**Agile Test Management with Tricentis qTest**

Management is very essential to streamline the process at work. With the evolution of industrial era, the process of managing has taken a whole 360 degree dimensional change to help with sublime process design to experience the surreal results. In a similar fashion in the domain of software testing the test management process has been adopted

In a nutshell the objectives of a management are

* Organize/ plan the work
* Assign the tasks to the individuals in respective teams
* Track the work closely and bringing them to the closure in a stipulated time span.

**What is test management tool?**

As we all aware that software testing is a process of validating a software system in order to ensure it performs its intended functionality and be bug free, in the goal of validation the testing process adopts the desired sophisticated techniques to ensure we deem ad deliver the product into the market with enough confidence.

The test management principles should be defined in a more realistic and clinical way, to help with managing the activities. Some of the objectives of the test management tool are

**Objectives of test management tools:**

1. Create a project and defining all the needed work items
2. Create test cases and steps and executing them in different environments
3. Assigning the task and tracking the status of each work item
4. Consolidation of the test results and preparation of dashboards
5. And integration with continuous testing tools

Given the major goals of the process at a high level, it always difficult and cumbersome to track them manually as it takes humongous effort. Thanks to the test management tool, with emerge of these tools we are able to track the changes.

**Agile work model and the test management tool integration**

Agile is one of the very rapidly used SDLC. As we understand in agile we target to achieve things in smaller iterations (sprints), getting the early feedback and being able to bring in the collaborative support from all the teams. The test management tools such as qTest (in this case), will be of more use when we are in agile work model, as the process expects a close interaction between the professionals and track of work items on a daily basis and the tool matches the expectations.

**Tricentis qtest**

We have quite a few test management tools available in the market. Among them the tool that is discoursed is Tricentis qtest which is considered to be one of the best tools and is discoursed here.

**Features of Tricentis**

**Create a project and work items**

qTest facilitates an easy way to create a project to start tracking the things. Also it lets create a work item such as test plans, test suite, users, test steps, task, bug, release..etc. we can even add the build sets to capture the information related to a particular build or release and manage them easily. We can even map the requirements for a specific release.

**On the fly test case creation and upload**

We can create the test cases and map them to the requirements also we can specify the repository of the test cases. Test steps can be created with in the qTest portal, also if we want upload bulk of test cases we can upload from an excel workbook. While uploading from the external source we need to ensure that we are matching the column names very accurately for hassle free mapping

**Test Execution**

After creation of test cases, we can execute the test cases for run. By clicking on the add runs button we can pick the test cases from repository and execute them with the quick run feature. We can even update the status for the multiple test cases and save them once.

**qTest explorer**

qTest explorer is an external application that can be downloaded, this helps us during the session testing, it helps us to capture the screens, key strokes, can record the test data and automatic bug creation based on failure functionality, these defects can be tracked from the defects tab. All the recorded tests can be seen on session tab in qTest portal

**Powerful reporting & dashboards**

qTest has powerful dashboards which can be show cased to the business stakeholders, these reports can be customized as per the project need .

**Insights**

Insights helps us drawing the dependencies of the application of the application to understand what area of the application has been tested and what is pending still, this is pretty useful for measuring the test coverage.

**Integration with project management tool**

qTest can easily be integrated with the project management tool such as Jira. This integration helps us to track the status of user stories and bugs created in the JIRA. We can also upload the associate test cases in jira using this plugin

**Automation support**

qTest supports automation execution of test cases. We can record the test case while running also can capture the screenshots. After the run if we re-play the recorded test we can extract that as a selenium tests. We can have those script generation support different programming languages

**Integration with CI/CD**

qTest can be integrated with Bamboo for continuous integration tool for automatic test trigger basis the cron job set.

**Why qtest tops the notch over other tools**

There were quite a few tools for test management are available in the market, although qTest has some features which makes it distinguished. Below mentioned are some key features

**Automation support**- test automation is vital for to test any software application given its ROI, qTest supports the selenium framework integration and it gives readymade test scripts in different programming languages. This is one of the best and reliable features

**Integration with continuous integration and continuous deployment tools**, this is essential to achieve continuous testing

**Insights** are a beautiful feature in the qTest .By looking at the nodes we can specify what has been tested and what is still pending therefore the test coverage is measured.