Problem Statement - Weather Reporting Comparator

Create a test automation framework with following capabilities:

1. Can interact with web applications

2. Can compare objects retrieved from two different UI Websites

Focus area: The framework should compare weather information from various sources.

as under:

Source 1: The website https://www.ndtv.com/

Source 2: The public weather https://openweathermap.org/

What to do?

**Phase 1**

1. Use any UI automation tool to automate https://www.ndtv.com/

2. Reach the weather section of the website

3. Use the `Pin your city` section on the left of the screen to search & select any

given city (for your case select Mumbai)

4. Validate that the corresponding city is available on the map with

Information like temperature & humidity

**Phase 2**

1. Use the <https://openweathermap.org/>
2. In Search City put “Mumbai” and click on search.
3. It will display temperature & humidity.

Phase 3

1. Create a comparator that matches the temperature information from the UI in

phase 1 against the UI response in phase 2 (ensure that comparison done

using same temperature unit and humidity unit)

2. Build a variance logic, which should be configurable using an external file, that

returns a success if temperature difference is within a specified range, else return.

a matcher exception

**Example Workflow (Just for reference)**

1. Visit ndtv website’s weather page and search for Bengaluru.

2. Store weather object 1 w.r.t this Bengaluru (e.g., temperature value as 33 degree

Celsius and humidity as 55%)

3. Get response from the open weather for Bengaluru.

4. Store the response and build the weather object two.

5. Specify the variance logic - for e.g., 5 degrees Celsius for temperature and 5 % for

6. Compare weather objects 1 and 2 along with the variance and mark tests as

pass or fail based on comparator response.