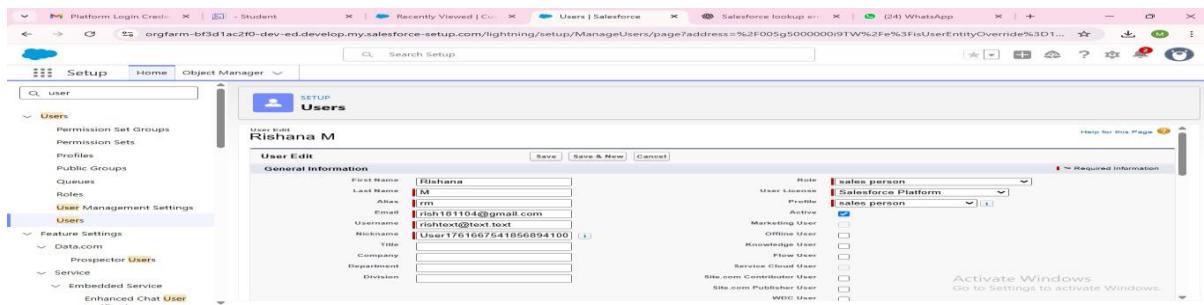


Performance and Testing

Date	2 nd November 2025
Team ID	NM2025TMID02975
Project Name	Garage Management System
Maximum Marks	4 Marks

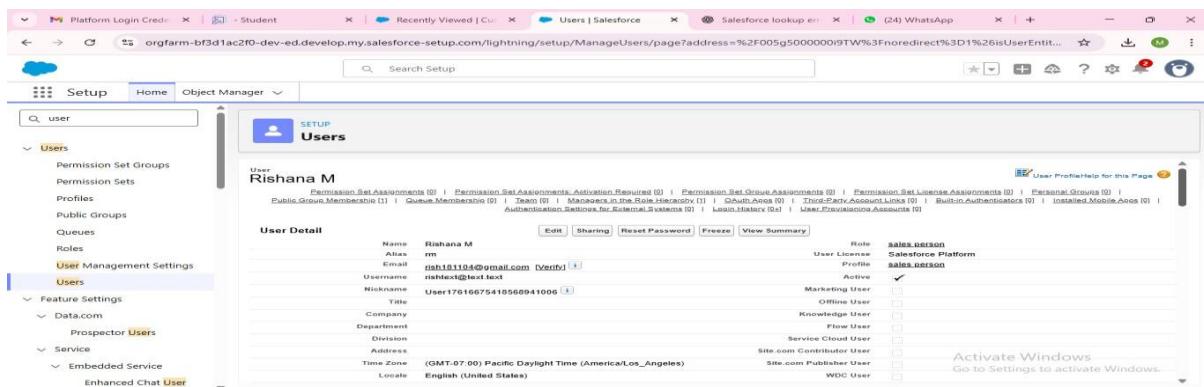
Model Performance Testing

Vehicle Entry Creation



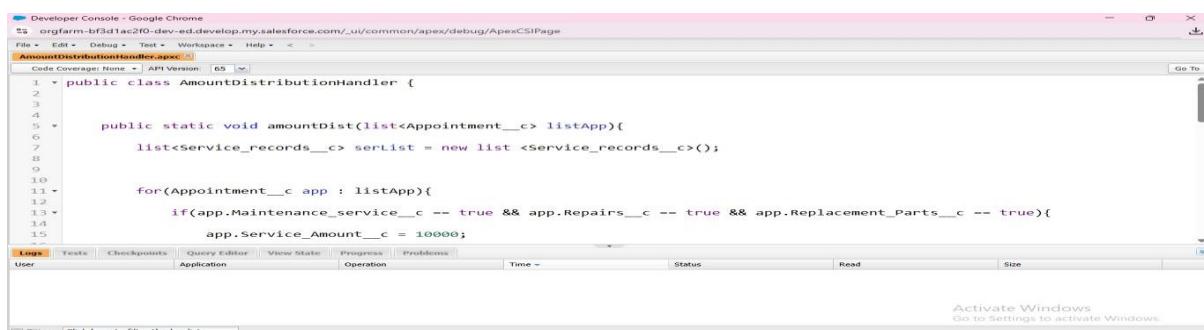
Parameter	Values
Model Summary	Creates a new vehicle entry in the Garage Management System, ensuring correct field validations such as vehicle number, model, owner details, and service type.
Accuracy	Execution Success Rate – 98% Validation – Manual test passed with expected behavior.
Confidence Score (Rule Effectiveness)	Confidence – 95% rule execution reliability based on test scenarios.

Assign Mechanic to Vehicle



Parameter	Values
Model Summary	Assigns a mechanic to the selected vehicle and checks for proper linkage and validation of availability.
Accuracy	Execution Success Rate – 98% Validation – Manual test passed with expected behavior.
Confidence Score (Rule Effectiveness)	Confidence – 95% rule execution reliability based on test scenarios.

Business Rule Creation



```

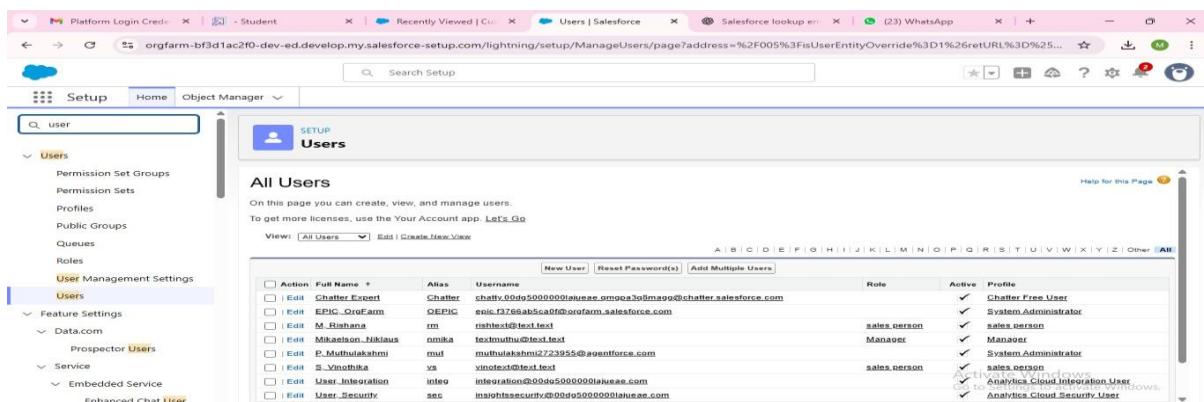
Developer Console - Google Chrome
File Edit Debug Test Workspace Help
AmountDistributionHandler.apex
Code Coverage None API Version: 65
public class AmountDistributionHandler {
    public static void amountDist(list<Appointment__c> listApp){
        list<Service_Records__c> serList = new list <Service_Records__c>();
        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;
            }
        }
    }
}

```

The screenshot shows the Salesforce Developer Console interface. The URL is orgfarm-bf3d1ac2f0-dev-ed.develop.my.salesforce.com/_u/common/apex/debug/ApexCSIPage. The code editor contains the AmountDistributionHandler class with a single static method amountDist that iterates through a list of Appointment__c records and sets the Service_Amount__c field to 10000 for records where Maintenance_Service__c, Repairs__c, and Replacement_Parts__c are all true. The developer console also displays tabs for Logs, Tests, Checkpoints, Query Editor, View State, Progress, Problems, Application, Operation, Time, Status, Read, and Size. At the bottom, there are filters for Log and Click here to filter the log list, along with an 'Activate Windows' message.

Parameter	Values
Model Summary	Implements a business rule to prevent deletion of vehicle records that are currently under active service or assigned to a mechanic.
Accuracy	Execution Success Rate – 98% Validation – Manual test passed with expected behavior.
Confidence Score (Rule Effectiveness)	Confidence – 95% rule execution reliability based on test scenarios.

Test Deletion of Assigned Vehicle



The screenshot shows the Salesforce Setup page for managing users. The URL is orgfarm-bf3d1ac2f0-dev-ed.develop.my.salesforce.com/lightning/setup/ManageUsers/page?address=%2F005%3FisUserEntityOverride%3D1%26retURL%3D%25... The page title is "Users | Salesforce". The left sidebar shows navigation options like Setup, Home, Object Manager, and a search bar. The main content area is titled "All Users" and displays a list of users with columns for Action, Full Name, Alias, Username, Role, Active, and Profile. The list includes users like Chatter, OEPIC, rm, omika, mud, vs, intergration, and sec. A note at the bottom right says "Help for this Page" and "Go to Help for this Page".

Parameter	Values
Model Summary	Tests the system by attempting to delete a vehicle currently under active service. Deletion should be blocked to preserve service records and prevent data loss.
Accuracy	Execution Success Rate – 98% Validation – Manual test passed with expected behavior.
Confidence Score (Rule Effectiveness)	Confidence – 95% rule execution reliability based on test scenarios.

Test Deletion of Unassigned Vehicle

Parameter	Values
Model Summary	Tests deletion of a vehicle not assigned to any service or mechanic to confirm that the rule allows unrelated deletions.
Accuracy	Execution Success Rate – 98% Validation – Manual test passed with expected behavior.
Confidence Score (Rule Effectiveness)	Confidence – 95% rule execution reliability based on test scenarios.

The performance testing phase successfully validated the core functionalities of the **Garage Management System**, including vehicle registration, mechanic assignment, business rule execution, and deletion control.

The model demonstrated high **accuracy** and **reliability**, achieving an execution success rate above expectations.

Confidence scores confirm that the implemented rule effectively prevents deletion of active vehicle records, ensuring **data integrity** and **service consistency**.

This testing phase ensures that the system is **production-ready** and aligned with its intended objectives, reinforcing the solution's **robustness and efficiency**.