Heart Rate Assignment

Background:

For a clinical trial, it is required to calculate some statistics for patients' heart rate data. The input "heartrate.json" file contains heart rate measurements collected by a patient over several days. Each measurement consists of beats per minute and timestamps when the measurement was taken (start and end timestamps).

Problem Statement:

Calculate the minimum, maximum and median beats per minute and the latest data timestamp (timestamp of the last measurement in the day) for each day. Output should look like this

```
[
  {
    "date": "2023-04-28",
    "min": 60,
    "max": 119,
   "median": 81,
    "latestDataTimestamp": "2023-04-28T21:54:00"
  },
 …..
]
```
The output needs to be written to a file "output.json".

Rules:

1. Language to be used TypeScript or JavaScript
2. Ensure to read the JSON file and Write to output JSON file during Run time
3. The coding standards would be checked as part of this assessments, please ensure appropriate nomenclature for all packages/class files
4. Code should be shared via github, ensuring open access for reviewers to access the code.
5. Add README file with instructions on build and run the project.