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| --- | --- | --- | --- |
| ID | Author | Version | Date |
| TR\_1 | DevChallenge-QA | 1.0 | Jun 2, 2018 |

**OpenWeatherMap – Test Report**

**Update history:**

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Author | Version | Description |
| Jun 2, 2018 | DevChallenge-QA | 1.0 | Initial draft |

**References:**

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Author | Version | Description |
| Checklist.xlst | DevChallenge-QA | 1.0 | List of tests |
| Test Plan.docx | DevChallenge-QA | 1.0 | Description of testing strategy and procedures |
| Bug Report.docx | DevChallenge-QA | 1.0 | List of found defect |
| Weather API | Openweathermap.org | - | <https://openweathermap.org/api> |

# 1. Introduction

This document describes activities which were done during testing of OpenWeatherMap API. It establishes item test summary, test results, tools, information about feature status and overall statistics about product quality.

# 2. Test items Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Feature | Number of tests | Passed | Failed | Pass Rate |
| Current weather data | 152 | 151 | 1 | **99.34%** |
| 5 day / 3 hour forecast | 42 | 42 | 0 | **100%** |
| Weather map layers | 17 | 17 | 0 | **100%** |
| UV Index | 18 | 18 | 0 | **100%** |
| Weather stations | 22 | 22 | 0 | **100%** |
| Weather alerts | 38 | 38 | 0 | **100%** |
| Air pollution | 15 | 15 | 0 | **100%** |

# 3. Summary of the Results

|  |  |
| --- | --- |
| Metric | Result |
| Total number of tests | 304 |
| Tests Executed | 304 |
| Test Coverage | 100% |
| Tests Automated | 304 |
| Automating Coverage | 100% |
| Tests Passed | 303 |
| Tests Failed | 1 |
| Total Pass Rate | 99.67% |

|  |  |
| --- | --- |
| Priority | Num. of Bugs |
| Blocker | 0 |
| Critical | 0 |
| Major | 0 |
| Minor | 1 |
| Trivial | 0 |

# 4. Testing tools

|  |  |  |
| --- | --- | --- |
| **Tool** | **Purpose** | **Description** |
| Microsoft Office | Writing test documentation (test plan, test report) | Application for text document creation |
| Microsoft Excel | Creating and maintaining Checklist | Application for spreadsheet creation. |
| Postman | API testing and automation | HTTP client for testing web services |
| Newman | Running API test in console | Command-line collection runner for Postman |
| Google Chrome | Exploratory testing | Browser by Google |

# 5. Summary of activities:

|  |  |
| --- | --- |
| **Metric** | **Result** |
| Staff time used (hours): | 14 |
| Cost (rate \* hours): | $280 |
| Variances: | no |

# 6. Evaluation

Pass rate for each test item meet exit criteria described in Test Plan (TP\_1) – 85%.

Required test automation coverage (80%) has been achieved.

OpenWeatherMap API has some minor defects. Also, the documentation can be improved to list all possible status codes for each feature, but overall quality of the product is on acceptable level.

Summing-up, the initial requirements have been meet, there are no known major and critical issues, so the application “OpenWeatherMap” can go Live.

# 7. Approvals

|  |  |  |  |
| --- | --- | --- | --- |
| **Position/Title** | **Name** | **Signature** | **Date** |
| QA Lead | DevChallenge Judge | - | 03.06.2018 |