

# **CRM APPLICATION FOR JEWEL MANAGEMENT**

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**College Code:** asrubb

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# 1. INTRODUCTION

## 1.1 Project Overview

The **CRM (Customer Relationship Management) for Jewelry Management System (JMS)** is a Salesforce-based application designed to streamline the processes associated with a jewelry business. It handles inventory management, customer and vendor relationships, sales and order tracking, and repair services. The system includes automation features such as flows, approval processes, and email alerts to ensure efficient operations.



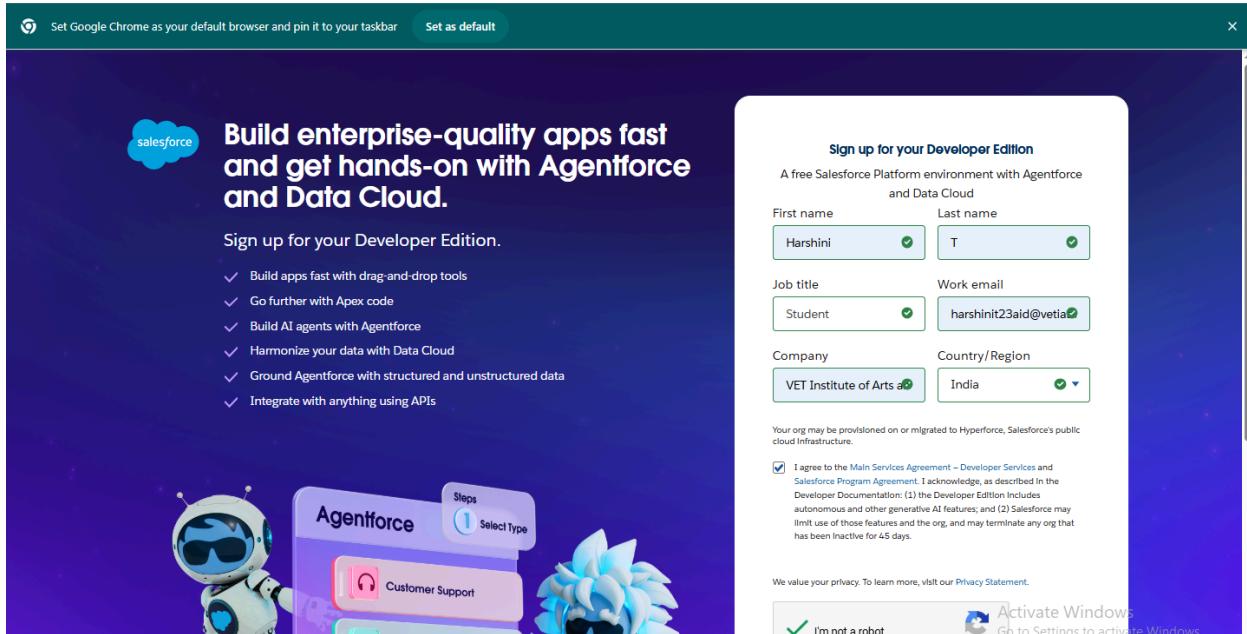
## 1.2 Purpose

The main objective of the **Jewelry Management System (JMS)** is to enable organizations to efficiently manage their jewelry inventory, customer interactions, sales processes, and after-sales services. It reduces manual intervention, improves accuracy in stock management and customer data, and ensures better compliance with business standards and seamless communication with clients and vendors.

# DEVELOPMENT PHASE

## Creating Developer Account:

By using this URL - <https://www.salesforce.com/form/developer-signup/?d=pb>



- Created objects: Jewel Customer, Item, Customer Order, Price, Billing

A screenshot of the Salesforce Setup interface, specifically the Object Manager. On the left, a sidebar lists various object configuration options like Fields &amp; Relationships, Page Layouts, Lightning Record Pages, etc. The main area shows the "Jewel Customer" object details. The "Details" tab is selected, displaying fields such as Description, API Name (Jewel\_Customer\_\_c), Custom (checked), Singular Label (Jewel Customer), Plural Label (Jewel Customers), Enable Reports (checked), Track Activities, Track Field History, Deployment Status (Deployed), and Help Settings (Standard salesforce.com Help Window). Buttons for Edit and Delete are at the top right of the details panel.

Set Google Chrome as your default browser and pin it to your taskbar [Set as default](#)

The image displays three separate screenshots of the Salesforce Setup interface, each showing the 'Details' page for a different object. The objects are 'Item', 'Customer Order', and 'Price'. Each page includes a sidebar with various configuration options and a main 'Details' section with fields like API Name, Singular Label, and Deployment Status.

**Item Details**

- Description
- API Name: Item\_c
- Custom: ✓
- Singular Label: Item
- Plural Label: Items
- Enable Reports: ✓
- Track Activities
- Track Field History
- Deployment Status: Deployed
- Help Settings: Standard salesforce.com Help Window

**Customer Order Details**

- Description
- API Name: Customer\_Order\_c
- Custom: ✓
- Singular Label: Customer Order
- Plural Label: Customer Order
- Enable Reports: ✓
- Track Activities
- Track Field History
- Deployment Status: Deployed
- Help Settings: Standard salesforce.com Help Window

**Price Details**

- Description
- API Name: Price\_c
- Custom: ✓
- Singular Label: Price
- Plural Label: Prices
- Enable Reports: ✓
- Track Activities
- Track Field History
- Deployment Status: Deployed
- Help Settings: Standard salesforce.com Help Window

Setup | Home | Object Manager

SETUP > OBJECT MANAGER  
Jewel Customer

Details  
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

Jewel Customer Custom Field  
**Phone**  
Back to Jewel Customer

Custom Field Definition Detail

Field Information

Field Label	Phone	Object Name	Jewel Customer
Field Name	Phone	Data Type	Phone
API Name	Phone__c		
Description			
Help Text			
Data Owner			
Field Usage			
Data Sensitivity Level			
Compliance Categorization			
Created By	Harshini T 8/28/2025, 10:16 PM	Modified By	Harshini T 8/28/2025, 10:16 PM

Validation Rules [0]

Edit Set Field-Level Security View Field Accessibility Where is this used?

General Options

Required	<input type="checkbox"/>
Default Value	

Help for this Page

- Configured fields and relationships

Setup | Home | Object Manager

SETUP > OBJECT MANAGER  
Jewel Customer

Details  
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

Jewel Customer Custom Field  
**Email**  
Back to Jewel Customer

Custom Field Definition Detail

Field Information

Field Label	Email	Object Name	Jewel Customer
Field Name	Email	Data Type	Email
API Name	Email__c		
Description			
Help Text			
Data Owner			
Field Usage			
Data Sensitivity Level			
Compliance Categorization			
Created By	Harshini T 8/28/2025, 10:17 PM	Modified By	Harshini T 8/28/2025, 10:17 PM

Validation Rules [0]

Edit Set Field-Level Security View Field Accessibility Where is this used?

General Options

Required	<input type="checkbox"/>
Unique	<input type="checkbox"/>

Help for this Page

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  
Search Layouts  
List View Button Layout

Item Custom Field  
**Purity**  
Back to Item

Custom Field Definition Detail

Field Information

Field Label	Purity	Object Name	Item
Field Name	Purity	Data Type	Number
API Name	Purity__c		
Description			
Help Text			
Data Owner			
Field Usage			
Data Sensitivity Level			
Compliance Categorization			
Created By	Harshini T 8/28/2025, 10:20 PM	Modified By	Harshini T 8/28/2025, 10:20 PM

Validation Rules [0]

Edit Set Field-Level Security View Field Accessibility Where is this used?

General Options

Required	<input type="checkbox"/>
Unique	<input type="checkbox"/>
External ID	<input type="checkbox"/>

Help for this Page

Home Object Manager ▾

MANAGER

Relationships

ord Pages

Actions

outs

Filters

ts

on Layout

Object Manager ▾

Price Custom Field  
**Gold Price**

[Back to Price](#)

Validation Rules [0]

**Custom Field Definition Detail**

[Edit](#) [Set Field-Level Security](#) [View Field Accessibility](#) [Where is this used?](#)

**Field Information**

Field Label	Gold Price	Object Name	Price
Field Name	Gold_Price__c	Data Type	Currency
API Name	Gold_Price__c		
Description			
Help Text			
Data Owner			
Field Usage			
Data Sensitivity Level			
Compliance Categorization			

Created By [Harshini T](#) 8/28/2025, 10:25 PM Modified By [Harshini T](#) 8/28/2025, 10:25 PM

**General Options**

Required	<input type="checkbox"/>
Default Value	<input type="text"/>

**Currency Options**

Item Custom Field  
**Item Type**

[Back to Item](#)

Validation Rules [0]

**Custom Field Definition Detail**

[Edit](#) [Set Field-Level Security](#) [View Field Accessibility](#) [Where is this used?](#)

**Field Information**

Field Label	Item Type	Object Name	Item
Field Name	Item_Type	Data Type	Picklist
API Name	Item_Type__c		
Description			
Help Text			
Data Owner			
Field Usage			
Data Sensitivity Level			
Compliance Categorization			

Created By [Harshini T](#) 8/28/2025, 10:23 PM Modified By [Harshini T](#) 8/28/2025, 10:23 PM

**General Options**

Required	<input type="checkbox"/>
Default Value	<input type="text"/>

**Picklist Options**

- Develop Lightning App with relevant tabs

Search Setup

Home Object Manager

### Item Custom Field Priority

Back to Item

[Validation Rules](#)

**Custom Field Definition Detail**

[Edit](#) [Set Field-Level Security](#) [View Field Accessibility](#) [Where is this used?](#)

**Field Information**

Field Label	Priority	Object Name	Item		
Field Name	Priority	Data Type	Picklist		
API Name	Priority__c				
Description	Item Custom Field: Priority ~ Salesforce - Developer Edition				
Data Owner					
Field Usage					
Data Sensitivity Level					
Compliance Categorization					
Created By	Harshini T	8/28/2025, 11:27 PM	Modified By	Harshini T	8/28/2025, 11:27 PM

**General Options**

Required	<input type="checkbox"/>
Default Value	<input type="button" value="i"/>

[Disable Options](#)

- Created a validation rule for a Jewel Customer and Item object to ensure a valid sales date.

Search Setup

Home Object Manager

### Customer

[Back to Jewel Customer](#)

**Jewel Customer Validation Rule**

[Edit](#) [Clone](#)

**Validation Rule Detail**

Rule Name	Postal_Code	Active	<input checked="" type="checkbox"/>		
Error Condition Formula	AND( OR( LEN(Zip_Postal_code__c) < 6, NOT(REGEX(Zip_Postal_code__c, "[0-9]{6}\$"))), NOT(ISBLANK(Zip_Postal_code__c)) )				
Error Message	Must contain 6 digits	Error Location	Zip/Postal code		
Description					
Created By	Harshini T	8/28/2025, 11:51 PM	Modified By	Harshini T	8/28/2025, 11:51 PM

[Edit](#) [Clone](#)

Setup Home Object Manager ▾

Search Setup

**Profiles**

Profile Gold Smith

Help for this

Users with this profile have the permissions and page layouts listed below. Administrators can change a user's profile by editing that user's personal information.

If your organization uses Record Types, use the Edit links in the Record Type Settings section below to make one or more record types available to users with this profile.

[Login IP Ranges \(0\)](#) | [Enabled Apex Class Access \(0\)](#) | [Enabled Visualforce Page Access \(0\)](#) | [Enabled External Data Source Access \(0\)](#) | [Enabled Named Credential Access \(0\)](#) | [Enabled External Credential Principal Access \(0\)](#) | [Enabled Custom Metadata Type Access \(0\)](#) | [Enabled Custom Setting Definitions Access \(0\)](#) | [Enabled Flow Access \(0\)](#) | [Enabled Service Presence Status Access \(0\)](#) | [Enabled Custom Permissions \(0\)](#)

**Profile Detail**

Edit Clone Delete View Users

Profile: Gold Smith – Salesforce - Developer Edition

User License	Salesforce	Custom Profile	✓
Description			
Created By	Harshini T, 9/4/2025, 10:57 PM	Modified By	Harshini T, 9/5/2025, 12:46 AM

**Page Layouts**

Standard Object Layouts	Global	Location Group Assignment	Location Group Assignment Layout
Email Application	Not Assigned [View Assignment]	Macro [View Assignment]	Macro Layout [View Assignment]
Home Page Layout	Home Page Default [View Assignment]	Object Milestone [View Assignment]	Object Milestone Layout [View Assignment]
Account	Account Layout [View Assignment]	Operating Hours [View Assignment]	Operating Hours Layout [View Assignment]

**Custom Object Permissions**

	Basic Access						Data Administration			Basic Access						Data Administration		
	Read	Create	Edit	Delete	View All Records	Modify All Records	View All Fields	Read	Create	Edit	Delete	View All Records	Modify All Records	Read	Create	Edit	Delete	
Billing	✓	✓	✓	✓	✓	✓	✓	Jewel Customers	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Customer Order	✓	✓	✓	✓	✓	✓	✓	Prices	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Item	✓	✓	✓	✓	✓	✓	✓	Types	✓	✓	✓	✓	✓	✓	✓	✓	✓	

**Session Settings**

Session Times Out After 2 hours of inactivity Session Security Level Required at Login

**Password Policies**

User passwords expire in 90 days

## ● Created Profiles: Gold Smith and Worker

- Created Roles : Gold Smith (reports to CEO) and Worker (reports to gold smith)

Creating the Role Hierarchy

You can build on the existing role hierarchy shown on this page. To insert a new role, click **Add Role**.

**Your Organization's Role Hierarchy**

**VET Institute of Arts and Science**

- CEO** Edit | Del | Assign
- CFO** Edit | Del | Assign
- COO** Edit | Del | Assign
- Gold Smith** Edit | Del | Assign
- Worker** Edit | Del | Assign

**SVP Customer Service & Support**

- Customer Support International** Edit | Del | Assign
- Customer Support North America** Edit | Del | Assign

**Show in**

- Created Users:Niklaus Mikaelson,Kol Mikaelson

Search Setup

Setup Home Object Manager

user

**Niklaus Mikaelson**

User Profile Help

**User Detail**

Name	Niklaus Mikaelson	Role	Gold Smith
Alias	nmika	User License	Salesforce
Email	harshinit.dev@gmail.com [Verify]	Profile	Gold Smith
Username	harshinitdev@sales.com	Active	<input checked="" type="checkbox"/>
Nickname	nikleson	Marketing User	<input type="checkbox"/>
Title		Offline User	<input type="checkbox"/>
Company		Knowledge User	<input type="checkbox"/>
Department		Flow User	<input type="checkbox"/>
Division		Service Cloud User	<input type="checkbox"/>
Address		Site.com Contributor User	<input type="checkbox"/>
Time Zone	(GMT-07:00) Pacific Daylight Time (America/Los_Angeles)	Site.com Publisher User	<input type="checkbox"/>
Locale	English (United States)	WDC User	<input type="checkbox"/>
Language	English	Mobile Push Registrations	<a href="#">View</a>
Delegated Approver		Data.com User Type	<a href="#">Data.com User Type</a>
Manager		Accessibility Mode (Classic Only)	<input type="checkbox"/>

The screenshot shows the Salesforce Setup interface with the 'Users' tab selected under 'User Management Settings'. On the left, a sidebar lists various user-related settings like Permission Set Groups, Profiles, and Roles. The main area displays the 'User Detail' page for 'Kol Mikaelson'. The page includes fields for Name, Alias, Email, Username, Nickname, Title, Company, Department, Division, Address, Time Zone, Locale, Language, and Delegated Approver. To the right of the detail section is a grid of checkboxes for various user roles and profiles. At the top right of the detail section is a 'User Profile' icon.

- Page Layouts are used to customise the design and organise detail and edit pages of records in Salesforce

### Created Layouts for Gold and Silver

The screenshot shows the Salesforce Object Manager with 'Item' selected. Under the 'Page Layouts' tab in the sidebar, a new layout is being created. The layout editor shows a 'Fields' section with a table of fields: Section (Section), Customer Name, Item Type, Ornament, Priority, Silver Price, and Weight. Below this is an 'Information' section with fields: Item Id (GEN-2004-001234), Customer Name (Sample Text), Price (Sample Text), Item Type (Sample Text), Ornament (Sample Text), and Purity (Priority). The 'Information' section also contains a 'Blank Space' field. At the bottom of the layout editor, there are sections for 'Buttons', 'Links', and 'Actions'.

**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
- Search Layouts
- List View Button Layout

Save ▾ Quick Save Preview As... Cancel
Undo Redo
Layout Properties

**Fields**

Section	Customer Name	Item Type	Ornament	Priority	Silver Price	Weight
Blank Space	Expected Days Of ...	KDM	Owner	Purity	Stone/Other Price	
Amount	Gold Price	Last Modified By	Percentage	Purity Gold Price	Stone Weight	
Created By	Item Id	Making Charges	Price	Record Type	Total Weight	

Information (Header visible on edit only)

Item Id	GEN-2004-001234	Priority	Sample Text
Customer Name	Sample Text	Expected Days Of Return	Sample Text
Price	Sample Text		
Item Type	Sample Text		
Ornament	Sample Text		
Silver Price	27.180		
Weight	0.17947		
Purity	64		
Stone Weight	0.63632		
Stone/Other Price	\$123.45		
Total Weight	82.606		
Percentage	85		
Amount	\$123.45		

**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
- Search Layouts
- List View Button Layout

Record Type: **Gold**

[« Back to Custom Object: Item](#)

Use the Edit button to change the properties of this record type. Use the Edit links in the Picklist Values related list to choose the picklist values available for records with this record type.

Record Type: Gold ~ Salesforce - Developer Edition

Edit
Active

Record Type Name	Gold
Namespace Prefix	
Description	Gold Items Information
Created By	Harshini T 9/5/2025, 12:05 AM
Modified By	Harshini T 9/5/2025, 12:05 AM

**Picklists Available for Editing**

Action	Field	Modified Date
Edit	Expected Days Of Return	9/5/2025, 12:05 AM
Edit	Item Type	9/5/2025, 12:05 AM
Edit	Priority	9/5/2025, 12:05 AM

Search Setup

Home Object Manager ▾

## Permission Sets

**Permission Set**  
**Per to Worker**

Video Tutorial | Help

Find Settings... | Clone | Edit Properties | Manage Assignments | View Summary

**Permission Set Overview**

Description	API Name	Per_to_Worker
License	Namespace Prefix	
Session Activation Required	Created By	Harshini T. 9/5/2025, 12:11 AM
Permission Set Groups Added To	Last Modified By	Harshini T. 9/5/2025, 12:12 AM

**Apps**

- Assigned Apps**  
Settings that specify which apps are visible in the app menu
- Assigned Connected Apps**  
Settings that specify which connected apps are visible in the app menu
- Object Settings**  
Permissions to access objects and fields, and settings such as tab availability
- App Permissions**  
Permissions to perform app-specific actions, such as "Manage Call Centers"
- Apex Class Access**  
Permissions to execute Apex classes

```

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 public static void handleBeforeUpdate(Map<Id, Billing__c> oldBillingsMap, List<Billing__c> updatedBillings) {
14
15     for (Billing__c billing : updatedBillings) {
16
17         Billing__c oldBilling = oldBillingsMap.get(billing.Id);
18
19         Decimal oldPaidAmount = oldBilling.Paid_Amount__c;
20
21         billing.Paid_Amount__c = oldPaidAmount + billing.Paying_Amount__c;
22
23     }
24
25 }
26
27 }
```

Logs Tests Checkpoints Query Editor View State Progress Problems

Name Line Problem

```

Developer Console - Google Chrome
http://orgfarm-abbd2ce28f-dev-ed.develop.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage
Edit > Debug > Test > Workspace > Help > < >
PaidAmountTriggerHandler.apc: UpdatePaidAmountTrigger.apc
Coverage: None | API Version: 64
trigger UpdatePaidAmountTrigger on Billing__c (before insert, before update) {
    if (Trigger.isInsert) {
        UpdatePaidAmountTriggerHandler.handleBeforeInsert(Trigger.new);
    } else if (Trigger.isUpdate) {
        UpdatePaidAmountTriggerHandler.handleBeforeUpdate(Trigger.oldMap, Trigger.new);
    }
}

```

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

- 
- Built and tested email templates for new order confirmations, sales receipts, repair status updates, and customer follow-up.

**SETUP**

## Tabs

Custom Object Tab  
Jewel Customers

Below is the information for the custom tab. Click Edit to change the custom tab.

Custom Tab Definition Detail		<a href="#">Edit</a>	<a href="#">Delete</a>
Tab Label	Jewel Customers	Tab Style	Jewel
Object	<a href="#">Jewel Customer</a>	Splash Page Custom Link	
Description			
Created By	<a href="#">Harshini T</a> 8/27/2025, 5:04 AM	Modified By	<a href="#">Harshini T</a> 8/27/2025, 5:04 AM

Google Chrome isn't your default browser Set as default

Jewellery Inventory ... Reports Report Builder Prices Report

**Report: Prices Prices Report**

Total Records Total Gold Price Total Silver Price  
10 \$55,557 \$23,946.10000

	Price: Price Id	Gold Price	Silver Price	Price: Owner Name
1	Priceld-010	\$989	\$59.00000	Harshini T
2	Priceld-009	\$983	\$211.00000	Harshini T
3	Priceld-005	\$901	\$89.00000	Harshini T
4	Priceld-001	\$50,000	\$23,000.00000	Harshini T
5	Priceld-002	\$340	\$120.00000	Harshini T
6	Priceld-003	\$235	\$90.00000	Harshini T
7	Priceld-004	\$231	\$67.10000	Harshini T
8	Priceld-006	\$431	\$89.00000	Harshini T
9	Priceld-007	\$991	\$121.00000	Harshini T
10	Priceld-008	\$456	\$100.00000	Harshini T
11		\$55,557	\$23,946.10000	

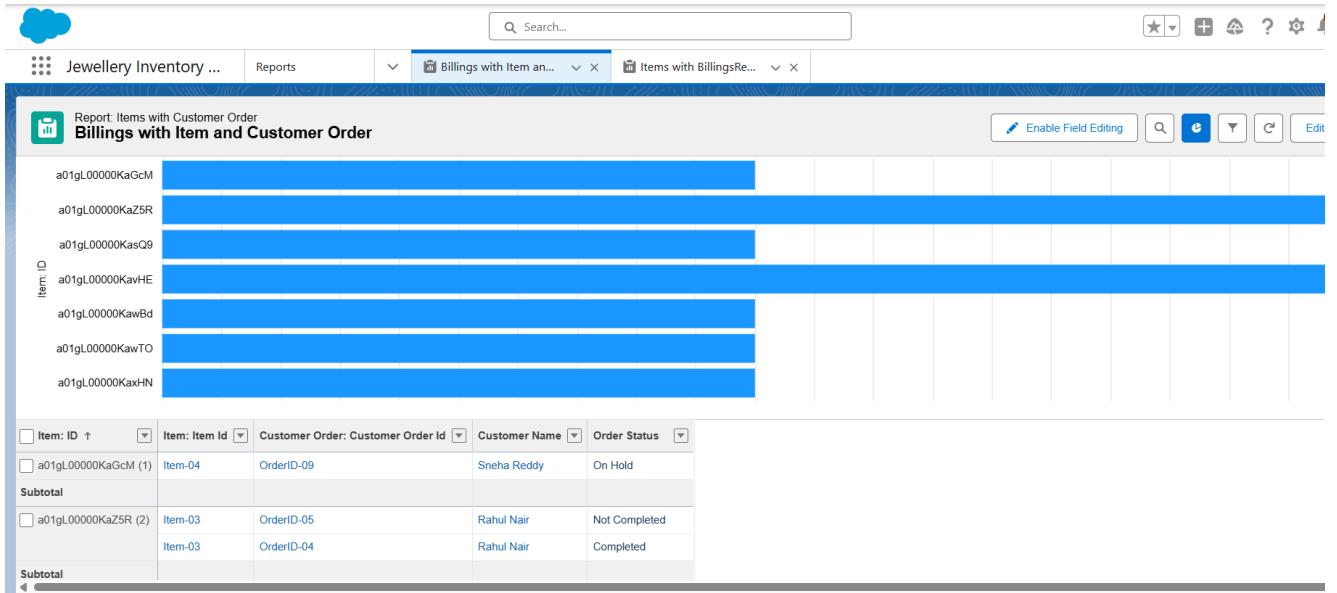
https://orgfarm-abbd2ce28f-dev-ed.lightning.force.com/lightning/r/Report/00Og0L00004og09UAA/view?queryScope=userFolders

Jewellery Inventory ... Reports Report Builder Items with BillingsRe...

**Report: Billings with Item Items with BillingsReport**

Total Records Total Amount  
10 \$177,599.29

	Billing: Billing Id	Item: Item Id	Amount	Ornament
1	BillingId-006	Item-06	\$4.90	Chain
2	BillingId-007	Item-07	\$155,000.00	Hip Belt
3	BillingId-001	Item-01	\$13,750.00	Earring
4	BillingId-009	Item-09	-\$4.23	Bangle
5	BillingId-004	Item-04	\$193.88	Bracelet
6	BillingId-002	Item-02	\$1,303.78	Anklet
7	BillingId-008	Item-08	\$1.57	Anklet
8	BillingId-003	Item-03	\$4,769.19	Chain
9	BillingId-010	Item-10	\$319.20	Mangtikka
10	BillingId-005	Item-05	\$2,261.00	Mangalsutra
11			\$177,599.29	



Jewellery Inventory ... Dashboards Dashboard 2 activity As of Sep 11, 2025, 8:42 AM Viewing as Harshini T Refresh Edit Subscribe

### Dashboard 2 activity

As of Sep 11, 2025, 8:42 AM

**Billings with Item and Customer Order**

Record Count

Item: ID	Record Count
a01gl00000...	1
a01gl00000...	2
a01gl00000...	1
a01gl00000...	2
a01gl00000...	1
a01gl00000...	1
a01gl00000...	1

[View Report \(Billings with Item and Custo...\)](#) As of Sep 11, 2025, 8:42 AM

**Billings with Item and Customer Order**

Item: Item I...	Customer Order: Customer Ord...	Customer N...	Order Status
Item-02	OrderID-07	Ram	Started
Item-03	OrderID-05	Rahul Nair	Not Complete
Item-03	OrderID-04	Rahul Nair	Completed
Item-04	OrderID-09	Sneha Reddy	On Hold
Item-05	OrderID-08	Neha Verma	Completed
Item-06	OrderID-10	-	On Hold
Item-07	OrderID-06	Sneha Reddy	Not Complete

[View Report \(Billings with Item and Custo...\)](#) As of Sep 11, 2025, 8:42 AM

**Billings with Item and Customer Order**

9

<https://orgfarm-abbd2ce28f-dev-ed.lightning.force.com/lightning/r/Dashboard/01ZgL000003d2HxUAl/view?queryScope=userFolders>

- Approval Process creation

For Tenant Leaving:

Flow Builder Flow 1 - V1

Last saved on 9/5/2025, 03:05 PM Active Run Debug View Tests Save As New Version Save

**Toolbox**

**Elements Manager**

- Interaction (3)
  - Action
  - Subflow
  - Custom Error
- Logic (6)
  - Assignment
  - Decision
  - Loop
  - Transform
  - Collection Sort
  - Collection Filter
- Data (4)
  - Create Records
  - Update Records
  - Get Records

Get more on the AppExchange

**Start**  
Record-Triggered Flow

Object: Billing Edit  
Trigger: A record is created or updated  
Optimize for: Actions and Related Records  
+ Add Scheduled Paths (Optional)  
Open Flow Trigger Explorer for Billing

**Action**  
Notice

Run Immediately

For Check for Vacant:



- Apex Trigger

Create an Apex Trigger





Create an Apex Handler class





- FLOWS





- Schedule class:  
Create an Apex Class





Schedule Apex class







## FUNCTIONAL AND PERFORMANCE TESTING

### Performance Testing

- Trigger validation by entering duplicate tenant-property records



- Validation Rule checking



- Test flows on payment update



- Approval process validated through email alerts and status updates





## **RESULTS**

### **Output Screenshots**

- Tabs for Property, Tenant, Lease, Payment



- Email alerts



- Request for approve the leave



- Leave approved



- Leave rejected



- Flow runs



- Trigger error messages



- Approval process notifications



# ADVANTAGES & DISADVANTAGES

## CONCLUSION

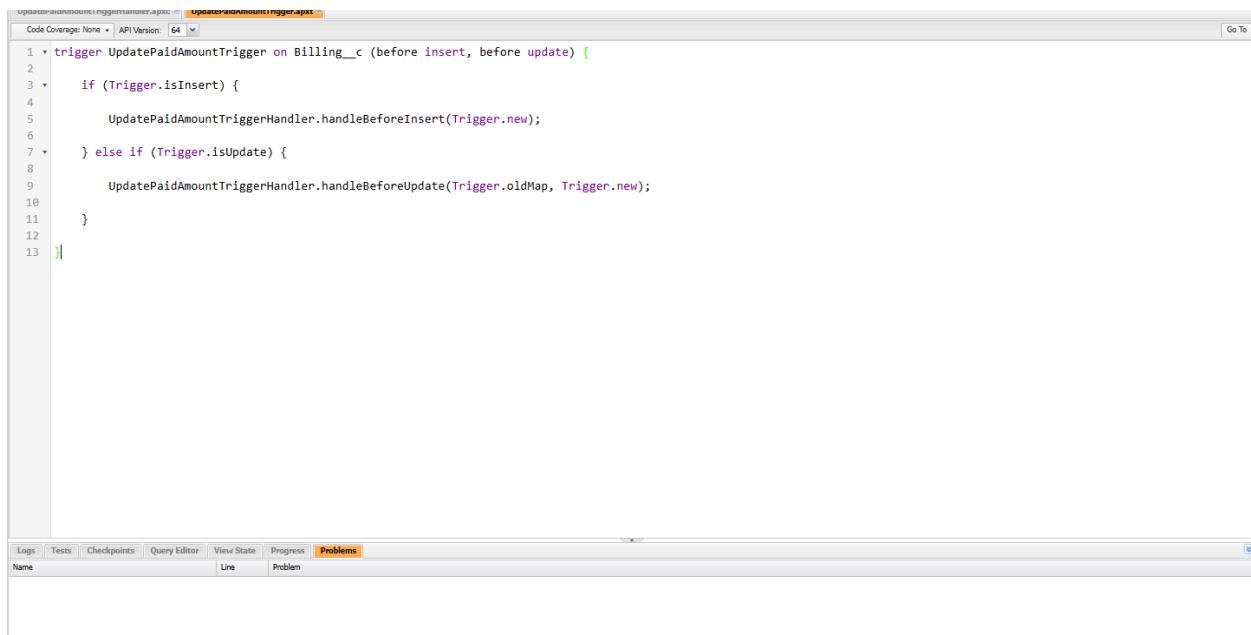
The **Jewelry Management System (JMS)** successfully streamlines the operations of a jewelry business through a structured, automated Salesforce application. It improves efficiency, communication, and data accuracy for both staff and customers.

## APPENDIX

- **Source Code:** Provided in Apex Classes and Triggers

### UpdatePaidAmountTrigger.apxt:

```
trigger UpdatePaidAmountTrigger on Billing__c (before insert, before update) {
    if (Trigger.isInsert) {
        UpdatePaidAmountTriggerHandler.handleBeforeInsert(Trigger.new);
    } else if (Trigger.isUpdate) {
        UpdatePaidAmountTriggerHandler.handleBeforeUpdate(Trigger.oldMap, Trigger.new);
    }
}
```



The screenshot shows the Salesforce IDE interface with the code for `UpdatePaidAmountTrigger.apxt`. The code is identical to the one provided above, handling insert and update events on the `Billing__c` object. The IDE includes tabs for Logs, Tests, Checkpoints, Query Editor, View State, Progress, and Problems, with the Problems tab currently selected.

### testHandler.apxc:

```
public class UpdatePaidAmountTriggerHandler {
    public static void handleBeforeInsert(List<Billing__c> newBillings) {
        for (Billing__c billing : newBillings) {
```

```

        billing.Paid_Amount__c = billing.Paying_Amount__c;
    }
}

public static void handleBeforeUpdate(Map<Id, Billing__c> oldBillingsMap, List<Billing__c>
updatedBillings) {
    for (Billing__c billing : updatedBillings) {
        Billing__c oldBilling = oldBillingsMap.get(billing.Id);
        Decimal oldPaidAmount = oldBilling.Paid_Amount__c;
        billing.Paid_Amount__c = oldPaidAmount + billing.Paying_Amount__c;
    }
}
}

```

```

1 * public class UpdatePaidAmountTriggerHandler {
2
3 *     public static void handleBeforeInsert(List<Billing__c> newBillings) {
4
5 *         for (Billing__c billing : newBillings) {
6
7 *             billing.Paid_Amount__c = billing.Paying_Amount__c;
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             Decimal oldPaidAmount = oldBilling.Paid_Amount__c;
21
22             billing.Paid_Amount__c = oldPaidAmount + billing.Paying_Amount__c;
23
24         }
25
26     }
27 }

```

Logs Tests Checkpoints Query Editor ViewState Progress Problems

Name	Type
	Line Problem