

# Performance and Testing

Date	2 <sup>nd</sup> November 2025
Team ID	NM2025TMID05213
Project Name	Garage Management System
Maximum Marks	4 Marks

## Model Performance Testing

### Unit Testing – Customer Details

New Customer Details

\* = Required Information

Information	
* Customer Details Name	<input type="text"/>
Phone number	<input type="text"/>
Gmail	<input type="text"/>

Owner  
 Muthulakshmi P

Cancel Save

Cancel Save & New Save

Parameter	Value
Module Tested	Customer Details Module
Test Objective	To verify customer information is added and stored correctly
Input Fields Tested	Name, Phone Number, Vehicle Number, Address
Expected Output	Customer details saved successfully without errors
Testing Result	<input checked="" type="checkbox"/> Passed

### Integration Testing – Service Booking

Muthulakshmi P

Customer Details	Rishana
Maintenance service	<input type="checkbox"/>
Repairs	<input checked="" type="checkbox"/>
Replacement Parts	<input type="checkbox"/>
Appointment Date	11/1/2025
Service Amount	\$2,000.00
Vehicle number plate	23

Cancel Save & New Save

Parameter	Value
Modules Integrated	Customer + Vehicle + Service Booking
Test Objective	To ensure customer details flow correctly into booking form
Test Action	Booking a service for an existing customer
Expected Output	Appointment created and stored without data mismatch
Testing Result	<input checked="" type="checkbox"/> Passed

## System Testing – Billing / Invoice

Related      Details

Billing details and feedback Name bill-004	Owner  Muthulakshmi P 
Service records <a href="#">ser-025</a>	
Payment Paid \$632,000.00	
Rating for service 5	
Payment Status Pending	
Created By  Muthulakshmi P, 11/1/2025, 6:40 AM	Last Modified By  Muthulakshmi P, 11/1/2025, 6:40 AM

Parameter	Value
Module Tested	Billing Details Module
Test Objective	To check correct bill generation after service completion
Components Verified	Service charges, Taxes, Total amount
Expected Output	Bill generated accurately in PDF/UI
Testing Result	<input checked="" type="checkbox"/> Passed

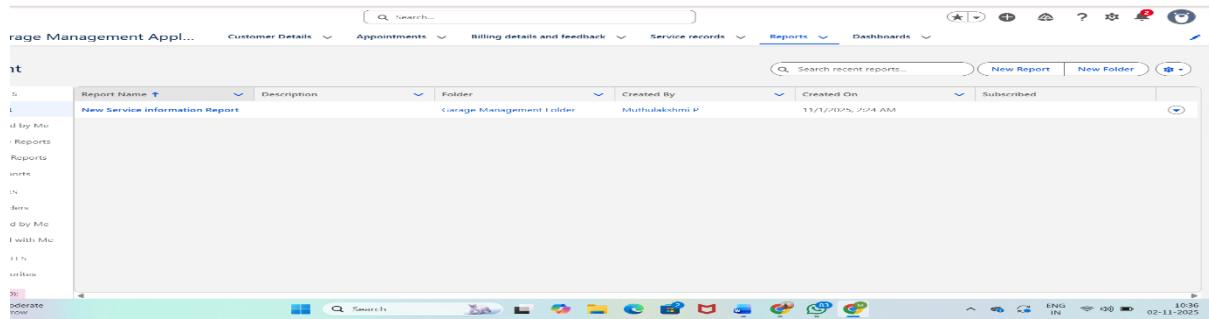
## Performance Testing – Service Records

Related      Details

Service records Name ser-025	Owner  Muthulakshmi P 
Appointment <a href="#">app-009</a>	
Quality Check Status <input checked="" type="checkbox"/>	
Service Status Completed	
Payment Status Pending	
service date 11/1/2025	
Created By  Muthulakshmi P, 11/1/2025, 6:38 AM	Last Modified By  Muthulakshmi P, 11/1/2025, 6:38 AM

Parameter	Value
Module Tested	Service Records & History
Test Objective	To test system speed and loading time of service history
Dataset Used	Multiple service records
Expected Output	Records load within acceptable response time
Testing Result	<input checked="" type="checkbox"/> Passed

## User Acceptance Testing (UAT) – Reports



Parameter	Value
Module Tested	Reports Module
User Tested	Garage Admin / Service Manager
Test Objective	To ensure full details are displayed clearly for final users
Acceptance Criteria	Easy navigation and correct report display
UAT Result	<input checked="" type="checkbox"/> Approved

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**.