PROJECT TITLE:

Garbage management system

College Name: VET INSTITUTE OF ARTS AND SCIENCE

College Code: 65651

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1.INTRODUCTION

1.1 Project Overview

The Garbage Management System is a digital application designed to streamline waste collection, segregation, and disposal processes in urban and rural areas. It provides an

efficient platform for citizens, municipal workers, and administrators to collaborate in ensuring a cleaner environment. The system supports complaint logging, garbage pickup scheduling, tracking of waste vehicles, and automated notifications.



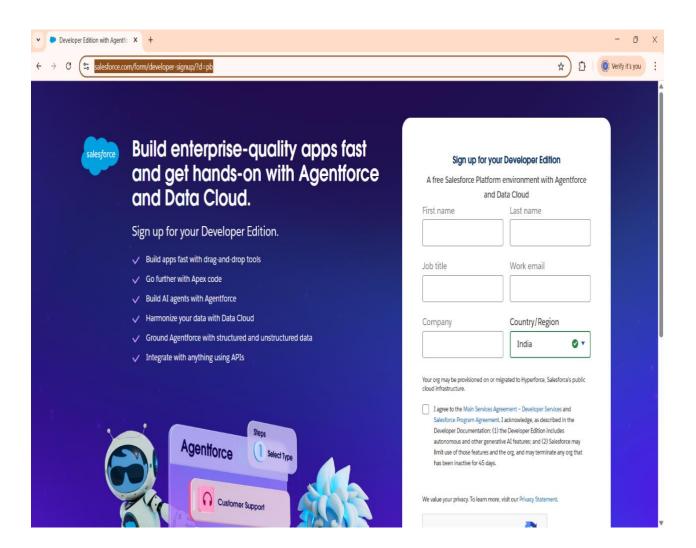
1.2 Purpose

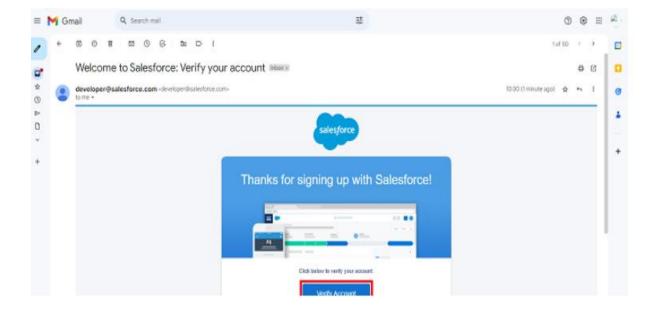
The main objective of the project is to improve waste collection efficiency, reduce manual errors, and ensure transparency in garbage management. It promotes environmental sustainability through proper segregation and disposal method, while encouraging community participation.

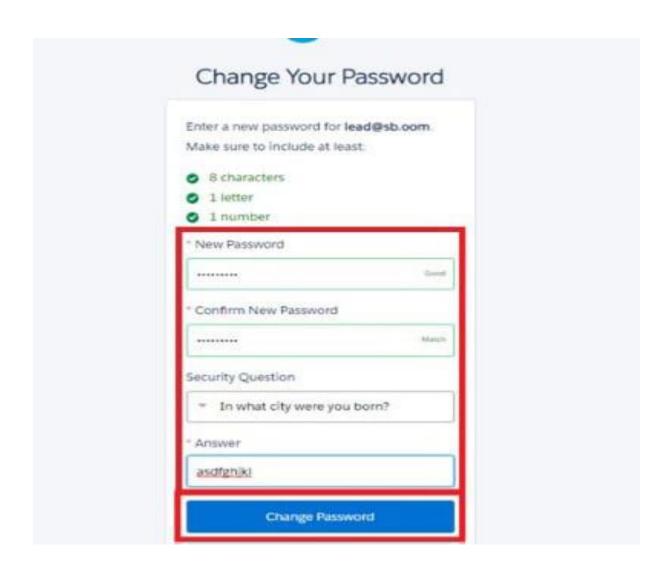
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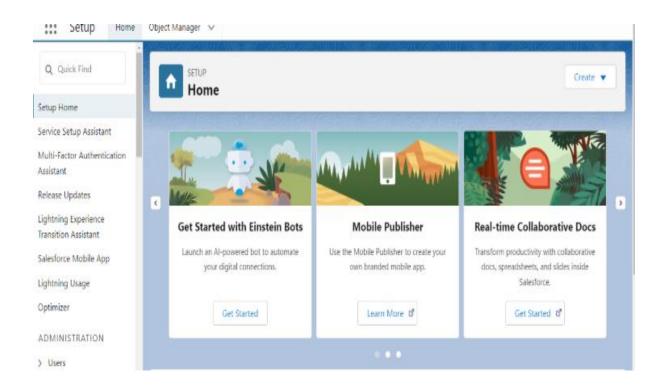
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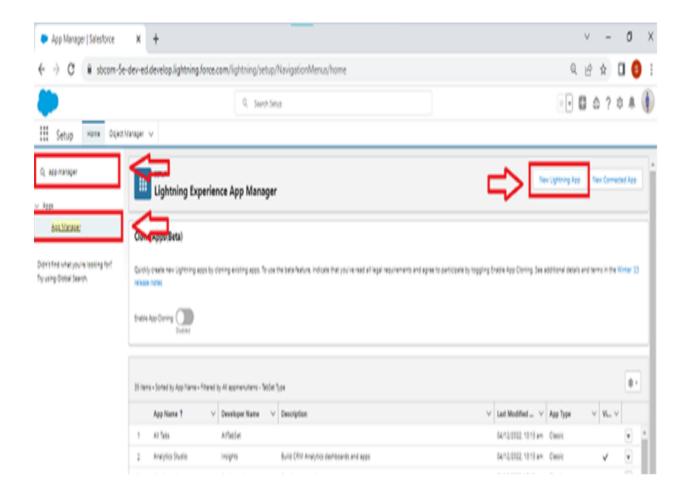
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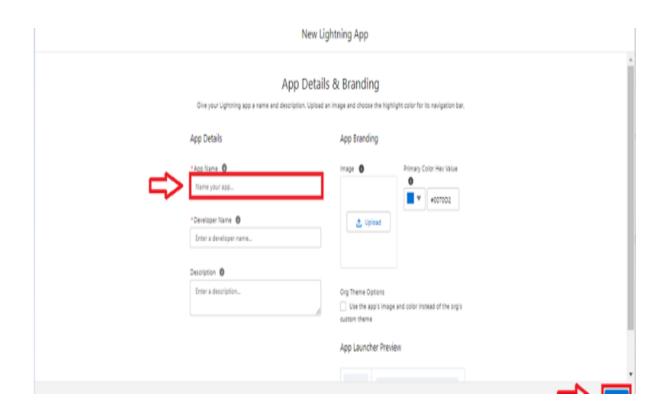


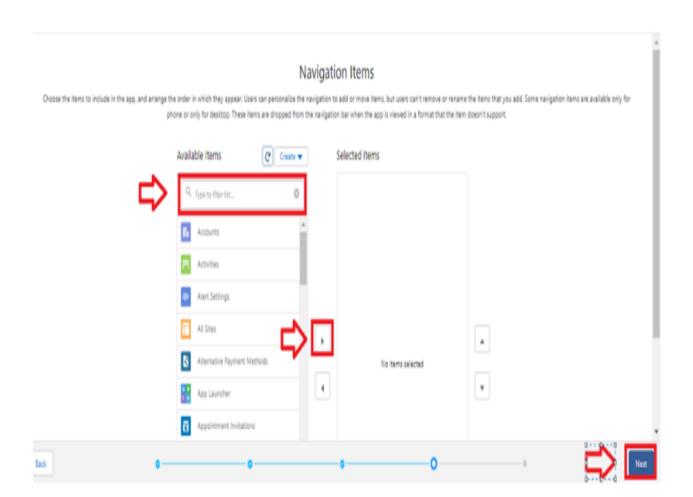


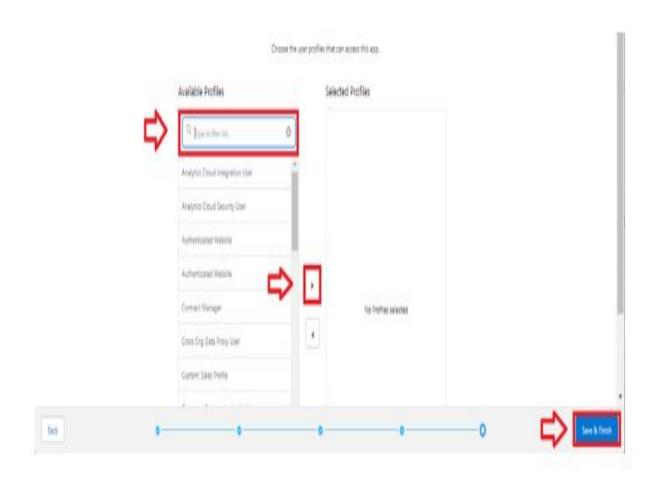


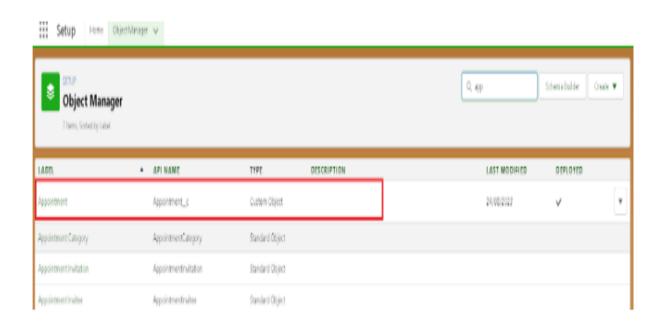








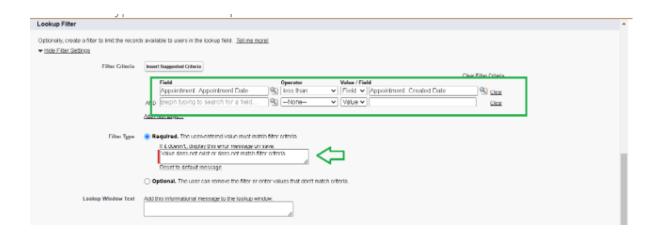




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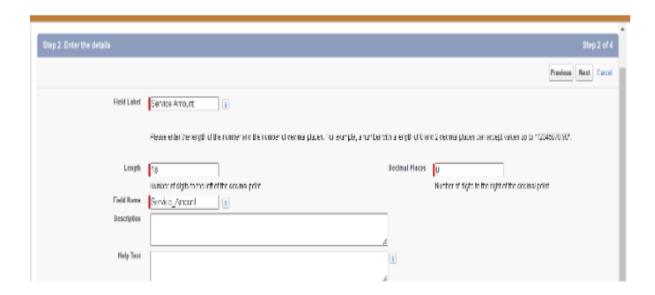


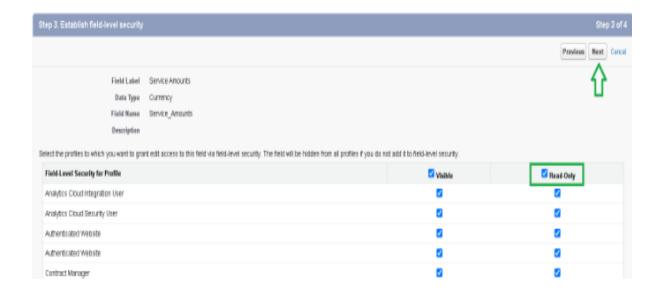








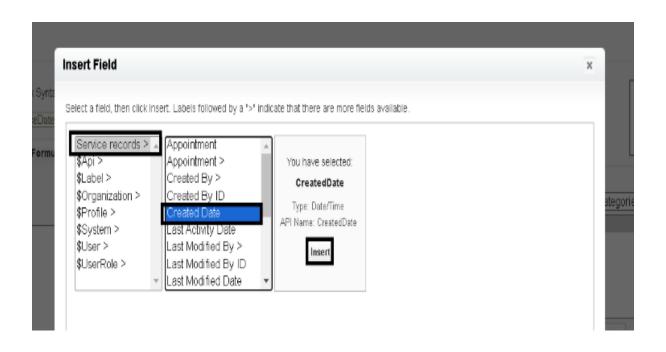




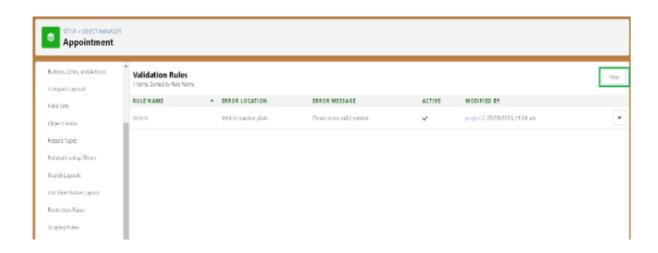


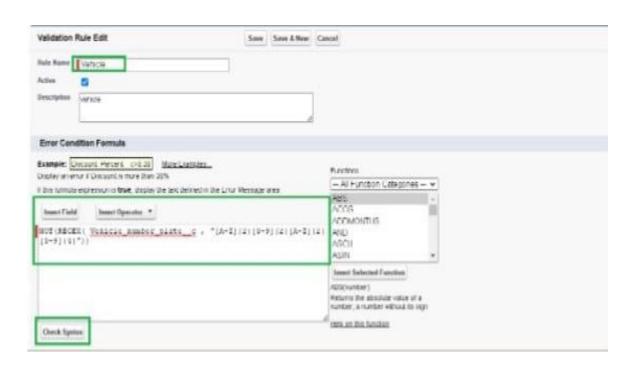








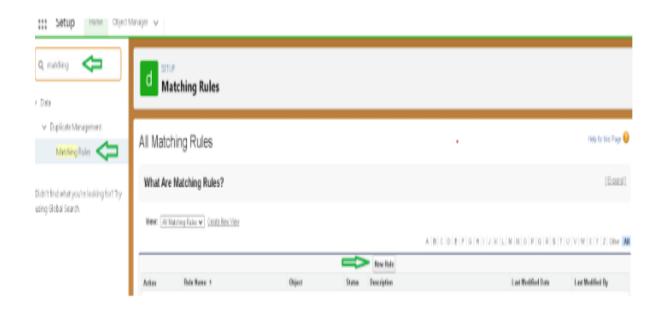






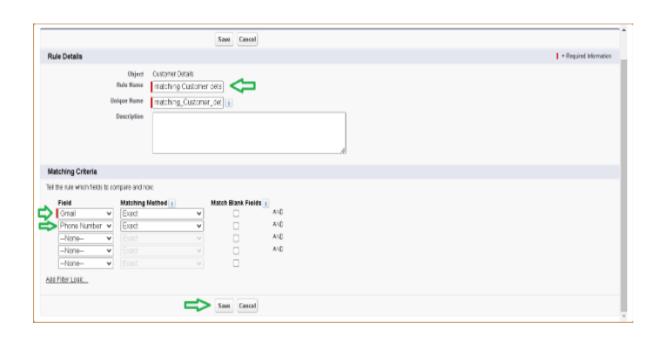




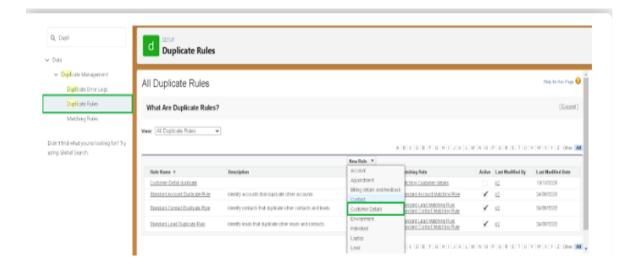


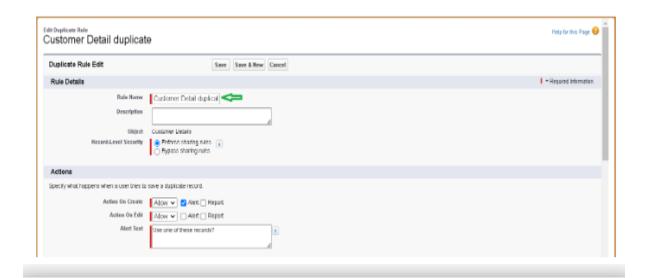


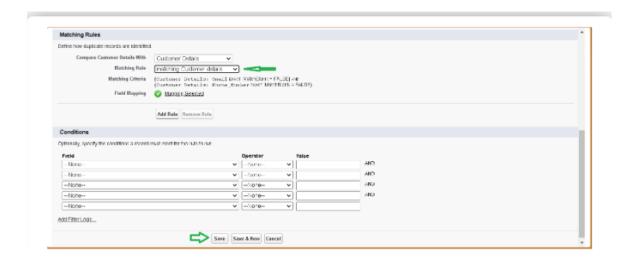


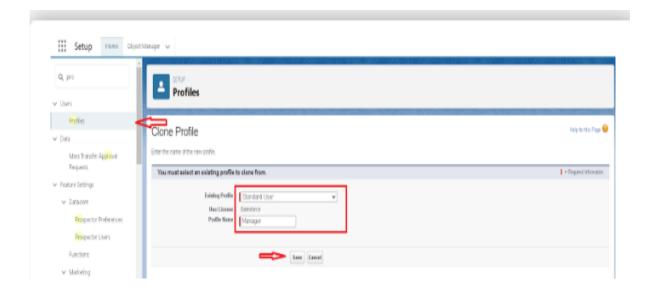


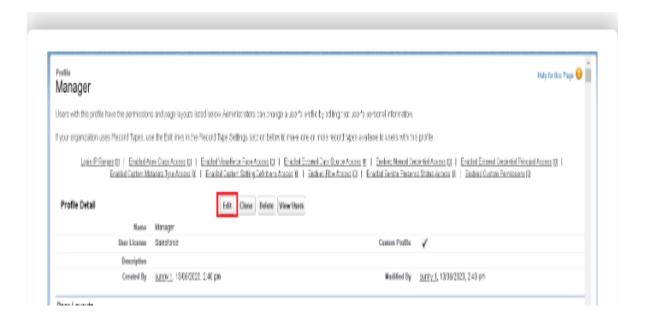






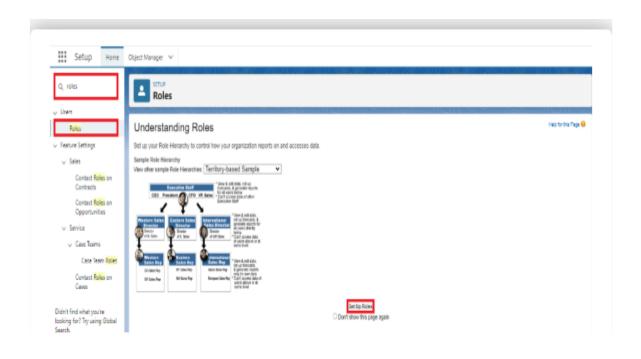






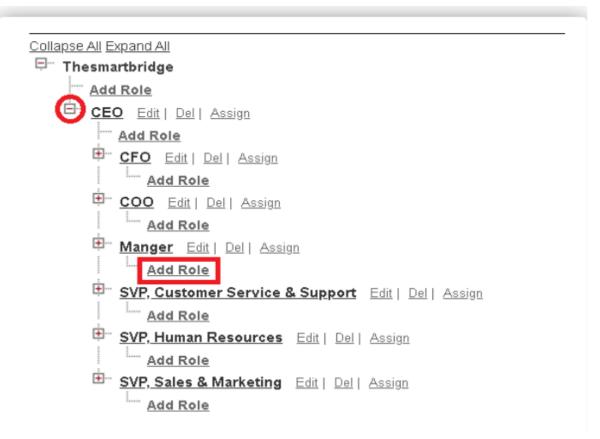
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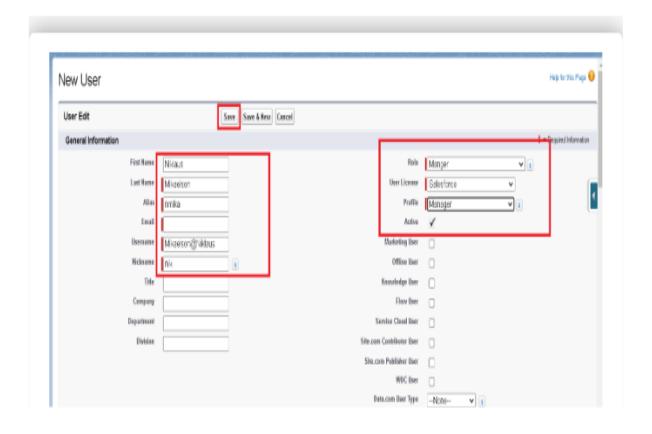
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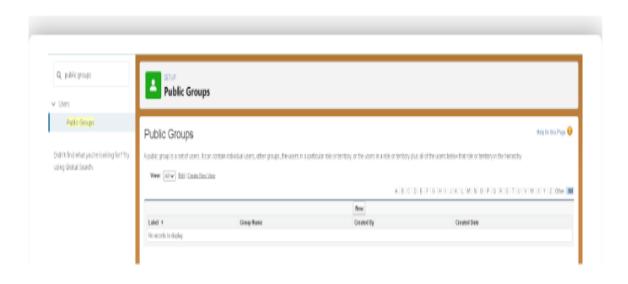


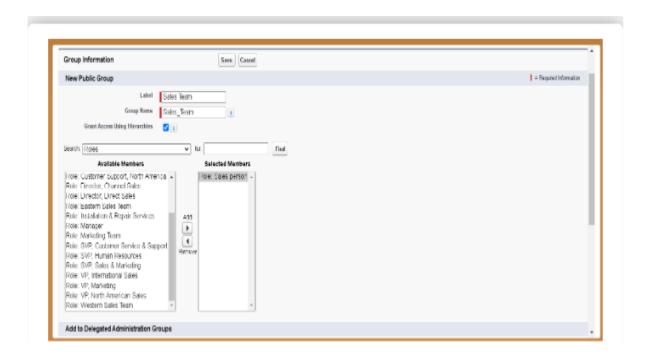


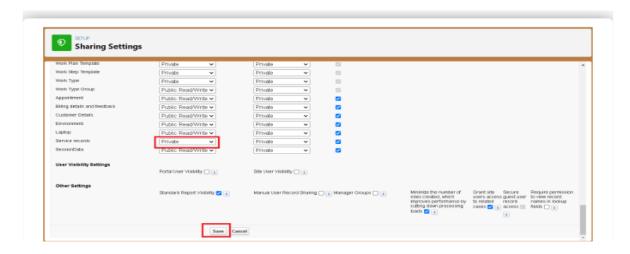


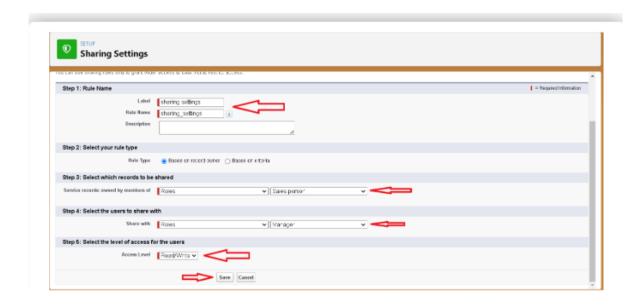


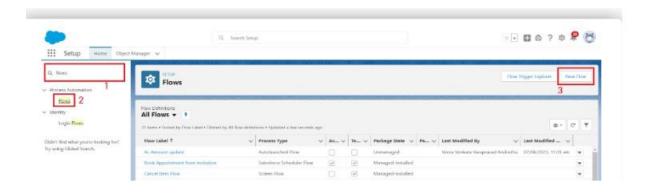


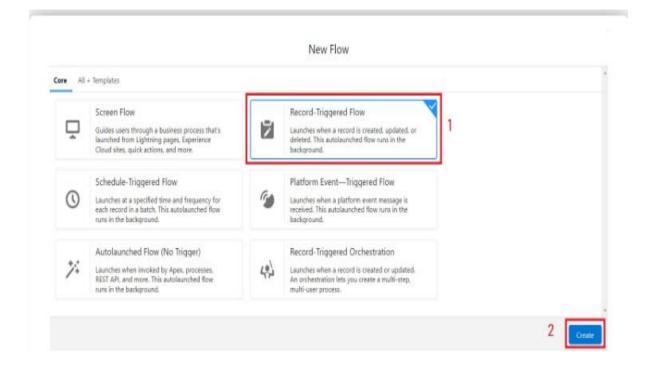


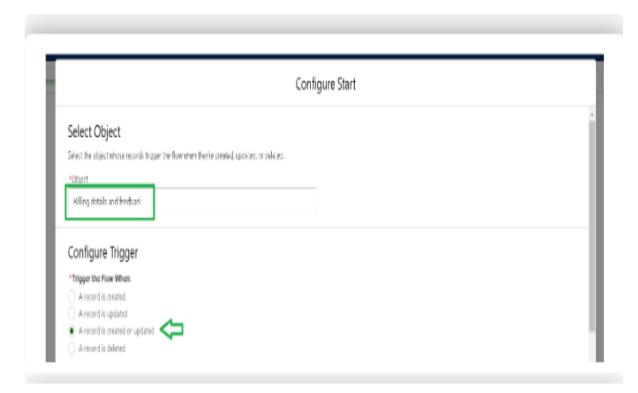


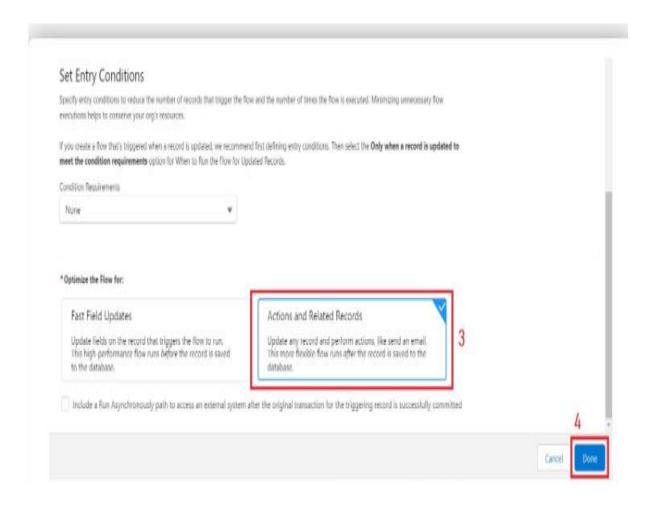


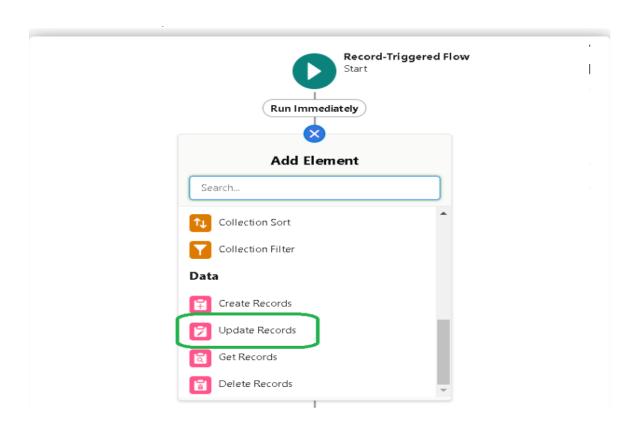


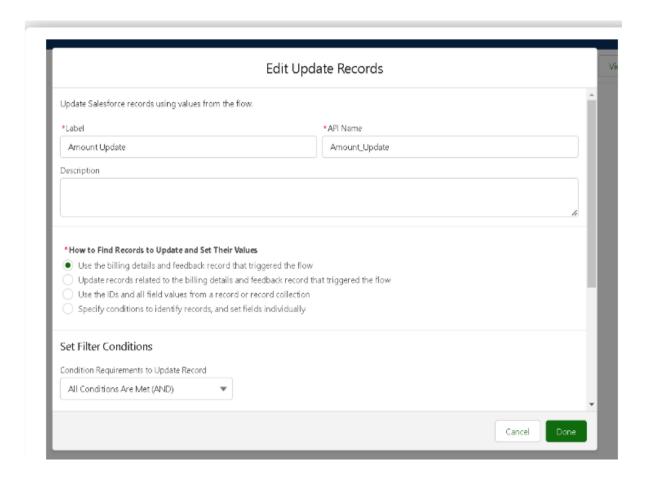


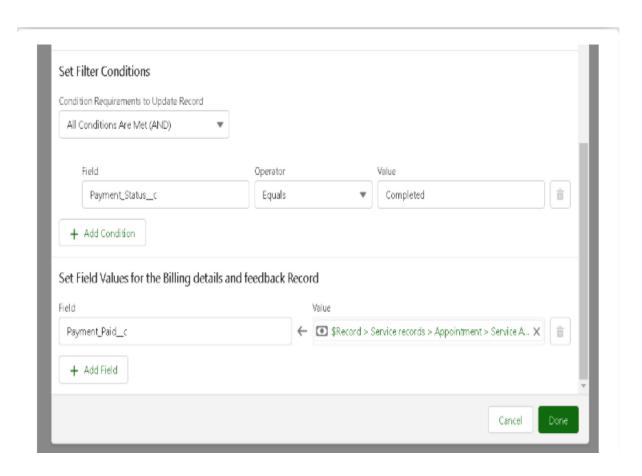


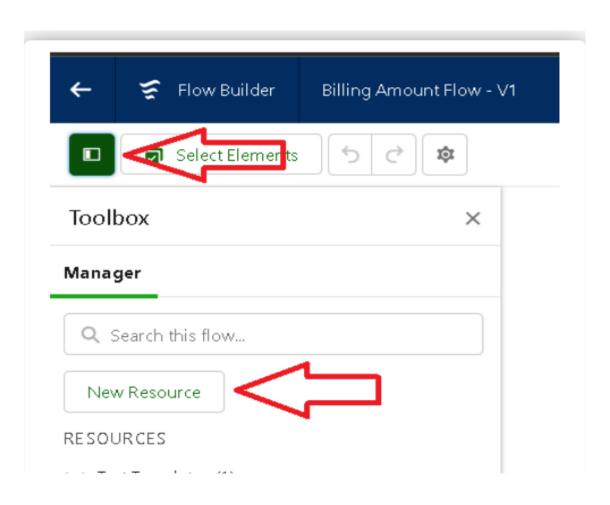


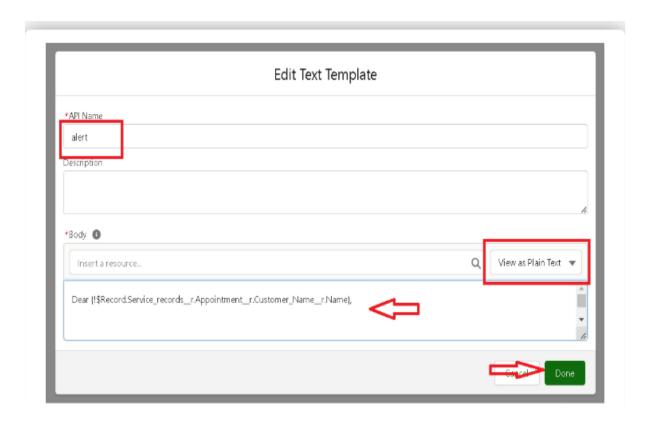


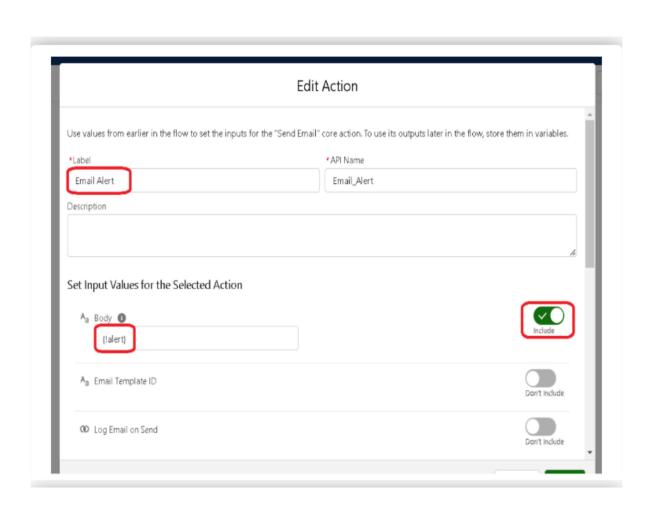


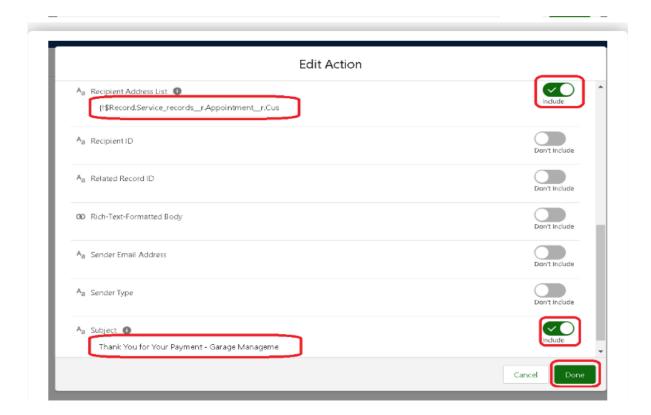


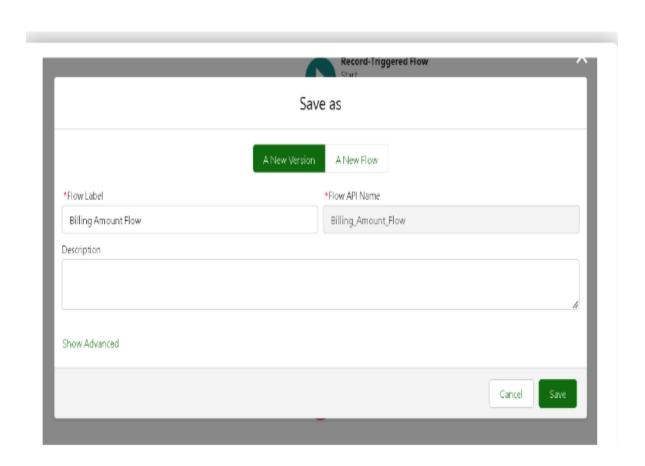


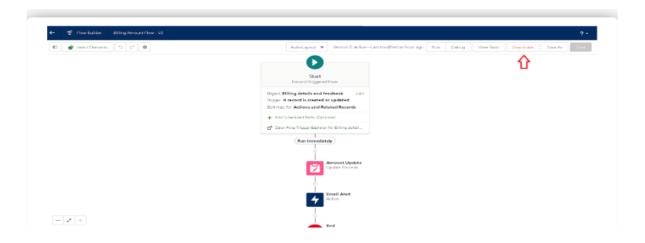




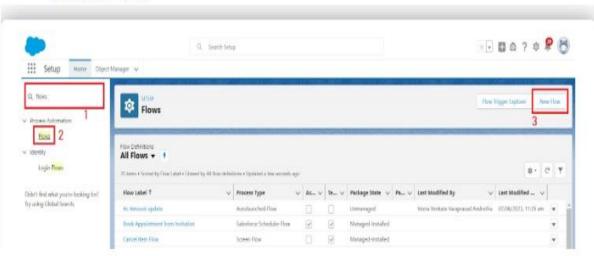


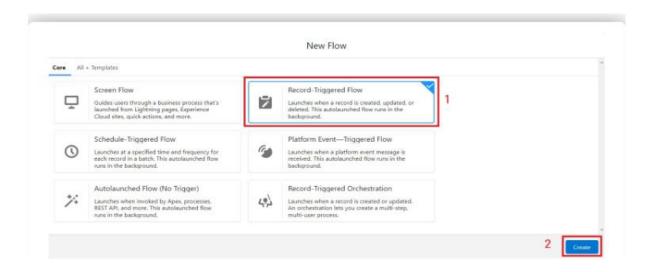


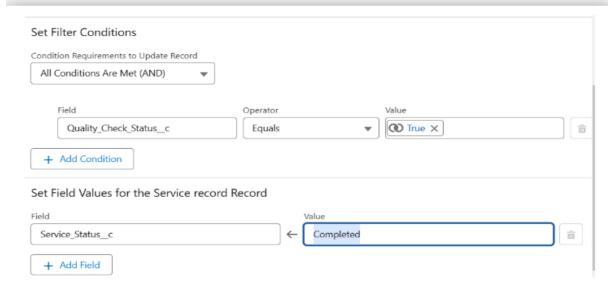




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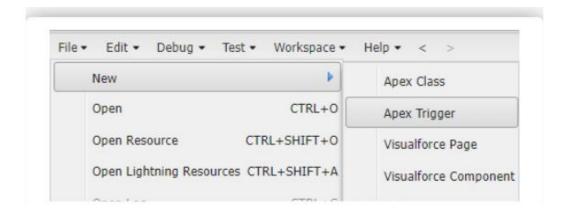


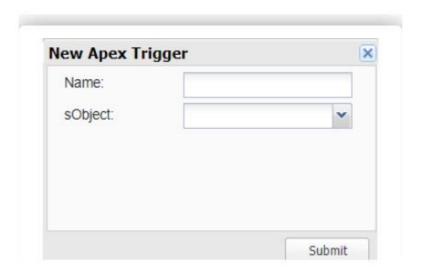




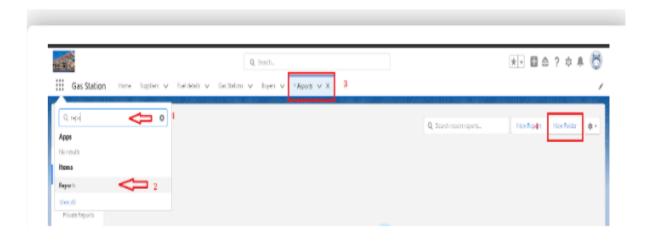
❖ Apex handler

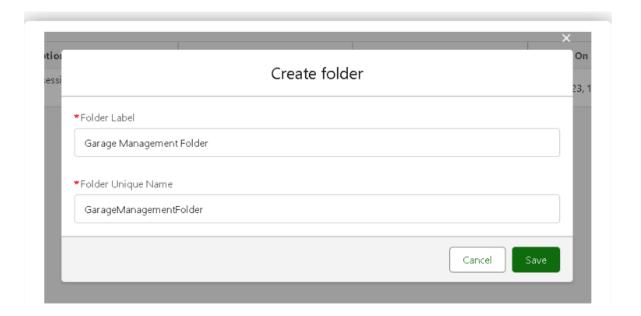
```
1 * public class AmountDistributionHandler {
        public static void amountDist(list<Appointment_c> listApp){
    list<Service_records_c> serList = new list <Service_records_c>();
             for(Appointment_c app : listApp){
   if(app.Maintenance_service_c == true && app.Repairs_c == true && app.Replacement_Parts_c == true)(
    app.Service_Amount_c = 10000;
                else if(app.Maintenance_service_c == true && app.Repairs_c == true){
    app.Service_Amount_c = 5000;
                else if(app.Maintenance_service_c == true && app.Replacement_Parts_c == true){
                     app.Service_Amount_c = 8008;
                | relse if(app.Repairs_c == true && app.Replacement_Parts_c == true)(
| app.Service_Amount_c = 7000;
17
18
19 •
                 else if(app.Maintenance_service__c == true){
AmountDistribution.apst * AmountDistribution#sinder.apsc **
Code Coverage: None • API Version: 58 •
 13 *
                       else if(app.Maintenance_service_c == true && app.Replacement_Parts_c == true){
 14
                            app.Service_Amount__c = 8000;
 15
                       else if(app.Repairs_c == true && app.Replacement_Parts_c == true){
 16 *
 17
                            app.Service_Amount_c = 7000;
 18
 19+
                      else if(app.Maintenance_service_c == true){
 20
                            app. Service Amount c = 2000;
 21
 22 .
                      else if(app.Repairs_c == true){
 23
                            app.Service_Amount__c = 3000;
 24
 25 •
                      else if(app.Replacement_Parts_c == true){
 26
                            app.Service_Amount_c = 5000;
 27
 28
 29
 30
```

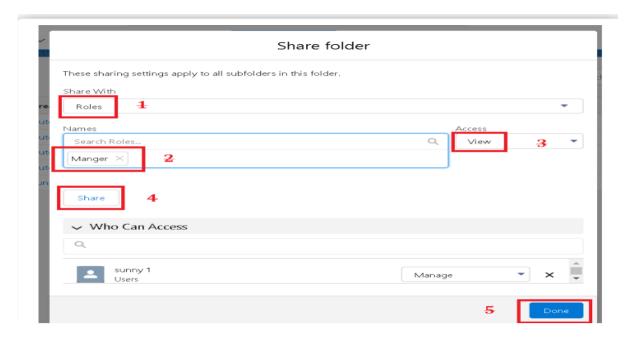


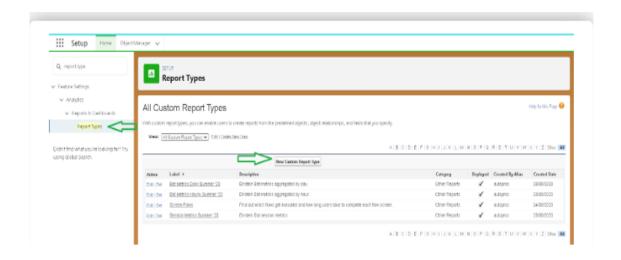


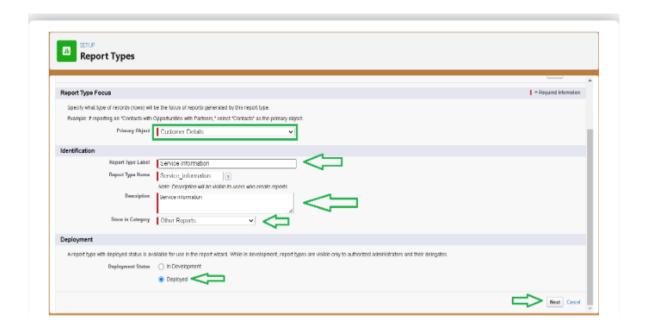
Handler for the Appointment Object



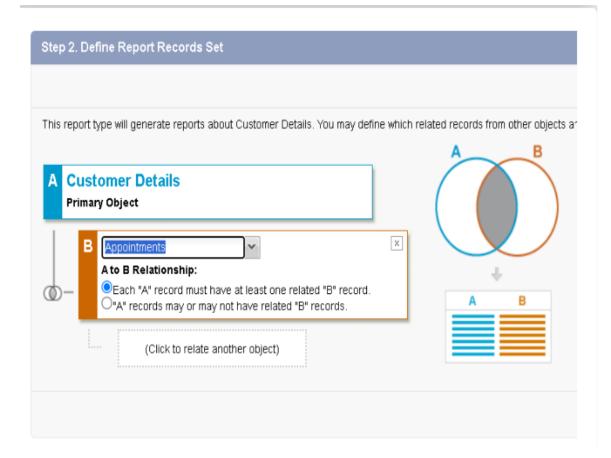


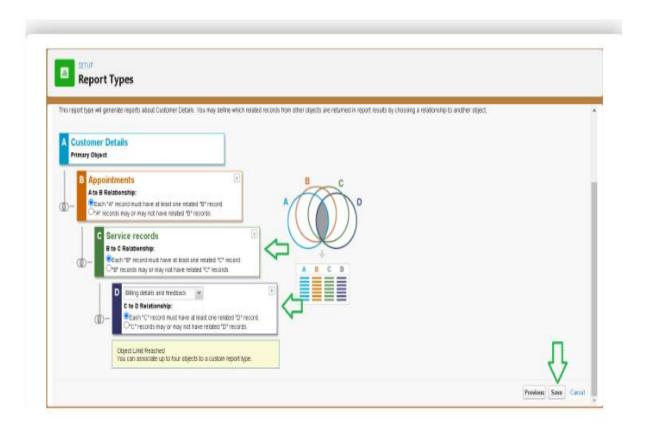


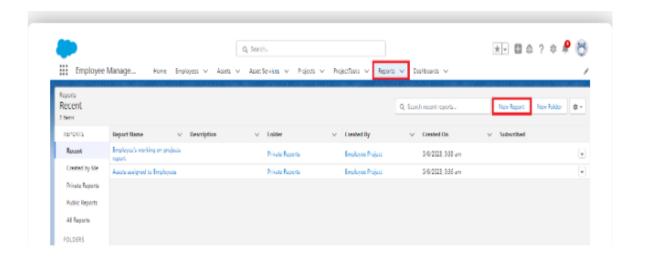


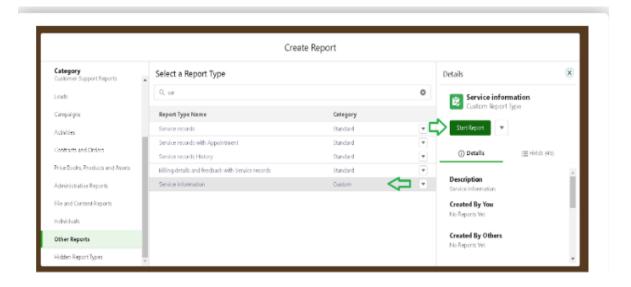


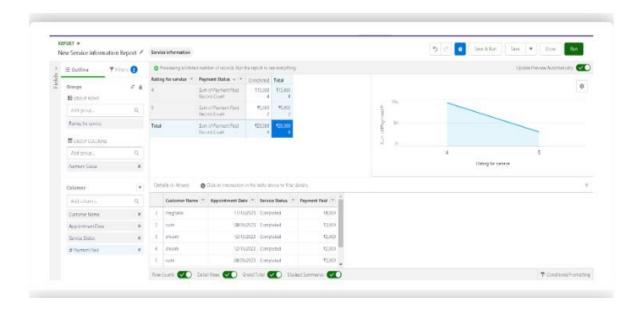


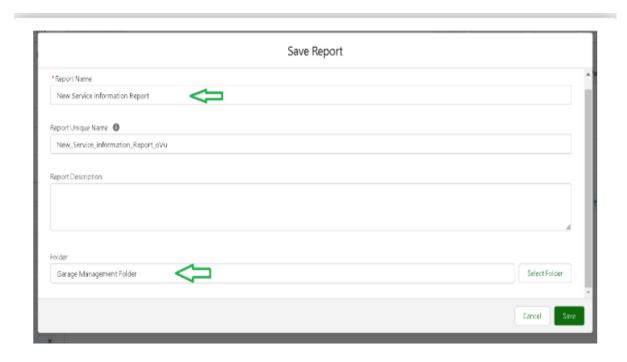


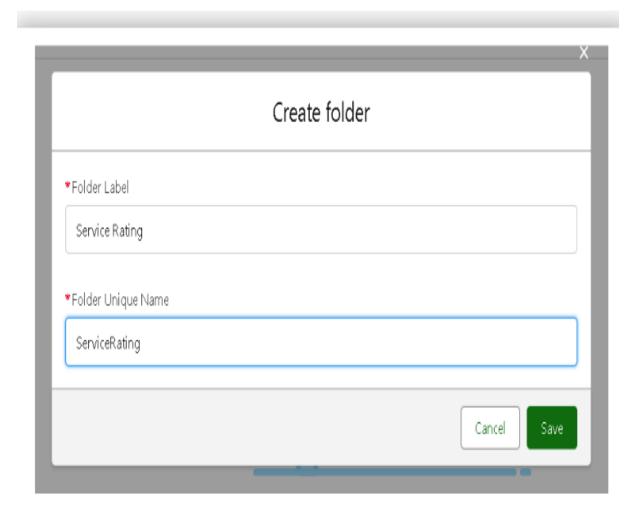


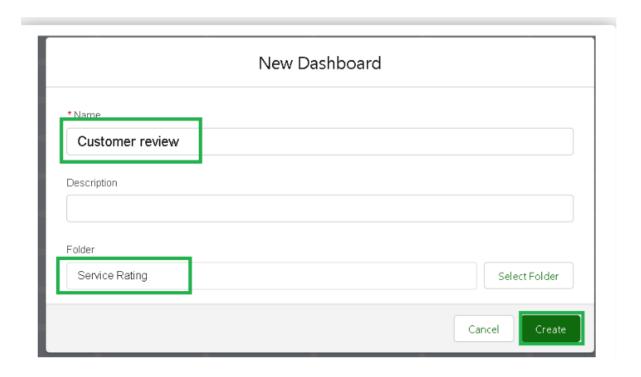




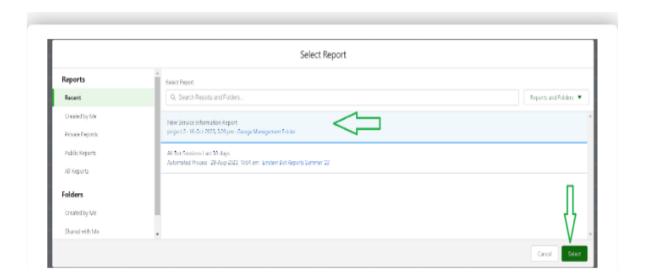


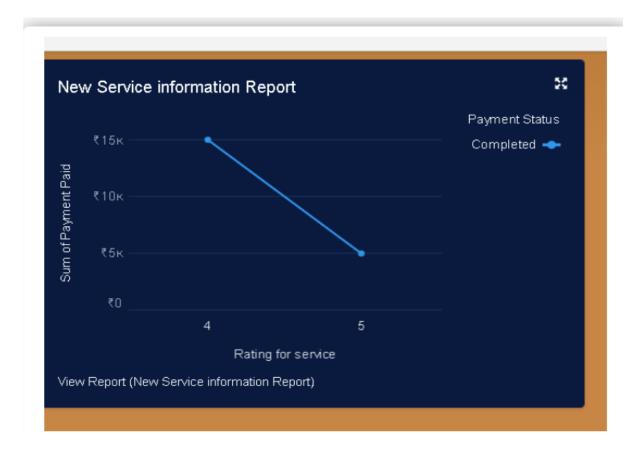


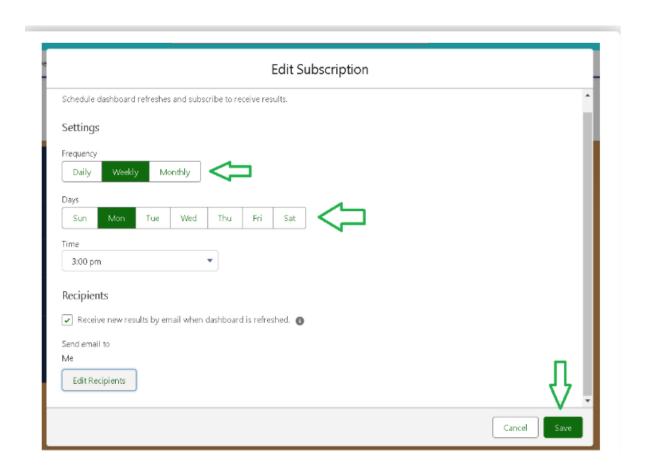


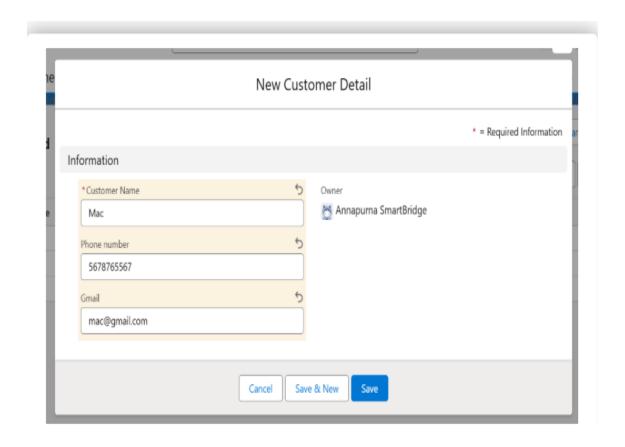


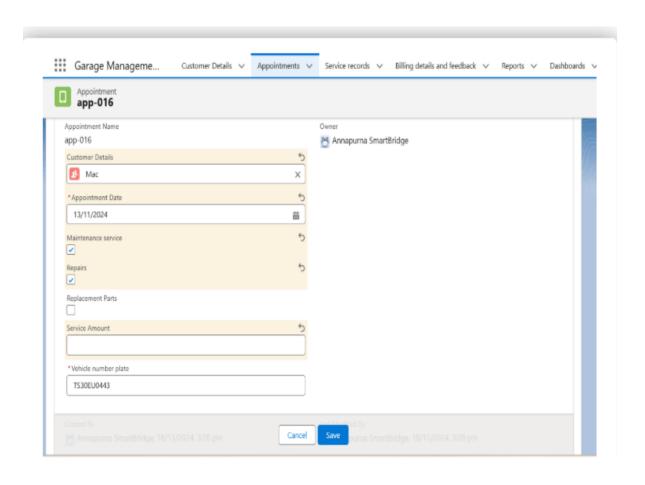


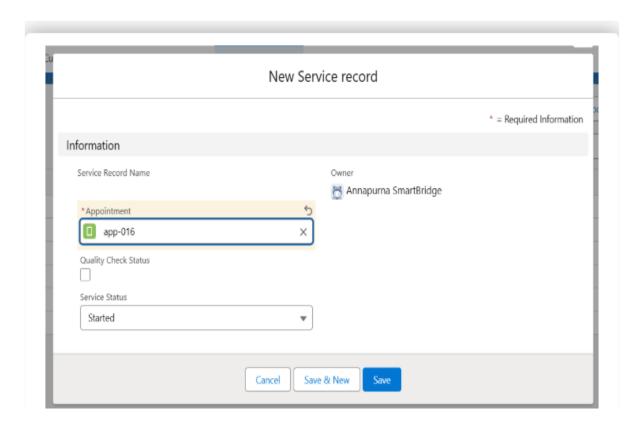


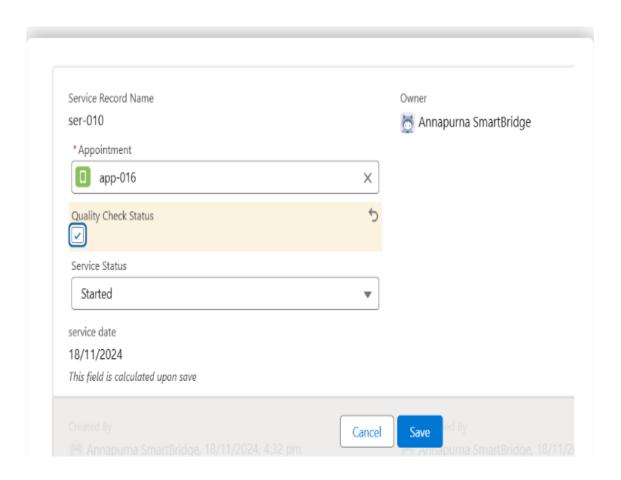


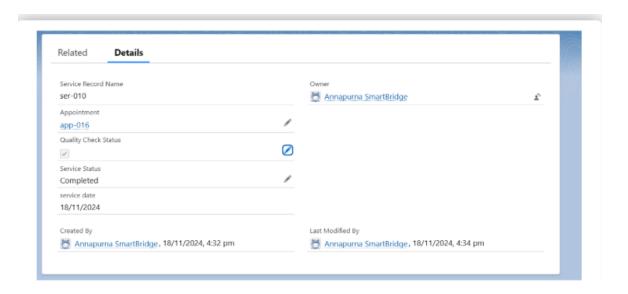












CONCLUSION

The Garbage Management System successfully improves waste collection, segregation, and disposal through a structured and automated digital platform. It enhances efficiency, transparency, and communication among citizens, workers, and administrators, while promoting environmental sustainability and community participation.

APPENDIX

 Source code: Provided in Apex Classes and Triggers

Apex handler:

public class AmountDistributionHandler {

```
public static void amountDist(list<Appointment_c>
listApp){
    list<Service_records__c> serList =
                                                  list
                                            new
<Service_records__c>();
    for(Appointment__c app : listApp){
      if(app.Maintenance_service__c ==
                                           true
                                                   22
app.Repairs_c == true && app.Replacement_Parts_c ==
true){
         app.Service_Amount__c = 10000;
      }
      else if(app.Maintenance_service__c == true &&
app.Repairs_c == true){
         app.Service_Amount__c = 5000;
      }
      else if(app.Maintenance_service__c == true &&
app.Replacement_Parts__c == true){
         app.Service_Amount__c = 8000;
      }
               if(app.Repairs__c
                                          true
                                                   22
app.Replacement_Parts__c == true){
         app.Service_Amount__c = 7000;
      }
      else if(app.Maintenance_service__c == true){
```

```
app.Service_Amount__c = 2000;
       }
       else if(app.Repairs_c == true){
         app.Service_Amount_c = 3000;
       }
       else if(app.Replacement_Parts__c == true){
         app.Service_Amount__c = 5000;
       }
}
Handler for the Appointment Object:
trigger AmountDistribution on Appointment_c (before
insert, before update) {
if(trigger.isbefore && trigger.isinsert || trigger.isupdate){
    AmountDistributionHandler.amountDist(trigger.new
);
```