**OPENWEATHERMAP.ORG**

**TEST APPROACH**

**Feature**: Search weather in your city

QA analyzes the product of feature together with product owner, designer, developer and will review structure design of search API as well as UI design for search function on web application.

**The following list defines the test types:**

* Unit test
* API test
* Integration test: checking how backend & frontend work together
* Compatibilities test: checking on multiple browser types & responsive ability

**Test environment:**

* Window OS, Mac OS
* Browsers: Chrome/ Firefox/ Safari

**How and who run test:**

* Developer implements unit test and will run unit test everytime they have new changes on code
* QA prepare API test cases and implements API automation test using Mock-API and then will execute automated API test when API is completed
* QA or Developer will execute automated API test on CI when there is new change from backend site vs each environment: DEV/ STAGING/ PRODUCTION
* QA prepare UI test cases which includes integration test. Developer will follow this test suite for checking his code before merging it.
* QA will execute UI test and explore testing on DEV/ STAGING env
* QA will run regression test on each environment when there is new change

**Team responsibilities in the testing flow:**

* QA have responsibilities for bug report, bug tracking on JIRA
* Developer have responsibilities for fixing bugs; deploy the fix into each environment.
* QA have responsibilities for verify and update status of bug in each environment

**Test coverage based on these factors:**

1. Unit test code coverage
2. Feature testing metrics :

* Requirements coverage

### Graphical user interface, text, application Description automatically generated

* Test cases by the requirement

**Graphical user interface, application

Description automatically generated**

* Requirements without Test Coverage

**Exit Criteria:**

* Ensuring all critical Test Cases are passed
* Achieving complete Functional Coverage
* Identifying and fixing all the high-priority defects
* Fixing all the ‘Show Stopper defects’ or ‘Blockers’ and ensuring that none of the identified Critical/Severity 1 defects are in Open Status
* Re-testing and closing all the high-priority defects to execute corresponding Regression scenarios successfully