards, improving usability and business decision-making.**

## **5. USER-FRIENDLY UI FOCUS :**

- ❖ **Jewelry staff may not be very tech-savvy, so creating an intuitive interface is a strong developer achievement.**
- ❖ **Opportunity to showcase skill in UI/UX design.**

## **6. SECURITY-ORIENTED DEVELOPMENT :**

- ❖ Sensitive customer and pricing data require strong encryption.
- ❖ Developers gain experience in secure coding practices (GDPR, data privacy compliance).

# **DISADVANTAGES :**

## **1. COMPLEX CUSTOMIZATION :**

- ❖ Jewelry items vary in weight, purity, stone count, certification, etc.
- ❖ Building flexible yet simple modules can be technically challenging.

## **2. HIGH DEVELOPMENT COST & TIME :**

- ❖ Requires multiple features (CRM + inventory + invoicing + reporting).
- ❖ Can be overwhelming for a student project or small developer team.

## **3. SECURITY RISKS :**

- ❖ Handling customer identity data, purchase values, and payment details.
- ❖ Vulnerable to cyber-attacks if not built with strong security layers.

## **4. MAINTENANCE CHALLENGES :**

- ❖ Jewelry businesses may request frequent changes (new schemes, pricing structures, GST/tax updates).
- ❖ Developers need to ensure easy maintainability and version upgrades.

## **5. INTEGRATION DIFFICULTIES :**

- ❖ Not all jewelers use modern systems; integrating with old accounting software or manual processes may be hard.

## 6. MARKET COMPETITION :

- ❖ Existing CRM tools (Zoho, Salesforce, etc.) already dominate.
- ❖ Niche customization may limit scalability outside the jewelry domain.

## CONCLUSION :

- ❖ The development of the CRM Application for Jewel Management has successfully integrated customer relationship management, sales tracking, and inventory control into a single streamlined system. By centralizing customer data, purchase history, and stock information, this application not only enhances business efficiency but also improves customer satisfaction through personalized services and timely responses.
- ❖ From a developer's perspective, the project demonstrated the importance of database design, system integration, and user-friendly interface development in building a reliable solution. This application can be further expanded with advanced features such as data analytics, AI-driven recommendations, and mobile compatibility, ensuring long-term adaptability in the jewelry business.
- ❖ In conclusion, the project proves that a well-designed CRM system can bridge the gap between technology and traditional jewelry business operations, resulting in better decision-making, improved sales performance, and stronger customer relationships.

## APPENDIX :

```
public with sharing class JewelCRMManager {  
  
    // Add Customer  
    public static Id addCustomer(String name, String phone, String email) {  
        Customer__c cust = new Customer__c(  
            Name = name,  
            Phone__c = phone,  
            Email__c = email  
        );  
        insert cust;  
        return cust.Id;  
    }  
}
```

```

    // Get All Customers    public static List<Customer__c>
getCustomers() {        return [SELECT Id, Name, Phone__c, Email__c
FROM Customer__c];
    }

    // Add Jewel Item
    public static Id addJewel(String name, String type, Decimal price, Integer stock) {
        Jewel__c jewel = new Jewel__c(
            Name = name,
            Type__c = type,
            Price__c = price,
            Stock__c = stock
        );
        insert jewel;
    return jewel.Id;
    }

    // Get All Jewelry Inventory    public static
List<Jewel__c> getInventory() {
        return [SELECT Id, Name, Type__c, Price__c, Stock__c FROM Jewel__c];
    }

    // Record Sale
    public static Id addSale(Id customerId, Id jewelId, Integer qty, Date sDate) {
        Jewel__c jewel = [SELECT Id, Stock__c FROM Jewel__c WHERE Id = :jewelId LIMIT 1];
        if (jewel.Stock__c < qty) {            throw new AuraHandledException('Not enough stock
available!');
        }

        // Reduce stock
        jewel.Stock__c -= qty;        update
jewel;

        Sale__c sale = new Sale__c(
            Customer__c = customerId,
            Jewel__c = jewelId,
            Quantity__c = qty,
            Date__c = sDate
        );
        insert sale;
    return sale.Id;
    }

    // Get All Sales    public static
List<Sale__c> getSales() {        return [
        SELECT Id, Customer__r.Name, Jewel__r.Name, Quantity__c, Date__c
FROM Sale__c
    ];
    }

```

```
}
```

## APEX TEST CLASS :

```
@isTest public class
JewelCRMManagerTest {
    @isTest
    static void testCRMFlow() {
        // Add customer
        Id custId = JewelCRMManager.addCustomer('Sakthivel', '7845770375', 'alice@test.com');

        // Add jewel
        Id jewelId = JewelCRMManager.addJewel('Gold Ring', 'Ring', 15000, 10);

        // Record sale
        Id saleId = JewelCRMManager.addSale(custId, jewelId, 2, Date.today());

        // Query results
        List<Customer__c> customers = JewelCRMManager.getCustomers();
        List<Jewel__c> jewels = JewelCRMManager.getInventory();
        List<Sale__c> sales = JewelCRMManager.getSales();

        System.assertEquals(1, customers.size());
        System.assertEquals(1, jewels.size());
        System.assertEquals(1, sales.size());
    }
}
```