Test Report - Application No. 1

## ENVIRONMENT:

The tests were conducted on MacOS Ventura using the *unittest* framework.

## AREA:

* Supporting Functions:
  + get\_date
  + extract\_data
* Data Providing Functions:
  + get\_week
  + get\_two\_week
  + get\_month
  + get\_quarter
* Statistics Calculation Functions:
  + get\_median
  + get\_standard\_deviation
  + get\_coefficient\_of\_variation
  + get\_sessions

## DEFECTS:

1. Statistics calculation functions (get\_sessions) [to be fixed]:
   1. Missing handling of an empty list.
   2. Incorrect handling of a list with multiple sessions.

Input data: [1, 2, 3, 4, 4, 4, 5, 4, 3, 2]

Output: [2, 0, 0]

Expected output: [1, 1, 2]

Data order: [decreasing, zero, increasing]

1. Data providing functions [fixed]:
   1. Checking if the API call was successful.

scr/main.py:

if response.status\_code == 200:

data = extract\_data(response.json())

return data

else: return None

if response.ok:

data = extract\_data(response.json())

return data

else: return None