

01/29/2018

Wednesday, January 10, 2018 4:34 PM

Bhupender:

Metrics for Jan 8-15:



Jan8-15
Data

Moving Ruby Projects to GitHub: [RPD:37887468](#).

BrowserStack POC:

- Joseph and Lilun are actively involved in preparation from QA side. Refer [QA BrowserStack Evaluation: PoC Plan](#) for more details.

Any ways to collect metrics on bugs found through SoapUI testing? (collected this metrics from Internal team and on average they are finding 3 bugs per month given that they are not running scripts from tellus yet).

Reason for this metrics?

We want to derive how effective testing is using this tool. If we find more bugs at service level eventually we should find less bugs at UI testing level.

Vasu:

- Browser Stack:
 - Swamy has started testing the mobile app against Browser Stack environment today
- SOAP UI:
 - Training session conducted last week
 - Workshop session is going to be scheduled next
 - Question: Do you have any requests from other teams to run the SOAP UI tests as part of build system?
- Remove Ruby dependency on Protractor:
 - In progress. We figured that some of the utilities can be moved to common utilities instead of writing them in app specific utilities. Need to meet with Research team and decide which functions can be moved
- Do you have any strategic projects coming in from the COE side in the next couple of months?
 - Moving Ruby Projects to GitHub: [RPD:37887468](#):
 - Any ETA on when this needs to be done by all the SBUs

AV:

Question: What is the purpose and expected outcome from this meeting?

Vasu and team can we have updates for each of the below points from next meeting?

Key challenges they are facing. It could be related to scripting, tool or processes?

Project priorities from their area from Automation Perspective?

Research and Development within the Group?

Meeting Notes

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- The requirement to read PDF files during testing with SoapUI tool.
 - Research needs to be done. Vasu says we have a plugin which may help us accomplish this.
 - Ganesh is working on this [not actively though].
- Madhavi, Ganesh, Debo, Madhuri, Naresh are people who are working on SoapUI.
 - Madhavi, Madhuri, and Ganesh already have licenses.
 - Niharika, Naresh will get new licenses.
 - Monica Tylor's license will go to someone from Andre's team.
 - All these licenses are node lock.
- **Send the differences b/w SoapUI and Ready API Pro (SoapUI PRO).**
 - **Feature comparison:** <https://www.soapui.org/professional/soapui-pro/soapui-vs-soapui-pro.html>
 - **Complete feature list:** <https://www.soapui.org/professional/soapui-pro/soapui-vs-soapui-pro.html>
 - **Reasons to go for PRO version:** <https://www.soapui.org/professional/soapui-pro/why-go-pro.html>
- **Create a Tag say #BugsFoundThroughSoapUI and circulate the same among all groups [I'll create this tag after having discussion with all groups].**
- **Pair programming [want to adapt it as a pilot program] NOTE: This will only b/w scripters for now [Not applicable b/w scripter and analyst] - [I'll be discussing about this with other groups]**
 - Identify people who are capable of reviewing.
 - Identify SME for tools who can do a review.
 - Should be signed off by the reviewer.
 - Scripter needs to approach manager to get reviewer assigned.
 - The reviewer needs to add themselves to assignee list.
 - The manager needs to identify reviewer and provide ETAs for a review request.
 - **Needs to meet SMEs of the tool and consolidate coding standard for the tool [First Groups has to identify and then I can schedule meetings with them]**
 - Get suggestions from Scripter group as well.
 - **Responsibilities of Reviewer**
 - Look for ways to optimize code.
 - Identify static logic which needs to be made dynamic.
 - Recommended coding practices.
 - Recommended project structure.
- **Shareable resources which can help COE [Have to share this thought with other leaders as well]**

3/06/2018

Tuesday, February 27, 2018 1:56 PM

Scripting challenges:

- Cannot fetch Passcode from Mail, through Test Complete
- Chart objects are not recognized through test complete.
- Unable to access chart and verify color
- We cannot resize the PC window dialog using protractor and AutoIT also doesn't capture the object reference
- While verifying the cookie names as part of the automation, We came across some shadow root elements to perform action. Unable to access the shadow root elements
- Found solution: access element the following way
`document.querySelector('settings-ui /deep/ [page-title="People"]')`
- TestComplete is in hang state whenever there is an unexpected window
- BrowserStack: Do we have any updates on this?
- Do we have any requirement to run webservices as part of CI?

Research and Development activities:

- Integration of TestComplete in Ready API for performing GUI automation
- Optimization of Ready API test cases to use DataSource loops that would increase the speed of automation and also reduce the maintenance efforts
- Able to parse the pdf contents using Ready API tool for Dexter and BB application
- Started using Ready API for BB and MI applications
- Stress testing for Market Intelligence application upon request by the engineers using Ready API tool
- iOS support for 11.x - In progress
- Support to run WebSocket tests on Tellus - Testing

Project priorities:

- Automation of AUDS application
- Automation of Custom Reports and AG3
- [RPD:38350071](#) - Verify FactSet compatibility with Microsoft .Net 4.7.2 - Early Access Build
- Increase in combinations of Atlas iterations: [RPD:37944015](#)
- Retirement of AutoKey [RPD:37470817](#)

Question:

Do we have a frequency of changing the common modules everyone uses in their projects. We had the below ones from the past 4 months:

- [RPD:38608562](#) - Request to test common-configuration changes for protractor projects
- [RPD:36944075](#) - Request to test Protractor Projects against common-configuration changes.
- [RPD:37820353](#) - Request to test Protractor Projects against pre-release of qa-protractor-common
- [RPD:35628668](#) - Request to test thief-helper functions
- [RPD:34439601](#) - Remove dependencies from 'qa-protractor-common'
- [RPD:34401113](#) - Request to test qa-protractor-common
- [RPD:37424504](#) - Selenium: Remove hard coded SG Hub URLs in Configuration file

I think we should have a control over the frequency of changes scripting teams are making to the common modules instead of making the changing and asking everyone to test which could introduce risks. We should have only the emergency updates rolling out and collect the least important ones so that the team could work on implementing them periodically (we could use speed sprint for this) so that all the groups would be available to test their projects during their time.

Meeting Notes

Tuesday, March 06, 2018 5:11 PM

Scripting Challenges

- Cannot fetch Passcode from Mail, through Test Complete

Solution

- Research on ways to read emails from Test Complete in-built libraries **[Priority 1]**
https://support.smartbear.com/viewarticle/9022/#_ga=2.115961606.1821939774.1520336534-227450096.1457635332
- Use Ruby utilities to achieve the same here

Challenges

- If used directly we'll have dependency on ruby gems. It'll be better if the utility can be made as an executable file.

NOTE: Check if we need any gem dependencies or does executables pack the dependencies along with the creation of file.

State: Currently, no one is working on this problem statement.

Check with Rajiv Kalla; He have some utilities added to UtilsOutlook for the same purpose

- Chart objects are not recognized through test complete. Unable to access chart and verify color.

Possible Solution

Research about OCR support in Test Complete

<https://support.smartbear.com/testcomplete/docs/testing-with/advanced/ocr/index.html>

State: Currently, no one is working on this problem statement.

- We cannot resize the PC window dialog using protractor and AutoIT also doesn't capture the object reference

Possible Solution

pywinauto: A tool to automate windows based GUI application.

Need to do research if we can achieve windows automation using this tool.

Documentation: <https://pywinauto.readthedocs.io/en/latest/>

Niharika started looking into this tool.

Priority 1: Found a link where tools to inspect GUI elements are listed:

<https://github.com/blackrosezy/gui-inspect-tool>

State: Currently, no one is working on this problem statement.

- While verifying the cookie names as part of the automation, We came across some shadow root elements to perform action. Unable to access the shadow root elements

Found solution: access element the following way

`document.querySelector('settings-ui /deep/ [page-title="People"]')`

- TestComplete is in hang state whenever there is an unexpected window

Possible Solution

There is documentation on how to handle unexpected windows in TestComplete. One has to go through it and try suggested approach to handle the same. Pasting the links below for reference:

- a. <https://support.smartbear.com/articles/testcomplete/handling-unexpected-windows/>
- b. <https://support.smartbear.com/testcomplete/docs/testing-with/running/handling-errors/unexpected-windows.html>

Meeting Notes - Part 2

Monday, March 12, 2018 6:10 PM

Question:

- Do we have any requirement to run webservices as part of CI?
Made changes to TestRunnerQA.groovy and raised PR for the same:
<https://github.factset.com/app-qa-automation/qa-cid-test/pull/2>
- Check with Engineering on unit testing results:
 - Currently we do not have any idea on how much unit testing is done and what was the result of preliminary testing before handing it over to QA.

R&D Activities

- Integration of TestComplete in Ready API for performing GUI automation
Ganesh gave demo on how to achieve this to Automation Team.
File an RPD so that other teams can add their comments to identify the priority of this - Vasu to file RPD

Streamlining POCs

- Purpose of the POC?
- Beneficiary of POC?
 - If POC is applicable to different teams can we have nominations from other groups
- How should we track the progress of POC?
- How to track success of POC post implementation?
- Come up with SOP for POC.
- Publish POCs In Progress, Completed and what's in pipeline? On quarterly/half-yearly basis.

Planning for Phase 2:

- How are we defining a hybrid scripters?
- How are we identifying gaps in scripter to handle analyst role and vice versa?
- How are we identifying training required for implementation of Phase 2?

27th March 2018

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Notes:

- Emails are not received to svc-qa-outlook account.
 - Need to add this account to email group so as to receive passcode emails.
 - Existing email group which receives passcode: **qa.framework.automation@factset.com**
- Chart objects are not recognized through test complete. Unable to access chart and verify color
 - Check with engineer if some of the scenarios such as verifying chart colors, legends was tested already as part of unit testing
 - Get unit testing coverage for the product so that we can decide on what features to be included in e2e tests
- Resize native dialogs
 - Check with engineers if they got any plans to convert the dialog box into HTML format
- Test Complete hang issues
 - Make a note of scenarios where the issue is seen
 - Look for overriding the event handlers
 - Check on the CPU memory usage by TC
 - Collect metrics on long running jobs
- Raise a ticket for smartbear on heap memory issues seen with SoapUI
 - Check with other groups if they have seen similar issues. If yes, check for solutions
- Downloading a file taking more time with SoapUI
 - Try the same service with Postman or any other web-service testing tool.

General guidelines for POC

- What problems you found that encouraged you to do POC? Scope of POC?
 - Ex.: Tellus Job Scheduler
- Proposed ideas
 - Alternative tools
 - Refactoring existing code base
- What resources are required to do POC?
- People who should be involve in POC
- What are plan to be tested in POC?
- Estimation on when it'll be done?
- Next steps after POC
- Documentation on POC (1-2 pages which should describe the objective of POC in layman terms)

Update on moving projects to GitHub

- Started migrating **Notify** application