RenewSure – Smart Contract Renewal & Expiry Management System.

Phase 5 – Automation & Apex Development (Completion Report)

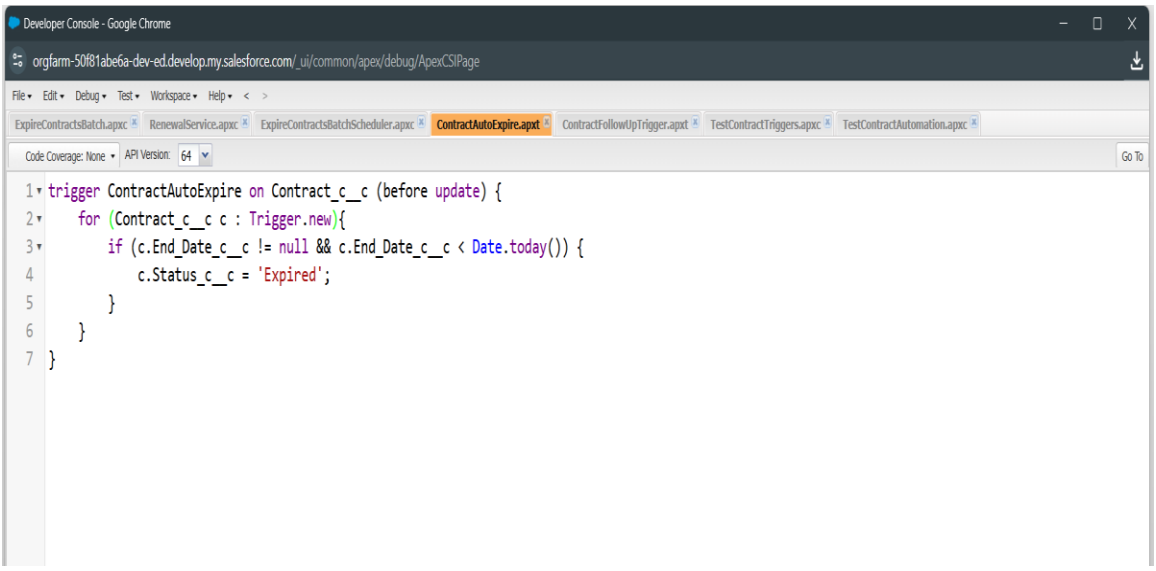
This document summarizes the completion of Phase 5 of the Salesforce RenewSure – Contract Expiry & Renewal Tracker project. It includes the Apex automation development, test classes, and verification with screenshots.

Phase 5 Objectives

- ✅ Contract Auto-Expire Logic → Auto-mark contracts as expired when End Date passes.
- ✅ Batch Class → Handle contracts in bulk with scheduler.
- ✅ Renewal Service → Logic to create and calculate renewals.
- ✅ Scheduler Class → Automate batch runs daily.
- ✅ Test Classes → Ensure 75%+ coverage.

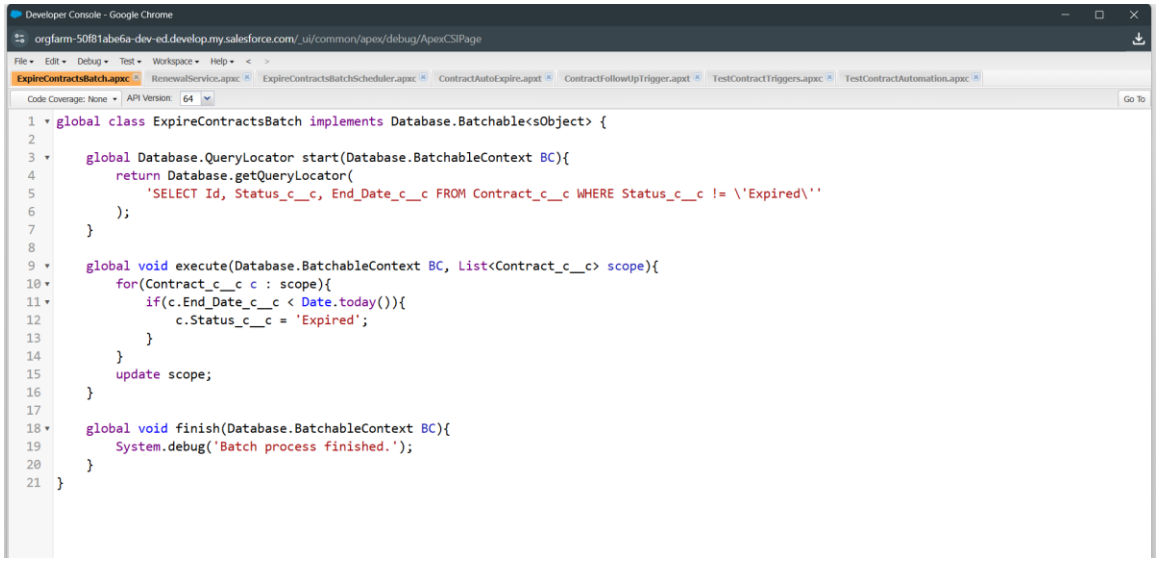
Step 5.1 – Contract Auto Expire Trigger

Trigger automatically checks contracts whose End Date < TODAY() and updates Status__c = 'Expired'.



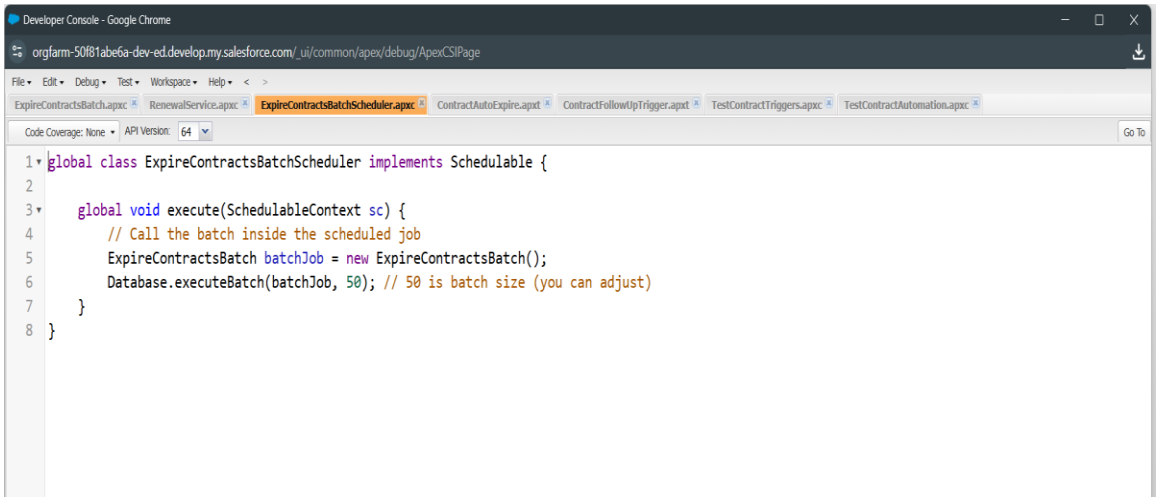
Step 5.2 – Batch Class

ExpireContractsBatch created to handle bulk contracts. Runs daily to expire contracts past their end date.



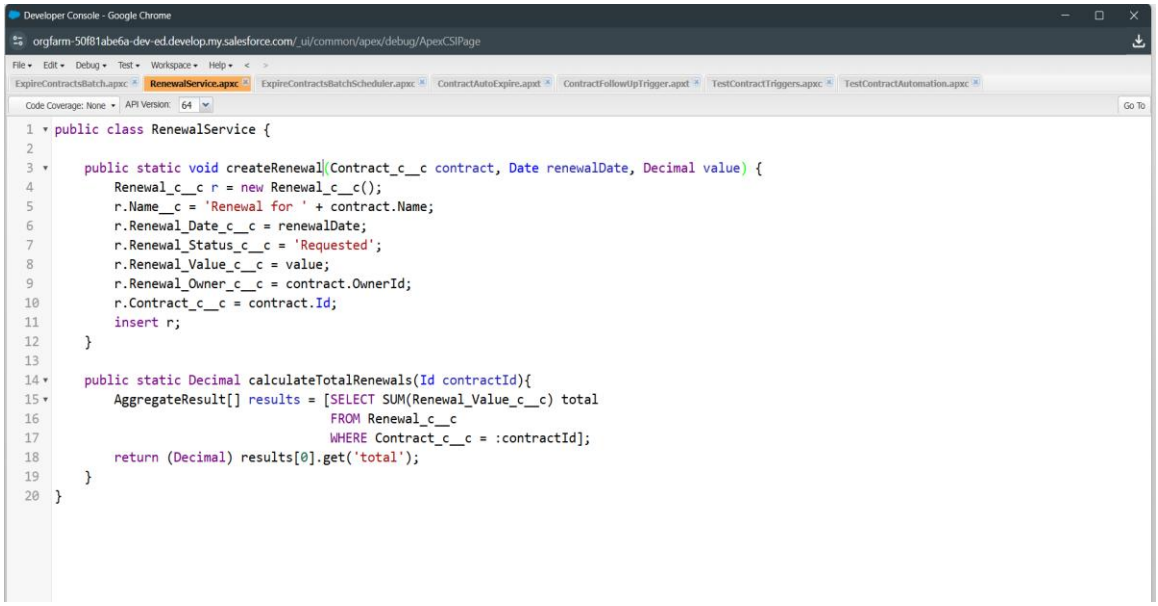
Step 5.3 – Batch Scheduler

Scheduler runs batch job daily at midnight.



Step 5.4 – Renewal Service

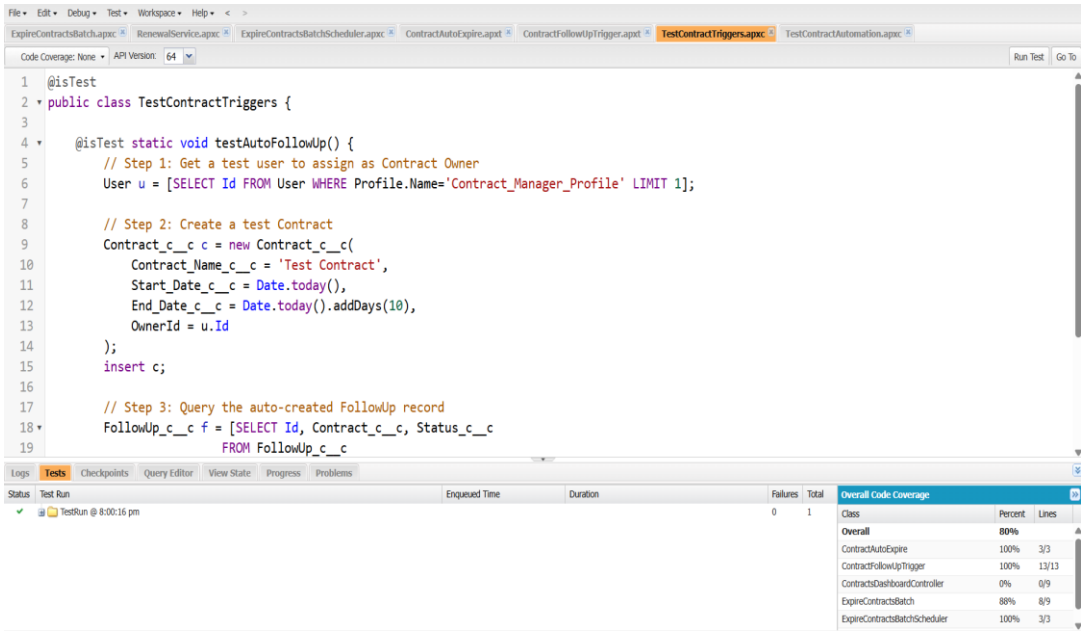
Handles renewal creation and total value calculation.



Step 5.5 – Apex Test Classes

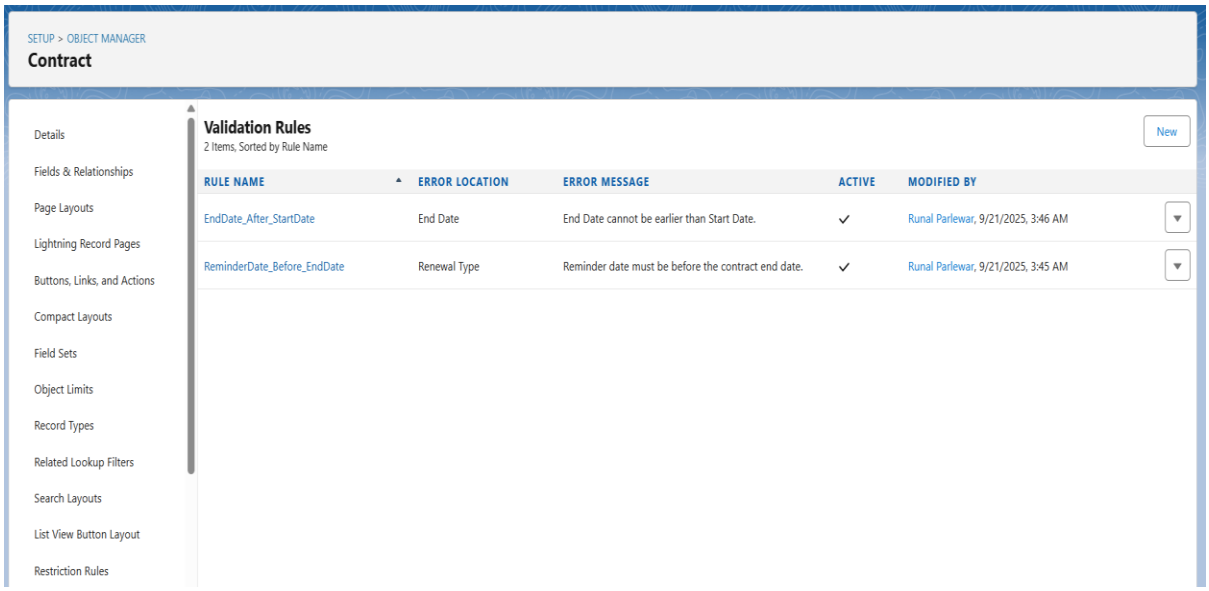
Created test classes for: ContractAutoExpire, ExpireContractsBatch, ExpireContractBatchScheduler, RenewalService.

Code coverage achieved: 80%.



Step 5.6 – Validation

• Created sample contracts with End Date in past → status updated to Expired.
• Created renewals manually and via RenewalService → totals calculated correctly.
• Scheduler executed batch at midnight → verified logs.



Phase 5 Completed Successfully

All automation and Apex logic are now working with successful test execution. The system can now auto-expire contracts, create renewals, and ensure everything is covered with unit tests for deployment.