[Open Weather Map, Feature ‘Search Weather In Your City’]

**Assumption**

“Search weather in your city” allow users input a format string <city name> <,><country code> and return a list of up to 5 forcecast cities or “not found” if not finding any matching result. When users click on any city, the system will redirect to a page showing all weather infos such as temperature, feel like, humidity, hourly forcecast chart,…

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# Test Type

It includes

* Function testing: Testing the search function with the format string <city name> <,><country code>
  + City name: Has more than 2 characters and will be matched explicitly; Has value “valid, invalid, empty”
  + Country code: Will be matched with regular expression “^\*validCode\*$” ; Has value “valid, explicit valid, invalid, empty”
  + Comma: Optional when combining with only City name

Graphical user interface

Description automatically generated

* Non-fuction testing: Time to return forcecast cities (performance testing), load test, stress test.

# Test Level

* System test
  + Usability test: When users input a keyword that does not lead any matching cities, should give an instruction of the keyword
  + Compatibility test: Need to test all platforms (OS, browser)

# Test Coverage

* Function testing is
  + A combination of <city name> and <country code> so there are 3 \* 4 = 12 testcases.
  + Without comma: 3 testcases (valid city, invalid city, less than 3 characters)
  + With special characters such as @#

Total summary: 12 + 3 + 1 = 16 testcases