

Test Cases

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1.

Module Name: MySQL database	Design Date: 26/5/2015	Execution Date: 26/5/2015	Test Title: Database access	Tested By: Declan Holmes
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Test Description:

The objective of this test is to test the accessibility of the database necessary to the function of the developed solution.

Pre-conditions:

- MySQL database is deployed on server.
- myPHPAdmin is configured on server.

Test Steps:

MyPHPAdmin Access:

1. Navigate to the myPHPAdmin browser interface.
2. Input login information.
3. Attempt to access database.

Terminal Session:

1. Open terminal session to hosting server.
2. Check for responsivity with the MySQL server.

Expected Results:

Upon the input of correct credentials, access is granted to the user for the database.

Actual Results:

As expected, upon the input of the correct credentials, access was granted to the database by means of both the above two methods.

2.

Module Name: MySQL database	Design Date: 26/5/2015	Execution Date: 26/5/2015	Test Title: Courses table against VTAC courses	Tested By: Declan Holmes
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Test Description:

This test aims to verify the correctness of data residing in the courses table against those listed on the VTAC website (the source from which the data entries are taken.).

Preconditions:

- Test 1 has been completed successfully.

Test Steps:

1. Open database table 'Courses'.
2. Navigate in browser to VTAC course list.
3. For the first 100, middle 100 and last 100 courses in the 'Courses' table:
 - a. Course name
 - b. Course institution
 - c. Course URL
 - d. Course location
 - e. Course ATAR requirement

Against its relative entry in the VTAC course list.

Expected Results:

Every target course listed in the database table correctly reflects their relative entry in the ATAR course list.

Actual Results:

Every target course listed in the database table correctly reflects their relative entry in the ATAR course list.

3.

Module Name: MySQL database/ Web page	Design Date: 26/5/2015	Execution Date: 26/5/2015	Test Title: Database access Integrity HS	Tested By: Declan Holmes
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Test Description:

This test is designed with the intention of verifying the correctness of data retrieved from the 'HSClasses' table when accessed from the web page interface.

Pre-conditions:

Test 1.

Test Steps:

1. Open database connection.
2. Open 'HSClasses' table residing on database.
3. Navigate by browser to ATAR calculator web page.
4. For each subject drop down box displayed on the ATAR calculator page, verify that all entries in the 'HSClasses' table are present.

Expected Results:

All entries in the 'HSClasses' table are presented correctly in the drop down boxes presented on the ATAR Calculator web page.

Actual Results:

All entries in the 'HSClasses' table are presented correctly in the drop down boxes presented on the ATAR Calculator web page.

4.

Module Name: Web page	Design Date: 26/5/2015	Execution Date: 26/5/2015	Test Title: Webpage accessibility	Tested By: Declan Holmes
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Test Description:

Test for compliance of web page accessibility against ARIA specifications for keyboard navigation and image string association.

Test Steps:

1. Navigate to ATAR Calculator web page interface.
2. Test for keyboard navigation by means of tabbing.
3. Test for images on site having alternative string values.

Expected Results:

Navigation by keyboard is supported as well as alternative text for images embedded in the site page.

Actual Results:

Navigation by keyboard is supported as well as alternative text for images embedded in the site page.

5.

Module Name: Web page	Design Date: 26/5/2015	Execution Date: 26/5/2015	Test Title: Webpage accessibility	Tested By: Declan Holmes
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Test Description:

This test is to determine whether the ATAR calculation falls within the expected threshold of 1.5 seconds.

Test Steps:

1. Navigate to ATAR Calculator web page interface.
2. Select any subject from any of the drop down boxes displayed.
3. Enter a score into the drop down boxes corresponding score field.
4. Examine the time taken to calculate the ATAR.

Expected Results:

ATAR calculation falls within the expected threshold of 1.5 seconds.

Actual Results:

ATAR calculation falls within the expected threshold of 1.5 seconds.

6.

Module Name: Web page	Design Date: 26/5/2015	Execution Date: 26/5/2015	Test Title: Webpage accessibility	Tested By: Declan Holmes
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Test Description:

This test is to determine whether the program for populating the courses table in the database run-time falls within the expected threshold of 1.5 seconds.

Test Steps:

1. Execute CoursesUpdatev*.jar on the server that houses the database.
2. Examine the time taken for it to complete.

Expected Results:

Program run-time falls within the expected threshold of 5 minutes.

Actual Results:

Program run-time falls within the expected threshold of 5 minutes.

7.

Module Name: Display tablet/ Web page	Design Date: 26/5/2015	Execution Date: 26/5/2015	Test Title: Display on tablet device	Tested By: Declan Holmes
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Test Description:

This test is designed with the intention of verifying that the solution to the ATAR calculator project displays correctly on tablet devices.

Pre-conditions:

All previous tests.

Test Steps:

1. Open page on apple ipad.
2. Examine integrity of webpage.

Expected Results:

ATAR calculator displays correctly on apple ipad device.

Actual Results:

ATAR calculator displays as intended on ipad device.

8.

Module Name: Display mobile/ Web page	Design Date: 21/6/2015	Execution Date: 21/6/2015	Test Title: Display on mobile device	Tested By: Declan Holmes
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Test Description:

This test is designed with the intention of verifying that the solution to the ATAR calculator project displays correctly on mobile devices.

Environment:

Apple iPhone.

Pre-conditions:

Test 1.

Test Steps:

1. Open page on apple iPhone.
2. Examine integrity of webpage.

Expected Results:

ATAR calculator displays correctly on apple iPhone device.

Actual Results:

ATAR calculator displays as intended on iPhone device ONLY if held in the sideways position, that is to say, the ATAR calculator webpage will not display as intended on a mobile device if held in the horizontal position.

9.

Module Name: English subjects/ ATAR Calc	Design Date: 21/6/2015	Execution Date: 21/6/2015	Test Title: Max/Min English	Tested By: Declan Holmes
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Test Description:

This test is designed with the intention of verifying that the calculation of an ATAR on the ATAR calculator webpage ensures that at least one and at most two English subjects are entered.

Pre-conditions:

Test 1.

Test Steps:

1. Open ATAR calculator in browser.
2. Try to calculate an ATAR with zero English subjects as inputs.
3. Try to calculate an ATAR with more than two English subjects as inputs.

Expected Results:

The ATAR calculator will not calculate an ATAR if zero English subjects have been entered.

The ATAR calculator will only consider the two highest English subjects if more than two have been entered.

Actual Results:

The ATAR calculator will not calculate an ATAR if zero English subjects have been entered.

The ATAR calculator will only consider the two highest English subjects if more than two have been entered.