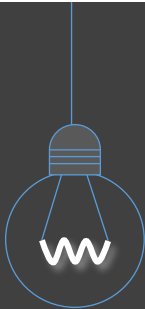


Functional Testing Service

We validate the functionality of the Application, API/Microservices, Data Integration, and Data Migration after a thorough analysis of the functional specifications and user stories. These test activities and deliverables will be aligned with your project cycle (Agile, Waterfall, or Hybrid SDLC).

Our SDETs (Software Development Engineers in Tests) will be embedded in the Scrums & PODs to work closely with Developers and Business Analysts. They implement the Test-Driven Development, Behavior Driven Development philosophies in the project, maximizing the automation potential for the functional tests leveraging the latest test automation tools. They apply the suitable testing techniques, optimize the positive and negative tests, and achieve the targeted test coverage of the items under test.

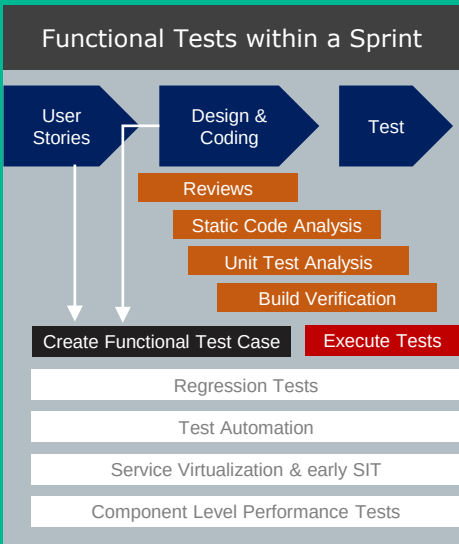
Our SDETs are trained in industry-leading Agile Modeling tools such as Conformiq™, Agile Requirements Designer™ (Broadcom) that will create the Functional Test cases from the models. This approach helps in reducing the Test Design efforts (usually about 25-30% of the overall test efforts), reducing the test design cycle time (about 20% of the schedule), and most importantly, helps to do impact analysis of the changes in User Stories at the click of few buttons. So, the creation of the regression testing suite is done in a few minutes as opposed to a few hours.



Key Activities



- Analysis of the functional specifications, user stories, system design
- Develop a Test Strategy, Estimate Functional Test Efforts, Create Functional Test Project Plan
- Create the Functional Test Cases and Automation Scripts, Complete the Review/Sign-off
- Execute the Functional Tests (manual and automated), log the defects, re-test the item after the fix
- Prepare the regression test suite & identify the automatable tests (automate them in next sprint)
- Execute early SIT and component-level performance tests (from previous sprints)
- Provide daily, weekly status on the progress of the Functional Test activities, with agreed metrics



Post Sprint
Test Coordination



What is new?

- SDETs/Dev-Testers driving the tests, finding defects early
- Model the User Stories and automatically create the functional test cases to achieve 100% coverage, faster impact analysis upon changes in the User Stories & adjusts tests accordingly
- Testing activities are digitized - view test status and progress in real-time. 'Real-Time-Dashboard' provides the latest status on 'Requirements Trace & Test Coverage', Test Progress, Test Pass/Fail Status, Defect Statistics, and Test Productivity
- All relevant information required to test the application is made available via confluence or MediaWiki

System Integration Testing Service



IT releases often require changes to be done in multiple applications and platforms. System integration poses various challenges as multiple technologies and a variety of data need to co-exist. The integration testing is the most critical part of the test phases as it requires the Quality Engineers to know - Testing, Business Domain, System Architecture & Data Flow, Test Automation.

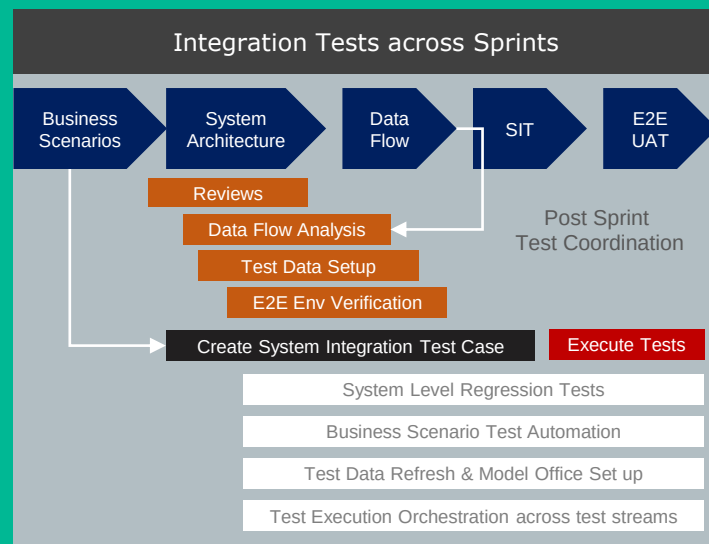
Senior Test Leads coordinate the impact analysis of the applications and systems that are modified for the Program. They work with respective Test Leads of the impacted applications (including the third-party systems) to prioritize and orchestrate the System Integration Tests and stabilize the system for UAT.

Our Test Leads will coordinate with multiple workstreams that are involved in the project, engage the test teams to test the integration of applications to verify the desired business flow. They develop a test strategy and overall test plan to certify the subsystems to be ready for User Acceptance Tests. They work closely with Project Managers, Development Leads, Developers, Business Analysts of the applications to perform the integrated tests, maximizing the reuse of tests and test automation, effectively orchestrating and prioritizing the tests. Our leads are well experienced in handling complex testing projects, apply the quality engineering practices, build the phased approach for iterative testing of the integrated systems, including third-party systems. They engage with the stakeholders responsible for the test data & environment set up, which are critical for the success of the system integration tests.

Key Activities



- Analysis of the business workflow scenarios, system design, user & system actions, and data flow
- Develop a Test Strategy, Estimate Test Efforts, Create Integration Test Project Plan
- Create the Integration Test Cases and Automation Scripts, Complete the Review/Sign-off
- Set up the Test Data, coordinate to set up the End-To-End integration of the test environment
- Execute the System Integration Tests (manual and automated), log the defects, re-test the system components after the fix
- Provide daily, weekly status on the progress of the Integration Test activities, with agreed metrics



What is new?

- We work closely with the Business Analysts across various lines of business and capture the knowledge of the core business systems. With this knowledge, we build an inventory of End-To-End key business workflow scenarios and the test data required to execute them & develop End-To-End Test Automation for the key business workflow scenarios.
- Implement "Test Orchestration" process to encourage the right collaboration of various testing streams within the program. This will break silos in tests, maximize the reuse of test assets, avoid conflicts in Test data and Test Environment.
- Build utilities to proactively find issues in system integration and the availability of referentially intact test data across the applications from various business units