

pum2pum

Test cases

2012-04-19

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## Versions

Version	Date	Changes	By
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

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

## 1.2 Performance

### 1.2.1

- |                       |                                                                                                                       |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>How to measure</b> | By navigating through the system, measuring the response time using the net-panel in the browser web developer tools. |
| <b>Requirement</b>    | 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

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

### 2.1.2

- |               |                                                        |
|---------------|--------------------------------------------------------|
| <b>Input</b>  | An incorrect appname is given                          |
| <b>Output</b> | 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.