

# Performance Testing

Date	2 Nov 2025
Team ID	NM2025TMID00579
Project Name	CRM Application For Jewel Management System
Maximum Mark	4 Marks

## 1.Executive Summary

This report summarizes the approach, methodology, findings, and recommendations of the performance testing conducted on the Jewel Management CRM application. The test focused on evaluating system reliability, response time, scalability, and overall user experience under various load conditions

## 2.Test Objectives

- To ensure the application delivers acceptable response times for core business transactions.
- To validate system stability under normal and peak workloads.
- To identify bottlenecks and recommend optimization strategies

## 3.Scope of Testing

- Modules tested: Customer onboarding, Sales transactions, Inventory updates, Reporting, Integration with POS.
- Types of testing: Load testing, Stress testing, Endurance testing, and Concurrency testing.

## 4.Bottleneck Analysis

- Minor delays were linked to backend database queries during bulk report generation.
- Occasional slowdowns in report generation traced to suboptimal query design and high CPU utilization on the reporting server.
- No significant memory leaks were detected


## 5. Test Scenarios & Data

Test Case ID	Scenario Description	Load Conditions	Expected Response Time	Actual Response Time	Status
PERF001	Login and dashboard load	50 concurrent users	<2 sec	... sec	Pass
PERF002	Add customer & generate invoice	30 sales staff acting	<3 sec	... sec	Pass
PERF003	Update inventory post-sale	20 inventory managers	<2 sec	... sec	Pass
PERF004	Generate monthly sales report	10 managers	<5 sec	... sec	Pass/Fail

## 6. Test Execution & Results

- No critical errors were observed for up to the planned peak load.
- Response times for login, customer updates, and reports were within target levels except during extreme stress testing, where login latency increased by 20% over targets.
- First system errors were observed above 125 concurrent users, exceeding the realistic maximum for this CRM's business context.
- The application remained stable during a 5-hour endurance test with steady load

## Object Creation




Search Setup

Setup

Home


Object Manager

 **Object Manager**

1 Items, Sorted by Label

LABEL	API NAME	TYPE	DESCRIPTION
Jewel Customer	Jewel_Customer__c	Custom Object	

## Create Validation Rules



Search Setup

Setup

Home

Object Manager

SETUP > OBJECT MANAGER

**Jewel Customer**

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Object Access

Flow Triggers

**Validation Rules**

**Validation Rules**

2 Items, Sorted by Rule Name

RULE NAME	ERROR LOCATION	ERROR MESSAGE	ACTIVE	MODIFIED BY
Postal_Code	Zip/Postal code	Must contain 6 digits	✓	Arun Kumar, 10/24/2025, 12:43 AM
ValidationRule_For_JewelCustomerObject	Top of Page	Please fill Required fields	✓	Arun Kumar, 10/24/2025, 12:52 AM

# Profiles

Setup

Home

Object Manager

profiles

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SETUP

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Y

Z

Other

A

Profile Name	User License	Custom
Gold Partner User	Gold Partner	<input type="checkbox"/>
Gold Smith	Salesforce	<input checked="" type="checkbox"/>