Test Report

# Introduction

This Test Summary Report summarizes the results of the testing of the OpenWeatherMap API (<https://openweathermap.org/api>).

# Overview

The testing took place from the 28 of May 2018 till the 3 of June 2018 with one test engineer involved. It included test design, manual test execution, test automation and defect reporting.

# Environments + Tools

All testing activities were performed on the HP Probook 650 G2 (Windows 8.1, Intel Core i5 (2.3 GHz), 8GB RAM). Manual testing was done using the Postman tool. For the purpose of automation the IntelliJ IDEA IDE was used to build a Maven project with Java+TestNG+RestAssured used.

# Test Scenarios

A total of 88 test scenarios were designed during the Test Design phase. They included both positive and negative scenarios for the “Current weather data” and “5 day / 3 hour forecast” functionality. Scenarios are stored in the ‘Checklist’ document. All test scenarios were executed with a following results:

# Test automation

All test scenarios were automated, grouped in Java classes by functionality and are stored in the repository. They could be run again in any time. Average test execution takes 2 minutes.

# Defects

All defects that were found during the testing activities were tracked and stored in the ‘Checklist’ document. A total of 9 defects were found and linked to the corresponding test scenario. As expected, no critical defects were found. The severity distribution of defects is as follows:

# Conclusions

As the needed amount of test scenarios was designed and executed for the functionality that was in scope of this testing project we can assume that as for now the OpenWeatherMap project is both covered with tests and have no critical defects that can affect user’s work, with all the other defects tracked.