Performance Testing Phase– Garage Management System

1. Introduction

- Performance testing ensures the Garage Management System (GMS) runs efficiently on Salesforce under normal and high loads.

- It checks **speed, scalability, and stability** during operations like record creation, automation, and reporting.

2. Objectives

- Verify smooth operation without slow responses or errors.

- Test speed of **Flows, Apex triggers, reports, and dashboards**.

- Ensure system handles multiple users and large data efficiently.

3. Key Test Scenarios

Scenario	Expected Result
Create 100+ records	Records save without delay.
Trigger Flow (payment update)	Email sent instantly.
Run Apex Trigger	Executes within limits.
Generate report	Loads within 3–5 seconds.
Open dashboard	Displays smoothly.
Multi-user access	No lag with 3 users.

4. Tools Used

- Salesforce Developer Console

- Performance Analyzer (Lightning)

- Debug Logs

- Data Import Wizard (for load test)

5. Test Results

- All modules (Appointments, Billing, Reports) performed within limits.

- Flows and triggers executed quickly and accurately.

- Reports and dashboards loaded in under 5 seconds.

6. Observations

- System is stable and responsive.

- Minor delays only during large data queries.

- Performance can be optimized with indexed fields and scheduled refreshes.

7. Conclusion

- GMS passed all performance tests successfully.

- The system is **fast, scalable, and reliable** in Salesforce.

- Ready for deployment and real-time garage operations.