

Testing Methodology – Seasia

By

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Overview

Seasia is a CMMI Level – III Software Development Company with our software development centre in India. We are very much competitively priced as per the market. Seasia Consulting is providing services and delivery of Software Solutions for the past one decade. We have a long history of providing on-time and on – budget solutions in various domains like Health Care, Child Care, e-Governance, mobile applications development and many more for various clients. We have a team of over 250 highly talented and experienced software professionals which includes a 20 + test engineers who have strong experience in Quality Assurance and Quality Control.

Test Strategy

➤ Our Goals to Test

- To deliver a quality product.
- To test the compliance of the product with the requirements.
- To test all features of the product.
- To make product bug free.
- To deliver a user friendly product.
- To cover risk of product not performing at client's environment.
- Test to deliver a robust product which performs well on various environments.

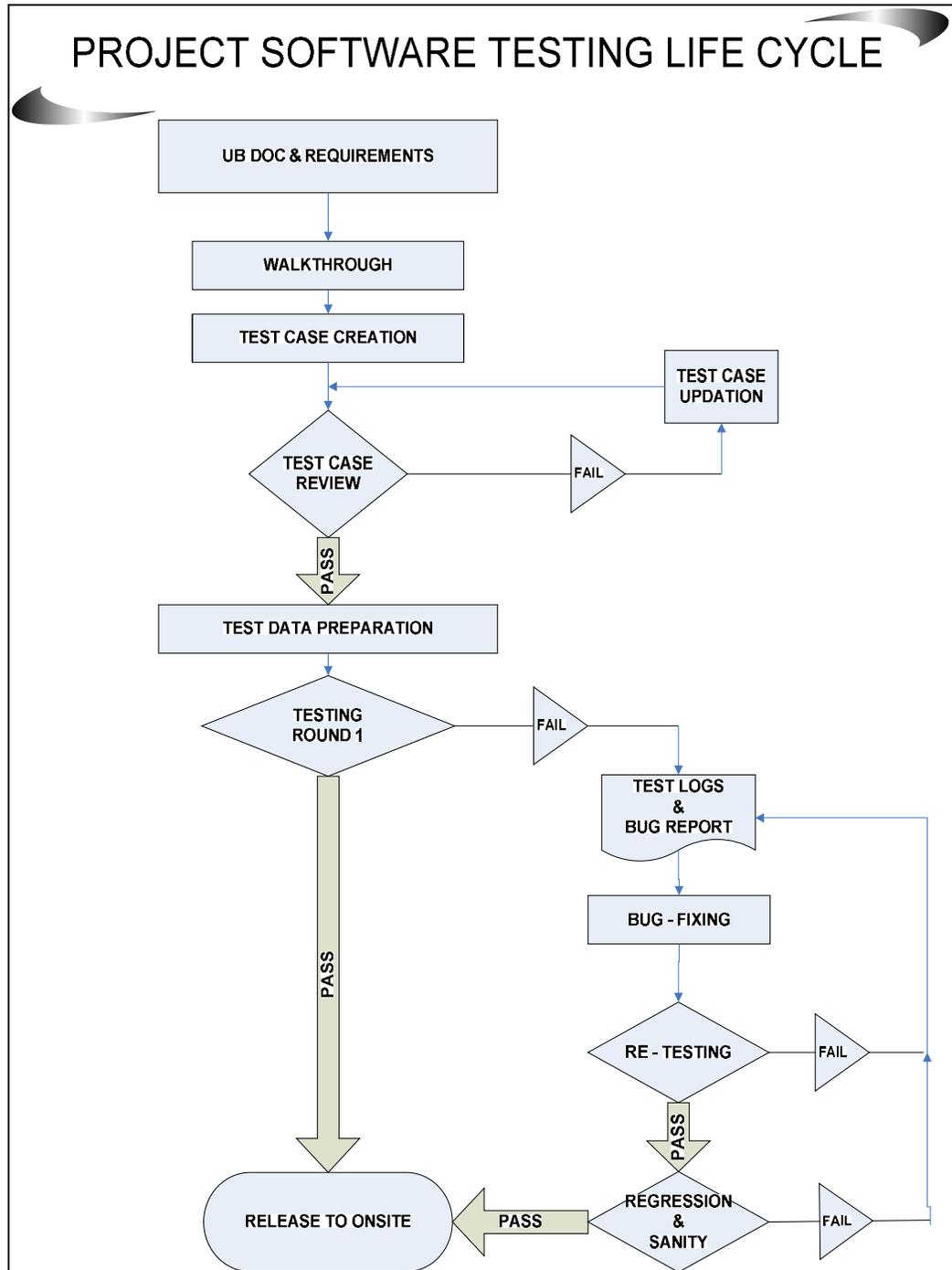
➤ Seasia's Approach for Testing:

Seasia follows Scrum Model for its product's testing.

SCRUM IN GENERAL



➤ Testing Life Cycle



➤ Methodologies for Web Testing

- ✓ Functional Testing: to test the functionalities of website as per the requirements.
- ✓ Regression Testing: to test the code changes and bug fixes done on every release.
- ✓ Security Testing: to test that the website is secure and simultaneously user activities can be managed properly.
- ✓ Cross Browser Testing: to test the product on different available browsers.
- ✓ End to End Testing: End to end scenarios is tested to ensure completeness.
- ✓ Usability Testing: to test the ease of use of website from end user perspective.
- ✓ Performance Testing: to test the performance of the website under heavy loads.
- ✓ Multiuser Testing: to test the website with multiple user logged on.
- ✓ Automation Testing: to save time, resources and cost to retest the product.

➤ Testing Activities

- ✓ Analysis of requirements: We first start with the analysis of the client requirements.
- ✓ Test plan creation: After analyzing the requirements we create test plan.
- ✓ Test cases creation: Testers starts creating the test cases as per the functionalities.
- ✓ Execution of test cases: Once test cases are ready and build is available testers starts executing the prepared test cases.
- ✓ Execution of client scenarios: Testers executes the client scenarios and Out of Box scenarios.
- ✓ Reporting of issues: Testers reports the issues found during testing.
- ✓ Publishing various reports: Reports like Issues found in release, No. of test cases executed in release, Build health, Build acceptance, Traceability matrix etc are published.
- ✓ Regression cycle: Testers verifies the issues fixed and side effects.

➤ RTM – Requirement Traceability Matrix

A traceability matrix is a document, usually in the form of a table, which correlates any two base lined documents that require a many to many relationship to determine the

completeness of the relationship. It is customized as per the chosen process in the organization.

➤ Test Environment for Web Testing

- Operating System:
 - ✓ Windows XP (sp3)
 - ✓ Windows 7
 - ✓ Macintosh OSX 10.6 (Snow Leopard)

- Browsers:
 - ✓ Internet Explorer 8.0
 - ✓ Safari 5.0
 - ✓ Opera 10.63
 - ✓ Firefox 3.6.12

➤ Tools used for Web Testing



<http://www.mantisbt.org/>

MantisBT is a free popular web-based Bug Tracking System (feature list). It is written in the PHP scripting language and works with MySQL, MS SQL, and PostgreSQL databases and a webserver. MantisBT has been installed on Windows, Linux, Mac OS, OS/2, and others. Almost any web browser should be able to function as a client. It is released under the terms of the GNU General Public License (GPL). The latest stable version is 1.2.3.



<http://seleniumhq.org/>

Selenium is a robust set of tools that supports rapid development of Test Automation for web-based applications. Selenium provides a rich set of testing functions specifically geared to the needs of testing of a web application. These operations are highly flexible, allowing many options for locating UI elements and comparing expected test results against actual application behavior. One of Selenium's key features is the support for executing one's tests on multiple browser platforms.

➤ Seasia's Past Experience in Web Testing

JCLarety

The software application is developed by HP for the Department of Public Employees Retirement System (PERS) of the Oregon (OR) and Nebraska (NE) state of USA. The application can be used to automate common functions within public retirement systems, including enrollment, benefit payments, benefit estimates, customer services and service credit purchases. It is an optimum solution for organizations looking to replace their retirement administrative systems with a packaged, browser-based solution.

Testing Activities Performed:

Test plan creation, Test case creation, Execution of test cases, reporting of issues, Regression Cycle, Publishing Reports. Security Testing, Cross Browser Testing, End to End Testing, Multiuser Testing.

Environment:

JAVA (JDK 1.5), RAD, IBM Websphere 6.0, MS SQL Server 2005

CCMS

Seasia Consulting has been providing software development and services to child care administration agencies in public sector. Our expertise in the development and maintenance of Child Care Management Systems has resulted in successful implementation of projects across various US states. The child care management information systems are designed to automate various functions of subsidized child care services sponsored by local or state government agencies.

Testing Activities Performed:

Test plan creation, Test case creation, Execution of test cases, reporting of issues, Regression Cycle, Publishing Reports. Database testing, Regression testing, Performance testing, End to End Testing.

Environment:

ASP .Net 2008, Oracle 10g, Telerik, WCSF.

DMV

The Texas Department of Motor Vehicles (TxDMV) is responsible for vehicle registration and titling, issuing motor carrier operating authority, motor carrier enforcement, licensing vehicle dealers, and awarding law enforcement agencies grants to reduce auto theft and increase public awareness. DMV also provides information when the vehicle you bought turns out to be a lemon or when a moving company improperly handles your household goods. We'll also help you remove your liability when you sell a vehicle.

Testing Activities Performed:

Test plan creation, Test case creation, Execution of test cases, reporting of issues, Regression Cycle, Publishing Reports. Automation testing, Security Testing, Cross Browser Testing, End to End Testing and Multiuser Testing.

Environment:

ASP .Net 2.0, SQL Server 2008, Paypal integration, Third party interfaces integration.

WOOSPER

The Woosper social network is the best way to express yourself by sharing your thoughts, photos, and more with friends, family, coworkers, or acquaintances. It is an online community designed to stimulate your social life, establish connections, and explore the web. Woosper provides Global search, Connect with friends, Content sharing, Updates notification, Profile page and Bucket (where user can drag and drop images).

Testing Activities Performed:

Test plan creation, Test case creation, Execution of test cases, reporting of issues, Regression Cycle, Publishing Reports. Security Testing, Cross Browser Testing, End to End Testing, Multiuser Testing.

Environment:

JAVA (JDK 1.5), RAD, IBM Websphere 6.0, MS SQL Server 2005

REO

REO Agents Network is the largest network of REO agents and brokers, asset managers, appraisers, foreclosures attorneys, contractors, inspectors, escrows, title companies, and REO vendors. REO network spans 50 states. REO also provides fast agents search and results with the google map integration.

Testing Activities Performed:

Test case creation, Execution of test cases, reporting of issues, Regression Cycle and Publishing Reports. AdHoc testing, Cross Browser Testing, End to End Testing, Database testing.

Environment:

ASP .Net 2.0, MySQL, Google Maps integration, Paypal integration

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