1. **Purpose of the test plan document**

The main goal of the test plan document is to provide information about test strategy and approach during testing the application.

1. **Test process**.

2.1 The application under test is <https://openweathermap.org/api> which helps to receive weather data via request.

* 1. The testing scope is specified by type of user account (free of premium) and features allowed for each type. Main testing efforts for features available for free type account and verification that premium features are not available for free user accounts.

Full list of features for free accounts:

* Current weather data;
* 5 day / 3 hours forecasts;
* Weather map layers;
* UV index;
* Air Pollution.

Features those are not available for free accounts:

* Historical data;
* Daily forecast;
* 16 days forecast;
* Weather station and weather alerts.

The main type of testing used during testing process – functional testing. The main test design techniques used - Equivalence partitioning, Boundary values analysis, Decision table testing**.**

Features like current weather data or forecasts may be obtained via:

* Place name;
* Place ID;
* Place coordinates;
* Place ZIP-code.

As a consequence, to reduce testing efforts and time required for testing, for negative scenarios of testing the absence of premium features for free account, the decision table technique is used.

2.3 All mentioned activities can be done by one QA team member during 5 hours.

* 1. The next test artifacts are created during test process:
* Test plan;
* Checklist;
* Test Report;
* Bug report with bugs and possible improvements.