

Software Test Report

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# Overview

This document is the Software Test Report of the testing phase of the Analysing **Equinox Surveyors Spatial Data** by using **Python** software development project.

[Click/tap to add some information about the context of the testing and the purpose of the tests.]

# Testing phases

## Planning

Plan the testing by completing the table below.

Table 1 – Test plan

|  |  |  |  |
| --- | --- | --- | --- |
| Test ID | Test name | Summary | Expected result |
| TEST-001 | Input Validation (Type Checking) | Added **isinstance()** checks for parameters Datatypes (EPSG, Input file path & output file path) | Python raises a clear error message if wrong type is provided. |
| TEST-002 | Print Method | Added **print()** statements to verify variable states and CRS outputs | The print method displays the CRS changes. |
| TEST-003 | Setting Breakpoints and Inspecting Variables | Set Breakpoints in VS code to pause execution and inspect variables  **>> FILE\_PATH**  **>> OUTPUT\_PATH**  **>> Hospitals\_gdf ...**etc. | Program execution Pauses at Breakpoints, variables can be Inspected Successfully. |

## Method

1: During the Initial stage to completion stage

2: Srinivasa Rao Pallapotu

3: Python 3.13.5

## Results

Complete the table below with the test results. Include the Test ID (as listed in the Test planning), the actual results from the testing, screenshots of the testing and any relevant comments or information (where required), and the outcome of the test (did it pass or fail?).

Table 2 – Test results

|  |  |  |  |
| --- | --- | --- | --- |
| Test ID | Test results | Screenshots of testing/ relevant comments | Test outcome  (pass/fail) |
| TEST-001 | Validation Checks added, now wrong types raises **ValueError** |  | Fail |
| TEST-002 | The print method displays the CRS changes. |  | Pass |
| TEST-003 | Breakpoints are correctly Paused Execution. Variables  (FILE\_PATH  OUTPUT\_PATH ...etc) are inspected. |  | Pass |

## 

## Analysis and conclusions

[Click/tap to add your analysis and conclusions from the testing. This may include:

* your analysis and identification of errors found
* any additional information and observations made during testing
* your evaluation of how well the software meets the specifications; use the table below or delete if not required.]

Table 3 – Software evaluation

|  |  |
| --- | --- |
| Software specification | Evaluation |
| Parameter Datatype Validation | Initial testing revealed, the EPSG code was passed as STRING instead of INTEGER, causing the program to fail. This leasds the importance of the Parameter Datatype. |
| Print Method | This method shows the correct reprojection of the Geodataframe (Shape file). |
| Temprory pauses and verify program execution | Breakpoints are helped in veryfying the varialbles state and Execution flow of the python program. |

# Software approval

Software is approved for installation by:

Name

[Name of appropriate person approving the software]

Role

[Click/tap to select role]

Signature Date

[Click/tap to select date]