**Programming Test**

**Description:**

Build a queue management using HTTP that has the following methods:

1. GET Route – that returns a JSON object representing all of the jobs in a priority queue.
   1. A general version of the route that will show all jobs in the system
   2. A parameter attached to the route will filter the jobs by “status”
2. POST Route – that adds jobs to a priority queue based on user input
   1. The application will not add jobs to the queue unless the HTTP Authorization header is set to "allow"
   2. The application will return a JSON object containing an error if POST requests are unauthorized
   3. The priority of the queue will be “first in first out” (FIFO), and ID will be the parameter representing the priority

The application will process jobs on a background thread every X seconds, where X is a configurable variable pulled from the environment vars:

1. Processing a job is equal to taking the values of the "data" key in the user input and adding all values within it to each other
2. Once a job is processed, it will be flagged as "processed" and will be ignored by the processing background thread(s)
3. The number of seconds between job processing will default to 10 if no value is supplied

**Notes:**

* Please start with a basic working implementation and then extend
* At the end of 1 day (or earlier), please email back you deliverables, including test output, based on the sample example data below (JSON Object)
* If anything in the question is unclear, make assumptions, write them down as comments in the code and continue
* You can choose any Language and server – Node.js, express.js, or even Python flask.
* Test code must run on either windows/mac/linux
* Good Luck!

Example of JSON object – GET Route and POST Route

