Coding Task V3

Use this **Data source** to feed data in mongo

A. Question

Design a REST API endpoint that provides the report of a country by a given range in weeks.

Request Description:

GET /vaccine-summary

Query Parameters:

```
c, country code to get report for
dateFrom, yyyy-Www, eg. 2020-W10 (Including)
dateTo, yyyy-Www, eg, 2020-W20 (Excluding)
rangeSize, number, eg, the period for which to calculate metrics
sort, either by NumberDosesReceived[descending] or weekStart [ascending]
```

B. Sample responses

These are just examples to provide guidance (It will just contain total number of doses in given date range)

Example 1: Match

Request

GET /vaccine-summary?c=AT&dateFrom=2020-W10&dateTo=2020-W53&range=5

Example 2: No match

Request

GET /vaccine-summary?c=AT&dateFrom=2017-W00&dateTo=2018-W02&range=5

```
Response {
    "summary": []
}
```

C. Tech Requirements

- 1. Nodejs
- 2. Typescript
- 3. MongoDB (use appropriate aggregation, when possible)
- 4. Docker and docker-compose (optional)
- 5. Tests: Chai and Mocha (Or Jest)
- 6. Input validation (Optional)
- 7. Code linter

D. Submission requirements

- 1. No Typescript = No Submission (Please don't waste your time)
- 2. Design and implement your solution as you would do for real production code
- 3. Clean and well-structured solution
- 4. Use Mongo mock and add integration test cases
- 5. Commit early and often. We want to be able to check your progress
- 6. Please complete your working solution within 7 days of receiving this challenge, and be sure to notify us when it is ready for review.
- 7. Please submit your code in any way you like: Github or bitbucket with instructions on how to run the code and any assumptions you made.
- 8. Bonus (Feel free to add this feature in your code/test to stand out): Add rate-limit feature in API, eg, for the given IP address, to only allow 5 calls per minute