

# Zendesk Melbourne - Coding Challenge

## **OVERVIEW**

Using the provided data (tickets.json and users.json and organization.json) write a simple command line application to search the data and return the results in a human readable format.

- Feel free to use libraries or roll your own code as you see fit. However, please do not use a database or full text search product as we are interested to see how you write the solution.
- Where the data exists, values from any related entities should be included in the results, i.e. searching organization by id should return its tickets and users.
- The user should be able to search on any field, full value matching is fine (e.g. "mar" won't return "mary").
- The user should also be able to search for empty values, e.g. where description is empty.

Search can get pretty complicated pretty easily, we just want to see that you can code a basic but efficient search application. Ideally, search response times should not increase linearly as the number of documents grows. You can assume all data can fit into memory on a single machine.

# **EVALUATION CRITERIA**

We will look at your project and assess it for:

- 1. Extensibility separation of concerns.
- 2. Simplicity aim for the simplest solution that gets the job done whilst remaining readable, extensible and testable.
- 3. Test Coverage breaking changes should break your tests.
- 4. Performance should gracefully handle a significant increase in the amount of data provided.
- 5. Robustness should handle and report errors.
- 6. Usability Should provide installation instructions and how easy it is to use the

- application
- 7. General technical skills Demonstrate proficiency in the chosen language and strong attention to details

If you have any questions about these criteria please ask.

## **SPECIFICATIONS**

- Use the language in which you are strongest.
- Include a README with (accurate) usage instructions.
- Document the assumptions and tradeoffs you've made.

#### **SUBMISSION**

GitHub is the preferred option (a public repository is fine) but we will also accept a .zip file if necessary.

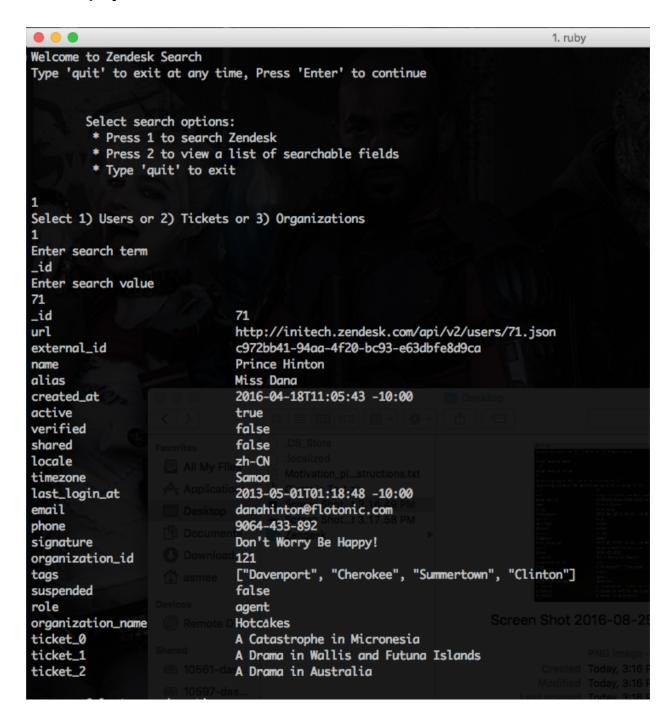
# **HINT**

One of the assessors wrote How To Pass A Coding Test.

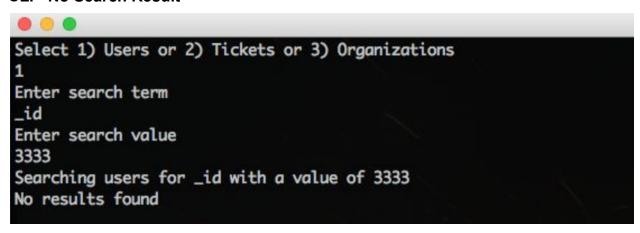
#### **SAMPLE OUTPUT**

Note: This output is not prescriptive, in fact we encourage you to do better.

#### **CLI - Display Results**



# **CLI - No Search Result**



## **CLI - List Searchable Fields**

