Test Strategy

Technologies to use

Python

a) Because Python is a scripting language and good for proof of concept
b) Because Python has support for RESTful api requests and a testing framework
c) The script can be added into the CI/CD pipeline

Frameworks to use

1. Request module to send RESTFul get requests
2. unittest2 unit testing framework - Failed asserts would fail the CI/CD pipeline

Testing types

Functional Testing

Positive

1. Get All cats
    i. Assert that the response code is 200
    ii. Assert that the number of cats returned by the API call is more than the cats in csv file
    iii. Confirm that expected values from csv matches with the corresponding values in API response e.g. type is cat, user._id, user first name, user last name, upvotes, userUpVoted, text.
2. Get a cat end point
    i. Call this end point for each cat id
        1. For each cat id response confirm that
            a) the type is cat
            b) id matches
            c) user id matches
            d) text matches
            e) Used = false
            f) Source = user
            g) Deleted = false
            h) __v = 0
            i) Status.verified = true

j)   Status.sentCount=1

Negative

3. Get a non-existent cat end point and assert the response code is 400 (BadRequest)
Possible invalid values **'123','cat','-1','0','999','@#'**