RobotframeworkExtensions

v. 0.7.0

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Introduction

The Robotframework Extensions Collection extends the functionality of the Robotframework by some keywords providing features, that are implemented in the Python Extensions Collection.

The goal behind these extensions is to have certain functionality available in both: pure Python applications and Robotframework.

The Robot framework Extensions Collection requires an installed Python Extensions Collection, that can be found in this repository:

python-extensions-collection

Collection.py

The Collection module is the interface between the Python Extensions Collection and the Robotframework. This library containing the keyword definitions, can be imported in the following way:

Library RobotframeworkExtensions.Collection WITH NAME rf.extensions

2.1 Class: Collection

RobotframeworkExtensions.Collection

Module main class

2.1.1 Method: pretty_print

The pretty_print keyword logs the content of parameters of any Python data type (input: oData).

Simple data types are logged directly. Composite data types are resolved before logging.

The output contains for every parameter: the value, the type and counter values (in case of composite data types).

The trace level for output is INFO.

The output is also returned as list of strings.

Arguments:

• oData

```
/ Condition: required / Type: any Python type / Data to be pretty printed
```

Returns:

• listOutLines (list)

```
/ Type: list /
```

List of strings containing the resolved data structure of oData (same content as printed to console).

Example:

Variable of Python type list:

```
set_test_variable @{aItems} String
... ${25}
... ${True}
... ${None}
```

Call of pretty_print keyword:

```
rf.extensions.pretty_print ${aItems}
```

Output:

```
INFO - [LIST] (4/1) > [STR] : 'String'
INFO - [LIST] (4/2) > [INT] : 25
INFO - [LIST] (4/3) > [BOOL] : True
INFO - [LIST] (4/4) > [NONE] : None
```

2.1.2 Method: normalize_path

The normalize_path keyword normalizes local paths, paths to local network resources and internet addresses

Arguments:

• sPath

```
/ Condition: required / Type: str / The path to be normalized
```

• bWin

```
/ Condition: optional / Type: bool / Default: False /
```

If True then the returned path contains masked backslashes as separator, otherwise slashes

• sReferencePathAbs

```
/ Condition: optional / Type: str / Default: None /
```

In case of sPath is relative and sReferencePathAbs (expected to be absolute) is given, then the returned absolute path is a join of both input paths

• bConsiderBlanks

```
/ Condition: optional / Type: bool / Default: False /
```

If True then the returned path is encapsulated in quotes - in case of the path contains blanks

• bExpandEnvVars

```
/ Condition: optional / Type: bool / Default: True /
```

If True then in the returned path environment variables are resolved, otherwise not.

• bMask

```
/ Condition: optional / Type: bool / Default: True (requires bWin=True) /
```

If bWin is True and bMask is True then the returned path contains masked backslashes as separator.

If bWin is True and bMask is False then the returned path contains single backslashes only - this might be required for applications, that are not able to handle masked backslashes.

In case of bWin is False bMask has no effect.

Returns:

```
• sPath
/ Type: str /
The normalized path (is None in case of sPath is None)
```

Example 1:

Variable containing a path with:

- different types of path separators
- redundant path separators (but backslashes have to be masked in the definition of the variable, this is *not* an unwanted redundancy)
- up-level references

```
set_test_variable ${sPath}

→ C:\\subfolder1///../subfolder2\\\../subfolder3\\
```

Printing the content of sPath shows how the path looks like when the masking of the backslashes is resolved:

```
C:\subfolder1///../subfolder2\\../subfolder3\
```

Usage of the normalize_path keyword:

```
${sPath} rf.extensions.normalize_path ${sPath}
```

Result (content of sPath):

```
C:/subfolder3
```

In case we need the Windows version (with masked backslashes instead of slashes):

```
\{sPath\} rf.extensions.normalize_path \{sPath\} bWin=$\{True\}
```

Result (content of sPath):

```
C:\\subfolder3
```

The masking of backslashes can be deactivated:

```
 \begin{array}{lll} \$\{sPath\} & rf.extensions.normalize\_path & \$\{sPath\} & bWin=\$\{True\} \\ & \to & bMask=\$\{False\} \\ \end{array}
```

Result (content of sPath):

```
C:\subfolder3
```

Example 2:

Variable containing a path of a local network resource:

Result of normalization:

```
//anyserver.com/part1/part2/part3/part4
```

Example 3:

Variable containing an internet address:

```
set_test_variable ${sPath}

\( \text{\naim http:\\\\anyserver.com\\part1//part2\\\\part4}
\)
```

Result of normalization:

```
http://anyserver.com/part1/part2/part3/part4
```

Appendix

About this package:

Table 3.1: Package setup

Setup parameter	Value
Name	RobotframeworkExtensions
Version	0.7.0
Date	28.06.2022
Description	Additional Robot Framework keywords
Package URL	robotframework-extensions-collection
Author	Holger Queckenstedt
Email	Holger.Queckenstedt@de.bosch.com
Language	Programming Language :: Python :: 3
License	License :: OSI Approved :: Apache Software License
OS	Operating System :: OS Independent
Python required	>=3.0
Development status	Development Status :: 4 - Beta
Intended audience	Intended Audience :: Developers
Topic	Topic :: Software Development

History

0.1.0	01/2022				
Initial version	on				
0.2.0	03/2022				
Setup maint	Setup maintenance				
0.3.0	05/2022				
Documentate	Documentation tool chain switched to GenPackageDoc				
0.4.0	24.05.2022				
	Documentation rebuild with $GenPackageDoc\ v.\ 0.13.0;$ code maintenance				
0.5.0	31.05.2022				
Adapted to 6	Adapted to GenPackageDoc $v.\ 0.15.0$				
0.6.0	02.06.2022				
Documentation rebuild with GenPackageDoc v. $0.16.0$; code maintenance					
0.7.0	28.06.2022				
PythonExter	asionsCollection updated to version 0.8.0				

 ${\bf Robot framework Extensions.pdf}$

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