## **Guest360 CRM Project – Phase 5: Apex Programming (Developer)**

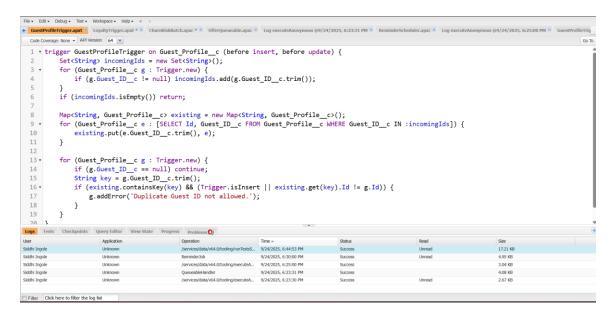
This document explains Phase 5 (Apex Programming) of the Guest360 CRM Project. It provides step-by-step click instructions with code and screenshot placeholders.

### **Step 1: Prevent Duplicate Guest IDs (Trigger)**

Path: Setup  $\rightarrow$  Object Manager  $\rightarrow$  Guest Profile  $\rightarrow$  Triggers  $\rightarrow$  New

Steps:

1. Click New → Name: GuestProfileTrigger → sObject: Guest\_Profile\_c



### **Step 2: Personalize Loyalty (Trigger)**

Path: Setup  $\rightarrow$  Object Manager  $\rightarrow$  Reservation  $\rightarrow$  Triggers  $\rightarrow$  New

Steps:

1. Name: LoyaltyTrigger → sObject: Reservation\_c

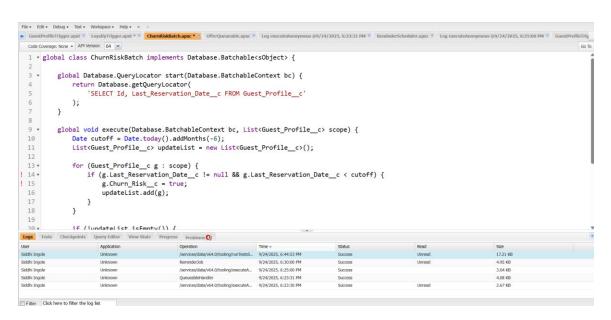


# Step 3: Batch Apex – Churn Risk Analysis

Path: Setup  $\rightarrow$  Apex Classes  $\rightarrow$  New

Steps:

1. Name: ChurnRiskBatch



Save and run: Debug  $\rightarrow$  Open Execute Anonymous  $\rightarrow$  Database.executeBatch(new ChurnRiskBatch(), 200)

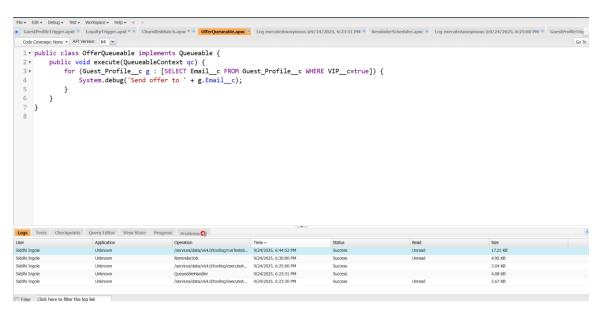
## **Step 4: Queueable Apex – Send Offers**

Path: **Setup** → **Apex Classes** → **New** 

Steps:

1. Name: OfferQueueable

2.

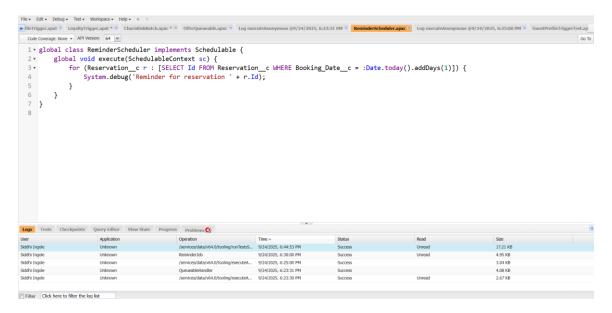


Save and run: Execute Anonymous → System.enqueueJob(new OfferQueueable())

#### **Step 5: Scheduled Apex – Reminders**

Path: Setup  $\rightarrow$  Apex Classes  $\rightarrow$  New

Steps:



Save and schedule: Setup  $\rightarrow$  Apex Classes  $\rightarrow$  Schedule Apex  $\rightarrow$  Select ReminderScheduler  $\rightarrow$  Daily.

### **Step 6: Test Class**

Path: Setup  $\rightarrow$  Apex Classes  $\rightarrow$  New

Steps:

1. Name: GuestProfileTriggerTest

```
@isTest
private class GuestProfileTriggerTest {
    @isTest static void testDuplicate() {
        Guest_Profile_c g1 = new Guest_Profile_c(Name='Test1', Guest_ID_c='X001');
        insert g1;
        Guest_Profile_c g2 = new Guest_Profile_c(Name='Test2', Guest_ID_c='X001');
        Test.startTest();
        try { insert g2; System.assert(false); } catch (DmlException e) { }
        Test.stopTest();
    }
}
```

}

2. Save  $\rightarrow$  Test  $\rightarrow$  New Run  $\rightarrow$  Select GuestProfileTriggerTest  $\rightarrow$  Run.

