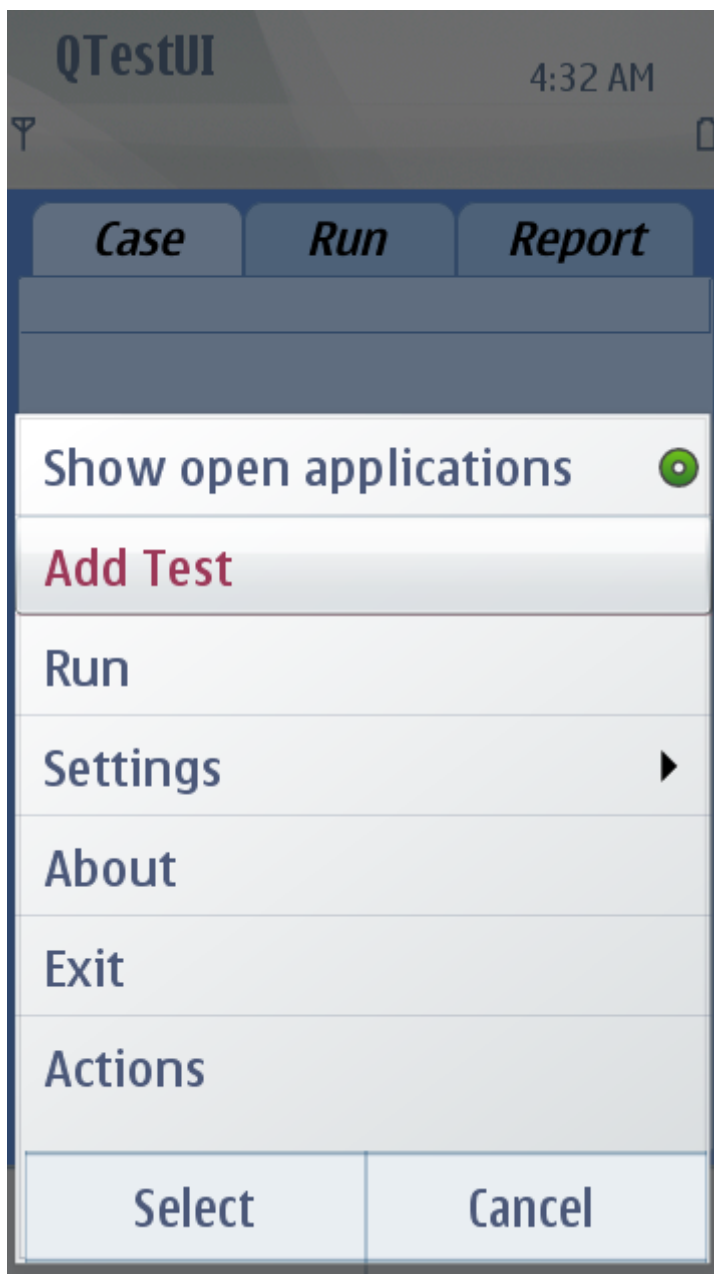# QTestUI User Guide

The QTestUI is a GUI runner for QTestLib on mobile device.
It can be used to select test cases, run test cases and view the test result in a GUI environment.
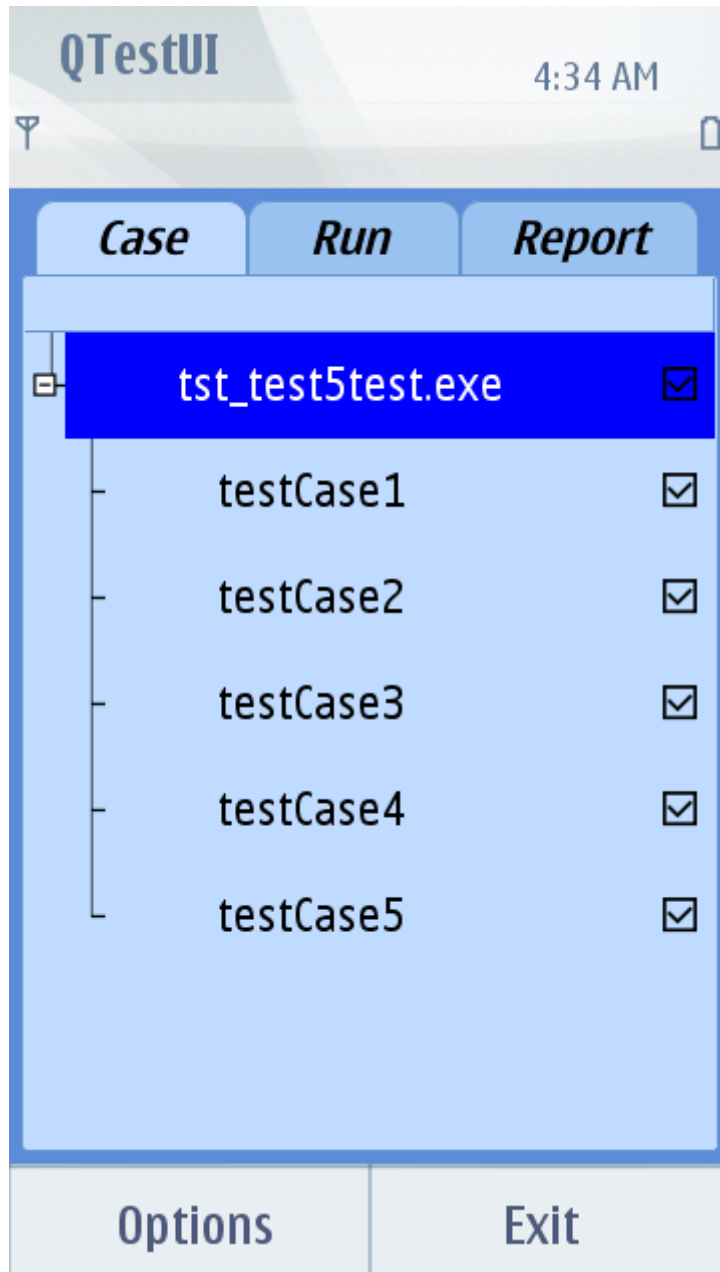
1. Loading test cases in GUI

    1.1. Loading test cases

    Select menu "Add test", and select QTestlib test file from file browser dialog.

Selected QTestLib test file is loaded in the tab "Cases". Functions are also added into the case tree.

1.2. select/unselect test cases to run

Click the checkbox follow the case/function to select/unselect case/function to run.

1.3. Set command line arguments by setting dialog

Select menu "Settings" to open one of three setting dialogs.

After setting command line arguments, click "save" button.

2. Loading test cases in config file

> The configuration must be named to QTestUI.ini. It should be by default put into ~/.config/Nokia directory on Linux/UNIX platform, or ~\Application Data\Nokia on Windows platform, or C:\Data\.config\Nokia on Symbian platform. It may be put to alternative pathes on these platforms. The search order of the path on Symbian platform is:
> 1. E:\QTestUI.ini
> 2. F:\QTestUI.ini
> 3. C:\QTestUI.ini
> 4. Default place
>
> On Windows and Linux/UNIX platform, the search order is:
> 1. Current directory
> 2. Default place
>
> NOTE: no comments are supported in the configuration file.

2.1. Loading test cases

> Adding following lines into config file QTestUI.ini to load QTestLib test file tst_test5test.exe.

```
[tst_test5test] # Identify the test
# Mandatory parameters
path = C:\\qtest\\tst_test5test.exe
# Optional.
selectedcases = testCase1 testCase2 testCase3 testCase4 testCase5
```

> Functions specified in the optinal key "selectedcases" are checked when loading into the case tree. If no "selectedcases" provided, all cases in the test file will be checked for run.

2.2. Set command line arguments
Remove/add arguments to enable/disable command line arguments in "global" section of the config file.

Below is an example:
```
[global] # This section is optional
outputformat    = xml
outputpath      = /tmp
flush           = true
silent                      = true
verbose                     = v1
eventdelay      = 50
keydelay        = 50
mousedelay      = 50
keyeventverbose = true
maxwarnings     = 10
nocrashhandler  = true

# Benchmark related options:
callgrind       = true
tickcounter     = true
eventcounter    = true
minimumvalue    = 1
iterations      = 200
```

```
median                          = 100
vb              = true

[tst_qhash] # Identify the test
# Mandatory parameters
path            = /media/DATA/workspace/QtSrc/qt/tests/auto/qhash/tst_qhash
# Optional.
selectedcases   = count clear empty find
```

Users can also use "Settings" menu to generate template configuration file:
 Click "Options -> Settings -> Output Options" (or any of the menu items), then modify any argument, click "Save". The generated configuration is in the three places described above per platform.
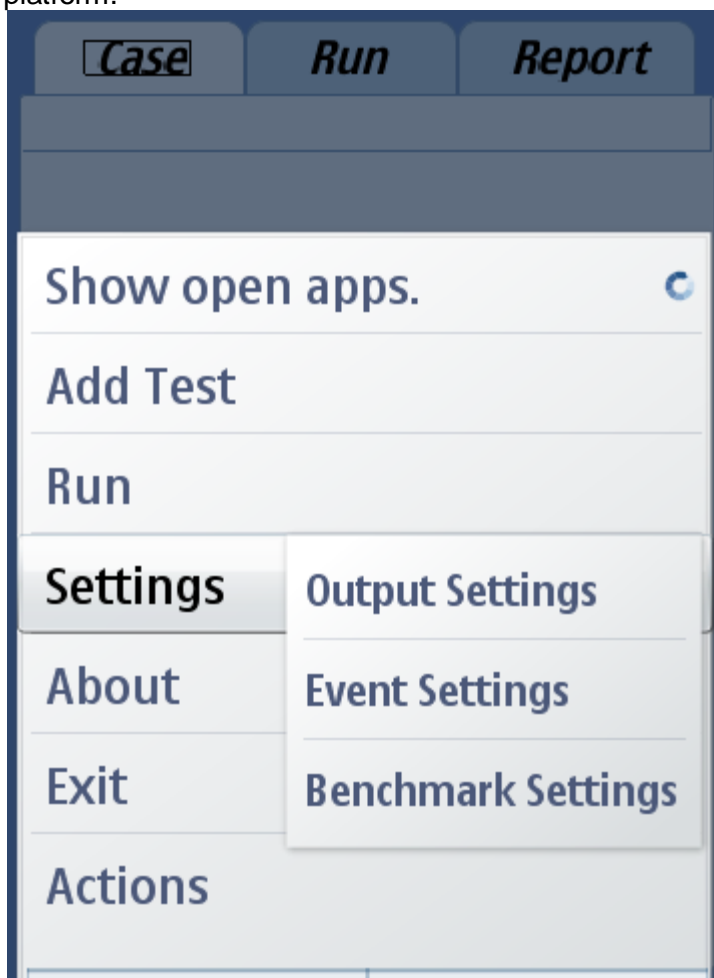
Output Settings dialog:

Event Settings dialog:

Benchmark Settings dialog:

3. Run test cases

   3.1. Start

   To start a test execution of all selected cases, select menu "Start".

   3.2. Stop

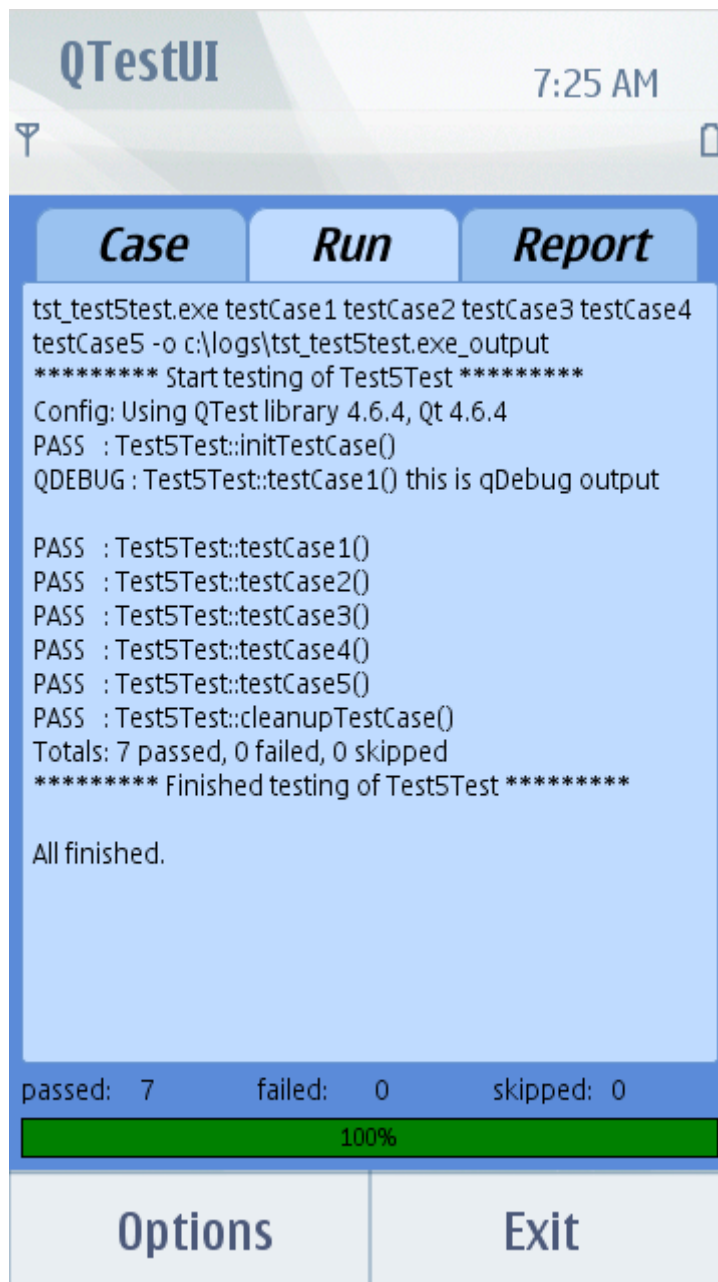   To stop the running test execution, select menu "Stop".

   3.3. Pause

   To suspend the running test execution, select menu "Pause".
   To continue the suspended execution, select menu "Start".

4. View test result

   4.1. View console output

   The tab "Run" shows the raw console output of test execution.

QTestUI   7:25 AM

Case	Run	Report

tst_test5test.exe testCase1 testCase2 testCase3 testCase4
testCase5 -o c:\logs\tst_test5test.exe_output
********* Start testing of Test5Test *********
Config: Using QTest library 4.6.4, Qt 4.6.4
PASS   : Test5Test::initTestCase()
QDEBUG : Test5Test::testCase1() this is qDebug output

PASS   : Test5Test::testCase1()
PASS   : Test5Test::testCase2()
PASS   : Test5Test::testCase3()
PASS   : Test5Test::testCase4()
PASS   : Test5Test::testCase5()
PASS   : Test5Test::cleanupTestCase()
Totals: 7 passed, 0 failed, 0 skipped
********* Finished testing of Test5Test *********

All finished.

passed: 7   failed: 0   skipped: 0
100%

Options	Exit

4.2. View test report

The tab "Report" show the test report of finished test exection, and give the summary of test result of all executed cases.

	case	pass	fail	skip
1	Summary:	7	0	0
2	tst_test5test.exe	7	0	0
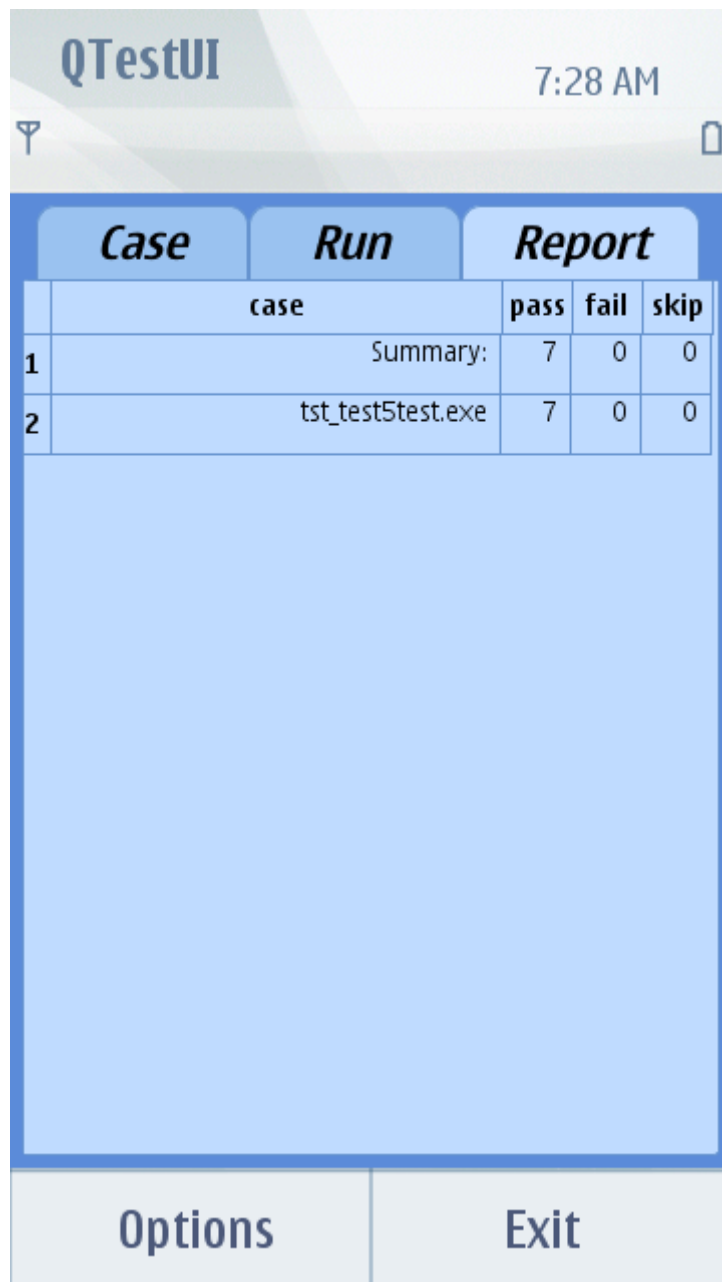
4.3. View test Log

Double click the row of one test case in test report table, test log dialog for this case popped up.

********* Start testing of Test5Test *********
Config: Using QTest library 4.6.4, Qt 4.6.4
PASS   : Test5Test::initTestCase()
QDEBUG : Test5Test::testCase1() this is qDebug output

PASS   : Test5Test::testCase1()
PASS   : Test5Test::testCase2()
PASS   : Test5Test::testCase3()
PASS   : Test5Test::testCase4()
PASS   : Test5Test::testCase5()
PASS   : Test5Test::cleanupTestCase()
Totals: 7 passed, 0 failed, 0 skipped
********* Finished testing of Test5Test *********

Close

Options