**1.Object of testing**

OpenWeatherMap weather service for collecting, processing, and distributing information about our planet through easy to use tools and APIs.

**2. Component of the system under test**

* Getting the new API key.
* Checking the current and forecast weather conditions.
* Checking historical weather data.
* Getting information about the weather map.
* Cheсking the weather stations and alerts.

**3.Testing strategy**

During the testing of OpenWeatherMap weather service the following types of testing will be applied:

* manual testing,
* automated testing.

Manual testing will be applied to obtain a new API key.

Automated testing will be applied for explore API testing. The Jmeter v4.0 tool was selected for automated testing.

**4. Sequence of work**

* Check getting the API key.
* After getting the API key will start the API testing stage.

**5. Test completion criteria**

* All API functions that are available without a subscription have been tested.
* Autotests of API function are available, available without subscription.
* A report on the testing was created.