

# OrangeShine Coding Assignment

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I wrote this program in Python. This is a command line application. Start by running the Search\_Database\_Main.py file which calls on three (3) modules:

1. Search\_Organizations.py
2. Search\_Tickets.py
3. Search\_Users.py

Each module conducts search on one of three (3) databases, each a .json file. The results are displayed in a clear format.

A search operation, returns values from all related entities. For example, when a user searches the key "timezone" and the value "Sri Lanka," the output is a display of keys and values for each set of data that contains "Sri Lanka" for "timezone."

To write this program, I used Python's json library. JSON stand for JavaScript Object Notation. With few exceptions, json data is similar to Python dictionary. The load() method in Python allows loading json data from a file into Python.

In my program, the Boolean true and false in the json files did not properly convert to True and False in Python. My program still works but in the next iteration I will fix this issue. Another issue that needs to be worked on in the next iteration is accounting for Null or None values, if any.

My program also consists of three (3) test files that use the tools from Python's unittest library. The tests are written in such a way to determine whether my program can read all types of values contained within each database:

1. string
2. integer
3. boolean
4. list

All tests produce satisfactory results.

This program is based on a coding assignment that I received from OrangeShine in Cerritos, California, a company that is currently a clothing wholesale marketplace. I am interested in working for OrangeShine as a Python developer.