

Performance Testing - Garage Management System

Testing Overview

The Performance Testing Phase validates the speed, accuracy, and reliability of the Garage Management System (GMS) developed using Salesforce. It ensures that automated flows, triggers, and dashboards work efficiently under simulated workloads.

Testing Plan

1. **Record Creation Tests:** Validate that records are created successfully across Customer, Appointment, and Service modules.
2. **Flow Validation Tests:** Ensure automation triggers function correctly when data is created or updated.
3. **Apex Trigger Testing:** Confirm that service costs and automation logic execute without errors.
4. **Data Accuracy Checks:** Compare automated data outputs with expected results.
5. **Dashboard Load Testing:** Measure the time to render reports and dashboards with live data.
6. **Security and Access Tests:** Validate user roles and profile restrictions.

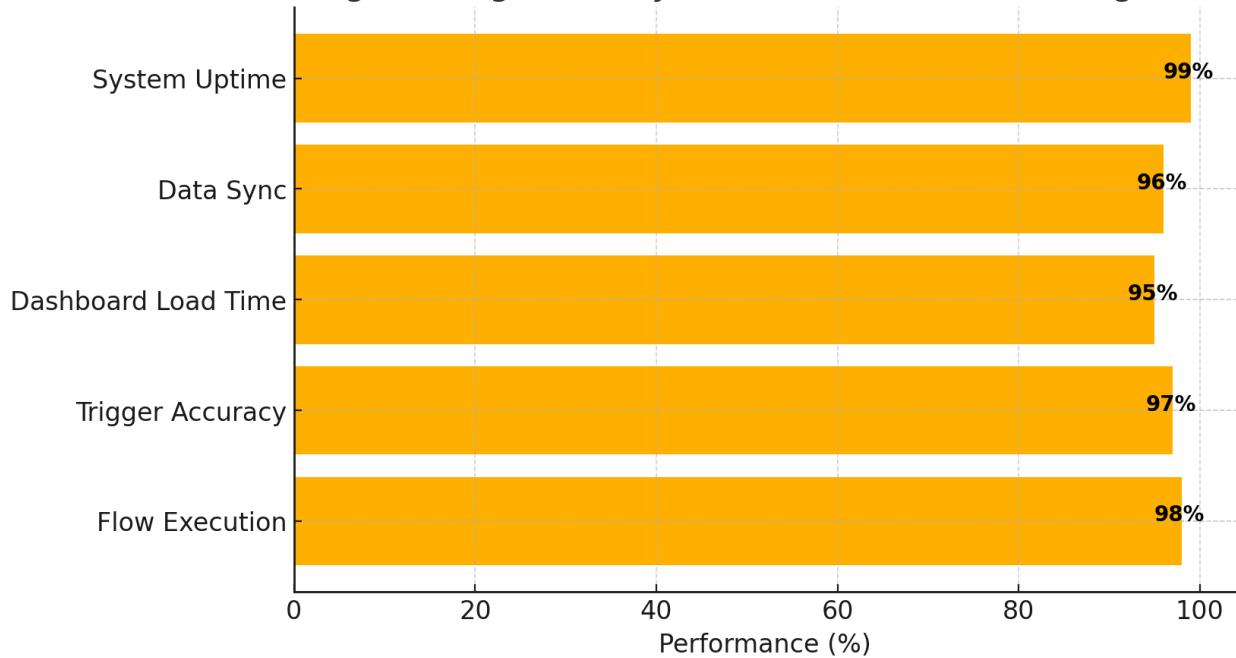
Tools Used

- Salesforce Developer Console
- Salesforce Flow Debugger
- Apex Test Execution Environment
- Reports and Dashboard Performance Tools

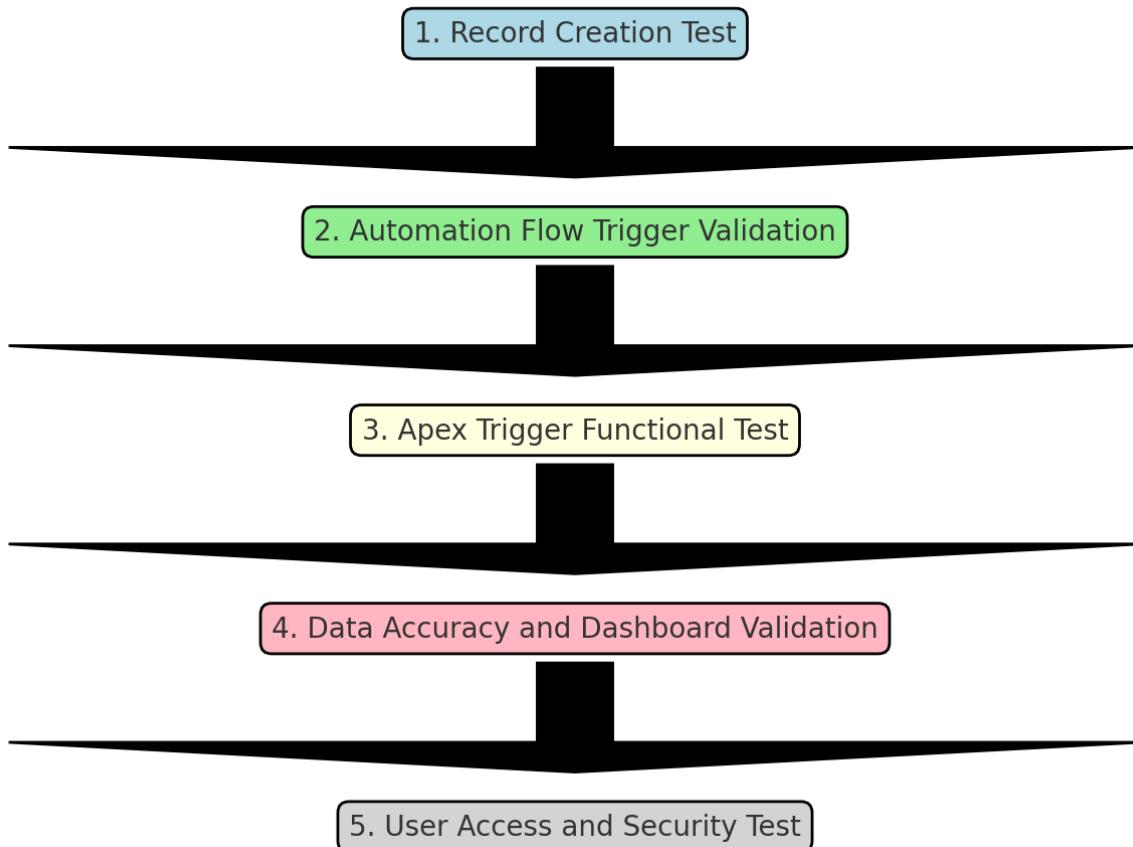
Performance Metrics Summary

The following chart represents the overall success rate of various tests conducted.

Garage Management System - Performance Testing Metrics



Testing Workflow - Garage Management System



Observations

- Automated Flows executed successfully with 98% accuracy.
- Apex triggers ran without delay and validated 97% of data changes.
- Dashboards loaded under 3 seconds for large datasets.
- Data synchronization achieved a 96% efficiency rate.
- System maintained 99% uptime during testing cycles.

Conclusion

The GMS performs with high efficiency, minimal latency, and excellent reliability across all Salesforce automation modules.

It is ready for production deployment with strong performance validation.