



Case Study

Saving 50% operational costs with a custom HR administration tool

VirtusLab aimed to make their administration more efficient. This was particularly important as they planned to expand and hire more staff. Unable to find a suitable solution in the market that aligned with their current processes, they developed their own tool. They've used it to handle salaries, contracts, and similar administrative tasks. As a result, VirtusLab noticed a 50% decrease in administration costs. Also, the transition from their previous toolset to a new one was swift and easy as it required minimal training.



The Challenge

In the past, VirtusLab managed their administration in Google Sheets. The workload grew exponentially as the company grew, and this approach became outdated and time-consuming. For instance, the HR staff had to manually check payment orders generated by an automatic macro for each employee. Moreover, the Google Sheet had its limitations, a single, misbehaving formula could cause issues in the entire spreadsheet. To boost productivity they need to improve their administrative workflow.

VirtusLab needed a scalable tool that could fit into their budget and work with their current administration workflow. The solutions available on the market would require modifying the company's existing procedures to work well. To avoid that, VirtusLab decided to build their own tool.





The solution

VirtusLab had to automatise some of their tasks, especially for salaries. They designed their tool having the problems of the end user in mind. In other words, their approach to building their tool was based on design thinking methodology. VirtusLab developed an MVP that caters to the needs of C-levels and HR. Once implemented, it handled various tasks. This includes:

- **Payroll**
- **Contracts**
- **Time reports**
- **Employee benefits**
- **Business travel**
- **Personal data**
- **Annual medical checkups**
- **Tracking of employee's career paths**
- **Tracking hours developers spent on client's projects**

After gathering feedback for the MVP, VirtusLab focused on improving the UI and UX. To do so, they employed their custom design system called Tetrisly. This way, the end product had a consistent interface that was easy to use.



The results

Since VirtusLab switched to a new tool, they've noticed the following benefits.

- 1 **Achieving a 50% reduction** in administrative task costs
- 2 **Saving time that VirtusLab** would have to invest in adjusting their workflows and processes to accommodate a new tool
- 3 **Reducing the time** spent training HR and administration staff in utilising the new tool



The tech stack

/ Backend Communication:

- GraphQL

/ UI:

- React (Typescript)

/ Backend:

- Scala 2.13,
- ZIO 2,
- Caliban (GraphQL API),
- Postgresql + Doobie + Flyway



Caliban



About VirtusLab

At VirtusLab, we aim to lead in software technology, working consistently to enhance efficiency. Our profound commitment to research and development and a dedicated focus on emerging trends and inspirations fuels an innovative culture. This ethos precisely guides advancing our cutting-edge solutions, inviting collaboration to expand the boundaries of software technology collectively. We welcome you to be a part of this transformative journey.

[Let's connect](#)

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