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The Mindful IT Company
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Large Scale Test Automation using Selenium for Higher Education Provider

BUSINESS REQUIREMENTS

Create a comprehensive, maintainable, enterprise level Automation Suite for web based Learning Management System

Improve product quality by automating all backlog/ regression test cases. Integrate with Jenkins for supporting CI

Script Execution Support for IE, Firefox, Chrome & Independent data cleanup

OUR SOLUTIONS

Use of Open Source Tool- Selenium

Agile methodology with 4 weeks sprint

SONAR implemented for code violations, adherence to standards

TOOLS/ TECHNOLOGIES

Test link for test management, Selenium for UI test automation

Jenkins for CI, Git/ Stash for code management

SONAR for Code violations, Redmine for Task tracking

BUSINESS IMPACT

5000 test cases were validated and updated as per the recent version of the product
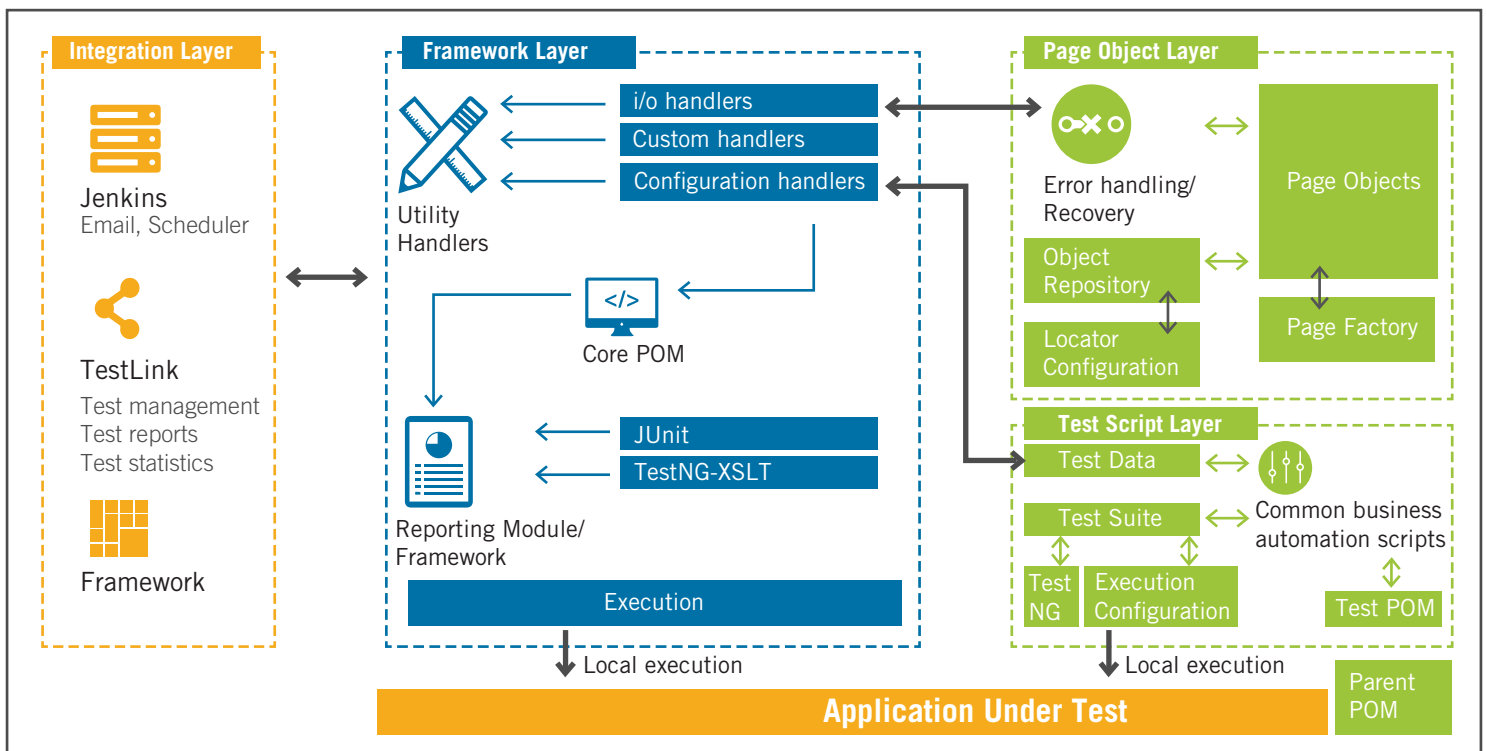
Automation accelerated the time to market and caught bugs at a very early stage

Test suite covering all regression scenarios. Additional cases can be easily added to the suite

ARCHITECTURE/ INTERFACE DIAGRAM

Integration Layer

Jenkins
Email, Scheduler

TestLink
Test management
Test reports
Test statistics

Framework

Framework Layer

i/o handlers
Custom handlers
Configuration handlers

Utility Handlers

Core POM

JUnit
TestNG-XSLT

Reporting Module/ Framework

Execution

Local execution

Page Object Layer

Error handling/ Recovery

Object Repository

Locator Configuration

Page Objects

Page Factory

Test Script Layer

Test Data

Test Suite

Common business automation scripts

Test NG | Execution Configuration

Test POM

Local execution

Parent POM

Application Under Test

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