Test plan

# Introduction

This test plan describes the testing activities that would be performed during the testing of the OpenWeatherMap API (<https://openweathermap.org/api>).

# Resource

OpenWeatherMap weather service is based on the VANE Geospatial Data Science platform for collecting, processing, and distributing information about the Earth through easy to use tools and APIs. It has weather history and forecasts, open source and commercial satellite imagery, and other Earth Observation data that are available through unified APIs provided by the platform.

# In Scope

Since the OpenWeatherMap has a lot of functionality implemented and the project does not have a lot of time, only “Current weather data” and “5 day / 3 hour forecast” functionality would be tested. Test scenarios would be created and automated, defect reports would be documented and the Test Summary Report document would be delivered at the end of the project.

# Out of scope

For the lack of time and insufficient funding to access paid functionality the following parts of the API would not be tested: “16 day / daily forecast”, “Historical data”, “History Bulk”, “Weather map layers”, “UV Index”, “Weather stations”, “Bulk downloading”, “Weather alerts”, “Air pollution”. The correctness of Weather stations response is also not in scope of the project.

# Environments + Tools

Testing would be performed on the HP Probook 650 G2 (Windows 8.1, Intel Core i5 (2.3 GHz), 8GB RAM). For the manual testing Postman would be used and for the test automation Java+TestNG+RestAssured would be used.

# Timescales

The project would take place from the 28 of May 2018 till the 3 of June 2018.

# Risks and Assumptions

The risks that would affect the project are the lack of time to finish the project and the OpenWeatherAPI account suspension because of the calls per minute excess, but those are of low probability. The software under test is also expected to contain a few of bugs and no critical ones.