### **Test Plan**

#### **Definition of Done:**

The user story is completed when the following activities has been done:

- 1. Back-end, front-end development and code review tasks related to the feature has been done.
- 2. Testing activities has been done (test design, test execution, closed related defects).
- 3. Related defects (high, major, medium priority) has been re-tested and closed.
- 4. All high-risk areas have been fully tested (including regression for similar areas).

# **User Story 1 (BY CITY NAME):**

As Developer I want to access the weather resource to get current weather by city name so that I can call current weather by city name API endpoint.

#### API call:

api.openweathermap.org/data/2.5/weather?q={city name}
api.openweathermap.org/data/2.5/weather?q={city name},{country code}

#### Parameters:

q city name and country code divided by comma, use ISO 3166 country codes

```
{
       "coord": {
              "lon": -122.09,
              "lat": 37.39
       },
       "sys": {
              "type": 3,
              "id": 168940,
              "message": 0.0297,
              "country": "US",
              "sunrise": 1427723751,
              "sunset": 1427768967
       },
       "weather": [
              {
                      "id": 800,
                      "main": "Clear",
                      "description": "Sky is Clear",
```

```
}
       ],
       "base": "stations",
       "main": {
               "temp": 285.68,
               "humidity": 74,
               "pressure": 1016.8,
               "temp_min": 284.82,
               "temp max": 286.48
       },
       "wind": {
               "speed": 0.96,
               "deg": 285.001
       },
       "clouds": {
              "all": 0
       "dt": 1427700245,
       "id": 0,
       "name": "Mountain View",
       "cod": 200
}
```

"icon": "01n"

# **Acceptance Criteria:**

- Ability to call by city name or city name and country code
- API responds with a list of results that match a searching word

# **Acceptance Testing:**

- API is accessible throw APPID and returns status code 200
- API response data are equal to data on UI side
- API response is valid in connection with json schema

# User Story 2 (BY CITY ID):

As Developer I want to access the weather resource to get current weather by city id so that I can call current weather by city id API endpoint.

#### Parameters:

id - City ID

### API call:

api.openweathermap.org/data/2.5/weather?id=2172797

```
{
       "coord": {
              "lon": -122.09,
              "lat": 37.39
       "sys": {
              "type": 3,
              "id": 168940,
              "message": 0.0297,
              "country": "US",
              "sunrise": 1427723751,
              "sunset": 1427768967
       },
       "weather": [
              {
                      "id": 800,
                      "main": "Clear",
                      "description": "Sky is Clear",
                      "icon": "01n"
              }
       ],
       "base": "stations",
       "main": {
              "temp": 285.68,
              "humidity": 74,
              "pressure": 1016.8,
              "temp min": 284.82,
              "temp_max": 286.48
       },
```

### **Acceptance Criteria:**

- Ability to call by city ID. API responds with exact result. List of city ID city.list.json.gz can be downloaded here <a href="http://bulk.openweathermap.org/sample/">http://bulk.openweathermap.org/sample/</a>
- API responds with a list of results that match a searching word

### **Acceptance Testing:**

- API is accessible throw APPID and returns status code 200
- API response data are equal to data on UI side
- API response is valid in connection with json schema

### **User Story 3 (BY GEOGRAPHIC COORDINATES):**

As Developer I want to access the weather resource to get current weather by geographical coordinates, so that I can call current weather by geographical coordinates API endpoint .

# API call:

api.openweathermap.org/data/2.5/weather?lat={lat}&lon={lon}

#### Parameters:

lat, lon coordinates of the location of your interest

### **Examples of API calls:**

api.openweathermap.org/data/2.5/weather?lat=35&lon=139

```
{
       "coord": {
    "lon": -122.09,
    "lat": 37.39
       },
       "sys": {
               "type": 3,
               "id": 168940,
               "message": 0.0297,
               "country": "US",
               "sunrise": 1427723751,
               "sunset": 1427768967
       },
       "weather": [
               {
                      "id": 800,
                      "main": "Clear",
                      "description": "Sky is Clear",
                      "icon": "01n"
             }
       "base": "stations",
       "main": {
               "temp": 285.68,
               "humidity": 74,
               "pressure": 1016.8,
               "temp_min": 284.82,
               "temp max": 286.48
       },
       "wind": {
               "speed": 0.96,
               "deg": 285.001
       },
       "clouds": {
              "all": 0
       },
       "dt": 1427700245,
       "id": 0,
       "name": "Mountain View",
       "cod": 200
```

}

### **Acceptance Criteria:**

- Ability to call by geographical coordinates. API responds with exact result.
- API responds with a list of results that match a searching word

### **Acceptance Testing:**

- API is accessible throw APPID and returns status code 200
- API response data are equal to data on UI side
- API response is valid in connection with json schema

### **User Story 4 (BY ZIP CODE):**

As Developer I want to access the weather resource to get current weather by city zip code, so that I can call current weather by zip code API endpoint .

Please note if country is not specified then the search works for USA as a default.

#### API call:

api.openweathermap.org/data/2.5/weather?zip={zip code},{country code}

### **Examples of API calls:**

api.openweathermap.org/data/2.5/weather?zip=94040.us

#### Parameters:

**zip** zip code

```
"coord": {
        "lon": -122.09,
        "lat": 37.39
},

"sys": {
        "type": 3,
        "id": 168940,
        "message": 0.0297,
        "country": "US",
        "sunrise": 1427723751,
        "sunset": 1427768967
},

"weather": [
```

```
{
                      "id": 800,
                      "main": "Clear",
                      "description": "Sky is Clear",
                      "icon": "01n"
               }
       ],
       "base": "stations",
       "main": {
               "temp": 285.68,
               "humidity": 74,
               "pressure": 1016.8,
               "temp min": 284.82,
               "temp_max": 286.48
       },
       "wind": {
               "speed": 0.96,
               "deg": 285.001
       },
       "clouds": {
               "all": 0
       },
       "dt": 1427700245,
       "id": 0,
       "name": "Mountain View",
       "cod": 200
}
```

# **Acceptance Criteria:**

- Ability to call by city zip code. API responds with exact result.
- API responds with a list of results that match a searching word

# **Acceptance Testing:**

- API is accessible throw APPID and returns status code 200
- API response data are equal to data on UI side
- API response is valid in connection with json schema