
JEWEL MANAGEMENT-(DEVELOPER)

College Name: Nandha Arts and Science

College Code: bru4j

Team ID: NM2025TMID22975

Team Members:

Team Leader Name: THAMIZHAN P

Email: thamizhanet1126@gmail.com

Team Member1: MOHANRAJ S

Email: massfree123456@gmail.com

Team Member2: YOGANATHAN P

Email: yoganathan.p123@gmail.com

Team Member3: VIGNESHWARI D

Email: dvigneshwariv@gmail.com

Introduction:

The Jewel Management CRM is a Salesforce-based solution developed to simplify and modernize the operations of jewel businesses. Traditional jewel management often faces challenges such as maintaining accurate inventory of precious metals and stones, handling customer data securely, and ensuring personalized service. This project aims to address these challenges by leveraging Salesforce's robust CRM capabilities to create a centralized platform for sales, inventory, customer engagement, and business analytics.

Purpose:

The purpose of developing the Jewelry Management CRM is to provide a comprehensive, technology-driven solution for managing the unique needs of the jewelry industry. The system is designed to streamline daily business operations such as customer relationship management, sales tracking, inventory control, billing, and after-sales support, all within a single Salesforce platform.

Developer Console - Google Chrome

orgfarm-f5de74f6de-dev-ed.develop.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help < >

UpdatePaidAmountTriggerHandler.apxc UpdatePaidAmountTrigger.apxt

Code Coverage: None API Version: 64 Go To

```
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
------	------	---------

30°C Mostly cloudy Search 09:46 AM 19/09/2025

Developer Console - Google Chrome

orgfarm-f5de74f6de-dev-ed.develop.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help < >

UpdatePaidAmountTriggerHandler.apxc UpdatePaidAmountTrigger.apxt

Code Coverage: None API Version: 64 Go To

```
1 trigger UpdatePaidAmountTrigger on Billing__c (before insert, before update) {
2
3     if (Trigger.isInsert) {
4
5         UpdatePaidAmountTriggerHandler.handleBeforeInsert(Trigger.new);
6
7     } else if (Trigger.isUpdate) {
8
9         UpdatePaidAmountTriggerHandler.handleBeforeUpdate(Trigger.oldMap, Trigger.new);
10
11     }
12
13 }
```

Logs Tests Checkpoints Query Editor View State Progress Problems

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

30°C Mostly cloudy Search 09:45 AM 19/09/2025

Billings with item and Customer order

WhatsApp

orgfarm-f5de74f6de-dev-ed.develop.lightning.force.com/lightning/r/Report/00Ogl000004hpkvUAA/view?queryScope=userFolders

Search...

Jewellery Inventory ...

Reports

Ram | J...

George...

Mark | ...

Obito |...

RockLe...

BILL-11...

Billings...

More

Report: Items with Customer Orders and Customer Billings with item and Customer order

Enable Field Editing

Add Chart

Edit

Total Records
11

	Item: Item Id	Customer Order: Customer Order Id	Customer: Customer name
1	Item-01	CO-03	Mark
2	Item-05	CO-07	Mark
3	Item-02	CO-01	RockLee
4	Item-02	CO-02	Obito
5	Item-05	CO-04	George
6	Item-03	CO-05	Obito
7	Item-05	CO-06	RockLee
8	Item-09	CO-09	Tommy
9	Item-07	CO-08	Mike
10	Item-09	CO-10	Tommy
11	Item-09	CO-11	Mike

https://orgfarm-f5de74f6de-dev-ed.develop.lightning.force.com/lightning/r/Report/00Ogl000004hpkvUAA/view?queryScope=userFolders

30°C Mostly cloudy

Search

ENG IN

09:44 AM 19/09/2025

Recent | Reports | Salesforce

WhatsApp

orgfarm-f5de74f6de-dev-ed.develop.lightning.force.com/lightning/o/Report/home?queryScope=mrU

Search...

Jewellery Inventory ...

Reports

Ram | J...

George...

Mark | ...

Obito |...

RockLe...

BILL-11...

BILL-06...

More

Reports

Recent

3 items

Search recent reports...

New Report

New Folder

REPORTS

	Report Name	Description	Folder	Created By	Created On	Subscribed
Recent	Item with Billings		Private Reports	Thamizhan P	9/1/2025, 11:07 AM	
Created by Me	Price Report		Private Reports	Thamizhan P	9/1/2025, 11:00 AM	
Private Reports	Billings with item and Customer order		Private Reports	Thamizhan P	9/1/2025, 11:11 AM	
Public Reports						
All Reports						
FOLDERS						
All Folders						
Created by Me						
Shared with Me						
FAVORITES						
All Favorites						

30°C Mostly cloudy

Search

ENG IN

09:44 AM 19/09/2025

BILL-06 | Billing | Salesforce x (4) WhatsApp x +

orgfarm-f5de74f6de-dev-ed.develop.lightning.force.com/lightning/r/Billing_c/a04gl000009VsjhQAC/view

Search...

Jewellery Inventory ... Billings

Owner: [Thamizhan P](#)

Billing Id	BILL-06
Item	Item-03
Ornament	
Ear Ring	
Stone weight	
5.00	
Weight	
15.00	
Amount	
\$57,890.63	
Gold/Silver Price	
\$975.00	
KDM Charge	
\$57,312	
Making Charges	
\$6,000.00	
Stones/other price	
\$500.00	
Total Amount	
\$121,702	
Paying Amount	
\$6,500	

30°C Mostly cloudy 09:44 AM 19/09/2025

Recently Viewed | Billings | Salesforce x (4) WhatsApp x +

orgfarm-f5de74f6de-dev-ed.develop.lightning.force.com/lightning/o/Billing_c/list?filterName=__Recent

Search...

Jewellery Inventory ... Billings

Billings Recently Viewed

11 Items • Updated a few seconds ago

New Import Change Owner Assign Label

Search this list...

	Billing Id	
1	BILL-06	
2	BILL-09	
3	BILL-03	
4	BILL-08	
5	BILL-10	
6	BILL-11	
7	BILL-07	
8	BILL-05	
9	BILL-04	
10	BILL-02	
11	BILL-01	

30°C Mostly cloudy 09:44 AM 19/09/2025

PR-06 | Price | Salesforce

(4) WhatsApp

orgfarm-f5de74f6de-dev-ed.develop.lightning.force.com/lightning/r/Price_c/a03gl0000082KbQAF/view

Search...

★

+

🔍

?

⚙️

🔔

👤

Jewellery Inventory ...

Prices

▼

👤 Ram | J... ▼ ×

👤 George... ▼ ×

👤 Mark | ... ▼ ×

👤 Obito |... ▼ ×

👤 RockLe... ▼ ×

📄 BILL-11... ▼ ×

📄 PR-06 |... ▼ ×

More ▼

Price

PR-06

New Contact

Edit

New Opportunity

▼

Related

Details

Price Id

PR-06

Gold Price

\$9,750

✎

Silver Price

\$275.00000

✎

Created By

👤 Thamizhan P, 9/1/2025, 10:29 AM

Owner

👤 Thamizhan P

🔔

Last Modified By

👤 Thamizhan P, 9/1/2025, 10:29 AM

30°C

Mostly cloudy

🔍 Search

🔧

📄

📁

📅

🔗

🔔

ENG IN

09:44 AM 19/09/2025

Recently Viewed | Prices | Sales

(4) WhatsApp

orgfarm-f5de74f6de-dev-ed.develop.lightning.force.com/lightning/o/Price_c/list?filterName=__Recent

Search...

★

+

🔍

?

⚙️

🔔

👤

Jewellery Inventory ...

Prices

▼

👤 Ram | J... ▼ ×

👤 George... ▼ ×

👤 Mark | ... ▼ ×

👤 Obito |... ▼ ×

👤 RockLe... ▼ ×

📄 BILL-11... ▼ ×

📄 CO-05 ... ▼ ×

More ▼

Prices

Recently Viewed ▼

🔔

New

Import

Change Owner

Assign Label

11 items • Updated a few seconds ago

🔍 Search this list...

⚙️

📄

🔄

✎

🔔

▼

☐

Price Id

▼

1

☐ PR-06

▼

2

☐ PR-09

▼

3

☐ PR-11

▼

4

☐ PR-10

▼

5

☐ PR-08

▼

6

☐ PR-07

▼

7

☐ PR-05

▼

8

☐ PR-04

▼

9

☐ PR-03

▼

10

☐ PR-02

▼

11

☐ PR-01

▼

30°C

Mostly cloudy

🔍 Search

🔧

📄

📁

📅

🔗

🔔

ENG IN

09:44 AM 19/09/2025

CO-05 | Customer Order | Sales x (4) WhatsApp x +

orgfarm-f5de/4f6de-dev-ed.develop.lightning.force.com/lightning/r/Customer_Order__c/a02gl000004WQmfQAG/view

Search...

Jewellery Inventory ... Customer Orders v Ram | J... v George... v Mark | ... v Obito |... v RockLe... v BILL-11... v CO-05 ... v More v

Customer Order
CO-05

New Contact Edit New Opportunity v

Related Details

Customer Order Id
CO-05

Customer
Obito

Item
Item-03

Order Status
Started

Created By
Thamizhan P, 9/1/2025, 10:38 AM

Last Modified By
Thamizhan P, 9/1/2025, 10:38 AM

https://orgfarm-f5de/4f6de-dev-ed.develop.lightning.force.com/lightning/r/a02gl000004WQmfQAG/view

30°C Mostly cloudy Search 09:44 AM 19/09/2025

Recently Viewed | Customer Order | Sales x (4) WhatsApp x +

orgfarm-f5de/4f6de-dev-ed.develop.lightning.force.com/lightning/r/Customer_Order__c/list?filterName=__Recent

Search...

Jewellery Inventory ... Customer Orders v Ram | J... v George... v Mark | ... v Obito |... v RockLe... v BILL-11... v Item-0... v More v

Customer Orders
Recently Viewed v

New Import Assign Label

11 items • Updated a few seconds ago

Search this list...

Customer Order Id

1	<input type="checkbox"/> CO-05	v
2	<input type="checkbox"/> CO-10	v
3	<input type="checkbox"/> CO-09	v
4	<input type="checkbox"/> CO-11	v
5	<input type="checkbox"/> CO-08	v
6	<input type="checkbox"/> CO-07	v
7	<input type="checkbox"/> CO-06	v
8	<input type="checkbox"/> CO-04	v
9	<input type="checkbox"/> CO-03	v
10	<input type="checkbox"/> CO-02	v
11	<input type="checkbox"/> CO-01	v

30°C Mostly cloudy Search 09:44 AM 19/09/2025

Item-03 | Item | Salesforce (4) WhatsApp

orgfarm-f5de74f6de-dev-ed.develop.lightning.force.com/lightning/r/Item__c/a01gl00000K3qjIQAR/view

Search...

Jewellery Inventory ... Items Ram | J... George... Mark | ... Obito | ... RockLe... BILL-11... Item-0... More

Stone Weight	5.00000
Percentage	99
Stone/Other Price	\$500.00
Expected Days Of Return	6-7 Days
Priority	Medium
Silver Price	0.275
Purity Gold Price	\$3,859.38
Total Weight	15.000
Amount	\$57,890.625
KDM	\$57,312
Making Charges	\$6,000
Created By	Thamizhan P, 9/1/2025, 10:33 AM
Last Modified By	Thamizhan P, 9/1/2025, 10:54 AM

30°C Mostly cloudy 09:43 AM 19/09/2025

Item-03 | Item | Salesforce (4) WhatsApp

orgfarm-f5de74f6de-dev-ed.develop.lightning.force.com/lightning/r/Item__c/a01gl00000K3qjIQAR/view

Search...

Jewellery Inventory ... Items Ram | J... George... Mark | ... Obito | ... RockLe... BILL-11... Item-0... More

Related Details

Item Id	Item-03	Owner	Thamizhan P
Purity	95		
Item Type	Gold		
Prices	PR-06		
Gold Price	\$975.00		
Customer Name			
Ornament	Ear Ring		
Weight	20.00000		
Stone Weight	5.00000		
Percentage	99		
Stone/Other Price	\$500.00		

https://orgfarm-f5de74f6de-dev-ed.develop.lightning.force.com/lightning/r/Item__c/a01gl00000K3qjIQAR/view

30°C Mostly cloudy 09:43 AM 19/09/2025

Recently Viewed | Items | Sales | (4) WhatsApp

orgfarm-f5de74f6de-dev-ed.develop.lightning.force.com/lightning/o/Item_c/list?filterName=__Recent

Jewellery Inventory ... Items

Item Id

1 Item-03

2 Item-09

3 Item-08

4 Item-10

5 Item-11

6 Item-07

7 Item-06

8 Item-02

9 Item-01

10 Item-05

11 Item-04

11 Items • Updated a few seconds ago

New Import Change Owner Assign Label

Search this list...

30°C Mostly cloudy

Search

ENG IN 09:43 AM 19/09/2025

Mike | Jewel Customer | Sales | (4) WhatsApp

orgfarm-f5de74f6de-dev-ed.develop.lightning.force.com/lightning/r/Jewel_Customer_c/a00gl00000HXJy9QAH/view

Jewellery Inventory ... Jewel Customers

Jewel Customer Mike

New Contact Edit New Opportunity

Related Details

Customer name Mike

City Ranchi

Phone (759) 842-1566

Email mike@ab.com

State Tamil Nadu

Street Mettukadai

Country India

Zip/Postal code 638486

Created By Thamizhan P, 9/1/2025, 10:46 AM

Owner Thamizhan P

Last Modified By Thamizhan P, 9/1/2025, 10:46 AM

https://orgfarm-f5de74f6de-dev-ed.develop.lightning.force.com/lightning/r/a00gl00000HXJy9QAH/view

30°C Mostly cloudy

Search

ENG IN 09:43 AM 19/09/2025

Recently Viewed | Jewel Custom... (4) WhatsApp

orgfarm-f5de74f6de-dev-ed.develop.lightning.force.com/lightning/o/Jewel_Customer_c/list?filterName=_Recent

Jewellery Inventory ... Jewel Customers

Jewel Customers Recently Viewed

10 items • Updated a few seconds ago

Search this list...

	Customer name	
1	<input type="checkbox"/> Mike	
2	<input type="checkbox"/> Tyson	
3	<input type="checkbox"/> Tommy	
4	<input type="checkbox"/> Rocky	
5	<input type="checkbox"/> Kakashi	
6	<input type="checkbox"/> RockLee	
7	<input type="checkbox"/> Obito	
8	<input type="checkbox"/> Mark	
9	<input type="checkbox"/> George	
10	<input type="checkbox"/> Ram	

30°C Mostly cloudy

Home | Salesforce (4) WhatsApp

orgfarm-f5de74f6de-dev-ed.develop.lightning.force.com/lightning/setup/SetupOneHome/home

Setup Home Object Manager

App Launcher

Apps

- My Service Journey
- Jewellery Inventory System

Items

- Data Lake Objects
- Jewel Customers
- Journey Home
- Journey Map
- Payment Authorization Adjustments
- View More

Sales Cloud Everywhere

ADMINISTRATION

- Users
- Data
- Email

PLATFORM TOOLS

- Subscription Management

Most Recently Used 10 Items

NAME	TYPE	OBJECT
UpdatePaidAmountTriggerHandler	Apex Class	
Marketing	Custom App	
Prices	Custom Field Definition	Item

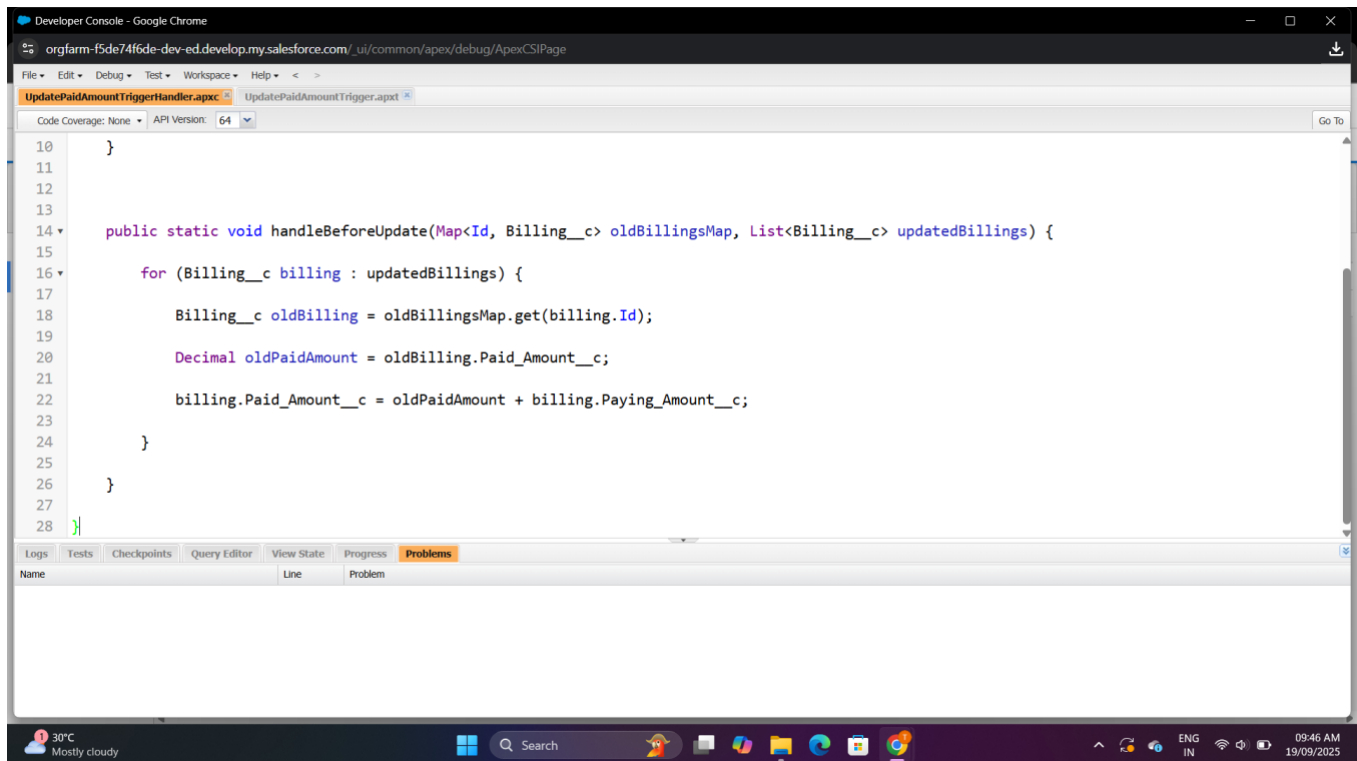
Get Started with Einstein Bots

Mobile Publisher

Watch Video Let's Go

Get Started Learn More

30°C Mostly cloudy



The screenshot displays the Salesforce Developer Console interface. The top bar shows the URL: orgfarm-f5de74f6de-dev-ed.develop.my.salesforce.com. The main editor area shows the Apex code for the `UpdatePaidAmountTriggerHandler` class. The code is as follows:

```
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
28 }
```

The bottom of the console shows tabs for Logs, Tests, Checkpoints, Query Editor, View State, Progress, and Problems. The Problems tab is currently selected, but it is empty. The Windows taskbar at the bottom shows the date and time as 09:46 AM on 19/09/2025.

Advantages

1. **Centralized Data Management** – Customer details, sales records, and inventory are maintained in one platform, reducing duplication and errors.
2. **Real-Time Inventory Tracking** – Provides accurate updates on precious metals, stones, and finished jewelry, ensuring stock transparency.
3. **Enhanced Customer Engagement** – Captures customer preferences, purchase history, and special occasions, enabling personalized marketing and loyalty programs.

Disadvantages

1. **High Implementation Cost** – Initial setup, customization, and Salesforce licensing can be expensive, especially for small jewellers.
2. **Training Requirements** – Staff may need dedicated training to effectively use the system, which could take time and resources.
3. **Customization Complexity** – Adapting Salesforce to meet highly specific jewelry business needs may require technical expertise and ongoing support.

Conclusion:

The Jewel Management CRM built on Salesforce provides a modern, efficient, and scalable solution to address the unique challenges of the jewelry industry. By integrating sales, customer relationship management, inventory control, and analytics into a single platform, it simplifies operations and enables jewelers to focus on delivering personalized experiences to their customers.

Apex Coding:

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);

    }

}
```

UpdatePaidAmountTriggerHandler.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;

    }

}
```