



Overall Guidelines:

- Send us back the compressed folder of this assignment
- This should take several hours to do, if you need more time or more information email us.
- Take your time and check and clean your code before delivering.
“The ratio of time spent reading (code) versus writing is well over 10 to 1 ... (therefore) making it easy to read makes it easier to write.”
— Robert C. Martin, Clean Code: A Handbook of Agile Software Craftsmanship
- Be aware that you will be asked on your code and the development procedure (tools, 3rd libs you used, ...)

Guidelines

1. Your task is to write a simple calculator which supports 4 arithmetic operations (+, -, *, /).
2. In order to complete the task, you'll need a client & backend server.

Client -

The client should include a simple UI for a calculator which includes all the digits and the 4 operations. For each operation performed, the client should send the task to the server side, and get answer to display.

You can write your client using plain JS or use any Library/Framework you wish (Like React, Angular, Vue.js ...)

Server -

Write a server with Node.js and Express which will include API routes for the arithmetic operations. (You could have 4 different routes or a single one to catch the requests). The server will get the parameters from the client and return an answer.

Make sure all the routes are secure. You can use some 3rd party library like OAuth2 or Auth0 for securing the request (you can hold a local list for users & tokens or implement it in any way you prefer).

Write a test module (with Jest or Mocha or similar library) to test your API. You can make some constant mock data. Your tests should be under ./tests directory.

Feel free to contact us.

Good luck !

:-)