happiest minds
The Mindful IT Company
Born Digital . Born Agile

Customer Experience Analytics Solution for Leading TEM

BUSINESS REQUIREMENTS

Build a dynamic Customer Experience Analytics dashboard with rich UI components like High Charts, Google Maps and other Java Script libraries

UI automation which involves interactions with the application and provide intelligent analytics

Cut the test execution time from 12 weeks to less than a day through automation and parallel execution

OUR SOLUTIONS

Delivered Happiest Minds Selenium++ Framework with enhancements

Enhanced the IP to address the rich UI automation challenges by using CSS, SVG location techniques and Advanced action chaining with WebDriver

Engineered Big Data platform using Hadoop / Hive

TOOLS/ TECHNOLOGIES

Selenium Web Driver, Java for automation

Hadoop, Storm, Hive as Big Data Platform

Sonar, Jenkins, Grid as CI tools

BUSINESS IMPACT

Grid implementation enables parallel execution and has reduced the time of execution to 3-4 hours allowing early failure detection
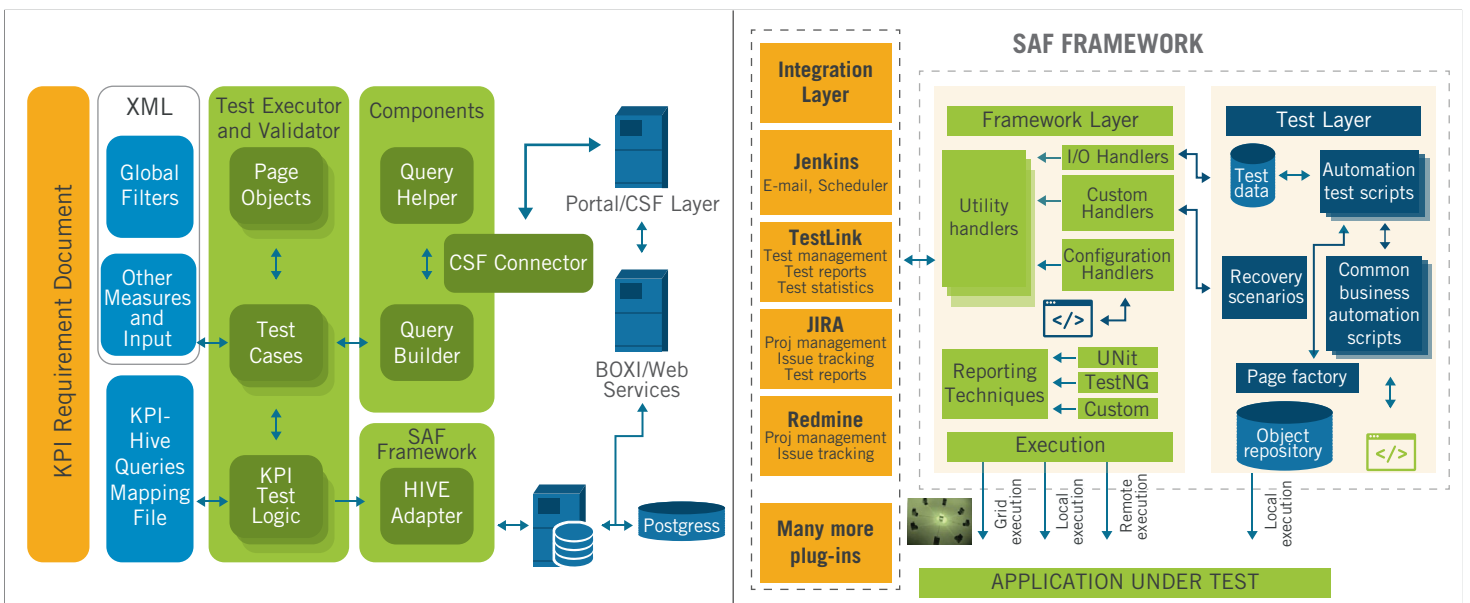
Freed up bandwidth of the test engineers by reducing the complexity of writing new test cases through abstraction

Delivery of a scalable, extensible and abstracted platform for future automation needs

SOLUTION OVERVIEW

KPI Requirement Document

XML
- Global Filters
- Other Measures and Input
- KPI-Hive Queries Mapping File

Test Executor and Validator
- Page Objects
- Test Cases
- KPI Test Logic

Components
- Query Helper
- CSF Connector
- Query Builder
- SAF Framework
- HIVE Adapter

Portal/CSF Layer

BOXI/Web Services

Postgress

SAF FRAMEWORK

Integration Layer

Jenkins — E-mail, Scheduler

TestLink — Test management, Test reports, Test statistics

JIRA — Proj management, Issue tracking, Test reports

Redmine — Proj management, Issue tracking

Many more plug-ins

Framework Layer
- Utility handlers
- I/O Handlers
- Custom Handlers
- Configuration Handlers
- Reporting Techniques
  - UNit
  - TestNG
  - Custom
- Execution

Test Layer
- Test data
- Automation test scripts
- Recovery scenarios
- Common business automation scripts
- Page factory
- Object repository

Grid execution / Local execution / Remote execution

Local execution

APPLICATION UNDER TEST

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