**CS3219 Task B Report**

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**Repo Link:** <https://github.com/ryanYtan/cs3219-B-restAPI>

# Pre-requisites

Install the following pre-requisites

* MongoDB DBMS
* Postman To manually serve API requests
* Node Back-end framework
* Serverless

# How to run the application

1. Clone the repo and `cd` into the directory using your preferred shell
2. Run `npm install` to install node dependencies
3. In another shell windows, run `mongod`, keep this program running
4. In the shell opened, run `npm run start`
5. Server should be running on `localhost:8080`

## Task B1

After running the server, you can use Postman (or some equivalent Python script, Unix command, etc etc) to test REST calls. REST calls supported are

**GET** Get all contacts localhost:8080/api/contacts

**GET** Get a specific contact localhost:8080/api/contacts/{id}

**POST** Add a contact localhost:8080/api/contacts

**PUT** Replace a contact localhost:8080/api/contacts/{id}

**DELETE** Delete a contact localhost:8080/api/contacts/{id}

The value of id can be found by running the **GET** request at /api/contacts.

The body of a **POST** or **PUT** request should have the following key-value pairs, and the content-type is x-www-form-urlencoded.

{

name: String

phone: String

address: String

email: String

}

## Task B2

Some rudimentary tests can be found inside the *tests*folder in *tests.js*. The testing framework used is Mocha/Chai which is specific to JavaScript. Run the tests by running npm run test in the command line. Travis builds on my repository can be viewed by clicking on the checkmark icon next to the commit history.

To run the Travis on your own GitHub

* Fork the repository to GitHub
* Go to Travis CI and login via GitHub
* Select the fork on Travis CI to enable builds
* Anytime a **git push** is made, a Travis build should run
* Read job logs via Travis CI’s website.

## Task B3

I used AWS Lambda as suggest in the task description. You may make API calls to the service, use the URL located at

Under Travis CI, select *More options -> Settings*. Under *Environment Variables*, input the two key-value pairs as follows. If you wish to use your own, instructions can be found at the link below. Otherwise, the key-value pairs for mine are given below.

* AWS\_ACCESS\_KEY\_ID <only insert in submission>
* AWS\_SECRET\_ACCESS\_KEY <only insert in submission>

To generate own public/secret key:

<https://docs.aws.amazon.com/general/latest/gr/aws-sec-cred-types.html>

If you wish to make API calls to my serverless service, use the URL located at

## Task B4

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