

# CS3219 Task B

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Student Name: Teo Yick Fong Alex

Student Number: A0221444R

Simple Web app functioning like 'yellow pages' hosted on AWS Elastic Beanstalk

## Instructions for testing on localhost

1. Clone this repository and navigate to backend root `./backend`
2. Run `npm install`
3. Run `npm start`
4. Using Postman, send 'GET', 'POST', 'PUT', 'DELETE' requests to `http://localhost:8080/`
  1. Import [Postman Collection.json](#) to postman
  2. Change variable `URL` to local endpoint
  3. Run collection
  4. \*\*\* - Setup: Ignore, used to set up for some tests
  5. \*\*\* - Valid: Should return HTTP codes 200+
  6. \*\*\* - Invalid: Should return HTTP codes 400+
5. To run tests, run `npm test`

## Instructions for testing on deployed endpoint

1. Using Postman, send 'GET', 'POST', 'PUT', 'DELETE' requests to <http://mytestapp25846-env.eba-2byxqhms.ap-southeast-1.elasticbeanstalk.com/>
  1. Import [Postman Collection.json](#) to postman
  2. Change variable `URL` to deployed endpoint
  3. Run collection
  4. \*\*\* - Setup: Ignore, used to set up for some tests
  5. \*\*\* - Valid: Should return HTTP codes 200+
  6. \*\*\* - Invalid: Should return HTTP codes 400+
2. To view CI test results, go to: [link](#)
3. Click on specified workflow -> Continuous Testing -> Run workflow

## Instruction to set up frontend

1. Clone this repository and navigate to frontend root `./frontend`
2. Run `npm install --force`
3. Run `npm start`

## Serverless Function

1. This serverless function pulls all exchange rates around the world for the past 3 months and returns the currencies whose current rates are better than 1.05x the average of the past 3 months.
2. Function URL: [here](#)
3. Data is displayed at the top of the frontend for easy viewing

## Task B1 - Backend

- ☒ Successful GET, POST, PUT, DELETE API calls on localhost
- ☒ Successful GET, POST, PUT, DELETE API calls to deployed endpoints (AWS)
- ☒ Handle common edge cases and error-resiliency

## Task B2.1 - Continuous Testing

- ☒ Successful testing for API using Mocha/Chai
- ☒ Use Github Actions to automate testing

## Task B2.2 - Continuous Deployment

- ☒ Use Github Actions to automatically deploy to AWS Elastic Beanstalk

## Task B3 - Frontend

- ☒ Interact with the API using the frontend
- ☒ Implementation of style e.g., using Bootstrap

## Task B4 - Pull data from serverless function

- ☒ Deploying a serverless function to AWS Lambda
- ☒ Ability to interact with the serverless API using the frontend