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### Task B

GitHub Repository Link: https://github.com/huichun66/cs3219otot-taskB

Referenced Tutorial Links: <a href="https://medium.com/@dinyangetoh/how-to-build-simple-restful-api-with-nodejs-expressjs-and-mongodb-99348012925d">https://medium.com/@dinyangetoh/how-to-build-simple-restful-api-with-nodejs-expressjs-and-mongodb-99348012925d</a>

https://www.digitalocean.com/community/tutorials/test-a-node-restful-api-with-mocha-and-chai

https://medium.com/swlh/continous-integration-using-travis-nodejs-8c608662a0cd

#### **Instructions**:

# Running the APIs locally (B1):

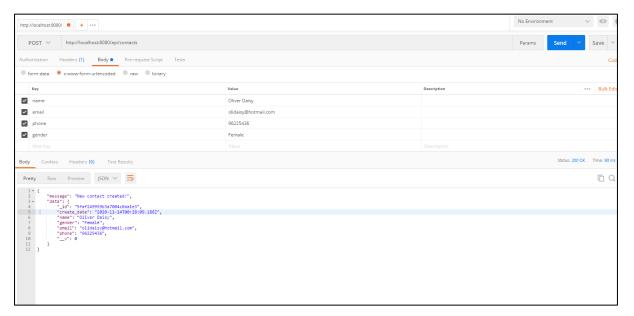
cd resthub

node index

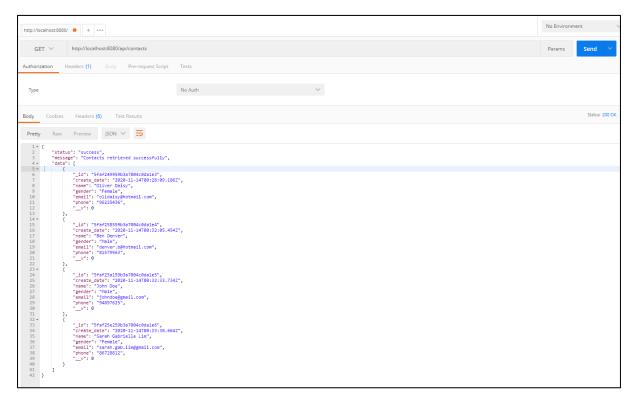
#### Access deployed APIs (B1):

Download the Postman app from <a href="https://www.postman.com/downloads/">https://www.postman.com/downloads/</a>

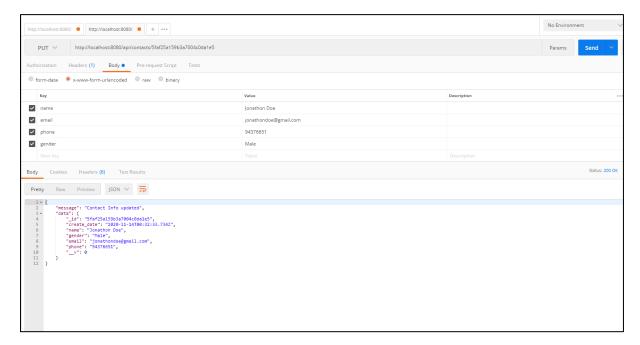
First, before we demo GET calls on Postman to retrieve list of contacts, we have to create some contacts in the database. To do that, we use POST api call (/api/contacts) on Postman to create some contacts. This is the sample screenshot shown for a successfully created contact (POST request).



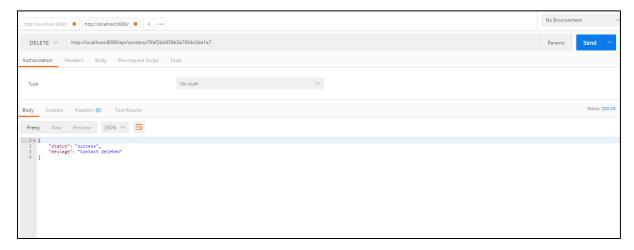
After creating some Contact records, we can now demo the GET api call on Postman with the following url shown in the screenshot below. Upon successful retrieval, a list of contacts from the database should be retrieved.



To update a particular Contact record, we call the (/api/contacts/:id) api with a PUT request as shown below. In this example, we are updating John Doe's contact details to change his name, email and phone number. To view a particular Contact record, we call (/api/contacts/:id) api with a GET request.



To delete a particular Contact record, we call (/api/contacts/:id) api with a DELETE request. In this example, we have deleted the record that we have just updated.



So, if you call the GET request on the list of contacts again, there should be one less record now as shown below.

```
| No Environment | No E
```

### Run tests locally and via Travis (B2):

cd resthub

npm run test

Run the above commands to run the tests locally for testing the GET/POST/PUT api calls. You should see a similar output as below:

```
MINGW64:/c/Users/Honey Bunny/Documents/cs3219otot-taskB/resthub
                                                                                                                    Х
                                                                                                            foney Bunny@DESKTOP-6LF5JLC MINGW64 ~/Documents/cs3219otot-taskB/resthub (master)
$ npm run test
  resthub@1.0.0 \ test \ C: \ Users \setminus Bunny \setminus Documents \setminus cs3219 otot-taskB \setminus resthub
  mocha --exit --timeout 10000
MongoDB connected successfully!
Running RestHub on port 8080
  Contacts
    /GET contacts
API response is [object Object]

FêU it should GET all the contacts

/POST contact

API response is [object Object]
      ΓêU It should create a new contact record in the database
    /PUT contact
      ΓêU It should update a contact record details given the id
  3 passing (110ms)
 Noney Bunny@DESKTOP-6LF5JLC MINGW64 ~/Documents/cs3219otot-taskB/resthub (master)
```

The following screenshot shows the same tests being run remotely on Travis CI.



```
| Second of the command representative processes and the command representative processes are contact record at the database of the command representative processes are contact record at the database of the command representative processes are contact record at the database of the command representative processes are contact record at the database of the command representative processes are contact record at the database of the command representative processes are contact record at the database of the command representative processes are contact record at the database of the command representative processes are contact record at the database of the command representative processes are contact record at the database of the command representative processes are contact record at the database of the command representative processes are contact record at the database of the command representative processes are contact record at the database of the command representative processes are contact record at the database of the command representative processes are contact record at the database of the command representative processes are contact record at the database of the command representative processes are contact record at the database of the command representative processes are contact record at the database of the command representative processes are contact record at the database of the command representative processes are contact record at the database of the command representative processes are contact record at the database of the command representative processes are contact record at the database of the command representative processes are contact record at the database of the command representative processes are contact record at the database of the command representative processes are contact record at the database of the command representative processes are contact record at the database of the command representative processes are contact record at the database of the command representative processes are co
```

## Access deployed APIs (B3):

After deploying the application to AWS Lambda via Travis CI, this is what the Travis Build log will look like:

```
Installing deploy dependencies

Fetching dpl-lambda-1.10.15.gee

Fetching insepath-1.4.0.gee

Fetching ase-subty-1.2.2.gee

Successfully installed ase-eventstreas-1.0.67

Successfully installed ase-subty-1.2.1.67

MAS SOK for fauly V2 has been marked as deprecated. Please upgrade to AMS SOK for Ruby V3.

Successfully installed ase-sub-results-1.6.67

Successfully installed ase-subty-1.2.2.1.67

Successfully installed ase-sub-results-1.6.7

Successfully installed ase-subty-1.3.0.6

Successfully installed ase-sub-results-1.6.7

Successfully installed ase-subty-1.3.0.6

Successfully installed dpl-lambda-1.10.15

Be geen installed

Fetching ase-subty-1.3.0.6

Successfully installed ase-sub-results-1.6.7

Fetching ase-subty-1.3.0.6

Successfully installed as-sub-results-1.6.7

Fetching ase-subty-1.3.0.6

Successfully installed as-sub-results-1.6.7

Fetching as-subty-1.3.0.6

Successfully installed as-sub-results-1.6.7

Fetching as-subty-1.3.0.6

Successfully installed as-sub-results-1.6.7

Fetching as-subty-1.3.0.6

Successfully installed as-sub-results-1.6.7

Fetching as-subty-1.2.2.6

Fetching as-su
```

Similarly, this is what my AWS Lambda Functions console panel will look like once it is deployed successfully:

