

Imagine that you have an application with millions of users. Performance is key. You need to create a backend for it which will handle the following two requests. The backend has a database which keeps counters for each day, country and event. Event can be any of "view", "play" or "click"
E.g.

2017-07-01 US views 50000

2017-07-01 US plays 100

2017-07-02 US views 3000

2017-07-01 CA clicks 123

...

1. Receive data from application. The data is sent by POST. The data is formatted in json. The backend needs to decode this data and extract the "country" and "event" fields. Then the backend needs to increment a counter in the database for the current day for the respective country and event.

2. The application does a GET request. Data should be returned in different formats (json, csv) according to the request parameters. The response should contain the sum of each event over the last 7 days by country for the top 5 countries of all times.

Notes:

- Use only pure PHP. Do not use any framework
- The table will eventually hold millions of rows and the api will get dozens of requests per second. Returning 100% up2date information in responses is not a requirement but fast responses are.