6. FUNCTIONAL AND PERFORMANCE TESTING

6.1 Functional Testing

Functional testing ensures that each feature of the Lease Management system performs as intended. Below are the key functional test scenarios:

Test Case ID	Test Scenario	Expected Result	Status
TC-001	Create a new Tenant record	Tenant record is created and visible in list view	✓ Passed
TC-002	Link a Lease to a Property and Tenant	Lease record links correctly to both	✓ Passed
TC-003	Trigger Lease Approval Process	Approval email sent to manager, status set to Pending	✓ Passed
TC-004	Approve a Lease	Status updates to "Approved", flows are triggered	✓ Passed
TC-005	Generate Payment record monthly	Payment record auto-created before due date	✓ Passed
TC-006	Send rent reminder email	Email received by tenant 3 days before due date	✓ Passed
TC-007	Lease expiry alert	Notification sent 7 days before lease end	✓ Passed
TC-008	Dashboard loads payment report	Correct payment data visible in dashboard	✓ Passed
TC-009	Validation rule on empty lease field	Error message shown if required fields are empty	✓ Passed

6.2 Performance Testing

Performance testing ensures the system responds efficiently under expected usage conditions.

Test Type	Scenario	Expected Result	Status
Load Testing	Load dashboard with 1000+ lease records	Loads within 3 seconds	✓ Passed
Flow Execution	Trigger rent reminder flow for 100 tenants	Emails sent within 1 minute	✓ Passed
Approval Workflow	Process 50 lease approvals in sequence	All processed within 2 minutes	✓ Passed
Record Creation	Bulk import 500 tenants via Data Loader	All records imported successfully	✓ Passed

Test Type	Scenario	Expected Result	Status
Dashboard Refresh	Refresh lease summary dashboard	Refresh completed under 5 seconds	✓ Passed

6.3 Testing Tools Used

- **Salesforce Developer Console** – For debug logs and Apex test execution
- **Data Loader** – To bulk create records for testing
- **Flow Debugger** – To trace flow paths and variables
- **Manual UI Testing** – To verify field visibility, tab layouts, and record behavior
- **Email Logs** – For tracking approval and reminder email delivery