# Automated load/stress test concept for server side software component of MC2 project.

The basic idea for load/stress test of the server side software is to guarantee that the server is able to correctly serve all requests in a short/accepted period of time.

The test should be run on a PC which will simulate a huge amount of user requests.

The test will run on PC and simulate http requests from mobile phones/tablets.

**Create test plan**

The test plan consist of test suites/test cases which are run as configured in the test plan.

**Create a dummy database**, upon which the tests can be performed

Db Content:

Quests with Stages (ex. 10), every Stage containing microactions (ex. 20)

A huge list of (5k) users

For stress test 1k user action will be simulated to run in short period of time.

**Create test cases**

First a set of test cases should be developed, which will be grouped later in test suites which simulates normal user actions.

Log on / log off

Registration

Create and save profile

Change password

Download Profile

Request quest list

Request actual Stage with the list of microactions

Complete Microaction

Upload locations information

Upload photo

**Stress tests** - huge amount (1k) of users do similar actions in the same time

The amount of 1k users per day won’t do their action distributed evenly during the day, for example 1 action per 1.5 minutes. There are some peaks and the sever should be able to serve all requests during this peak periods.

log on - log out

registration / create new accounts

log on - check notifications/mails - log out

resetting password

upload photos

upload location information

request profile information

request quest lists

More users love a certain comment in short period of time. Check if love point count is right, and points are not lost.

**Define test relevant listeners**

CPU load

memory usage/load – before/during/after starting the tests

bandwidth usage

**Maintenance/update of test cases**

**Regular run of test plan**

**Report analysis**

**Open points/Questions:**

* How tests can be run on a cloud based Server?