New Test Case Automation Workflow

Ready for Scripter

- You can pick any test case that has the status **Ready for Scripter** in QAI using List Builder**.**
- You can also follow up with QA Lead to know if there are any high priority test case to be automated.

In Progress

- Create a test case in Tellus Test Manager(Now the status will be set to **In Progress**).
- Execute the test case manually to see if it is feasible for automation.
  - If it is not feasible:
    - Prepare the document of what can be automated and what can not be with reasons and share with QA lead.
    - Request QA Lead to update the test case if there are any automation specific issues. Set the status to **Needs Analyst Review** if it will take more than a day.
    - If analyst decide that the functionality can not be removed, move the test case to **Won't Automate.**
- Make sure that all the functionality covered in the test case have QA Attributes added.
  - If QA Attributes are not added request for them/add them your self based on the understanding with your app engineer and continue with automation.
- If you see any bug in the application, file bug RPD. Follow up with QA Lead to add that RPD as Known Issue to the test step and start scripting(Do not change the status to Needs Analyst Review in this case even if you don't start scripting because of the bug).
  - In this case you have to write the script to pass with the buggy behavior. After the bug is fixed the script will fail so that we can update script at that time.
- Complete the scripting for the test case.

In Staging

- **Before Moving to In Staging:**
  - Review the script to verify if all the functionality mentioned in test case is covered. Code reviews works as just double checking but before code review verify the script to make sure the test coverage.
  - Test the script in Focal point VMs to check the environmental latency issues.
- Submit the script to Perforce and change the status in TTM(Tellus Test Manager) to **In Staging** by giving the perforce path.
- Test the script in TellusDev.
- If you updated any utilities/pageobject files make sure the existing scripts that uses those utilities doesn't broke.

In Production

- After the test passed in TellusDev environment request your Team Lead to merge the changes to Production and change the status in TTM to In Production.
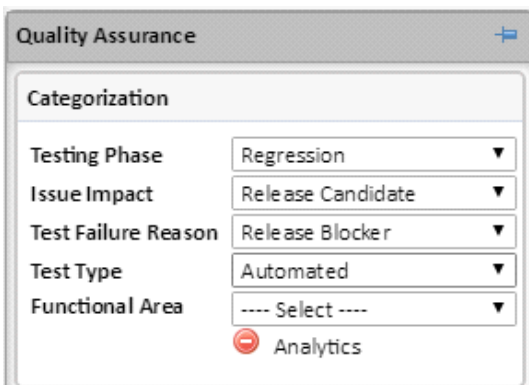- Inform QA Lead to add the test case to CRON and remove it from manual test case list.
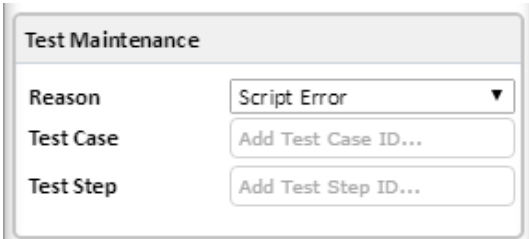
RPD status for Script Error - Online

Tuesday, March 22, 2016   10:27 PM

Usually regression tester will file any test FAIL(which is not replicable manually) as an issue with the script, but there might be chances that the actual reason might not a script issues and still scripter need to update the script for various reasons. Following document will help scripter to maintain appropriate RPD types for various types of failures.

Script Fail Reason: Script Issue

- ○ RPD Type: Bug
- ○ Product: Test Case Request
- ○ Resolution Type: App/Code Engineering Fix
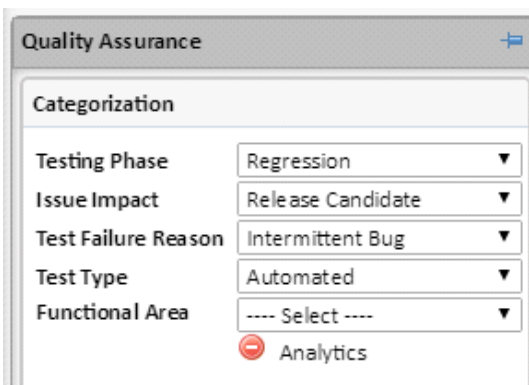- ○ Other information:

  ○

Quality Assurance	⊟
Categorization	
Testing Phase	Regression ▼
Issue Impact	Release Candidate ▼
Test Failure Reason	Release Blocker ▼
Test Type	Automated ▼
Functional Area	---- Select ---- ▼
	⊖ Analytics

  ○

Test Maintenance	
Reason	Script Error ▼
Test Case	Add Test Case ID...
Test Step	Add Test Step ID...

Script Fail Reason: Intermittent Issue with Application

If no Script Update it required

- ○ RPD Type: Bug
- ○ Product: App QA Automation(Bug found by <Functional group name>), Application product(ex: PA3)
- ○ Resolution Type: Engineer will select the type based on his fix.
- ○ Other information:

  ○

Quality Assurance	⊟
Categorization	
Testing Phase	Regression ▼
Issue Impact	Release Candidate ▼
Test Failure Reason	Intermittent Bug ▼
Test Type	Automated ▼
Functional Area	---- Select ---- ▼
	⊖ Analytics

If Script Update it required(such as improve logging for better tracking of the bug)
- RPD Type: ER
- Product: Test Case Request
- Resolution Type: Implemented Enhancement
- Other information:

Script Fail Reason: App Upgrade/refactor/enhancement
- RPD Type: ER
- Product: Test Case Request
- Resolution Type: Implemented Enhancement
- Other information:

Script Fail Reason: Test Case Updated

- RPD Type: ER
- Product: Test Case Request
- Resolution Type: Implemented Enhancement
- Other information:

Script Fail Reason: Prebuild Specific Issue

- RPD Type: ER
- Product: Test Case Request
- Resolution Type: Implemented Enhancement
- Other information:

○

Test Maintenance

Reason	N/A ▼
Test Case	Add Test Case ID...
Test Step	Add Test Step ID...

Resolution Codes with tags: Analytics Automation Workflow

Thursday, March 02, 2017   6:11 PM

Test Failures Reason is owned by Analysts team and hence we shouldn't be updating it. However, one should make sure the following two fields are u pdated with the fixed menu option:
Test Type: Automated
Functional Area: Analytics

Apart from these two fields when you or analysts file RPDs specific to Prebuild then make sure that **Testing Phase** is set to **Prebuild** else it should be either **Regression** or **Adhoc** (this option will be rare as we test most of the time either in prebuild or RC).

1) Merging Issue: **Test Maintenance**: Script Error,
                          RPD Type: Bug Report
                          Tag: Script - Test Case location
                          Product: Test Case Request
                           Resolution Code: App/ Code Engineering Fix

2) Timed out issues: Un Expected Timed Out issues: Like increasing time after confirmation from Engineers or PDs as the delay is expected
                          Test Maintenance: Update Step,
                          RPD Type: ER
                          Tag: Script-improve-automation
                          Product: Test Case Request
                          Resolution Code: Implemented Enhancement

3) Expected Timed Out issues: For Example verification of tooltip after hovering. wait time is expected after hover
 NOTE: Use this tag only in the case of error in script logic
                          Test Maintenance: Script Error,
                          RPD Type: Bug Report
                          Tag: script-bug-automation
                          Product: Test Case Request
                          Resolution Code: App/ Code Engineering Fix

4) Test Case Updates:
                          Test Maintenance: Update Step,
                          RPD Type: ER
                          Product: Test Case Request
                          Resolution Code: Implemented Enhancement

5) Issue due to update in some function :
                          Test Maintenance: Script Error,
                          Test Failure Reason : NA
                          RPD Type: Bug Report
                          Tag: code-override
                          Product: Test Case Request
                          Resolution Code: App/ Code Engineering Fix

6) Issues occurred due to timing issues and no longer replicable and you improved the logging to capture screenshot
                          Test Maintenance: NA,
                          RPD Type: Bug
                          Tag: script-improve-automation, auto-intermittent
                          Product: Test Case Request
                          Resolution Code: Obsolete No longer relevant

7) Issues occurred due to updates in thief helper versions, common setup such as conf.js, chrome upgrade, maxbuffer issue, so me ruby side issues
                          Test Maintenance: Script Error,
                          RPD Type: Bug
                          Tag: script-framework-bug
                          Product: Test Case Request
                          Resolution Code: App/ Code Engineering Fix

8) Issues occurred due to tools like clicking is not performed or hovering is not performed with JavaScript and if we use jQu ery or something like that
                          Test Maintenance: Script Error,
                          RPD Type: Bug
                          Tag: issue-with-tool
                          Product: Test Case Request
                          Resolution Code: App/ Code Engineering Fix

	S. NO	Modules/Topics	Trainer	Duration	Date
✓	1.	Focal Point (Deploying VMs, Workstation) and Selenium Grid (How grid works and advantages of it.)	Krishnakanth & Krishna Teja	1 hr	30/06
✓	2	Automation tools overview(Selenium - Ruby, protractor, Test Complete, SOAP UI)	Naresh	1 hr	26/06
✓	3	Automation Pipeline and Tellus TTM	Surendra	1 hr	03/06
✓	4	Tellus framework - JEP (GID, Chunk ID), Progress Page, Calendar Terminology of Tellus	Avanthi	2hrs	30/06
☐	5	RPD Importance/automation workflows	TLs, team specific(workflows)	1 hr	30/06
✓	6	Automation tool and fiddler set up i. Installation(tool and dependencies), use gemsetup.rb - Ruby ** Latest gems/node modules to be used	Pramod /Priyanka	1hr	21/06 (Send instructions) Follow up on 23rd

✓	7	i. Introduction to Selenium
		   • What is Selenium?
		     ○ Selenium History and Architecture
		     ○ Selenium Core and Selenium IDE
		        ■ Selenium RC - Remote Control
		   • Webdriver
		     ○ Differences between Selenium RC and Webdriver
		   • Selenium Webdriver
		     ○ What languages are supported by Selenium?
		     ○ Why do we use Ruby with Selenium
		     ○ Why Protractor for Angular apps
		
		ii. Web element locators. (XPATH writing, Intro about QA IDs)
			Naresh	1hr	26/06

☐	8	Perforce training	Gireesh	1 hr	29/06
☐	9	GIT, CI overview	Shiva	1 hr	29/06
☐	10	Coding Conventions		1 hr	
☐		Protractor/Selenium(Based on Projects allocation) - Detailed breakup below			

Selenium:

	S. NO	Topic	Trainer	Duration	Date

☑	2	Selenium Ruby Watir webdriver + Sample scripting
		• Selenium-Ruby-Watir-Webdriver
		  ○ How to add Watir-Webdriver support in your scripts
		    ▪ Installing Watir-Webdriver gem
		    ▪ Steps to include the support for watir-webdriver in your scripts
		  ○ Some of simple operations automated
		    ▪ Opening a browser with given URL
		
		• Time to learn more automation
		  ○ Finding an element
		  ○ Confirming if an element is really present on the loaded page
		  ○ Checking for text inside a web element
		  ○ Clicking on an element
		  ○ Sending keyboard keys to a web element
		  ○ Selecting an option from a drop down
		  ○ Validating if a check box is checked
		• Time to write some robust code
			Yagnya	3:00 hr	27/06

☑	4	Introduction to Page Objects and Project Structure (Need of it, Conventions, Utilities and Common-Files)	Yagnya	1:00 hr	27/06
☐	5	Debugging and Running on VMs, fiddler usage. Pre-requisite: Deploy an internal QA Auto VM	Shiva	1:00 hr	28/06
☐	6	Automation Challenges and their possible solutions	Shiva	1:30 hr	28/06

New Hire Training Schedule FY'16

S. NO	Modules/Topics	Trainer	Duration	Date
1.	Focal Point (Deploying VMs, Workstation) and Selenium Grid (How grid works and advantages of it.)	Madhavi	1hr	06/24/2016
2	Perforce training	Mamatha	1:30 hr	06/24/2016
3	Automation tool and fiddler set up 　i. Installation(tool and dependencies) - Protractor 　ii. Installation(tool and dependencies), use gemsetup.rb - Ruby ** Latest gems/node modules to be used	Yagnya(Selenium) + Priyanka K(Protractor)	2:00 hr	06/27/2016
4	i. Introduction to Selenium 　• What is Selenium? 　　○ Selenium History and Architecture 　　○ Selenium Core and Selenium IDE 　　　▪ Selenium RC - Remote Control 　• Webdriver 　　○ Differences between Selenium RC and Webdriver 　• Selenium Webdriver 　　○ What languages are supported by Selenium? 　　○ Why do we use Ruby with Selenium 　　○ Why Protractor for Angular apps ii. Web element locators. (XPATH writing, Intro about QA IDs)	Manju	2:00 hr	06/27/2016
5	Protractor/Selenium(Based on Projects allocation) - Detailed breakup below			
6	Automation Pipeline and Tellus TTM	Priyanka M	1 hr	07/01/2016
7	Tellus framework - JEP (GID, Chunk ID), Progress Page, Calendar	Arvind	1 hr	07/04/2016
8	RPD Importance/automation workflows	TLs, team specific	1hr	07/04/2016

4. Protractor:

S. NO	Topic	Trainer	Duration	Date
2	Asynchronous Programming and WebdriverJS (Promises - Unlearn what you learn)	Murali	45 mins	06/28/2016
3	Introduction to NodeJS and Protractor (Basics of NodeJS and Protractor, Setting up environment[conf.js])	Naresh	1:15 hr	06/28/2016
4	Making Asynchronous programming to behave synchronous (Jasmine – A unit testing framework - Matchers, Custom Matchers, describe, it, xdescribe, xit)	Santhoshi	2:00 hr	06/29/2016
5	Introduction to Page Objects and Project Structure (Need of it, Conventions, Utilities and Common-Files)	Priyanka K	1:00 hr	06/30/2016
6	Debugging and Running on VMs, fiddler usage. Pre-requisite: Deploy an internal QA Auto VM	Bhupender	1:00 hr	06/30/2016
7	Automation Challenges and their possible solutions	Deekshith	1:30 hr	-

4. Selenium:

S. NO	Topic	Trainer	Duration	Date
2	Selenium Ruby Watir webdriver + Sample scripting • Selenium-Ruby-Watir-Webdriver 　○ How to add Watir-Webdriver support in your scripts 　　▪ Installing Watir-Webdriver gem 　　▪ Steps to include the support for watir-webdriver in your scripts 　○ Some of simple operations automated 　　▪ Opening a browser with given URL • Time to learn more automation 　○ Finding an element 　○ Confirming if an element is really present on the loaded page	Surendra	2:00 hr	06/28/2016

	o [Checking for text inside a web element](#) o [Clicking on an element](#) o [Sending keyboard keys to a web element](#) o [Selecting an option from a drop down](#) o [Validating if a check box is checked](#) • [Time to write some robust code](#)			
4	Introduction to Page Objects and Project Structure (Need of it, Conventions, Utilities and Common-Files)	Manju	1:00 hr	06/29/2016
5	Debugging and Running on VMs, fiddler usage. Pre-requisite: Deploy an internal QA Auto VM	Priyanka M	1:00 hr	06/30/2016
6	Automation Challenges and their possible solutions	?	1:30 hr	-

4. TestComplete:

S.No	Topic	Trainer	Duration	Date
1.	TestComplete Overview and Object Spy	Madhavi	1:00 hr	4/17/2017
2	Introduction to Object repo and Project Structure (Need of it, Conventions, Utilities and Common-Files)	Madhavi	1:00 hr	4/17/2017
3	Debugging and Running on VMs, Batch Runs. Pre-requisite: Deploy an internal QA Auto VM	Madhavi	1:00 hr	4/18/2017
4	Grid Client and Coding Standards	Priyanka M	1:00 hr	4/18/2017
5	Automation Challenges and their possible solutions	Priyanka M	1:00 hr	4/19/2017

TestComplete Training

Monday, April 03, 2017   7:33 PM

1. TestComplete Overview and Object Spy.
2. Introduction to Page Objects and Project Structure (Need of it, Conventions, Utilities and Common-Files)
3. Debugging and Running on VMs, Batch Runs. Pre-requisite: Deploy an internal QA Auto VM
4. Grid Client
5. Coding standards
6. Automation Challenges and their possible solutions

QA Training

Wednesday, January 24, 2018   12:29 PM

Training Module				
Date	**Topics**		**Trainer**	**Duration (in hours)**
Day1	Overview of FactSet / Product / Services. Team Hierarchy / Project Hierarchy (US Team / App QA Team)			2
Day1	Citrix XenApp -Log on & various tools: Focal Point & QATS servers, UVF and trouble shooting..			2
Day 2	Overview of Online Release Cycles - VMS			2
Day 2	Bug Tracking: Cross-checking and reporting through different tools SWP and RPD - Online Release Cycles			2
Day 3	Overview of Atlas FactSet Terminology, Release cycles - VMS and Atlas Release Cycles			2
Day 3	Bug Tracking: Cross-checking and reporting through different tools SWP and RPD - Atlas Release Cycles			2