

# Load Test Plan

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## Description :

This test plan is designed for the public API JSONPlaceholder, a free online REST API used for prototyping and testing. The main objective of this test plan is to identify and gather the performance results under several load tests.

IN SCOPE	OUT OF SCOPE
<ul style="list-style-type: none"><li>- <b>API functionalities:</b> data processing, responses status</li><li>- <b>Non functional features:</b> load, performance and stress</li></ul>	<ul style="list-style-type: none"><li>- <b>No others than those mentioned as in scope.</b></li></ul>

## Environment :

**From the local machine: TestDesktop1** - Running Windows 10 PRO 64 bit build 19045.  
Configured with **100 Virtual Users**, with 4 active requests each, **connected through** Wi-Fi 5 (802.11ac) 5GHz for a **Load duration** of 10 seconds, in same and separate threads scenarios.

## Tools:

**JMeter** - For conducting in scope manual and automated tests  
**GoogleDocs** - for progress and completion reports  
**GoogleSheets** - For bug tracking and reporting  
**GitHub** - Version control of documentations and publishing

## Summary of the approaches and strategy:

Experience-based testing and error guessing will determine the derived manual and automated test cases at system level.

## Risks:

**Due to the limited specifications of the test environment and network speed's variations, some load and performance tests may cause interruptions, failures of testing processes with the possibility of extending the deadlines mentioned under *Schedule*.**

## Entry Criteria:

All the required environment setups, software tools including the testing tools must have been successfully installed and functioning properly.

## Exit Criteria:

Ratio of passed/failed tests execution results are over 90% PASSED. Otherwise, the processes will be suspended upon further fixes.

## Schedule:

**Test planning: 3 hours.**  
**Test design-implementation: 8 hours.**  
**Execution: 1 hour.**  
**Reporting: 3 hours.**