The RTest Package

Matthias Pfeifer
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Load library

```
library(RTest)

## Loading required package: testthat

## Loading required package: XML

## Loading required package: stringr
```

Create Test Adapter

```
## Define the functions to be tested
test_fun <- function(dat, mult) {</pre>
  cbind(dat, "sum" = apply(dat, 1, sum)*mult)
assign("test_fun", test_fun, envir = .GlobalEnv)
# Create test adapter
setClass(
              = "TestPackageTestCase",
       representation = representation(),
       prototype = list(),
       contains
                     = "RTestCase",
        where = .GlobalEnv
)
setTestMethod(
        "test.Pkg_1.funct_01",
        signature = "TestPackageTestCase",
        definition = function(object, inputData, execCache, xmlDef, ...) {
            # Read parameters
            mult <- xmlReadData_variable(xmlDef[["params"]][["mult"]])</pre>
            # Calculate result
            result <- test_execution(</pre>
                    what = test_fun,
                    args = list(c(inputData[[1]], mult)),
                    xmlTestSpec = xmlDef[["testspec"]][["execution"]])
```

[1] "test.Pkg_1.funct_01"

Execute test

Right after execution a browser window with the Test Report will open automatically.

```
"'r # Create test collection testCollection <- new("RTestCollection", project.name = "RTest Vignette", project.details = "Example test exectuion", tester = "Example tester", test.start = format(Sys.time(), "%Y-%m-%d %H:%M:%S"))

# Import TCs TCDir <- paste0(find.package("RTest"), "/xml-templates")

testCollection <- importTCsFromDir(testCollection, xml.dPath = TCDir)

# Execute test cases testCollection <- exec(testCollection)

# Write test report outf <- tempfile(fileext=".html") writeExecSummary.html(testCollection, out.fPath = outf)

cat("Output written to",outf,"", sep = "") "'
```