Functional Testing | StormRunner Functional |

Hands-On Session #1 – Getting Started

StormRunner Functional 1.4 Field Enablement

EXERCISE #1: General Navigation

Persona: **Nick Jacobs, Senior Test Engineer**
7y of experience in different testing groups
Works at Intelli Wealth Group
Lives in Cincinnati, OH

Preparations / Prerequisites

- SRF account
- SRF image (any image under https://github.com/Rishon73/Enablements/tree/master/2018-03-bootcamp/SRF/images)
- Good vibrations

Customer Scenario

1. Enter SRF (https://ftaas.saas.hpe.com) via Chrome or FireFox
2. Enter your user credentials and press login
3. After login you'll be redirected to the SaaS portal and you will see the SRF tenant
4. Press on the launch button
5. You are now in the SRF dashboard
6. Change the cover photo of SRF
7. Press on the Automation Tab
8. Create a new test and change its name
9. Change the filters of the view
10. Press on the Exploratory tab
11. Create a new Exploratory session and give it a name
12. Press on the results tab
13. Change the filters of the results
14. Press on the Lab tab
15. Go to the Settings section (little gear icon next to your name)
16. Press on REMOTE ACCESS
17. Generate a new key
18. Give it a name and a short description (e.g. "Allow test applications behind corporate firewall")
19. Select tunnel as the type
20. Press on GENERATE
21. Go back to the home page
22. Logout

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Use Case #2 – Exploratory

Persona: **Sarah Davidson**, **Junior Manual Tester**
2y of experience
Works at Value Giant
Lives in Sacramento, CA

Preparations / Prerequisites

- Mobile Device connected (local or hosted)
- iOS and Android apps for Advantage Online Shopping
- Glossary:
  - **Session** – an uninterrupted period of time spent in executing tests. In exploratory testing, each test session is focused on a charter, but testers can also explore new opportunities or issues during a session. The tester creates and executes on the fly and records their progress (ISTQB)
  - **Test Charter** - A statement of test objectives, and possibly test ideas about how to test. (ISTQB).
  - Example of a charter: "Make sure that the overall look and feel of the application behaves according to spec"
  - **Application Modules** – application modules that will be covered in the session. E.g login page, dashboard, etc.

Customer Scenario

Web:

1. Go to Exploratory tab
2. Create a new **Web** session
3. Define the time of the session (5-10 minutes)
4. Define the charter of the session: "Ensure that Advantage Online Shopping buying mechanism is working"
5. Define the Application Modules of the session (Landing Page, Tablets, Add to Cart, Checkout)
6. Define an environment for the session
7. Start the session (make sure you press the record button as well)
8. In the VNC screen. After steps b and d take a snapshot:
   a. Navigate to Advantage (http://www.advantageonlineshopping.com/#/)
   b. Press on tablets
   c. Press on Buy Now
   d. Press on Add to Cart
   e. Press on Checkout
   f. Take a snapshot
   g. Annotate it
   h. See your Shopping Cart
9. Add a comment
10. Open the storyboard to see the steps that were captured
11. Finish the session
12. Give it a status (pass/fail) and a summary
13. Go to the results tab and see the session results

Mobile:

1. Go to Exploratory tab
2. Create a new **Mobile Apps** session
3. Define the time of the session (5-10 minutes)
4. Define the charter of the session: "Ensure that Advantage Online Shopping buying mechanism is working"
5. Define the Application Modules of the session (Landing Page, Tablets, Add to Cart, Checkout)
6. Define a device for the session
7. Define the Advantage Online Shopping App for your device
8. Start the session (make sure you press the record button as well)
9. In the VNC screen:
   a. Open the Advantage Online Shopping app on the device
   b. Press on tablets
   c. Press on Buy Now
   d. Take a snapshot
   e. Press on Add to Cart
   f. Press on Checkout
   g. See your Shopping Cart

10. Finish the session
11. Give it a status (pass/fail) and a summary

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Use Case #3 – Recording a new Script

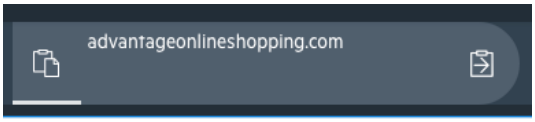
Persona: **Tobias Sankt, Automation Engineer**
4y of experience as an Automation Engineer
Works at Twien Electronics
Lives in München, Germany

Preparations / Prerequisites

- N/A

Customer Scenario

1. Go to Scripts
2. Press on record button and select Web
3. Press on the red recording button
4. Wait for the browser to come up
5. Navigate to Advantage Online shopping (http://www.advantageonlineshopping.com/#/)
   Alternatively: you can copy the URL into clipboard section:



6. In advantage:
   a. Press on speakers
   b. Press on Buy Now
   c. Press on Add to Cart
   d. Press on Checkout
   e. See your Shopping Cart
7. Press on the console and see the recorded steps (this is a real LeanFT script in JavaScript SDK wrapped in mocha)
8. Record a checkpoint (notice that the objects are being highlighted)
9. Stop the recording
10. Press on exit
11. Give the script a meaningful name
12. See that the new script is added to the assets
13. Record an additional script

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Use Case #4 – Test Execution

Persona: **Anish Sib Narang, Test Architect**
12y of experience in testing
Works at Kilnidear
Lives in Bangalore, India

Preparations / Prerequisites

- Scripts ready in the assets
- Glossary: a test is a logical entity that has 1 or more scripts running on 1 or more environments. Each script will be executed in parallel on the environments you selected

Customer Scenario

1. Go to Automation
2. Create a new **Web** test
3. Give the test a name and a description
4. Add several tags to the tests (eg. “sanity”, “e2e”)
5. Press on scripts
6. Add a script
7. Press on Environment
8. Add an environment (note: IE is not supported currently for running LeanFT)
9. Press on the run button
10. Press on the notification area on the upper right corner to see that the test is running: 
11. Wait for the test to finish running
12. Go for the results and check the results of the test
13. Run the test again

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Use Case #5 – Analyzing Single Environment Results

Persona: **Chad Martinez, Test Manager**
18y of experience in testing
Works at Florist Pedia
Lives in Knoxville, TN, USA

Preparations / Prerequisites

- Completed test results

Customer Scenario

1. Go to Results
2. See the latest run of your test
3. Notice that the test has 2 runs
4. Press on the expand button to see previous run results
5. Collapse the results
6. Press on the last results
7. In case your test had any errors or warning you'll see them in the bottom part
8. Examine the left part of the view to see the meta-data of the test run
9. Press the circle that represents the script to drill into the script level overview
10. Press on some of the steps
11. Examine its resources (script, snapshot, etc.)
12. Review a steps details when pressing the **i** icon

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Use Case #6 – Dashboard

Persona: Jimmie Sims, **QA TL**
5y of experience as a TL, 15y in testing
Works at Teleworm
Lives in Cleveland, OH, USA

Preparations / Prerequisites

- Tests results in SRF
- SRF image
- Dashboard areas:
  - Upper part: the cover photo. Allows the team to customize and give a personal look to SRF
  - Right upper pane: google analytics – will be part of a later hands-on
  - Right bottom pane: single test view. Allows the tester to focus on a specific test in SRF
  - Middle part: Tests trend and recent runs
  - Left part: license widget and smart tasks

Customer Scenario

1. Go to the Home page
2. Change the cover photo of the dashboard
   Note: optimal dimensions are 1546x388 for the photo
3. On the bottom-right part add a new single test view. Type either test name or its ID (that can be found in the automation tab)
4. Add another widget with a different test
5. Configure the Test Results Trends to show only the passed tests
6. Configure the Test Results Trends to show only the “sanity” tag
7. Configure the Recent runs to show only tests that were ran by your user
8. Examine the License widget and mouse over the minutes section to see exactly how many minutes you have left

Use Case #7 – UFT Remote Execution

Persona: Felicia Myers, **Senior Test Architect**
16y of experience as in testing
Works at Blue Yonder Airlines
Lives in Yorkshire, UK

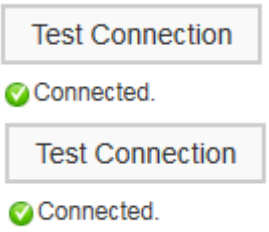
Preparations / Prerequisites

- UFT machine (14.03)
- Web script
- Client ID & secret from SRF

Customer Scenario

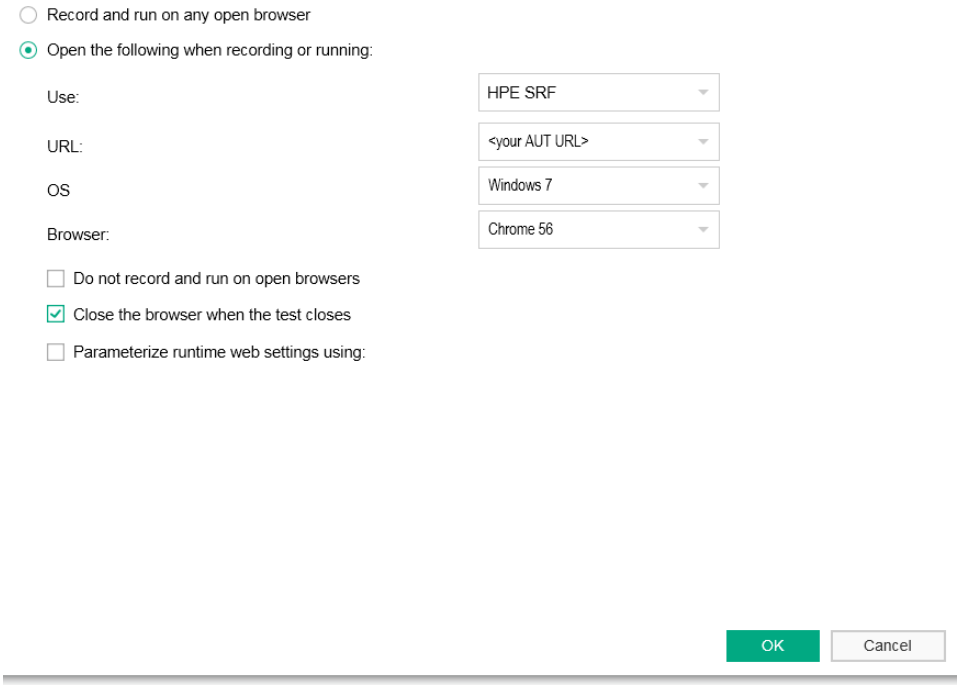
Note: this configuration is being done once per UFT machine

1. Open your UFT
2. Create a new web test or import an existing one
3. Go to Tools → Options
4. GUI Testing → Cloud
5. Enter the "*ftaas.saas.hpe.com/ws/gateway*" in the Server Address
6. t generated in the previous section
7. :hen enter your proxy configurations
8.
9. then you'll get a "connected" message



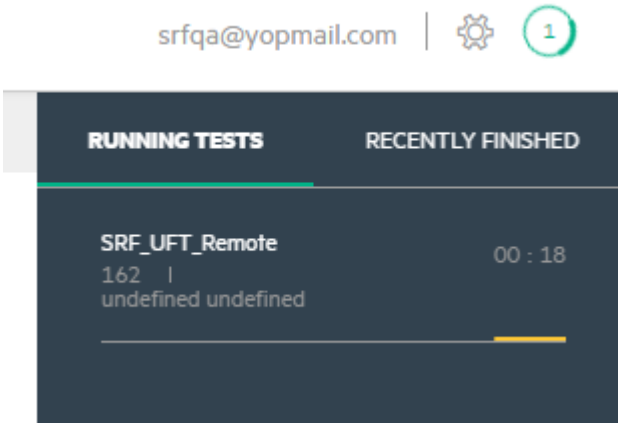
:

10. Go to Record → "Record and Run Settings"
11. In the "Use" select "HPE SRF
12. URL: keep the same value as before (the URL of your AUT)
13. OS: select the operating system that you want
14. Browser: select the remote browser you want



Press Ok

15. Run your test
16. Go to FTaaS UI
17. At the top-right corner you should see the notification icon  displaying that the test is running
18. Pressing on it will open the notification area with more information



19. When the test finishes, you'll now see it in the "Recently Finished" tab with the status of the run

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Use Case #8 – UFT Script Upload + Parallel Execution in the Cloud

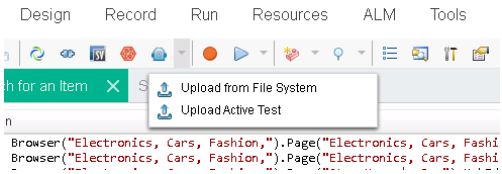
Persona: Felicia Myers, **Senior Test Architect**
16y of experience as in testing
Works at Blue Yonder Airlines

Preparations / Prerequisites

- UFT machine (14.03)
- Web script
- Client ID & secret from SRF

Customer Scenario

1. Open your UFT
2. Open a web (or mobile) script
3. Configure your UFT to connect to SRF as described in use case #7 steps 3-9
4. Press on the robot icon visible in the toolbar above the script editor:



5. Select “Upload Active Test”

6. Give your script a name
7. Define if it’s a web or mobile script
8. Press upload
9. Go to SRF and in the scripts tab you can now see the uploaded UFT script ready to be executed
10. Go to the automation tab
11. Create a new test
12. Add 3 new environments
13. Add the newly uploaded script
14. Run the script

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Use Case #9 – Record UFT Mobile Script

Persona: Felicia Myers, **Senior Test Architect**
16y of experience as in testing
Works at Blue Yonder Airlines

Preparations / Prerequisites

- UFT machine (14.03)
- Client ID & secret from SRF

Customer Scenario

1. Open your UFT
2. Configure your UFT to connect to SRF as described in use case #7 steps 3-9
3. Create a new “GUI Test” script
4. Go to Record → “Record and Run Settings…”
5. In the “Mobile” tab select “Use StormRunner Functional”
6. Select a device (either by capabilities or specific)
7. Select the AUT and complete the Action and Launch settings
8. Click OK
9. Start recording
10. Perform some actions (note the script statements are created in UFT)
11. Stop the recording
12. Save