ADP Innovation Labs Pre-Interview Assignment

Hello potential future coworker! :D

We're looking forward to having some great days working on creating new projects, debugging issues, planning applications, solving problems, and all of the other fun things we do here in Innovation Labs - together with you!

But before that, let's see if you can demonstrate some stock skills you'll need to be successful in this position :)

Note: if anything isn't specifically called out here, feel free to be as inventive as you like - no pressure to adhere to any strict rules. Our primary goal is to know that you generally understand web application principles.

Have fun!

Task

Create a simple JavaScript (nodejs) application that makes an HTTP GET request to

`https://interview.adpeai.com/api/v1/get-task`

and then, using the ID and properties returned, dynamically perform the calculation as instructed.

Once you have your ID and your result, make an HTTP POST request to

`https://interview.adpeai.com/api/v1/submit-task`

with a JSON POST body including the properties `id` and `result`.

The `submit-task` endpoint will return as follows:

Status Code	Description
200	Success

Status Code	Description
400	Incorrect value in result; no ID specified; value is invalid
500	ID cannot be found

Your code should be able to respond appropriately to these HTTP status codes (at your discretion).

Evaluation Criteria

- the candidate should not use frameworks like React, Angular, and Express, or bootstraps like `create-react-app` and `angular cli`. Libraries are allowed, just not frameworks.
- a reviewer should be able to clone this repository (e.g. from Github, Bitbucket)
- a reviewer should be able to run `npm install` and get all required dependencies
- a reviewer should be able to run `npm start` to run the application
- a reviewer should be able to see that calls are successful
- the work should be free of CORs errors when running on http://localhost

Bonus Criteria

- While application is running, it gets and submits tasks continuously (without being a DoS attack :))
- Code is commented where appropriate
- Project is linted with common ESLint config (airbnb, standard) and contains a `lint` script in `package.json`
- unit tests / end-to-end tests are runnable via `npm test` command
- Report any bugs or issues you find (there shouldn't be any, but who knows ;))