Flyer

Application Delivery Management

Intelligent Test Automation with Micro Focus UFT One

Deliver the speed and resiliency required to achieve automation at scale that is tightly integrated with an organization's current DevOps toolchain.

When it comes to building and delivering better software faster, organizations can no longer choose between speed and quality if they expect to remain competitive in today's DevOps environment. What's needed is a faster way to engineer quality into every application. Micro Focus® anticipated this need for faster, smarter testing and embedded multiple intelligent automation capabilities into UFT One. These new features enable teams using UFT One to accelerate the creation of automation assets and reduce the maintenance effort required to match the pace of application changes.

The Benefits of Micro Focus Intelligent Test Automation Solutions

Intelligent Automation is the key to more resilient test coverage. The benefits of intelligent test automation include:

- Prevent defects from escaping into production by detecting and fixing them earlier
- Reduce costs through simple test creation and maintenance, reusable and resilient test scripts, and lower test infrastructure expenditure
- Ensure products meet customer expectations on all platforms

UFT One's Intelligent Test Automation Capabilities

Computer Vision (Also Known as Image-based Processing)

Keep up with unpredictable UI changes by learning objects like humans do—through image-based automation, visual anchors, and embedded OCR (Optical Character Recognition) with either the ABBYY OCR engine or the Google Tesseract OCR engine.

- **Image-based automation**
  Identifying objects using Insight (Insight): Insight enables UFT One to recognize objects in the application based on what they look like, instead of properties that are part of their design. This can be useful for working with an application running on a remote computer.
- **Visual anchors**
  Visual relation identifiers (VRI): To improve object identification, create a visual relation identifier, which is a set of definitions that enable for the identification of the object in the application according to the relative location of its neighboring objects.
- **Embedded OCR**
  Text recognition in run-time (Text recognition): When working with tests and scripted components, the text and text area checkpoint or output value commands can be used to verify or retrieve text in objects.

Machine-Driven Regression Testing

Find anomalies easily, such as latency issues, scripting errors, visual regressions, broken links, and more.

- **Latency issues**
  Run a test using an emulated network (Testing emulated networks): This task describes how to trigger a network emulation session from UFT One and run tests on the virtualized network. This enables for the monitoring of network performance while an application is running.
- **Scripting errors**
  Smart identification (Smart Identification): When UFT One uses the learned description to identify an object, it searches for an object that matches all of the property values in the description. In most cases, this description is the simplest way to identify the object, and, unless the main properties of the object change, this method will work. If UFT One is unable to find any object that matches the learned object description, or if it finds more than one object that fits the description, then UFT One ignores the learned description, and uses the Smart Identification mechanism (if defined and enabled) to try to identify the object.
- **Visual regressions**
  Applitools for visual regression tests (Applitools SDK for UFT One): The Applitools Eyes UFT One SDK allows for visual checkpoints to be easily added to UFT One tests. It also produces screenshots of the application from UFT One, sending

them to the Eyes server for validation and failing the test if case differences are found.

- **Broken links**
  Using Page checkpoints for broken links (Page checkpoints): Use page checkpoints to check statistical information for key web pages. These checkpoints inspect the links and the sources of the images on a web page and instruct page checkpoints to include a check for broken links.

Cognitive Analysis (Also Known as Text Analysis)

Extract text and data values directly from an app for analysis, or collect analog text directly from images.

- **Data extraction**
  Test Combinations Generator (TCG) enhancements (Pull data in TCG): UFT One's TCG tool supports an additional method of generating values from list objects, by pulling data directly from the application that is being testing.
- **Text from images**
  Text recognition in runtime (Checking text in an image): When working with tests and scripted components, use the text and text area checkpoint or output value commands to verify or retrieve text in objects. UFT One identifies text in an application via an OCR mechanism.

Synthetic Data Creation

Create data intelligently using multiple algorithms to reduce the size of a test data set without serious loss of quality.

- **Data creation**
  Generate data to drive your test (Test Combinations Generator): The Test Combinations Generator helps to prepare test configuration data by using the parameters in the test and their possible values to create multiple data combinations. Once the data is specified, and depending on the number of parameters, this task can grow exponentially. Use the Test Combinations Generator to do the work automatically.

Emulated Biometrics

Simulate facial and fingerprint authentication methods for interactive mobile sessions.

- **Fingerprint simulation**
  Fingerprint authentication simulation (Mobile fingerprint authentication): For increased security and convenience, UFT One supports the new SimulateFingerprint and SetFingerprintSimulationMode methods in mobile scripts on iOS devices for fingerprint authentication simulation.
- **Face simulation**
  Facial recognition authentication simulation (Mobile facial authentication): For increased security and convenience, UFT One supports facial recognition authentication simulation in mobile scripts on iOS devices for facial authentication simulation.

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