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CMPS 115

Unit Testing for Database Queries via API

scanBusinesses.js

scanBusinesses.js is a piece of code that exist on AWS Lambda and that is triggered by an API Gateway call. When called, the code will scan the business table of our database and return user data for all items in the table, as is required when listing businesses on our webpage. Relatively simple to manually test, involves only calling the API via link and examining the results.

Test 1:

1. Make a GET request to the API's URL

Output:

{

  "Items": [

  {

    "twitter": "https://twitter.com/BestFoodPics",

    "additionalNotes": "Please pre-edit your food pictures. Adobe photoshop skills can go a long way, we can recommend you some amazing youtube tutorials we've collected if you show us some promise. Please take your pictures on at least a DSLR camera, we will also accept pictures taken on iPhone X or above.",

    "businessEmail": "bzwier@ucsc.edu",

    "facebook": "https://facebook.com/BestFoodPics",

    "tumblr": "https://tumblr.com/BestFoodPics",

    "avatar": "https://s3.amazonaws.com/myapp-20181030214040-deployment/public/d0b14fd5-e533-4949-ac40-76961d39d3c1-avatar",

    "instagram": "https://instagram.com/BestFoodPics",

    "about": "We're a food picture based Instagram content page. We specialize in some of the best looking food pictures you can find on the internet. We have over 200,000 followers on instagram alone. We're building specialized food picture accounts, things like pages just for ramen or burritos, and have accumulated an additional 50,000 followers on these accounts. ",

    "userID": "b4ecf132-a7a5-4eed-9ca4-253fe9695364",

    "worthKnowing": "We're looking for contributors to send their amazing food pictures to us. We want food from around the world, whether its Thai food or Japanese, American or British. We make sure to shout out and give full credit to our contributors, which will net in an increase in exposure for you. We've got our contributors over 80,000 new followers across 14 different contributors.",

    "businessName": "BestFoodPics",

    "creationDate": "Wed, 05 Dec 2018 08:39:17 GMT"

  },

  {

    "twitter": "https://twitter.com/CityScapes",

    "additionalNotes": "Please pre-filter and edit your photos before you submit them. Please take photos on at least a DSLR camera. We don't like the effects that come from an iPhone X, so please use a real camera. ",

    "businessEmail": "bzwier@ucsc.edu",

    "facebook": "https://facebook.com/CityScapes",

    "tumblr": "https://tumblr.com/CityScapes",

    "avatar": "https://s3.amazonaws.com/myapp-20181030214040-deployment/public/c1be83c3-efd2-4778-bae7-e97237848500-avatar",

    "instagram": "https://instagram.com/CityScapes",

    "about": "Hello! We are an instagram page that focuses on artistic photos of cityscapes. We have a modest following of about 40,000 followers on instagram, and are hoping to use Share Yourself Artists to find more contributors!",

    "userID": "c2bcbc67-9699-4795-806a-0c703d408f1f",

    "worthKnowing": "We have about 4 contributors besides myself who take photos of cities. We make sure to give credit where credit is due. We do weekly shoutouts to our contributors, and showcase our most popular picture each month on our instagram story.",

    "businessName": "CityScapes",

    "creationDate": "Thu, 06 Dec 2018 00:44:44 GMT"

  }

  ],

  "Count": 2,

  "ScannedCount": 2

}

getUserInfo.js

getUserInfo.js is a piece of code that exist on AWS Lambda and that is triggered by an API Gateway call. When called, the code will query the user tables of our database and return user data for a single user in the table. Requires that query parameters be passed to it via URL query string. Relatively simple to manually test, involves only calling the API via link and examining the results.

Test 1:

Inputs: role = ("artist" or "business"), key = ("userID")

1. Append "?role=artist&key=d80a729a-d12d-4ec8-8df3-6bb7ce04554a" to the end of the API's URL.
2. Make GET request to API

Output:

```
{
  "Items": [
    {
      "freeCredits": 2,
      "credits": 0,
      "creationDate": "Fri, 30 Nov 2018 02:57:18 GMT",
      "artistEmail": "neluyajasi@mailhex.com",
      "artistName": "ShareThree",
      "userID": "d80a729a-d12d-4ec8-8df3-6bb7ce04554a"
    }
  ],
  "Count": 1,
  "ScannedCount": 1
}
```