# pum2pum

Test cases

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# Versions

Version	Date	Changes	By
0.4	2012-05-15	Corrections from feedback.	nicol271
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

## Introduction

This document contains a description for test cases of the system. For information on running test scripts, please consult the *Installation and operation manual*. Information absout test runs and test results may be found in the *Test log* document.

## 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 re-

sponse time using the net-panel in the browser web developer tools. The time is measured using a standard PC client with a broadband network connetion to a webserver. The response time is measured as the total time between two interactions with the application. The initial time to start the application (load the web page) is

not included as reponse time.

Requirement Response time less than 2 seconds, see R.1.2.0.1

## 2 Testing the server

Test scripts for this tests can be found in test/node/server.test.js. For information on running test scripts, please consult the *Installation and operation manual*.

## 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 A message describing the usage is shown

#### 2.1.2

**Input** An incorrect appname is given

Output A message saying that the app could not be found

### 2.2 App configuration

Tests if handling of the app-definitions is correct.

This part of the testing has not been written, since the purpose of the server in the project only is to run the forum application. This kind of tests would only have been useful if the server was more generic and actually was supposed to run many different applications.

## 2.3 Networking

Tests if the server really can serve requests correctly.

Prerequisties: 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 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 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 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.

Test scripts for this tests can be found in src/testdriver/tests/. For information on running test scripts, please consult the *Installation and operation manual*.

#### 3.1 Users

#### 3.1.1

Input Log into the database with a name and a callback-function
Output The user is logged in and the callback-function is called

#### 3.1.2

Input Get list of users from databaseOutput The logged-in users are recieved

## 3.2 Categories

#### 3.2.1

Input Create a new category with a name

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

#### 3.2.2

Input Get categories from database

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

#### 3.3.2

**Input** Get all subforums for a specified category

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

#### 3.4.2

**Input** Get all threads for a specified subforum

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

#### 3.5.2

**Input** Get all posts for a specified thread

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

#### 3.6.2

**Input** Get all answers for a specified thread

Output 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** 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 upp correctly and without reloading

the page.