1:1 with Jim

Monday, January 08, 2018   1:47 PM

5th Jan 2018

Monday, January 08, 2018   1:50 PM

5th January 2018
  Topics to discuss:
  1. PA3 automation with git:

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      FW PA3
      automati...

  2. 📊 **Demos for Gene**

S.no	Demo Subject	Owner	Purpose of Demo	Target Audience	Benefit to FactSet	When Demo can be done
1	Tellus Test Harness and Scheduling Framework	KrishnaTeja as primary presenter	Demonstrate the home grown automation framework which is developed to cater the needs of SBUs and Horizontal groups for scheduling their weekly Regression testing.	SBUs and Horizonal Groups	This framework is highly customized to serve our testing requirments. It helps us to complete weekly testing cycle faster and automatically post the status of testing.	Anytime, Jim to Decide
2	Implementation of CID with E2E Testing This could be done for Universal Screening	Melissa O Connor Joseph Hwang and Bhupender	This will demonstrate the **Shift Left Automation** strategy where autoamtion testing can be leveraged during the development phase by engineering team.	SBUs and Horizonal Groups	By utilizing the automation suite developers can run the same against their modified code and can fix the bugs caught before the code goes to production pipeline. Until now, we were waiting for modified code to be released to production pipeline and then start testing. When the bugs are found in production pipeline engineers will have less time to fix the same and there are high chances to release the bugs without proper evaluation of its impact.	Mid week starting with 18th
3	SOAP UI Pro tool and testing Pyramid	Ramya	With the use of Soap UI tool we are able to test our APIs faster and moving our footprints towards testing pyramid.	SBUs and Horizonal Groups	As it is said, best practice in testing world is to follow testing pyramid (Unit -> API -> Component -> UI). Unfortunately, we were following the opposite of the same where our testing is heavily focused on UI and very mnimal on Unit/API testing side. Due to heavy focus on UI testing it is taking more time to complete testing, consuming more infrastructural resources, more maintenance efforts etc. But now, as we shifted gears to follow testing pyramid we are able to see the benefit of the same. For example, we are now able to automation more, reduce maintenance, enhanced skillset by knowing application infrastructure etc	Any Time Jim to decide
4	Integration of Automation and Application source code repository	Bhupender	This is to demostrate how we integrated automated test scripts into the application source code repo.	SBUs and Horizonal Groups	After integrating automation code under application repo, engineers will be able to test their code changes locally even before submitting it to CID pipeline. This will reduce the number of bugs found when code moves to production pipeline. Until now, testing team was waiting for engineer to push thier changes to production pipeline to start testing.	Once we complete integration after tellus enhancements we can proceed with this demo.
5	Model-Based Automation using Tricentis Tosca	Bhupender Agarwal	Model-Based automation helps non-technical person to do automation.	SBUs and Horizonal Groups	We have a large workforce with minimal knowledge on programming languages and hence testins is done manually. With the use of Model-Based automation tools we can empower people with no/less technical background to start automating testing scenarios. This will also minimize the requirment to hire people with sound knowledge in programming. However, hard code programmer would still be needed as everything cannot be automated using Model-Based Automation.	Research on this tool has to begin.
6	Test Rail, Teamcity etc	Cesar Gaudin	Demostrate the tools and technology used by FDSG team to manage testing inventory and how they have integrated with **Teamcity**, which is a build tool, to achieve Continuous Integration and Delivery (CID).	Currently applicable to FDGS group only	Currently, FactSet uses its homw grown proprietary tools as oppose to FDSG team where they use third party toools to manage test cases, and track the status of regression cycle and thus all other tools and framework is developed to tightly integrate with our existing system. Eventually, we want to look into the feasibility of adapting to the model which FDSG team uses.	Low Priority for now
7	Robot Framework	NA	NA	NA	NA	NA

SBU	Analytics, CTS, Wealth, Research and PMT	
Horizontal Groups	Platform, API Teams, Core UI Team etc	

  3. Talk about Presentation slides prepared by Rajul about 2017 accomplishments and FY18 Strategy.

      📊
      QA
      Automati...

  4. Can I have meeting with TLs and Local managers of each SBU (Monthly)?
     Topics I want to discuss in catch-up
       a. Job Metrics and bugs discovered through automation per month.
         Showing this metrics will help them analyze the effectiveness of their testing and identify the areas where additional coverage has to be added.
       b. Key challenges they are facing. It could be related to scripting, tool or processes.
         This will help me identify the areas where central QA can provide inputs from other groups, assessing the requirement of new tools and processes.
       c. Project priorities from their area from Automation Perspective.
         This is to know which project matters the most to the group so that from central QA perspective we can provide special attention to those projects.
       d. Research and Development within the Group.
         Helps in identifying what's new is getting implemented and how other groups can take the advantage of the same.
       e. Updates from Central QA
         This will help SBUs to know further details about Central QA work and the ideas that we are trying to implement.
  5. Hosting best practices and communicating the same to all SBUs. Filed RPD: RPD:37069965
  6. Requirement and benefit of running BVT scripts after code moving to Live? RPD: RPD:37036935

Notes:

- Maintain documentation of task done by COE.
- Define Tactical & Strategical topics for POC.
- Write success criteria of BrowserStack POC - Working with Josh on this. First version can be found here Evaluation and Success Criteria.
- **Write one slider description about POC about moving Automation Repo inside Application Repo**
  - **Use case**
  - **What is expected from this?**
  - **When we'll call this a success?**
- My Task - Know how CID is achieved for Universal-Screening app and the benefit the team is getting after utilizing automated scripts.
  - I'll be meeting Pramod, Bindu, Melissa O Connor and Joseph to know about the complete workflow.
- Updated demo list. Please refer the excel sheet above.
- Work with Krishnateja to prepare for 1st demo - **Tellus Test Harness and Scheduling Framework**
- Prepare build picture similar to one described in the presentation attached below:

  QA Tool
  Chain
- Meet with **Krishna Srikanth Darna** to know details about session he conducted on Soap UI for Engineering.
  - Check if there is any specific requirement to use paid version of Soap UI?
- Jim asked Cesar to verify Forward and Backward compatibility of QAI with current FDSG setup.

Questions for future:

- Do we need QAI to maintain our test inventory rather than going to existing third-party tools?
- Why Tellus? Can't we use existing frameworks to achieve what tellus does for us now?

12th Jan 2018

Friday, January 12, 2018   8:42 PM

	8th January to 12th January

Monday	• Created one-note to take a meeting notes with Jim - <u>Meeting Notes</u>.
	  • Added meeting notes from last Friday.
	• Met with Krishna Srikanth Darna to discuss about his demo to IS Engineering team on Soap UI PRO. Find meeting notes at <u>Soap UI Pro Demo to Is Engineering - Meeting with Krishna Srikanth Darna</u>.
	  • Drafted an email to Jim describing the meeting details.
	• Attended weekly QA Leadership meeting. Find meeting notes here: <u>1/8/2018</u>

Tuesday	• Met with Eyme and gave discussed the work I am involved in.
	• Worked on making changes to Protractor configuration for sample project (qa-test-pa3 in this case) to start testing it on BrowserStack browser.
	  • Script started executing but failed to login to FactSet. Wrote an email to Josh seeking help.
	  • Worked with Lilun to test on BS.
	  • Find my detail observation here: <u>Local Testing</u>.
	• Met with universal-screening automation team to know details about CID set-up for the project.
	  • As team is not clear about the set-up, drafted an email to Melissa to get further details.

Wednesday	• Rajiv Krishna Kalla from Research QA worked on finding a way to generate boiler plate code Testcomplete Project. • Attended a session on Tools for Managers by James Valentino. • Assisted in taking interview for Platform QA Engineer position. • Had catch-up with Jim to discuss about next leadership updates for Automation COE.
Thursday	• Had meeting with Hyderabad Managers to discuss campus hiring format. • Worked on preparing PPT defining the roles and responsibilities of Automation COE. • Took interview for Platform QA engineer. • Rejected. Candidate Name: Manjunath Devanga. • Worked with Joseph to solve the issues related to releasing Ruby projects to artifactory. Please check more details here: <u>http://is.factset.com/rpd/summary.aspx?messageId=36638841&commentId=37460104</u>.

Friday	• Had meeting with Windows engineering team to discuss about setting up content collection application outside Citrix environment.
	  • Mushtaq has to try mapping K drive and launch MainMenu.exe (which launch CC app) to see if locally installed version of TestComplete can access application.
	• Met with Kiranmai and Akriti to guide how we can pull test running information from protractor's configuration file.
	• Met with Kranthi and Brijpal to integrate Tellus Database data into CMIS system so that one can create metrics dashboard easily.
	• Met with Shiva to discuss idea to implement Rspec as part of ruby project.
	  • Decided to write single Rspec file which will drive all scripts in the suite.
	• Tested if application urls are working on **bstackdeva01** server for BrowserStack POC.
	  • Some URLs are able to pass through FactSet Login page but after that it doesn't load any web-components. Find more details here: <u>http://is.factset.com/rpd/Summary.aspx?messageId=34302004</u>

22nd Feb - Target date to enable engineer to run automation scripts on their own.

19th Jan 2018

Friday, January 19, 2018   8:24 PM

	8th January to 12th January
Monday	• Verified if URLs requested to run on BrowserStack are whitelisted on **bstackdeva01** server. Follow this link for more information.

Tuesday	• Worked on writing single ruby file which can drive all test scripts [Completed].
	• Took interview for Platform Automation group.
	    • Candidate: Ghouse Abdul Khader
	    • Shortlisted? NO
	• Had meeting with Shiva to review and finalize the documentation written by Joseph to get started with moving Ruby projects on GitHub.

Wednesday	• Made enhancement to Ruby script which will run all ruby files even if regular expression is given in the pattern. • Attended meeting scheduled by Tirumala to discuss Campus Hiring Status. • Had meeting with Lilun to understand the proxy setup he did to inject headers.

Thursday	• Reviewed and hosted JIRA documentation which is prepared by Usha Sai Masabattula. Refer https://githubdev.factset.com/bhagarwal/jira-docs to view the document.
	• Filed RPD:37634839, Should we increase default resolution of Tellus VMs?
	• Took interview for open position in Platform QA Automation.
	    • Candidate: Aakansha Dubey.
	    • Shortlisted: NO
	• Worked with Bhanu to test applications on **bstackdeva01** server.

Friday	• Day long interview process.

2nd Feb 2018

Friday, February 02, 2018   8:30 PM

	29th January to 2nd February
Monday	• Analyzed Tellus Job data for Platform and Research group for the period of 8th Jan to 15th Jan. • Filed RPD:37887468, Master RPD to track moving of "Selenium-Ruby" project on GitHub. • Filed RPD:37887872, Change the way git ruby project are called from tellus framework.
Tuesday	--- LEAVE ---
Wednesday	• Day long interviews from GITAM university. • Had meeting with Automation TLs to get their requirements for using Soap UI PRO version.
Thursday	• Had Monthly meeting with Research SBU. • Had meeting with Analytics TLs to discuss hack for enabling testing of PA3 automation project directly from GitHub. • Had meeting with Shiva and Neeraj to explain the changes needed to release **IC Chartiq** project to artifactory. • Worked on collecting notes on differences b/w SoapUI PRO and Soap UI Open Source. Refer FactSet's Need for Soap UI PRO.
Friday	• Attended meeting with QA Hyderabad Managers. • Worked on collecting data regarding terminated jobs.

16th Feb 2018

Friday, February 16, 2018   8:00 PM

	12th February to 16th February
Monday	• Watched Soap UI Pro webinar. Link: https://www.youtube.com/watch?v= 6qmshFzu1jY&mkt_tok=eyJpIjoiTmpRMlptRmtNVEl3TVRNdyIsInQiOiJiV1pIaTUzWlNESStYazVKczdNeXFmdjFINThxRWp MaStcL2VCU0d2djRsXC9WVzUwUk4ydW9JVzMyWUsySVwvamVtMzkxUmFYU0daK3c4eFl0cTZPbFBUS0tQQ1ZGb25LdH R0Q0dJSlhkZWRIeHJTM0xLcDdmRWFpOGFFMUTFsR254NyJ9
Tuesday	• Worked on collecting information on Soap UI Pro features used for individual products. 　　• Looked for some of the feature availability in free version of soap ui. • Attended webinar by SmartBear: **[Webinar] What's New: OAS Integration in AlertSite.** • Read articles to know workarounds for Soap UI PRO features in free version. • Had meeting with Angela to discuss setting caccess files in GitHub.
Wednesday	• Read articles to know workarounds for Soap UI PRO features in free version. 　　• I couldn't find any workaround of data source loops in free version. 　　• Found an article which describe about using Environment setup in free version but need to try how well that fits our requirements. However, this hack need a person to be technically sound. 　　http://blog.darwin-it.nl/2015/07/set-environment-properties-in-soapui.html 　　• We can write groovy scripts and convert the same into JAR files to be able to access in our test cases. However, this need a person to be good at OOPs concept and should know groovy scripting. Also, one has to place this custom JAR file at global JAR file location so as to access functions within test cases. 　　http://www.doan.me/script-library-in-soapui-free.aspx • Helped Swati in resolving some issues she was facing for setting up protractor project. • Research for solution to copy files b/w local machine and network drives. 　　• This is to find solution to copy caccess files from Jenkins to network drive. 　　• Ben says we can do that but need permission from windows team to allow network drive access to Jenkins as Jenkins runs on Linux boxes.
Thursday	• **Worked on verifying if we can use YARN for releasing protractor projects to artifactory.** 　　• **Refer the one-note page for more details: Using YARN for releasing automated projects** 　　• **Filed RPD:38376500, Update to YARN to speed-up automated project releases to artifactory.** • Had meeting with Angela and Daniel Herman to discuss possibility of using Jenkins to publish build_choose files to windows network drive.
Friday	• Worked on finding solution to copy files from Linux servers to Windows. • Attended weekly QA Hyderabad managers meeting.

23rd Feb 2018

Friday, February 23, 2018   8:34 PM

	19th February to 23rd February
Monday	--- LEAVE ---
Tuesday	• Interviews at VNR college.
Wednesday	• Worked on retrieving job execution time for each product in Analytics as requested by Rajeeta.
Thursday	• Read few articles. 　　• Better strategy to develop XPATHs for Object Identification. 　　• Automation Testing Tool Comparison. • Read about latest version of jasmine. • Attended session on integration of Test Complete and Ready API by Ganesh. • Assisted in taking interview for Platform TL position. • **Worked on automating sample application which is developed using Vue JS.**
Friday	• **Identified way to run protractor projects in headless browser which will reduce the time taken to execute script.** • Had meeting with Ramya, Sandhya, Priyanka and Shiva to discuss the changes required to support CID for Soap UI.

Project List

Priority	Task Description	Objective	Category	What problem it'll address? Or What benefit it get to FactSet?	Progress Made	Attachments	Assigned by	Comments/Remarks
	Testing headless option in protractor	Reduce the execution time of e2e projects	Efficiency	Currently, when we execute e2e test cases actual browser instance is launched which might not be required as no one monitors the job execution. If we start using headless mode we can save execution time as actual browser instance is not launched and thus time to render web-components is saved. However, if one want to see the execution they can disable this option easily (might be required for debugging issues). **Sample Metrics on time saved** I will probably drop this item as I found that running suite of test cases in headless mode is taking more time than executing the same in normal mode. Many times headless mode execution time is close to normal mode execution time but sometimes it took more than normal.	Though this option looks promising we cannot proceed with it blindly as we don't know if enabling this option will raise any unnecessary errors. Thus, I need to **test this option against different automated projects** before implementing across the SBUs. Once I am done with testing **I will prepare documentation on what needs to be change.**		Self	
	Using YARN package manager for releasing automation projects to artifactory	Reduce time spent on releasing the modules to artifactory	Efficiency	We have seen that YARN can significantly improve the download time for our automation projects and thus we have implemented the same on our Tellus framework as well. However, scripters still uses npm for releasing the projects. If we start using YARN we can speed-up the process of releasing automation projects to artifactory	I completed testing this and filed an RPD describing what changes are required to implement this across the board.	Refer the one-note page for more details: **Using YARN for releasing automated projects**		Filed RPD:38376500, **Update to YARN to speed-up automated project releases to artifactory.**
	Setup Soap UI project to integrate with CID process	Integrate Soap UI test cases with CID process so that it can be executed along with new build creation	CI & CD	Our Soap UI automation inventory growing day by day and thus we want to integrate the same into CID process so that Engineering can leverage the same to identify the bugs early in development cycle. Currently, these test cases are running either as part of online promotion cycle or via Atlas build cycle.	**List of action items** • Identify the Soap UI project structure to be moved to GitHub **[Done]** ○ Met with Shiva and Priyanka to design the project structure. • Move sample project to GitHub **[Done]** • Create Jenkins Configuration to release the project to artifactory as ruby gem • Write configuration for CID to be able to execute Soap UI test cases	Refer Soap UI projects on GitHub for moving Soap UI projects to GitHub	Research SBU	Once we complete this it'll be applicable to all groups having automated test cases in Soap UI
	Identify list of Soap UI PRO features used by projects already automated	We have free version of Soap UI which has many features and thus we want to identify if there is really a need to use PRO version for automation of every application	Evaluation	On identifying areas which can be automated using Soap UI open source version we can reduce the cost incurred to FactSet on buying additional licenses.	I have evaluated PRO version against 6 features which is being used in one or other projects. Among all the additional feature PRO version comes with, Environment support is the most commonly used features across all projects. Please refer FactSet's Need for Soap UI PRO for more details. **Action Item** Have an individuals from each SBU start using Open Source version of Soap UI in order to identify any other challenges we got with it.	SoapUIPRO FeatureU…	Jim	So far, identified 2 products (RECS Entitlement Services API - Platform, Windows App - Research) which is not using any special feature from PRO version ()
	Identify ways to improve automation speed with TC in PMT group **[WIP]**	Currently, automation pace using TestComplete in PMT group is 1-2 Test Cases per week per person. I need to review and find ways to improve the process so that we have more test cases automated per week.	Optimization/ Review	If I am able to find ways to optimize the setup then we can have more number of test cases automated per week.	Had initial kick-off meeting with Prashanth and Karthik. • Suggested a way to optimize a utility function which can avoid writing new utility functions. **Next Steps** • ~~Meet with Prashanth and Karthik to get insight into Test Complete project setup~~ • Identified more ways to optimize the scripts which can help writing scripts at faster pace. Refer Part 2	Test Complete Project structure Review - PMT	PMT SBU	
	Remove Selenium-Ruby Project Dependency from Soap UI project **[Completed]**	Do not download unnecessary files/utilities from Selenium-Ruby project which is not required for Soap UI Test Script execution	Optimization	Currently, we download many files from Selenium-Ruby project structure which is not required for the execution of Soap UI Tests Scripts. By separating it out into its own project it'll save us download time as well as unwanted clutter which comes with existing project structure.	**Completed** • Created a common package which will be used for Soap UI project types. • Hosted a sample Soap UI project on GitHub. • Documentation on moving Soap UI projects to github: Soap UI projects on GitHub			
	Moving workstation dependent protractor projects to Github							

Other Updates:
- Had monthly catch-up meeting with Platform Leads (to be continued):
  - Discussed about the automation scripting challenges and requested for help from central QA.
    - Provided solution to 2 scripting related challenges they were facing.

Questions I have?

"Summary of activities to include objectives of each and next steps" does this mean activities such as Model-Based automation, BrowserStack POC, Merging Automation Repo with Application Repo POC?

Random Meetings

Monday, January 08, 2018   8:48 PM

Transition Plan

Tuesday, March 27, 2018   1:31 PM

Task	Transitioning to	Expected start date	Duration	Expected date to complete
Manage tool level common utilities		29th March 2018	2 hours	29th March 2018
Moving Selenium-Ruby, SoapUI projects to GitHub				
Scripting best practices				
Meetings with SBU Leads				
On Demand metrics				
Documentation on R&D done to address automation challenges				
Participating in hiring process				