

## Legend / Background

The company is running a web application for its customers. It is a typical CRM-like web site to manage the list of clients, relationships, documents, plans etc.

Over the last month customer support noted increased rate of site performance complaints. It has never been ideal, but currently it seems that things go worth.

## Data

To investigate the issue, the following data have been collected and placed to /opt/materials/performance-issue.zip at your virtual machines:

File performance.csv – log of HTTP requests from company application servers. Comma-separated file of the following structure:

- HTTP request timestamp;
- Request processing time in milliseconds
- HTTP response code (200 – OK, 404 – not found etc.)
- Request type (POST/GET)
- Request URI
- ID of the user who sent the request

To facilitate analysis, the mapping file from user IDs to company names is also provided. It is users.csv with the following fields:

- User ID
- Company ID
- Company Name

You can also find the same data sets here:

<https://drive.google.com/open?id=1OI0TW2tAR96oskL1vD7iVqhaAWe24shG>

## Task

Investigate the data and provide as much insights about system performance as you can find. Obviously, you cannot fix the system 😊, but you can help development team to localize the issue. Feel free to use any tools, approach and ideas you have.

There is no good or bad answer, try to find out as much as you can about the data and tell us a story what was happening, and potentially your suggestions how to fix it.

We want to see how you think, act and resolve tasks in a real time, so even if you don't find any findings – try to explain what you are doing and your approach.

**When you're ready, submit your answers here:**

<https://forms.gle/G1i8iWAUE4vbHrrp9>

Good Luck!