APEX TRIGGERS AND CLASSES

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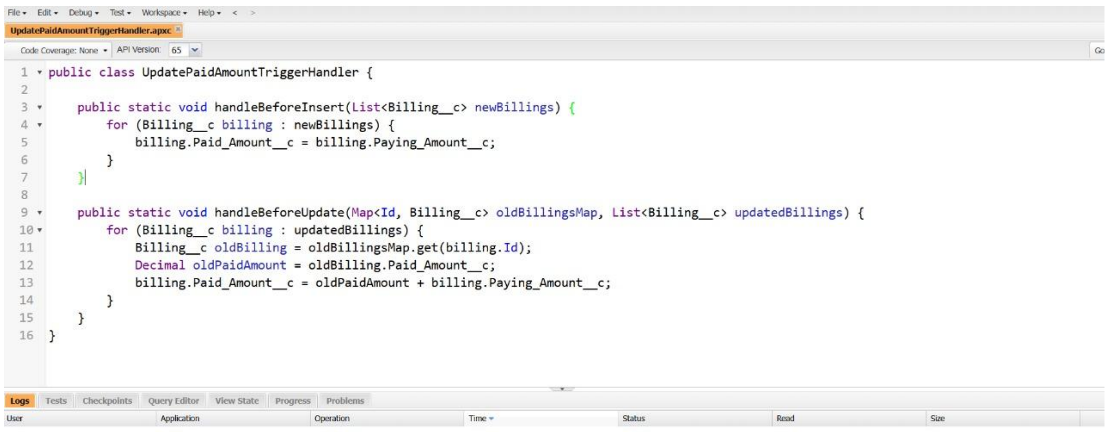
Team Id	NM2025TMID04354
Project Name	CRM Application for Jewel Management

Where declarative automation cannot handle complex conditions, Apex Triggers and Apex Classes were developed.

Examples:

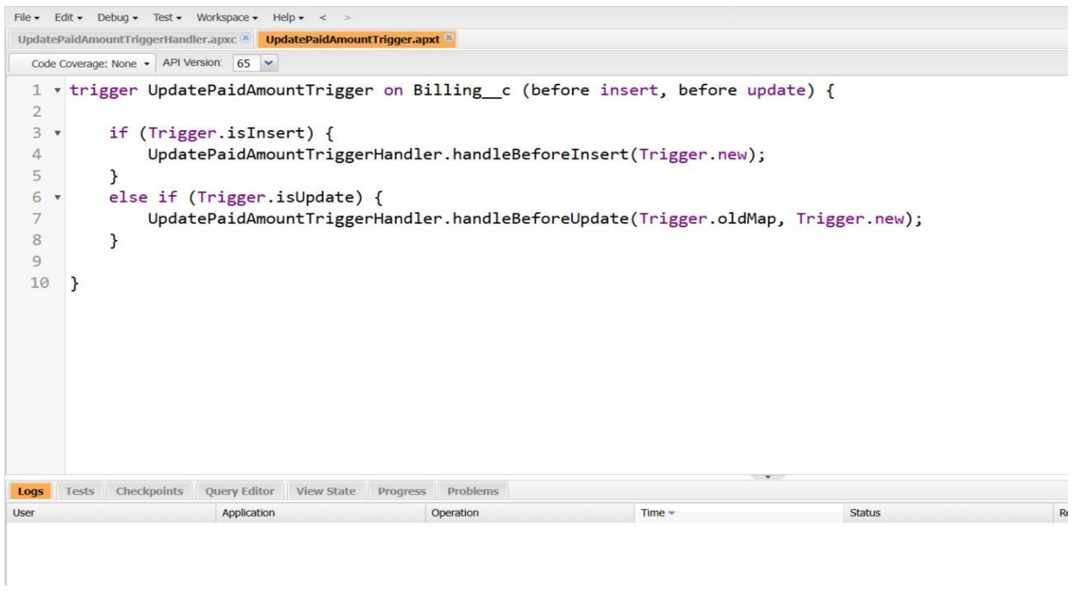
- **Trigger on Order:** Automatically calculate and update total order value based on selected jewelry items.
- **Trigger on Payment:** Update the Payment Status field in the related Order record when full payment is received.
- **Trigger on Jewelry Item:** Automatically change item status to "Out of Stock" when stock quantity reaches zero.



```
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;
        }
    }
}
```


File Edit Debug Test Workspace Help
UpdatePaidAmountTriggerHandler.apxc
UpdatePaidAmountTrigger.apxt
Code Coverage: None
API Version: 65
Logs Tests Checkpoints Query Editor View State Progress Problems
User Application Operation Time Status

```
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);
    }

}
```

Apex Classes were used to implement backend logic for:

- Generating invoices.
- Sending scheduled payment reminders.
- Running daily maintenance batch jobs.

This custom logic provides the system with flexibility and enhances automation accuracy.