**CS3219 Task B Report**

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# Pre-requisites

This is from the *medium.com* article

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

# 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. Run `npm audit fix` if node very cleverly asks you to
4. In another shell windows, run `mongod`, keep this program running
5. In the shell opened, run `npm run start`
6. Server should be running on `localhost:8080`

# Stuff you can do

The task is a basic AddressBook-esque application. Enter some details on the front-end, it will automatically make the appropriate REST calls to the back-end DB.

## 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** /api/contacts

**POST** /api/contacts

**GET** /api/contacts/{id}

**PUT** /api/contacts/{id}

**DELETE** /api/contacts/{id}

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

Body of a **POST** request should have the following key-value pairs

{

name: String

phone: String

address: String

email: String

}

## Task B2

Tests can be found inside the *tests*folder. The testing framework used is Mocha/Chai. Run the tests by running `npm run test` in the command line.

Travis builds can be viewed by clicking on the checkmark icon next to the commit history.

## Task B3

I used AWS Lambda as suggested in the task description. This task requires some more dependencies. First, run `npm install -g serverless`, then create an AWS Lambda account and find the *public* and *secret* key. Run the following commands

`sls config credentials --provider aws --key PUBLIC\_KEY --secret SECRET\_KEY`

`npm install –production`

`sls deploy`

## Task B4

Yay, front-end development, my favourite.