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Matriculation Number: A0222182R

Link to GitHub repository: https://github.com/hsiaotingluv/CS3219-OTOT-TaskB (shared to

@ruilingk and @wakululuu) Submission for Task B1 to B4

Note for instructors: feel free to contact me on telegram @hsiaotingluv to clarify anything!

Instructions on how to

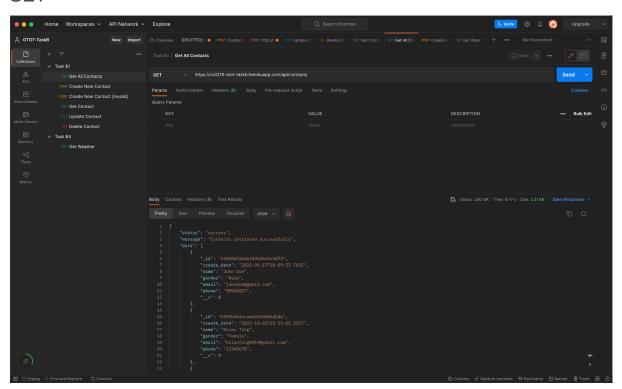
Task B1: Run the API locally, including Postman calls used to demonstrate a working API. Be sure to include the edge cases tested or proof of error-resiliency as per the marking scheme.

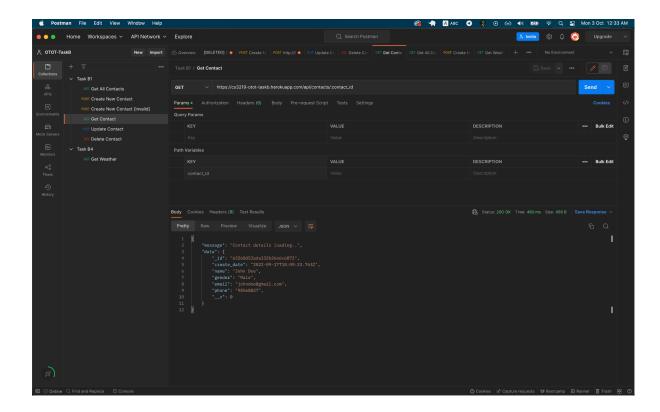
Link to Postman collection

https://app.getpostman.com/join-team?invite_code=c56fa438126e7a4915e6b75aa52d172b or

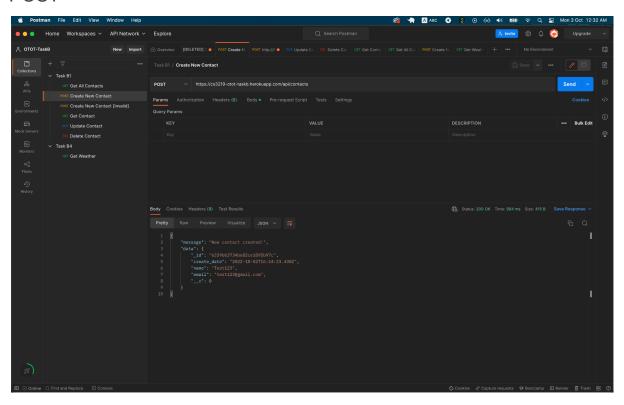
https://warped-space-936145.postman.co/workspace/c95e921a-8165-43dd-8583-13d5f5e88 f1f/collection/12012373-c2dc0a5c-9101-4abf-9961-cbea7d51c10a?action=share&creator=12 012373

1. GET

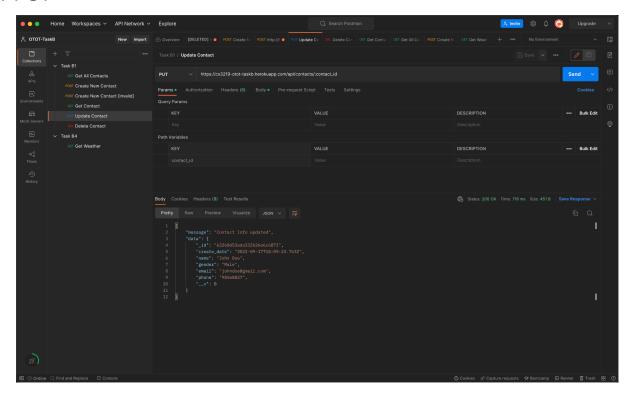




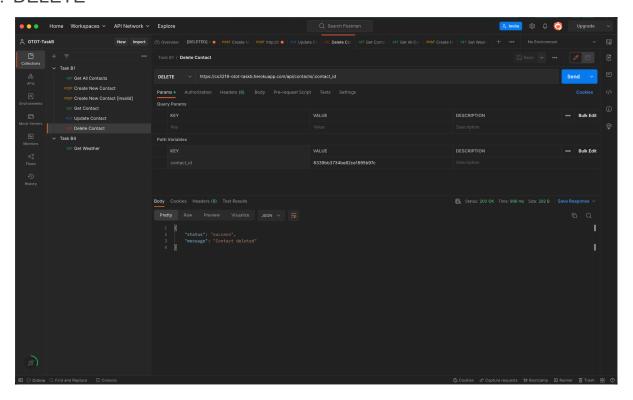
2. POST



3. PUT

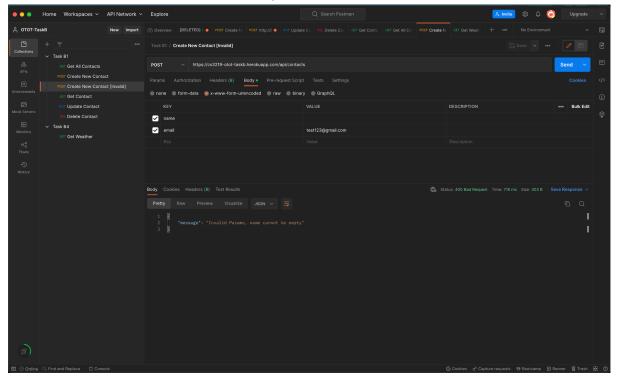


4. DELETE



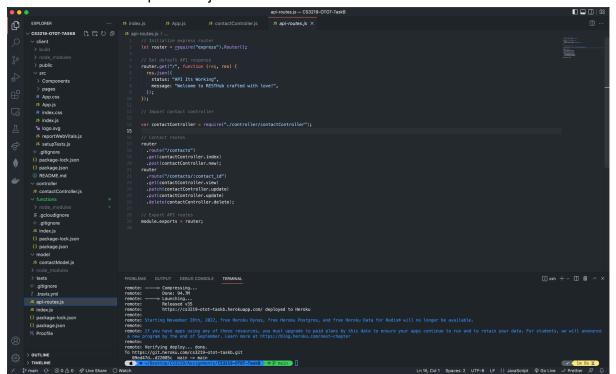
- 5. Invalid data & edge cases tested or proof of error-resiliency
 - case 1: [post] contact name cannot be empty, throw an invalid message

 case 2: [put] if the contact name is changed to empty, will update with the previous name instead of throwing an error

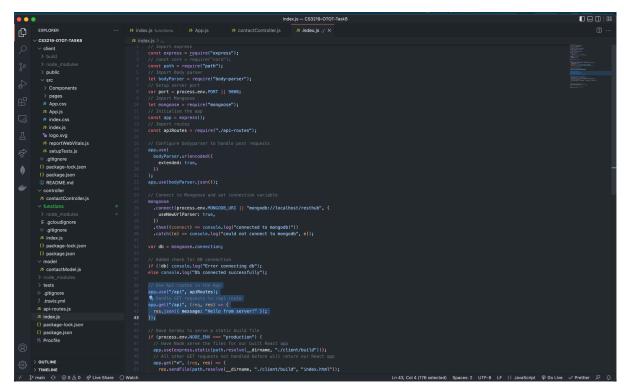


Task B1/B2.2: Access the deployed API

• Define API routes in api-routes.js



- Use API routes in the app in index.js
- To access data from deployed API, use http://{{YOUR ROOT URL}}/api/contacts
 - o i.e. https://cs3219-otot-taskb.herokuapp.com/api/contacts



Continuous Integration whenever commit is pushed to github



Continuous Deployment using Travis and Heroku

```
deploy:

provider: heroku

api_key:

secure: GW3l/ebGdKBuxngwLn8zQANPM7HsO0qKy/BEipqZle+5aR4Zk+ZL02XPZGxe7MebuwtQ9bdnPewjfgs9KOtITMWW0ckiltl2bi4oy2lTw3oT8WcTSIqdmd5VI6jwQVOxgP3lSAV+JDBOtAg1g+/
71Y+uPlkq7z8XhffQBdJcsyXRGAYrwdyWnK7ZsLZ88p84TSNAFAZiBJ9pO3Mgs8b44TFA7MzlaupeCblgxLTlFPglVQgXwbEdoJxPV4Oowb4PpW5zYRJNH7bqDIKje

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+pXN7OBzckskzItFp87adaim6v1IYLuqmhZzbmHPVprmAsVnS8dbb1IvqmNKUMEIB2siSXitTuaRhrK8gWMPM7VznKFnVy1UZF6dVAO5p97d//SXFHewGNcBWQFyf4m++svfyX5Irgox2jriKl+FFWbH

+N4Md0g0jf9dALY60eGV24L8LfRLb09Jp6jaUxTiGG/Yz/ZOVrgShTfkPeym+E99haOo0XroCwI0/YTZgV+UnSJMlxClwuvE4RCLgqktKLFzaLdiYEAbvFm7G/zOw=

app: cs3219-otot-taskb

on:

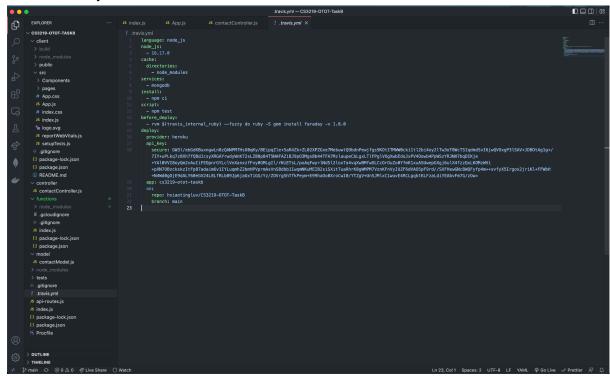
repo: hsiaotingluv/CS3219-OTOT-TaskB

branch: main
```

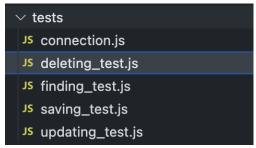
o run deploy on heroku on travis to automate deployment to heroku

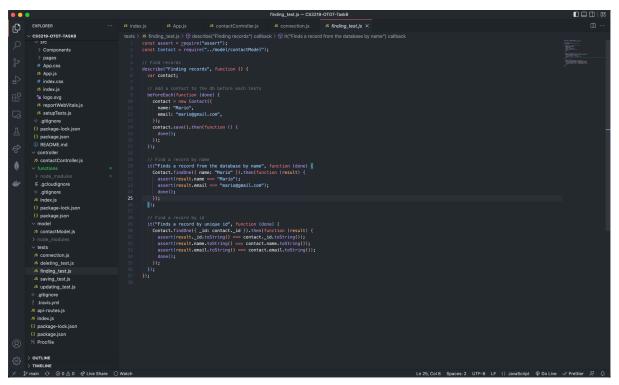
TaskB2.1: Run tests locally and via Travis/other CI tool

• Create .travis.yml file

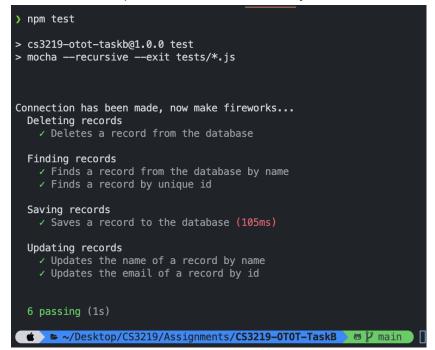


Create separate files for testing





To run test, run "npm test" in the root directory



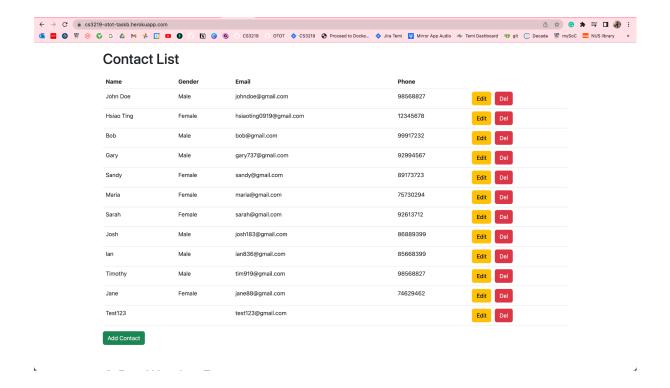
Continuous Integration whenever commit is pushed to github

TaskB3: Set up frontend (B3)

• run "npx create-react-app client" to set up frontend



 fetch data from backend api (i.e. fetch("/api/contacts")) and display in frontend through app.js



TaskB4: A brief explanation of what your serverless function does

 fetch weather forecasts data for the next 4 days from "https://api.data.gov.sg/v1/environment/4-day-weather-forecast"

 get result from the API, loop through the list of data items and keep only the forecast data

TaskB4: Screenshots of the front-end interaction with your serverless function

4-Day Weather Forecasts

- 1. Afternoon thundery showers
- 2. Pre-dawn hours and early morning thundery showers
- 3. Pre-dawn hours and early morning thundery showers
- 4. Afternoon thundery showers