**OrangeShine Coding Assignment**

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This is a command line application in Python. Start by running the file, Search\_Database\_Main.py. This file 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 on the screen in a clear format.

A search command 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 (JavaScript Object Notation) library. 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 this 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.

This 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 the program can read all data types 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.