Development of custom software for a supply chain planning app

TARA

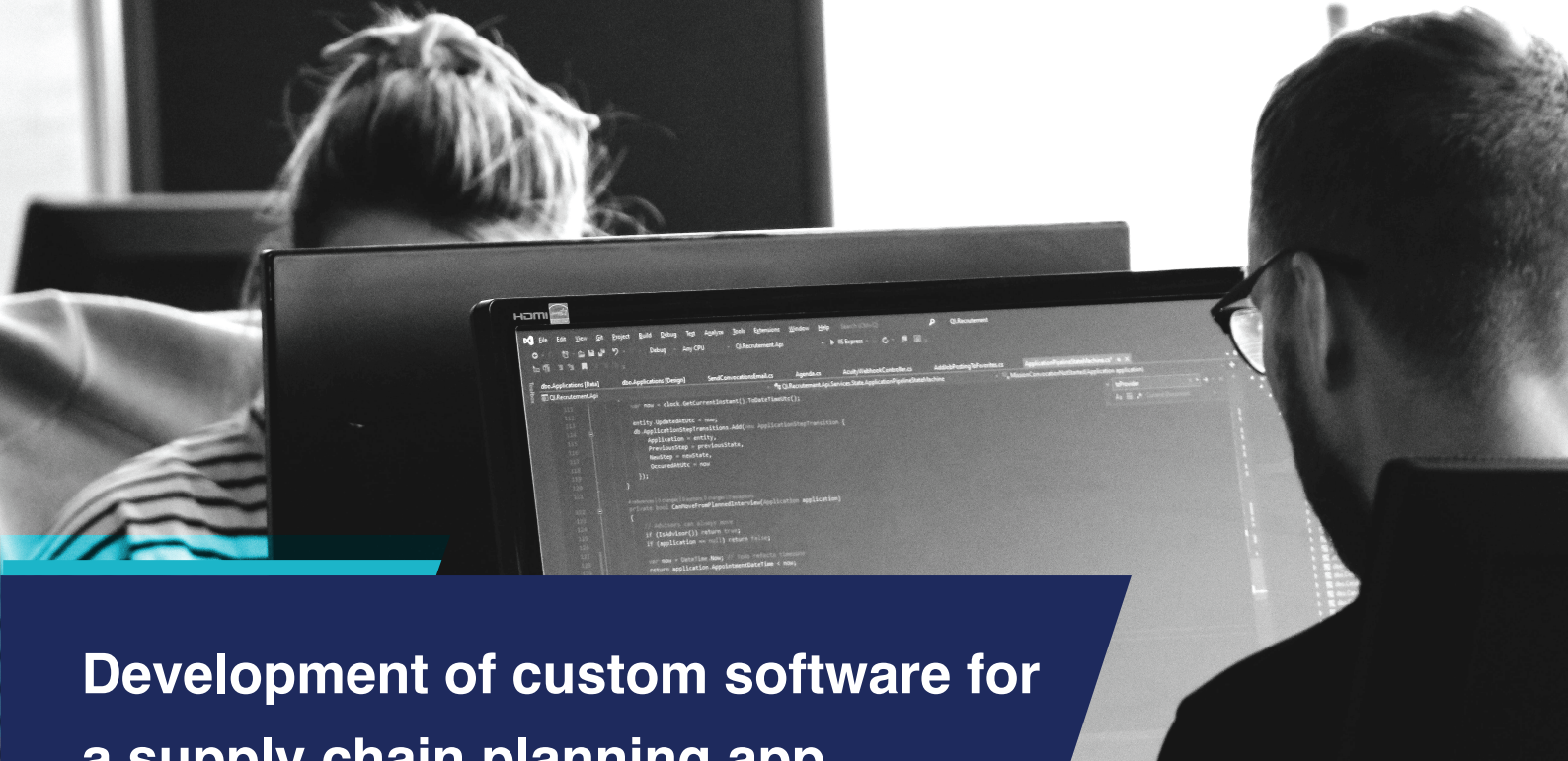# Development of custom software for a supply chain planning app

Overview

Two entrepreneurs from California came with the idea of coming up with a solution to ensure optimization of the food supply chain. The team didn't want to build a development team, being aware of the high costs that would entail, so they wanted to work with a custom software provider. They contacted an old partner from TARA to help them build a cost-effective software experts team extension.

TARA was chosen due to the experience of over 20 years in developing customer software for clients in Europe and the US.

Solution

The app uses combinatorial issues through a multi-agent system that is deployed in the cloud and managed via a web application. The team wants to create an algorithm to use resources more efficiently. The interface of the application has to be intuitive and easy to use, so that users can plan their supply chain needs and continue using the app.

Technologies

TARA chose to work with VueJS/Bootstrap for the front-end implementation because it is flexible and scalable, and it can be used for huge, modular Single Page Apps (SPA).

For the authentication part, we used Okta as a Security Assertion Markup Language Single Sign-On (SAML SSO) solution provider for a secure and seamless experience.

For the backend microservices, we used Go programming language due to the performance and security it provides. The Machine Learning algorithms are typically written in Python, R, or C++.

Process

The project is developed following the Agile Scrum methodology using the latest technologies. This method was used in order to be able to better adapt the requirements of investors and clients.

The development process takes place in 2 weeks sprints, therefore twice per month the client is informed of the latest updates that are made.

Results

The client team has successfully delivered tens of pitches to new clients, awareness for investors for the next funding round, including world-class consulting companies. Plus, the version of the app has helped the 2 founders raise subsequent investment that was important in its further development.

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