

Pulse Energy Back-end Sr Code Assignment

Assignment:

- Download & open this [CSV file](#). The CSV file has two columns: *charge_point_id* and *payload*. Each row represents a “meter value record”.
- Make a Websocket server. This server is to be beamed up with the data above, coming from more than 50,000 clients at a single point in time. The data will continue to stream iteratively for 1 hours in a repeated manner.
- You’ll have to make mock clients (use <https://www.artillery.io/>) that pick up the individual meter value records from the given CSV file and send it to the Websocket server that you created in an interval of 5 seconds. You can consider each *charge_point_id* as a client and send only the meter value records of that client/charge point.
- The data received by the server should be stored in a DB (SQL or NoSQL, it’s up to you).
- This stored data should be retrievable by 1000 external parties via 2 API endpoints (use <https://www.artillery.io/> to mock up the external parties as well).
 - List endpoint: this API endpoint should be able to return the data in a paginated format and if requested only for certain charge point ids that are passed in the request.

- Detail endpoint: this API endpoint should be able to return the complete data for a single record.
- Use 2000K as the validator for a successful request response cycle
- Make sure each request response occurs under 200ms (P50th percentile)

Final Deliverables:

1. Send us a GitHub/BitBucket link of the repo or a zip file (DO NOT include node_modules or env folder and include .git folder so that we can see the commit history).
2. Please write up a README describing how to setup and run the project.

Bonus points for:

- using TypeScript (applicable only if you are using Node.js)
 - adding tests
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Feel free to reach out to me if you have any questions at devang@pulseenergy.io or call on +919702394073

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Pulse Energy is our attempt to do so!