Garage Management System

College Name : Tiruppur Kumaran College for Women

College Code: bru3j

TEAM ID: NM2025TMID28492

TEAM MEMBERS:

Team Leader: Subitsha.A

Email: subitsha1803@gmail.com

Team Member 1 : Sanjuvihasini.M Email : sanjuvihasinim@gmail.com

Team Member 2 : Thilagavathi.S

Email: thilagavathisundaram6@gmail.com

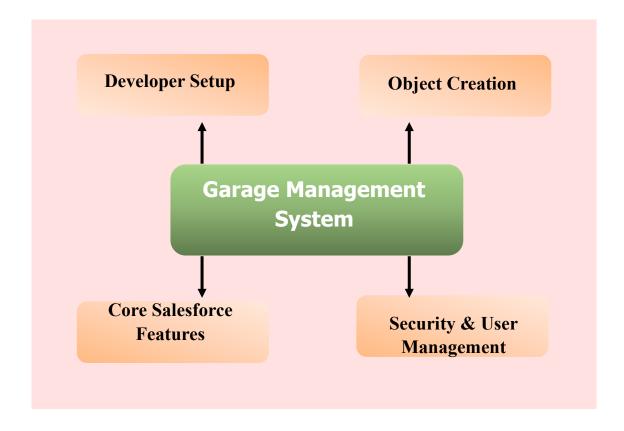
Team Member 3 : Jenifar Rose Mary.A

Email: ajenifar3105@gmail.com

INTRODUCTION

Project Overview:

The Garage Management System (GMS) is a Salesforce-based solution that streamlines garage operations by managing customers, vehicles, services, and billing in one platform. It improves efficiency, reduces manual errors, and enhances the overall service experience.



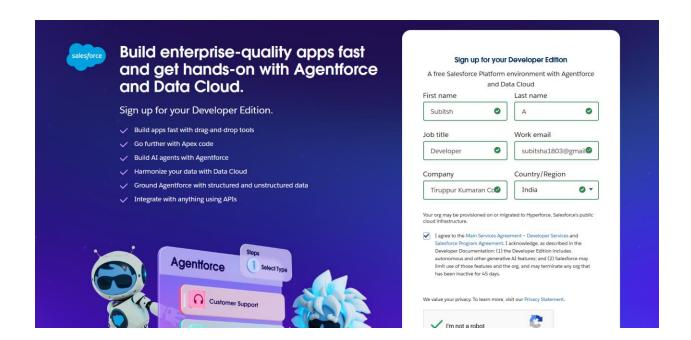
Purpose:

The purpose of the project is to enhance the efficiency of automotive repair facilities by automating key operations, improving service quality, and simplifying customer interactions. It aims to provide a seamless platform that supports staff productivity, ensures accurate service tracking, and fosters long-term customer satisfaction and loyalty.

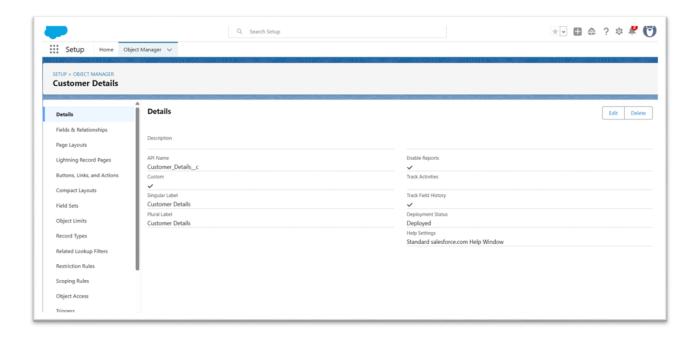
DEVELOPMENT PHASE

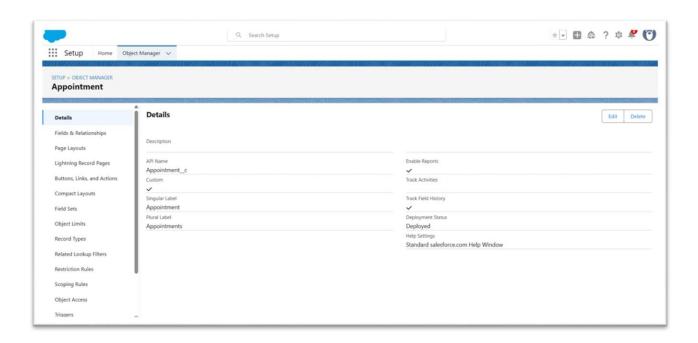
Creating Developer Account:

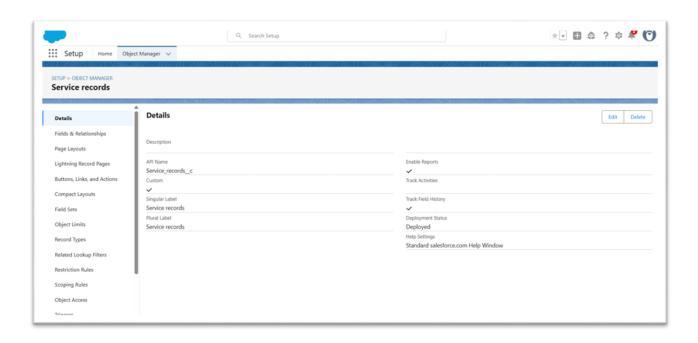
By using this URL - https://developer.salesforce.com/signup

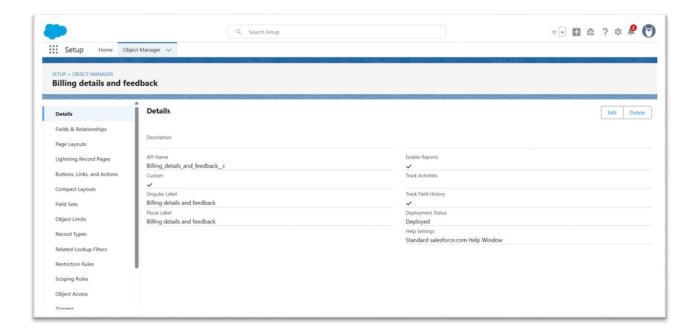


• Created objects: Customer Details, Appointment, Service records, Billing details and feedback

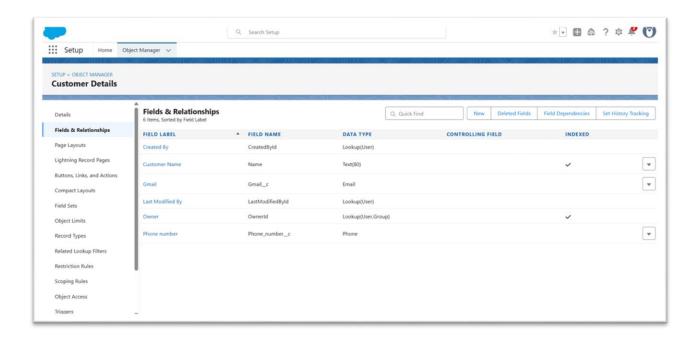


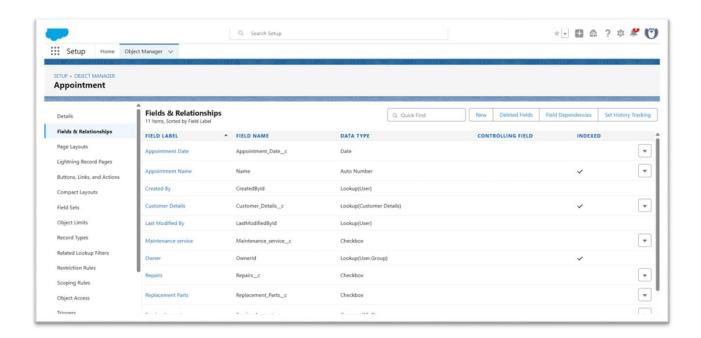


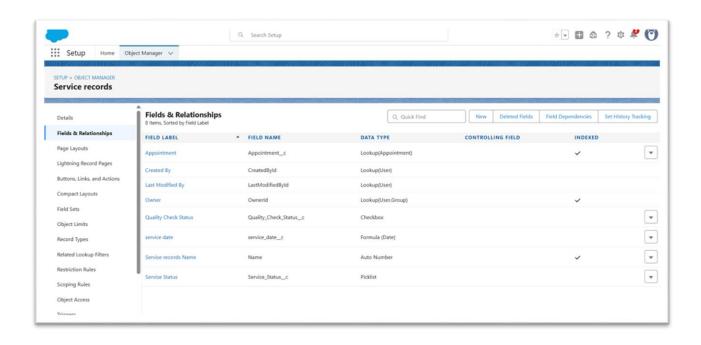


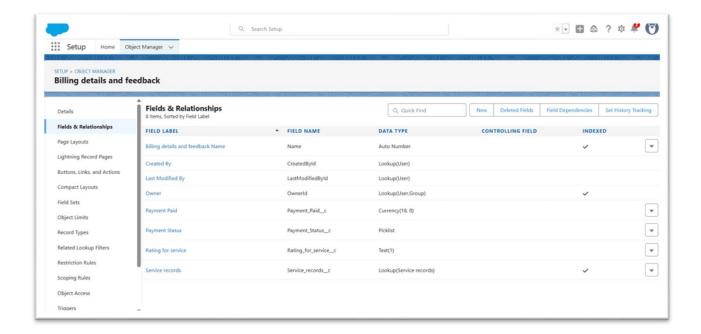


• Configured fields and relationships

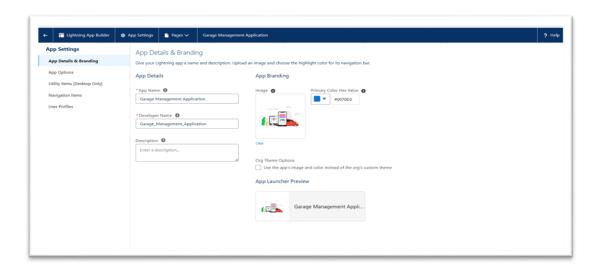


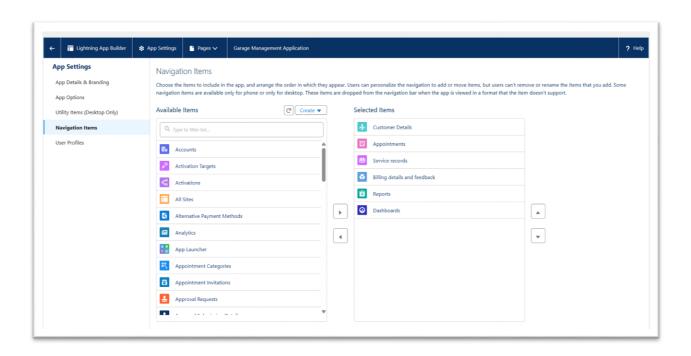


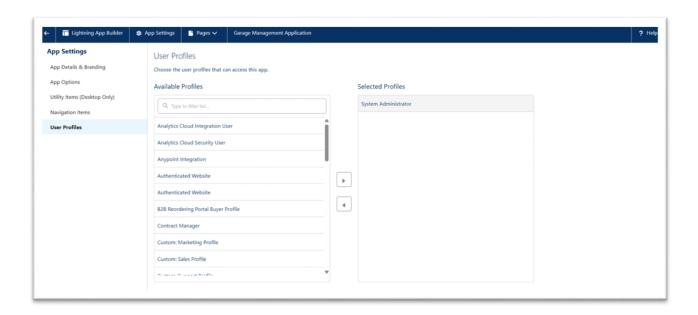


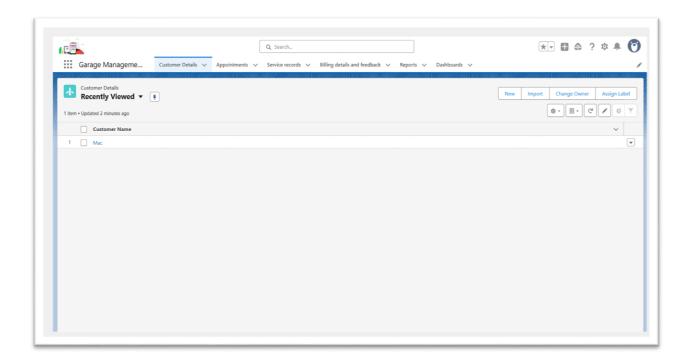


• Developed Lightning App with relevant tabs

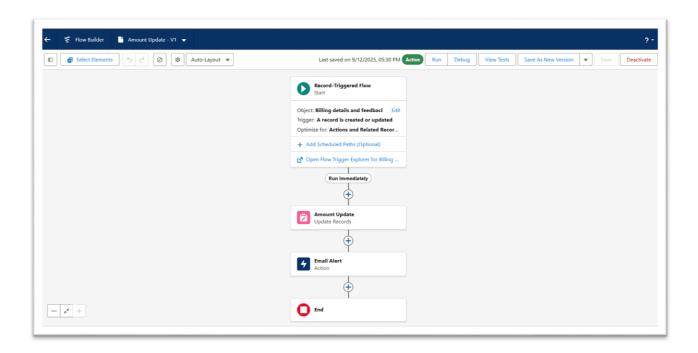




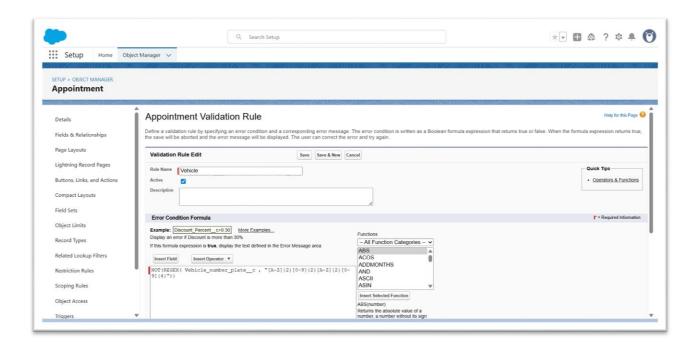


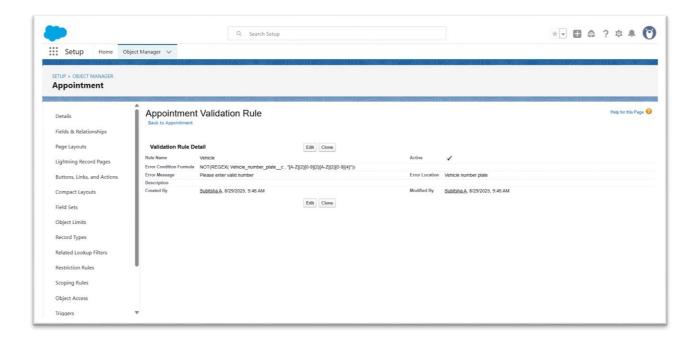


• Implemented Flows

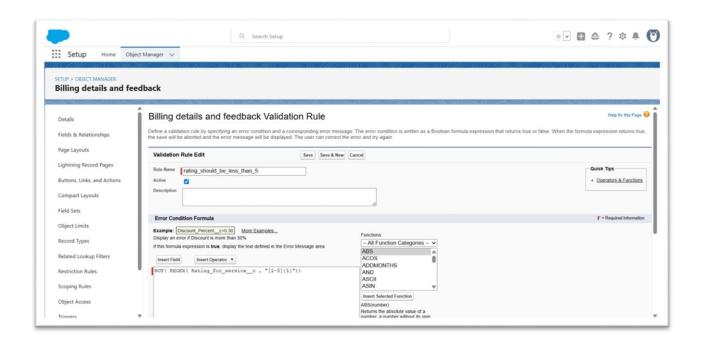


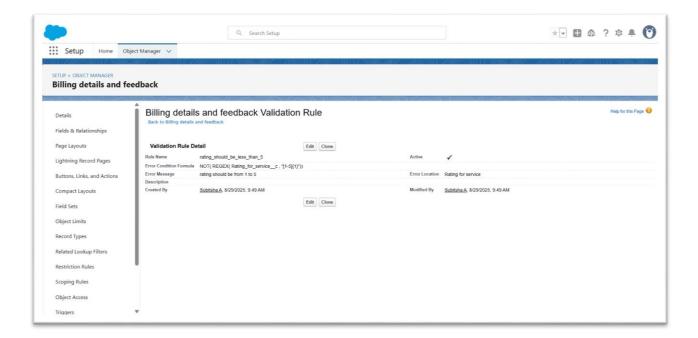
• To create a validation rule to an Appointment Object





• To create a validation rule to a Billing details and Feedback Object

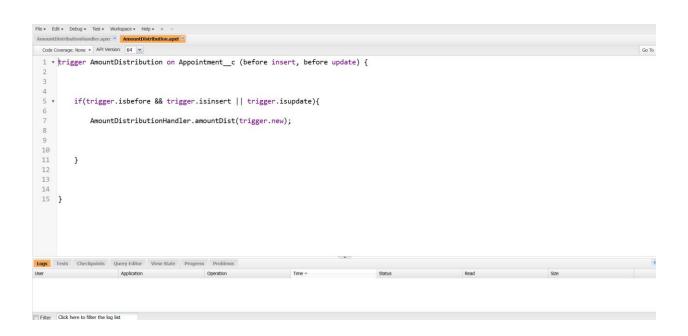




• Created an Apex Handler class

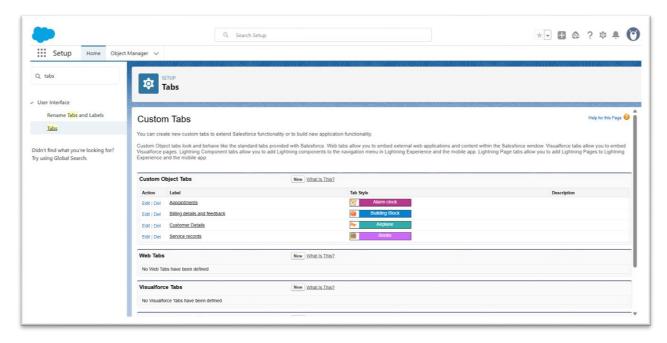
```
File • Edit • Debug • Test • Workspace • Help • < >
 Code Coverage: None • API Version: 64 •
  1 * public class AmountDistributionHandler {
         public static void amountDist(list<Appointment_c> listApp){
              list<Service_records__c> serList = new list <Service_records__c>();
  11 •
             for(Appointment_c app : listApp){
 12
13 •
                  if(app.Maintenance_service_c == true && app.Repairs_c == true && app.Replacement_Parts_c == true){
  15
                       app.Service_Amount__c = 10000;
 16
17
                }
  18
                  else if(app.Maintenance_service_c == true && app.Repairs_c == true){
  20
togs Tests Checkpoints Query Editor View State Progress Problems
Filter Click here to filter the log list
```

• Added Apex trigger

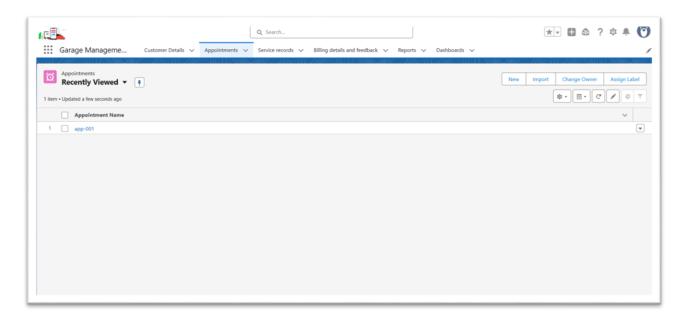


RESULTS Output Screenshots

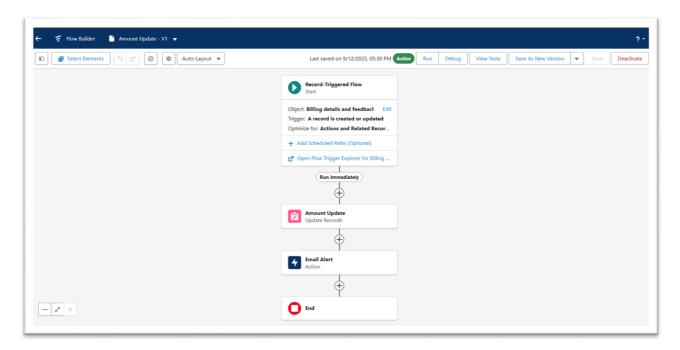
• Tabs for Customer Details, Appointment, Service records, Billing details and feedback



• Email alerts



Flow runs



CONCLUSION

The Garage Management System streamlines garage operations by automating services, billing, and customer management. It improves efficiency, reduces errors, and enhances customer satisfaction, making it a reliable solution for long-term growth.

APPENDIX

• Source Code: Provided in Apex Classes and Triggers

AmountDistributionHandler.apxc:

```
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 <math>c = true){
         app.Service_Amount__c = 8000;
      else if(app.Repairs c == true && 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;
```

AmountDistribution.apxt:

```
trigger AmountDistribution on Appointment__c (before insert, before update) {
   if(trigger.isbefore && trigger.isinsert || trigger.isupdate) {
        AmountDistributionHandler.amountDist(trigger.new);
   }
}
```