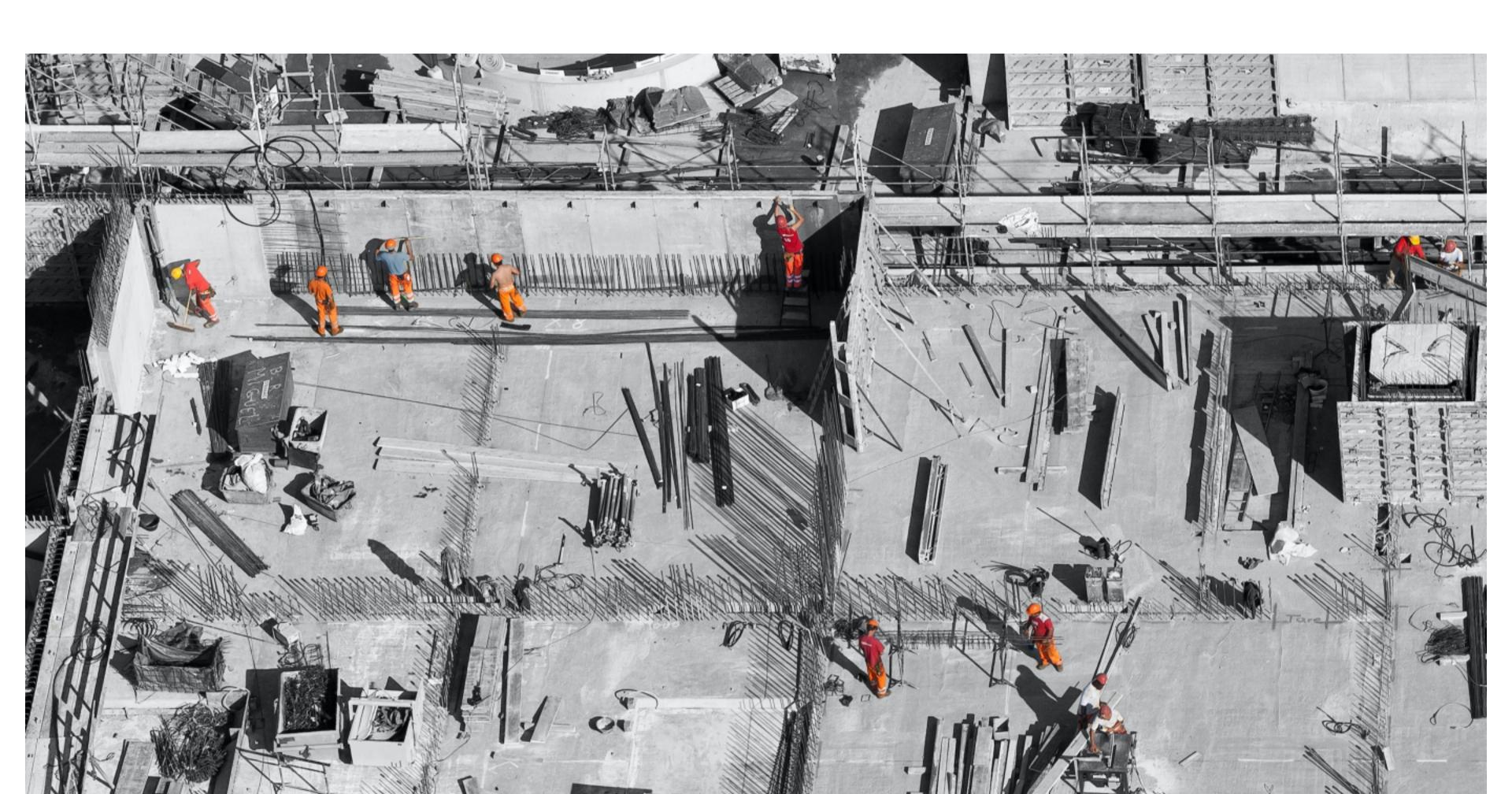


Australian Construction Company

A learning management system for a construction business



About the company

construction industry. Thanks to their established processes for employee education, they've ensured the provision of top-notch services, as proven by the numerous awards their projects have won. The company cares about the quality of their work, and having qualified

Our client has more than three decades of experience in the Australian

employees is key to ensuring the best results. The reputation our client has built over the course of many years has

brought them billions in revenue.

Business challenges

workers' training and certifications. However, all corresponding processes were performed manually, which was inefficient and led to the following: Poor data Time-consuming High cost of

The Australian construction company pays special attention to their

management Information about employees' certifications could get lost,

resulting in the need for employees to repass certifications unnecessarily.

When a new project came, the managers needed to review

candidate search

hundreds of workers to find those with particular qualifications.

errors Employee training

requirements may be regulated by government agencies, and a missed or expired certification can lead to fines, lawsuits, and reputational damage.

Looking for a reliable vendor

acquainted with the development process. But they were still unsure about the exact solution they needed for managing their employees' qualifications. They came to SysGears to resolve existing problems, find relevant

Our client already had a set of software products, so they were

software solutions, and prepare for development by defining a solution to cover all their business needs. The business analysis stage became a kind of test drive, during which

stakeholders got to see our approach, expertise, and services. After we formed a clear product vision and prepared documentation, the stakeholders decided that they wanted to continue development with SysGears.

What we offered

Business analysis and design

Service

Our business analyst started from the discovery phase by interviewing stakeholders, exploring current business flows, and

creating diagrams to visualize operations. They helped to shape the feature set for the first release so employees could quickly master the new software. After the initial stages of business analysis were completed and a feature breakdown list was approved, our business analyst created wireframes for user flows and prepared documentation to facilitate further development. **Quality Assurance**

The quality assurance engineer was onboarded to the project when the first substantial part of the scope was ready. They have provided

Our QA's focus was on usability and integrations, as it was important for the client to be able to onboard the team to the software as soon as possible and provide a user experience consistent with existing products.

comprehensive test documentation that allows them to spend

minimal effort on executing test cases and fully cover all functionality.

and modeling data. As the company works with Microsoft tools, our developers provided a single sign-on option that allows users to enter

Development

the system once with their Microsoft account and access all necessary services. Besides implementing the solution, our developers were responsible for its deployment to SharePoint so the client could manage all their products through one software platform. **Project Management**

Our software engineers started by designing the system architecture

A project manager helped to organize teamwork following the Agile methodology and facilitated communication with stakeholders. Every two weeks, they held a demo meeting showing the client all

functionality implemented and noted the client's feedback. If the client wanted to change the functionality a bit or adjust some features after the demo, the project manager refined the backlog and ensured development was aligned with business needs.

As the company already had some software and wanted all of their solutions to be managed through the same infrastructure, we selected a technology stack that fit their requirements.

Draw.io

Technologies

Design **Project management**

Figma Frontend web

TypeScript

Deployment

React

Bitbucket

Apollo Client (GraphQL)

Backend

Slack

Play Scala

Microsoft Graph API

Jira

Caliban ZIO

Google Workspace

PostgreSQL

Myro

Whimsical

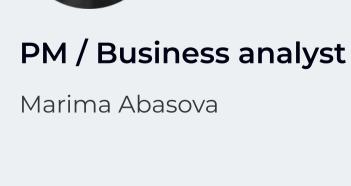
Microsoft Azure

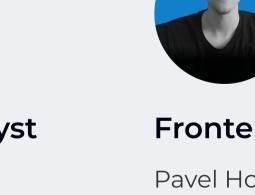
Docker

Team

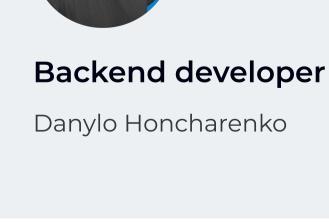
budget without compromising quality and ensure a smooth development flow without any idle time.

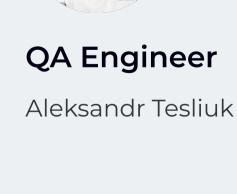
We chose an optimal team structure, adding specialists when needed, to fit within the client's monthly





Frontend developer Pavel Honcharenko





Solutions

Automated certification tracking

Now, each employee or manager can see all their certifications with current statuses: required, active, or expired. Moreover, each team member can request to repass a certification, and

Leaderboard for motivation

To encourage managers to keep an eye on their teams' certifications, a leaderboard shows if the whole team has active certifications or if some team members have expired or required certifications. This gamification solution has helped to avoid missed expirations that can lead to fines or even lawsuits.

stakeholders are notified about such requests through various communication channels.

Suggested candidates for projects Construction projects always require a team with a specific set of skills. Now, project managers can easily find employees that have corresponding training. This allows managers to reduce the time spent on gathering a team and ensure that all team members have appropriate qualifications.

Tasks as sets of certifications Jobs often require more than one certification, and requesting employees to pass all of them manually is time-consuming. Tasks combine certifications necessary for particular jobs. Administrators can manage tasks, and when a task is selected, all necessary certifications for it are requested from the employee automatically. This is convenient for both administrators and employees.



development professionals