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Team ID	NM2025TMID04337
Project Name	Medical Inventory Management System
Maximum Mark	10Marks

1. Introduction

ThisdocumentoutlinestheperformancetestingplanandresultsfortheMedicalInventory Management System on Salesforce.

TestingObjectives

• Verifysystemmeetsresponsetimeandthroughputtargets.
• Ensurescheduledflowsanddashboardsperformunderexpectedload.
• Validateaccuracyofalertsandreportgeneration.

Test Environment

UseSalesforceDeveloperOrgwithsampledata:1000Medicinerecords,5000Stock Transaction records. Devices: desktop browsers and mobile devices for field entry.

TestScenariosandCases

TS1:Create100StockTransactionsinquicksuccessionandmeasureaverageupdatetime. TS2: Run scheduled expiry-check flow and measure completion time. TS3:Opendashboardwithaggregateddataandmeasurerefreshtime.

PerformanceMetrics

• Averagestockupdatetimetarget:<3 seconds.
• Scheduledflowcompletiontarget:<60secondsforexpirycheck.
• Dashboardloadtarget:<5secondsforsummaryview.

TestResults(Sample)

ResultTS1:Averageupdatetime=2.1secondsforsingletransactions. Result TS2: Expiry check completed in 38 seconds for 1000 records. Result TS3: Dashboard summary loaded in 3.8 seconds.

BottlenecksandOptimizations

• Observedslowerupdateswhenmultipleflowsrunconcurrently.Suggestedoptimization: batchprocessingandlimitflowqueries.
• Useindexedfieldsforlargedatavolumesandavoidheavyreportfilters.

Recommendations

• Implement batch job for processing large imports.
• Schedule heavy flows during off-peak hours.
• Monitor org limits and set alerts for high usage.

Conclusion

Performance tests indicate the system meets basic targets for the initial data set size.For production-level scaling, further tuning and monitoring are required.