#### 1: Scope And Overview

VDC will review and approve this document.

Testing phases will be included :

Requirement Analysis

* Make sure Search at homepage work properly
* Each request should be processed within 10 seconds.
* The site should load in 5 seconds when the number of simultaneous users are > 1000

Test Planning

Test case development

Test Execution

#### 2: Test Approach

Level of testing will be applied :

* Integration test (API)
* System Test
* Types of Testing :
  + Functional Test : Feature : search weather in your city
    - Manual : execute all test cases of tested features from test management tool - performed by Quy
    - Automation test : - performed by Quy
    - Test level :
      * Unit Test : perform by DEV team
      * Integration test: They have contract with client about API so this test must be done, perform by Quy
      * System test to make sure that all feature work as expectation and match requirement document , perform by Quy
  + Non-functional test :
    - Load Test
* Defect management cycle : Google Sheet

#### 3: Test Environment

* OS : MAC 10.15.7, RAM : 16GB , SSD : 500GB
* Brower : safari 13.1.3

#### 4: Testing Tools

Performance test : using JMeter for load and stress test

Automation test : (Cucumber + Selenium WebDriver-Java + TestNG. CI : jenkins, Cloud )

Security test : will be performed by BKAV team

#### 5: Release Control

#### 6: Risk Analysis

There is a risk that we don’t have enough time to do a performance test.