Testing NodeJS, REST APIs and MongoDB with UFT

Questions and Answers

January 19, 2016

Q: How user friendly if we use only services without GUI?
A: UFT's API testing is exactly for that, creating a friendly UI that represents headless services, so the user can interact with it

Q: Typically QA engineers are not familiar with APIs. You see the developer doing the API testing?
A: The development world is shifting strongly to work in TDD and BDD, thus a major part of the development is creating tests. Never the less, UFT's API testing was built specifically for the tester that didn't write the service. He only needs the metadata or documentation of the APIs and the rest is working with UFT

Q: Is there plans to offer ape test without going thru the "user friendly ui". ? I. E. completely by code?
A: The user can also code in UFT using C#. He can create custom code activities with his own logic

Q: The goal of any testing is to meet customer's expectation. How can it be done on API level when 90% of the users are business but not technical users?
A: UFT's API testing was built for that, creating a friendly UI that represents headless services, so the user can interact with it without the need of technical code writin
On top of the API test, HP also provides tools for the business analyst as BPT

Q: There is no point to automate testing if system has more than 20% changes. You have to be more careful when recommend 80% functional test automation
A: We stated that in today's rapid development environment (Agile/DevOps, etc.), we are required to provide feedback all the time. In order to achieve such behavior, the current recommendation by analysts (and as quoted in the webinar) is to dedicate 80% of your

testing efforts to automation and 20% to manual. This is regardless of the amount of changes the application you are testing have

Q: Can create a synthetic transaction for BSM to monitor respond time with UFT? How does the transaction in UFT integrate with OMi /BSM ?
A: UFT has full integration with BSM, and LR

Q: How is it different from HP VuGen?
A: VuGen is for load testing on the wire level, while UFT is for functional testing on the protocol level

Q: Does it support all the CRUD operations... e.g. POST/GET/PUT/DELETE?
A: YES

Q: Is possible to add or modify the HTTP Header e.g. AcceptHeader and Content Type?
A: YES. UFT gives the customer full control to modify and change the message content including the headers

Q: Is it possible to add the authorization header parameters to validate the authentication for restricted RESTFul API's?
A: For REST, UFT supports SSL

Q: When authentication is required for the API, it gets tricky right... how the UFT handles the authentication whether it's Ping or other authentication process?
A: UFT has full support of authentication of API calls including keep-alive, timeouts and preemptive authentication

Q: In an API, if there are multiple requests (Get and Post) is there a possibility to pass on the parameters from GET request to the POST request?
A: Yes, there is a built in linking mechanism in UFT, thus the customer can use values from one activity to an additional activity

Q: While developing scripts using UFT is there a possibility to conditionally looping

A: UFT includes and if-else statments

Q: How we validate the test results in API if the UI is not available? Is it too difficult to validate?
A: Validation is the essence of the functional test, and UFT exposes a big verity of checkpoints. Checkpoints are being executed on the response coming from the server

Q: Is the expert view with code view and manipulation available? Is it still VBScript, or are other languages available?
A: UFT's GUI test is VBScript, while for UFT's API test in most of the cases there is no need for coding. However if code is needed it's in C#

Q: What is the licensing for these API testing features? Are these features included in the base UFT, is it an additional cost?
A: They are included in the UFT license

Q: What options are available for SAP?
A: GUI test exposed dedicated support for several SAP technologies (e.g. SAP GUI, SAP UI5). API test includes testing of the BAPI and IDOC

Q: Are there any APIs to pool metrics from SAP solution manager or HANA DB?
A: If SAP solution manager offers a REST API then you can test it with UFT's API testing

Q: Is it possible to validate 2 child nodes at the same time, for example: child 1 = Paris AND child2 = Rome?
A: This is possible using a specific xpath

Q: We have a QTP license but not UFT. What is the average upgrade Cost for 1 license from QTP to UFT?
A: It is better to contact you HPE sales representative on any licensing matters. If you don't know who your sales rep is you can contact them at ask a sales expert

Q: Can we use the API scripts for load or performance test?

A: Yes. An API test can be converted in one click to a load enabled test that can be run with VUgen/Controler

Q: Does this integrate with BSM or OMI products to monitor a flow you would build to validate functionality?
A: Yes. UFT has full integration with BSM

Q: Do u get the api to work with? You showed recording the GUI, but how do u record the API?
A: the API can be imported from a metadata if there is such (e.g. WSDL, WADL, Swagger). Or to be created manually using predefined templates

Q: How relevant is testing API's using UFT when following TDD?
A: TDD is a development methodology. However if development was done in TDD the odds are that the APIs will be public for testing early in the process, thus can be tested by QA