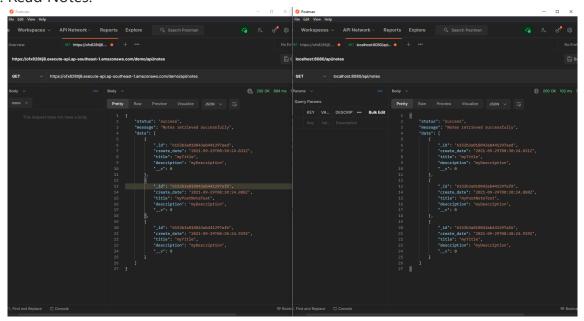
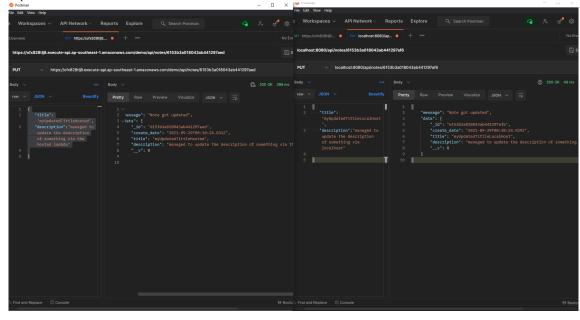


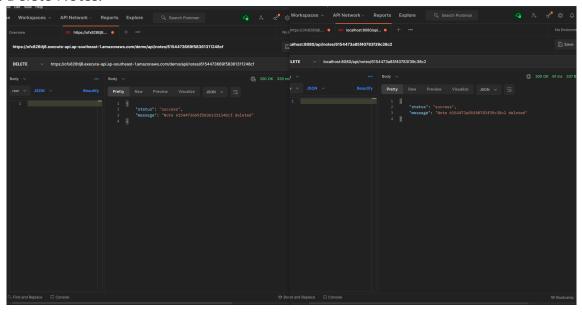
### 2. Read Notes:



3. Update Notes:



4. Delete Notes:



## Basic edge cases:

On the left, deleting something that isn't there, on the right, posting something without required object structure.



- \*\*Takeaways: \*\*
  - 1. How express uses middleware via the .use function
  - 2. Mongodb installation. hate windows for this.
  - To connect to your local MongoDB, you set Hostname to localhost and Port to 27017.

# **B2: Testing via CI**

### **MochaJS**

pointers on usage:

1. Mocha discovers test files; when given no files or directories, it finds files with extensions .js, .mjs or .cjs in the test directory (but not its children), relative to the current working directory ==> can't store it in subdirs and need to be in working dir

2. try not to use lambda functions because of environment scoping issues see this

### Chai

- an assertion library to work together with your testing framework
- has three assertion styles: as usual assert style, as an expect style or should style
  of defining assertions

### **GitHub Actions:**

- 1. Uses doesn't use the working directory
- 2. Uses and run can't be tgt in the same step
- 3. Zipping is a pain, have to set the destination as the same directory as the contents (and don't zip the entire folder, zip its contents instead). Can check by exporting the lambda deployment files!

### **Deliverables:**

- 1. How to test when there's a mongo client being applied to your server application (and hence the server application would complain if you just pass in an export keyword)
- 2. How to conduct testing:
  - i. **Locally**, navigate to taskB/backend directory and via cli, run npm test to get the following test output:



ii. Via CI, following the deployment script here, gives us a similar github runner output

. Here's a link to the job

3.

#### **Issues Faced:**

1. for some reason, the http server persisted after tests (i.e. mocha doesn't cause the server to kill itself once done). Here's a workaround

Followed the adding of mocha --exit to the test script instead, the other solutions didn't work :(

- 2. Was homicidal after trying out Travis. Eventually got it working but somehow couldn't get the API gateway ==> Lambda right
  - i. ended up just redoing everything and using github actions (and a simpler example tutorial)

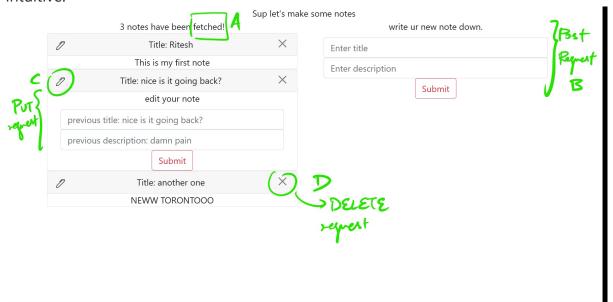
## **B3** - Deployment through Continuous Deployment

Figured out travis over at this branch, but couldn't get the API gateway working. Even managed to setup the Lambda and see logs that imply it works. Anyway, ended up purging the whole thing and restarting.

## **Backend API Endpoint**

# **B4** - Frontend Implementation

A simple react app that calls all the API endpoints. It uses ReactBootstrap for styled components. This annotated screenshot shows the interactions, the app is basic and intuitive.



## **Running Instructions**

In the project directory, you can run:

## npm start

Runs the app in the development mode.

Open http://localhost:3000 to view it in the browser.

The page will reload if you make edits.

You will also see any lint errors in the console.