Soap UI - Groovy

Print logs

log.info('TestCaseName')

log.warn('Unable to load data')

log.error('Unable to convert ${var_name}')

Expand Properties

context.expand('${#Project#Variable}')

context.expand('${#TestSuite#Level}')

context.expand('${#TestCase#EmplNumber}')

Get Properties (testrunner)

testRunner.testCase.getPropertyValue("MyProp")

testRunner.testCase.testSuite.getPropertyValue("MyProp")

testRunner.testCase.testSuite.project.getPropertyValue("MyProp")

Set Properties (testrunner)

testRunner.testCase.setPropertyValue('MyProp' ,'Test')

testRunner.testCase.testSuite.getPropertyValue('MyProp' , 22)

testRunner.testCase.testSuite.project.getPropertyValue('Endpoint' , dev)

Load properties from file

```
props = new java.util.Properties();
props.load( new FileInputStream('testProps.properties') );          // file should be placed in %SOAP_UI_HOME%\bin

props.getProperty('QA_PROP');
props.getProperty('DEV_PROP');
```

Register JDBC driver

com.eviware.soapui.support.GroovyUtils.registerJdbcDriver("com.mysql.jdbc.Driver")

SQL Query

```
import java.sql.*
import groovy.sql.Sql

def sql = Sql.newInstance(dbPath, dbUserName, dbPassword, dbDriverName);
def res = sql.execute( "SELECT * FROM TABLE1 WHERE COL1='333'" );

sql.eachRow("select * from Emp") {
  log.info("age=${it.age}, name= ${it.name}")
}
```

XML

Parsing XML (XmlParser)

```groovy
def xml = new XmlParser().parseText(source)
def results = xml.findAll { it.@name == 'type' }
results.each {
                log.info (it.@answer)              // OK
                log.info(it.text())                // SoapUI
                }
```

```xml
<root>
     <foo name = 'type' answer  = 'OK'>SoapUI</foo>
     <foo name = 'color' answer = 'DONE'/>
     <foo name = 'size' answer = 'GREAT'/>
     <username>test</username>
</root>
```

Parsing XML (XmlHolder)

```groovy
def groovyUtils = new com.eviware.soapui.support.GroovyUtils( context )
```

Node iteration

```groovy
def holder = groovyUtils.getXmlHolder( source )
for( item in holder.getNodeValues( "//foo" ))
     log.info "Item : [$item]"
```

Namespaces

```groovy
holder.namespaces["ns"] = "http://it.com/mynamspace"
for( item in holder.getNodeValues( "//ns:foo" ))
     log.info "Item : [$item]"
```

```xml
<root xmlns="http://it.com/mynamspace">
     <foo name = 'type' answer  = 'OK'>SoapUI</foo>
     <foo name = 'color' answer = 'DONE'/>
     <foo name = 'size' answer = 'GREAT'/>
     <username>test</username>
<root>
```

Update a Request

```groovy
holder["//username"] = "SoapUI"
holder.updateProperty()
context.requestContent = holder.xml
```

JSON

Parsing JSON

```groovy
import groovy.json.JsonSlurper

def slurper = new JsonSlurper()

def json = slurper.parseText(source)
log.info(json.age)                     // 31
log.info(json.myList[0])               // 4
```

```json
{
"name":"John",
"age":31,
"city":"New York",
"luckyNumbers":[4,8,15,16,23,42]
}
```

Groovy Library inside Project

Step >> DataBaseConnector

```groovy
class PervasiveConnector
{
code ...
}

context.setProperty( "CTL", new PervasiveConnector( log, context, testRunner) )
```

Step >> How Use Library

```groovy
testRunner.testCase.testSuite.project.testSuites["Library"].testCases["UniversalLibrary"].testSteps["DataBaseConnector"].run(testRunner, context)
context.CTL.ConnectToDb()
```