



Backend Coding Challenge



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Thanks for going through our interview process and for taking the coding challenge!

Problem Description

There is a log file that contains log lines from multiple microservices. This file is very large and has almost 100 million lines. A small sample of this log file can be found in `logs.txt`

What are your tasks?

1 - Create a console command that parses the log file and inserts the data into the database.

2 - Design a REST API endpoint `/logs/count` which returns a count of rows that match the filter criteria. This endpoint accepts filters via GET HTTP verb and allows zero or more filter parameters.

The filter include:

- serviceNames
- statusCode
- startDate
- endDate

The result of `/logs/count` is:

```
{
    "count": 50
}
```

The Rules and Advice

- What is important for us? SOLID, KISS, DRY, YAGNI, design patterns, separation of concern, framework standard, and security
- Implement the solution in PHP using the Laravel or Symfony frameworks and document the solution in the README file.
- Pick any Database that you are familiar with and decide on a schema.
- You should only need to spend a couple of hours, definitely less than 5. That should be enough time for you to demonstrate your coding style and approach to problem-solving.
- Try to include at least one test to demonstrate the tools you use, and how your approach to writing tests.
- Stub out or describe what other tests you would include with more time.

- If short on time, describe how you would document the service/API in a README.md. How would you make the documentation available? What tools would you use?
- Ideas for more features or improvements? Feel free to implement them, or describe them in a README.md.
- Add any other comments/notes you feel add value to your README.md.

Once you are done with the challenge, please send us the link to the repository.

Good Luck :)