

RAPP Platform Tests - Qr Detection
v0.6.0

Generated by Doxygen 1.8.6

Fri Jul 22 2016 10:05:12

Contents

1	Namespace Index	1
1.1	Namespace List	1
2	Hierarchical Index	3
2.1	Class Hierarchy	3
3	Class Index	5
3.1	Class List	5
4	File Index	7
4.1	File List	7
5	Namespace Documentation	9
5.1	functional_tests Namespace Reference	9
5.1.1	Variable Documentation	9
5.1.1.1	PKG	9
6	Class Documentation	11
6.1	QrDetectionTest Class Reference	11
6.1.1	Detailed Description	12
6.1.2	Constructor & Destructor Documentation	12
6.1.2.1	QrDetectionTest	12
6.1.3	Member Function Documentation	12
6.1.3.1	SetUp	12
6.1.3.2	TearDown	12
6.1.4	Member Data Documentation	12
6.1.4.1	qr_detector_	12
6.2	functional_tests.QrDetFunc Class Reference	12
6.2.1	Detailed Description	13
6.2.2	Member Function Documentation	14
6.2.2.1	test_fileIsAudio	14
6.2.2.2	test_fileNotExists	14
6.2.2.3	test_qrExists	14

6.2.2.4	test_qrExists_stress	14
6.2.2.5	test_qrNotExists	14
7	File Documentation	15
7.1	/home/travis/rapp_temp/rapp-platform/rapp_qr_detection/tests/qr_detection/functional_tests.py File Reference	15
7.2	/home/travis/rapp_temp/rapp-platform/rapp_qr_detection/tests/qr_detection/unit_tests.cpp File Reference	15
7.2.1	Function Documentation	16
7.2.1.1	main	16
7.2.1.2	TEST_F	16
7.2.1.3	TEST_F	16
7.2.1.4	TEST_F	17
7.2.1.5	TEST_F	17
	Index	18

Chapter 1

Namespace Index

1.1 Namespace List

Here is a list of all namespaces with brief descriptions:

functional_tests	9
--	---

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

Test	
QrDetectionTest	11
TestCase	
functional_tests.QrDetFunc	12

Chapter 3

Class Index

3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

QrDetectionTest	
Utilizes gtest in order to provide unit tests for qr detection	11
functional_tests.QrDetFunc	
Supports the deployment of QR detection functional tests	12

Chapter 4

File Index

4.1 File List

Here is a list of all files with brief descriptions:

/home/travis/rapp_temp/rapp-platform/rapp_qr_detection/tests/qr_detection/ functional_tests.py	15
/home/travis/rapp_temp/rapp-platform/rapp_qr_detection/tests/qr_detection/ unit_tests.cpp	15

Chapter 5

Namespace Documentation

5.1 functional_tests Namespace Reference

Classes

- class [QrDetFunc](#)
Supports the deployment of QR detection functional tests.

Variables

- string [PKG](#) = 'ros_nodes'

5.1.1 Variable Documentation

5.1.1.1 string functional_tests.PKG = 'ros_nodes'

Definition at line 17 of file functional_tests.py.

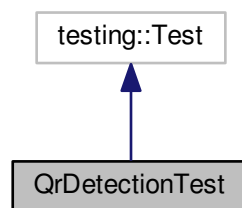
Chapter 6

Class Documentation

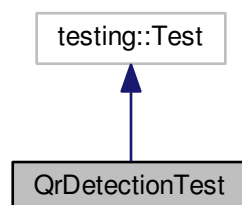
6.1 QrDetectionTest Class Reference

Utilizes gtest in order to provide unit tests for qr detection.

Inheritance diagram for QrDetectionTest:



Collaboration diagram for QrDetectionTest:



Protected Member Functions

- [QrDetectionTest\(\)](#)

Default constructor.

- virtual void [SetUp](#) ()

Sets up stuff before each unit test call.

- virtual void [TearDown](#) ()

Clears up stuff after each unit test call.

Protected Attributes

- QrDetector * [qr_detector_](#)

6.1.1 Detailed Description

Utilizes gtest in order to provide unit tests for qr detection.

Definition at line 27 of file `unit_tests.cpp`.

6.1.2 Constructor & Destructor Documentation

6.1.2.1 QrDetectionTest::QrDetectionTest () [inline], [protected]

Default constructor.

Definition at line 33 of file `unit_tests.cpp`.

6.1.3 Member Function Documentation

6.1.3.1 virtual void QrDetectionTest::SetUp () [inline], [protected], [virtual]

Sets up stuff before each unit test call.

Definition at line 40 of file `unit_tests.cpp`.

6.1.3.2 virtual void QrDetectionTest::TearDown () [inline], [protected], [virtual]

Clears up stuff after each unit test call.

The QrDetector object, used to test its functions

Definition at line 48 of file `unit_tests.cpp`.

6.1.4 Member Data Documentation

6.1.4.1 QrDetector* QrDetectionTest::qr_detector_ [protected]

Definition at line 54 of file `unit_tests.cpp`.

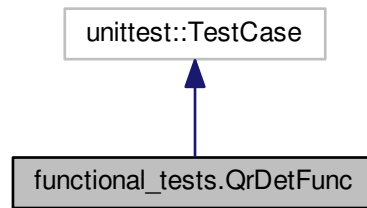
The documentation for this class was generated from the following file:

- `/home/travis/rapp_temp/rapp-platform/rapp_qr_detection/tests/qr_detection/unit_tests.cpp`

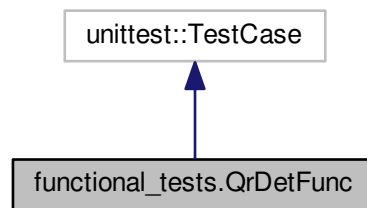
6.2 functional_tests.QrDetFunc Class Reference

Supports the deployment of QR detection functional tests.

Inheritance diagram for functional_tests.QrDetFunc:



Collaboration diagram for functional_tests.QrDetFunc:



Public Member Functions

- def [test_fileIsAudio](#)
Tests qr detection with an audio file.
- def [test_fileNotExists](#)
Tests qr detection with a non-existent image.
- def [test_qrExists](#)
Tests QR detection with an image containing a QR.
- def [test_qrExists_stress](#)
Stress test for the QR detection.
- def [test_qrNotExists](#)
Tests qr detection with an image containing a face.

6.2.1 Detailed Description

Supports the deployment of QR detection functional tests.

Definition at line 32 of file functional_tests.py.

6.2.2 Member Function Documentation

6.2.2.1 `def functional_tests.QrDetFunc.test_fileIsAudio (self)`

Tests qr detection with an audio file.

Should return 0 qrs

Definition at line 88 of file functional_tests.py.

6.2.2.2 `def functional_tests.QrDetFunc.test_fileNotExists (self)`

Tests qr detection with a non-existent image.

Should return 0 qrs

Definition at line 75 of file functional_tests.py.

6.2.2.3 `def functional_tests.QrDetFunc.test_qrExists (self)`

Tests QR detection with an image containing a QR.

Should return 1 qr

Definition at line 35 of file functional_tests.py.

6.2.2.4 `def functional_tests.QrDetFunc.test_qrExists_stress (self)`

Stress test for the QR detection.

Performs 100 consecutive calls

Definition at line 48 of file functional_tests.py.

6.2.2.5 `def functional_tests.QrDetFunc.test_qrNotExists (self)`

Tests qr detection with an image containing a face.

Should return 0 qrs

Definition at line 62 of file functional_tests.py.

The documentation for this class was generated from the following file:

- /home/travis/rapp_temp/rapp-platform/rapp_qr_detection/tests/qr_detection/functional_tests.py

Chapter 7

File Documentation

7.1 /home/travis/rapp_temp/rapp-platform/rapp_qr_detection/tests/qr_detection/functional_tests.py File Reference

Classes

- class [functional_tests.QrDetFunc](#)

Supports the deployment of QR detection functional tests.

Namespaces

- [functional_tests](#)

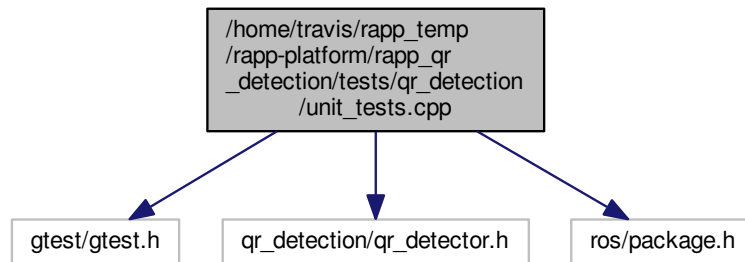
Variables

- string [functional_tests.PKG](#) = 'ros_nodes'

7.2 /home/travis/rapp_temp/rapp-platform/rapp_qr_detection/tests/qr_detection/unit_tests.cpp File Reference

```
#include <gtest/gtest.h>
#include <qr_detection/qr_detector.h>
#include <ros/package.h>
```

Include dependency graph for unit_tests.cpp:



Classes

- class [QrDetectionTest](#)
Utilizes gtest in order to provide unit tests for qr detection.

Functions

- int [main](#) (int argc, char **argv)
The main function. Initializes the unit tests.
- [TEST_F](#) ([QrDetectionTest](#), lenna_test)
Tests QR detection with an image containing face. Should return 0 qrs.
- [TEST_F](#) ([QrDetectionTest](#), qr_test)
Tests QR detection with an image containing a qr. Should return 1 qr.
- [TEST_F](#) ([QrDetectionTest](#), file_not_exists_test)
Tests QR detection with a non-existent image. Should return 0 qrs.
- [TEST_F](#) ([QrDetectionTest](#), zero_sized_image_test)
Tests QR detection with a zero-sized image. Should return 0 qrs.

7.2.1 Function Documentation

7.2.1.1 int main (int argc, char ** argv)

The main function. Initializes the unit tests.

Definition at line 108 of file `unit_tests.cpp`.

7.2.1.2 TEST_F (QrDetectionTest , lenna_test)

Tests QR detection with an image containing face. Should return 0 qrs.

Definition at line 61 of file `unit_tests.cpp`.

7.2.1.3 TEST_F (QrDetectionTest , qr_test)

Tests QR detection with an image containing a qr. Should return 1 qr.

Definition at line 73 of file `unit_tests.cpp`.

7.2.1.4 TEST_F (QrDetectionTest , file_not_exists_test)

Tests QR detection with a non-existent image. Should return 0 qrs.

Definition at line 85 of file unit_tests.cpp.

7.2.1.5 TEST_F (QrDetectionTest , zero_sized_image_test)

Tests QR detection with a zero-sized image. Should return 0 qrs.

Definition at line 97 of file unit_tests.cpp.

Index

/home/travis/rapp_temp/rapp-platform/rapp_qr_detection/tests/qr-
_detection/functional_tests.py, [15](#)

/home/travis/rapp_temp/rapp-platform/rapp_qr_detection/tests/qr-
_detection/unit_tests.cpp, [15](#)

functional_tests, [9](#)

 PKG, [9](#)

functional_tests.QrDetFunc, [12](#)

functional_tests::QrDetFunc

 test_fileIsAudio, [14](#)

 test_fileNotExists, [14](#)

 test_qrExists, [14](#)

 test_qrExists_stress, [14](#)

 test_qrNotExists, [14](#)

main

 unit_tests.cpp, [16](#)

PKG

 functional_tests, [9](#)

qr_detector_

 QrDetectionTest, [12](#)

QrDetectionTest, [11](#)

 qr_detector_, [12](#)

 QrDetectionTest, [12](#)

 QrDetectionTest, [12](#)

 SetUp, [12](#)

 TearDown, [12](#)

SetUp

 QrDetectionTest, [12](#)

TEST_F

 unit_tests.cpp, [16](#), [17](#)

TearDown

 QrDetectionTest, [12](#)

test_fileIsAudio

 functional_tests::QrDetFunc, [14](#)

test_fileNotExists

 functional_tests::QrDetFunc, [14](#)

test_qrExists

 functional_tests::QrDetFunc, [14](#)

test_qrExists_stress

 functional_tests::QrDetFunc, [14](#)

test_qrNotExists

 functional_tests::QrDetFunc, [14](#)

unit_tests.cpp

 main, [16](#)

 TEST_F, [16](#), [17](#)