

ip-Label recruitment test

The subject of this test is to build an node.js/express REST API witch store a list of numbers and allow some manipulations on it.

A swagger file and ui is provided in the project : you can display and use it by launching the application:

```
yarn install # install the project
yarn serve # the swagger UI is browsable on http://localhost:3001
```

To launch the unit tests suites:

```
yarn test
```

It will executes all the tests files in the `__test__` folders not marked as `skip`

project tree :

test_recrutement

```
├── index.js
├── jest.config.js
├── junit.xml
├── package.json
├── README.md
├── routes.js
├── swaggerdoc.yaml
├── test
│   ├── mean.test_skip.js
│   ├── numbers.test.js
│   └── operations.test_skip.js
└── yarn.lock
```

The coddng test steps:

1. The Numbers routes

💡 All the Unit tests in the `__test__/numbers.test.js` must pass

2. The Numbers/{operation} route

Rename the `__test__/operations.test_skip.js` to `__test__/operations.test.js`

💡 All Unit tests must pass

3. The Mean value calculation

Rename the `__test__/operations.test_skip.js` to `__test__/operations.test.js`

💡 All Unit tests must pass

Your goal is have this result:

```

yarn run v1.22.10
$ yarn jest --verbose --coverage ./*.test.js
$ /root/.nvm/versions/node/v12.18.3/bin/jest --verbose --coverage './*.test.js'
PASS __test__/mean.test.js
  test mean value of the list
    ✓ empty list has no mean value (86 ms)
    ✓ mean value (90 ms)

PASS __test__/operations.test.js
Operations
  ✓ unrecognized operation (18 ms)
  ✓ Operations with string (6 ms)
  ✓ Divide (6 ms)
  ✓ Divide by 0 (4 ms)
  ✓ Add value (3 ms)
  ✓ Subtract value (6 ms)
  ✓ Multiply value (6 ms)

PASS __test__/numbers.test.js
test Numbers
  ✓ Get the number list (81 ms)
  ✓ add numbers (34 ms)
  ✓ cumulate numbers (13 ms)
  ✓ post Numbers with strings (6 ms)
  ✓ post Numbers with two strings (5 ms)
  ✓ remove string value from the list (12 ms)
  ✓ remove values from the list (20 ms)

-----|-----|-----|-----|-----|-----
File    | % Stmts | % Branch | % Funcs | % Lines | Uncovered Line #s
-----|-----|-----|-----|-----|-----
All files |     100 |     100 |     100 |     100 |
  routes.js |     100 |     100 |     100 |     100 |
-----|-----|-----|-----|-----|
Test Suites: 3 passed, 3 total
Tests:       16 passed, 16 total
Snapshots:   0 total
Time:        2.761 s
Ran all test suites matching /\.\/*.test.js/i.
Done in 4.42s.
[root@LGC0FF-PF1NJ2Q6 test_recrutement]#

```

We will pay equal attention to the quality and the readability of your code.
 Feel free to leave comments to explain your choices Good luck