

pum2pum

Test cases

2012-05-02

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Versions

Version	Date	Changes	By
0.3	2012-05-02	More integration tests.	nicol271
0.2	2012-04-19	Database abstraction tests.	nicol271
0.1	2012-04-10	First version.	nicol271

1 System quality tests

Tests overall, system-wide qualities.

1.1 Usability

1.1.1

- | | |
|-----------------------|---|
| How to measure | A tester is given the following tasks: read a thread, reply to the thread, and create a new thread. |
| Requirement | 3 out of 4 randomly chosen testers must be able to fullfill the tasks, see R.1.1.0.1 |

1.2 Performance

1.2.1

- | | |
|-----------------------|---|
| How to measure | By navigating through the system, measuring the response time using the net-panel in the browser web developer tools. |
| Requirement | Response time less than 2 seconds, see R.1.2.0.1 |

2 Testing the server

2.1 Argument handling

Tests if the server handles incorrect command-line arguments.

2.1.1

- | | |
|---------------|---|
| Input | Server is called without giving an appname to run |
| Output | Fail: A message describing the usage is shown |

2.1.2

- | | |
|---------------|--|
| Input | An incorrect appname is given |
| Output | Fail: A message saying that the app could not be found |

2.2 App configuration

Tests if handling of the app-definitions is correct. [To be written]

2.3 Networking

Tests if the server really can serve requests correctly.

Prerequisites: The server is running an existing app which returns known data.

2.3.1

Input A plain HTTP GET-request without data is sent to the port that the server is listening on

Output Pass: A response with HTTP-status code 200

2.3.2

Input A plain HTTP-request is sent to the port that the server is listening on

Output Pass: The body of the HTTP response consists of the known data declared in the app

2.3.3

Input A HTTP-request with a path to a non-existing file is sent to the server

Output Fail: A response with HTTP-status code 404

3 Testing database abstraction layer

Unit-testing of the part of the system which interacts directly with the database.

3.1 Users

3.1.1

Input Log into the database with a name and a callback-function

Output Pass: The user is logged in and the callback-function is called

3.1.2

Input Get list of users from database

Output Pass: The logged-in users are recieved

3.2 Categories

3.2.1

Input Create a new category with a name

Output Pass: The category is created, no error-callback is recieved

3.2.2

Input Get categories from database

Output Pass: The supplied callback-function is called with a list of all category-objects in the database

3.3 Subforum

3.3.1

Input Create a new subforum in a category

Output Pass: The subforum is created, no error-callback is recieved

3.3.2

Input Get all subforums for a specified category

Output Pass: A list of all subforum-objects for the specified category

3.4 Threads

3.4.1

Input Create a new thread in a subforum

Output Pass: The thread is created, no error-callback is recieved

3.4.2

Input Get all threads for a specified subforum

Output Pass: A list of all thread-objects for the specified subforum

3.5 Posts

3.5.1

Input Create a new post in a thread

Output Pass: The post is created in the thread, no error-callback is recieved

3.5.2

Input Get all posts for a specified thread

Output Pass: A list of all post-objects for the specified thread

3.6 Answers

3.6.1

Input Create a new answer to a thread

Output Pass: The answer is created, no error-callback is recieved

3.6.2

Input Get all answers for a specified thread

Output Pass: A list of all answer-objects for the specified thread

3.7 Overall

3.7.1 Callbacks on new data

Input Gets a list of objects and then inserts a new object into the database.

Output Pass: The callback-function is called twice: once with the first query result, and then again efter inserting the new object.

4 Testing Enyo-kinds

Unit- and integration testing of the modules which the application consists of.

4.1 Utilities

4.1.1 Date formatting

Input Javascript date objects, such as Date(2011, 03, 01, 01, 02, 30). Remember that JS months are zero-based.

Output The date formatted on YYYY-MM-DD HH:MM:SS format.
In the case above: 2011-04-01 01:02:30

5 Integration testing

Manual testing of the application as a whole.

5.1 Post a new thread

5.1.1

Prerequisites	The server is running and the browser is located at the forum start page.
Input	"Test user" is entered as login, and the login-button is clicked. A forum name is clicked. The "Create new thread"-button is clicked, a title and text is entered, and the post button is pressed.
Output	A thread with the entered name is created and shows up immediately in the list of all threads. "Test user" is shown as the creator of the thread. The thread is shown when its title is clicked.

5.2 Reply to a thread

5.2.1

Prerequisites	The server is running and the browser is located at a thread.
Input	The "Post"-button is pressed. A text field and a send-button shows up. A text is entered in the field and the button is pressed.
Output	The answer shows up correctly and without reloading the page.