

API Dataset Validation

Scenario

A client has approached Elabor8 to create some automated regression tests for one of their APIs. This API connects to a small database providing random facts about cats. The API is unauthenticated and has 2 endpoints: list all the cat facts, or get details for 1 particular fact. The client is using this exercise as a proof of concept leading to a much larger engagement, so we need to showcase our very best to give them confidence in engaging us long term.

API Details

Base URL: <https://cat-fact.herokuapp.com>

Endpoints

GET /facts - List all the facts stored in the database

Example JSON response:

```
{
  "all": [
    {
      "_id": "58e008ad0aac31001185ed0c",
      "text": "The frequency of a domestic cat's purr is the same at which muscles and bones repair themselves.",
      "type": "cat",
      "user": {
        "_id": "58e007480aac31001185ecef",
        "name": {
          "first": "Kasimir",
          "last": "Schulz"
        }
      },
      "upvotes": 11,
      "userUpvoted": null
    }
  ]
}
```

GET /facts/{id} - List the details stored for the fact with the specified ID

Example JSON response:

```
{
  "used": false,
  "source": "user",
  "type": "cat",
  "deleted": false,
  "_id": "5b4911940508220014ccfe94",
  "updatedAt": "2020-01-02T02:02:48.612Z",
  "createdAt": "2018-07-18T20:20:02.200Z",
  "user": "5a9ac18c7478810ea6c06381",
  "text": "By the time a cat is 9 years old, it will only have
been awake for three years of its life.",
  "__v": 0,
  "status": {
    "verified": true,
    "sentCount": 1
  }
}
```

Challenge

Spend up to 2 hours (Using any language/tool/etc) to create a test strategy and automation suite that:

1. Verifies both endpoints are correct by using the supplied CSV dataset to match what is returned from the API (Note: this CSV file is only a subset of the full suite of facts stored in the database)
2. Validates error conditions
3. Has the potential to be added to an existing pipeline (No need to create one though).

Please upload the final code to an online repo of your choice, make it public and email through the URL to the code at least 4 hours before the interview.

Please note: We are working on the honour system with the time allocation and we don't want you to exhaust yourself on the challenge. We are more interested in your thinking and approach to tackling problems.