HOW TO CREATE B2B MOBILE APPLICATIONS FOR NON-TECH USERS

Building Brand New UX while Keeping the Existing Database Compatibility

Case Study

FAST FACTS ABOUT PROJECT

Industry
Electro energy

Solution
Mobile application development

Country
Canada

Duration
8 month

Stack
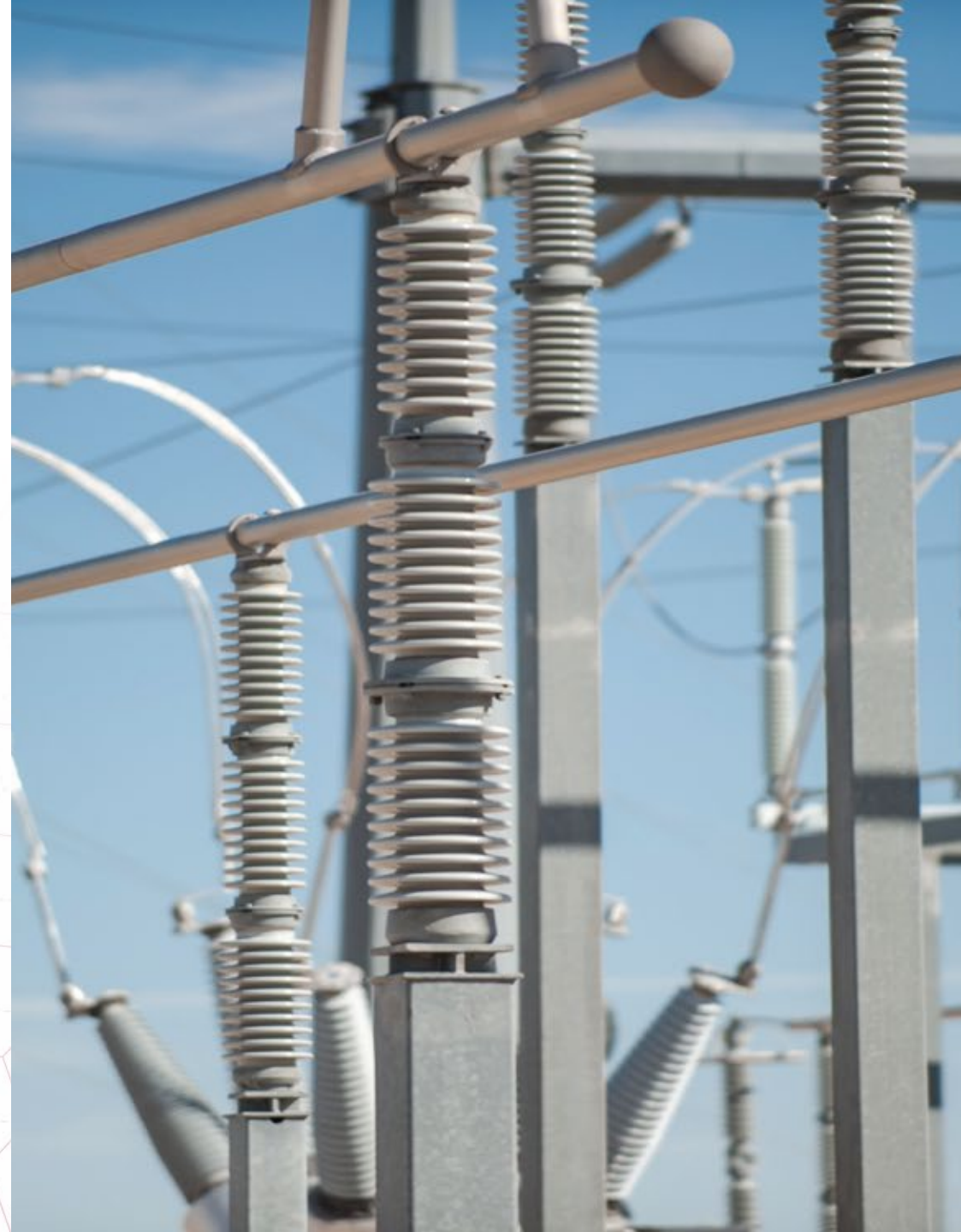React Native, Typescript, .NET, Dapper, SQl Server, ASP.NET MVC, AngularJS

Efforts
3000 man/hours

CLIENT OVERVIEW

A software development company, providing enterprise application development services, systems integration, and many other custom software development services to optimize business processes through IT, including consultations with end clients.
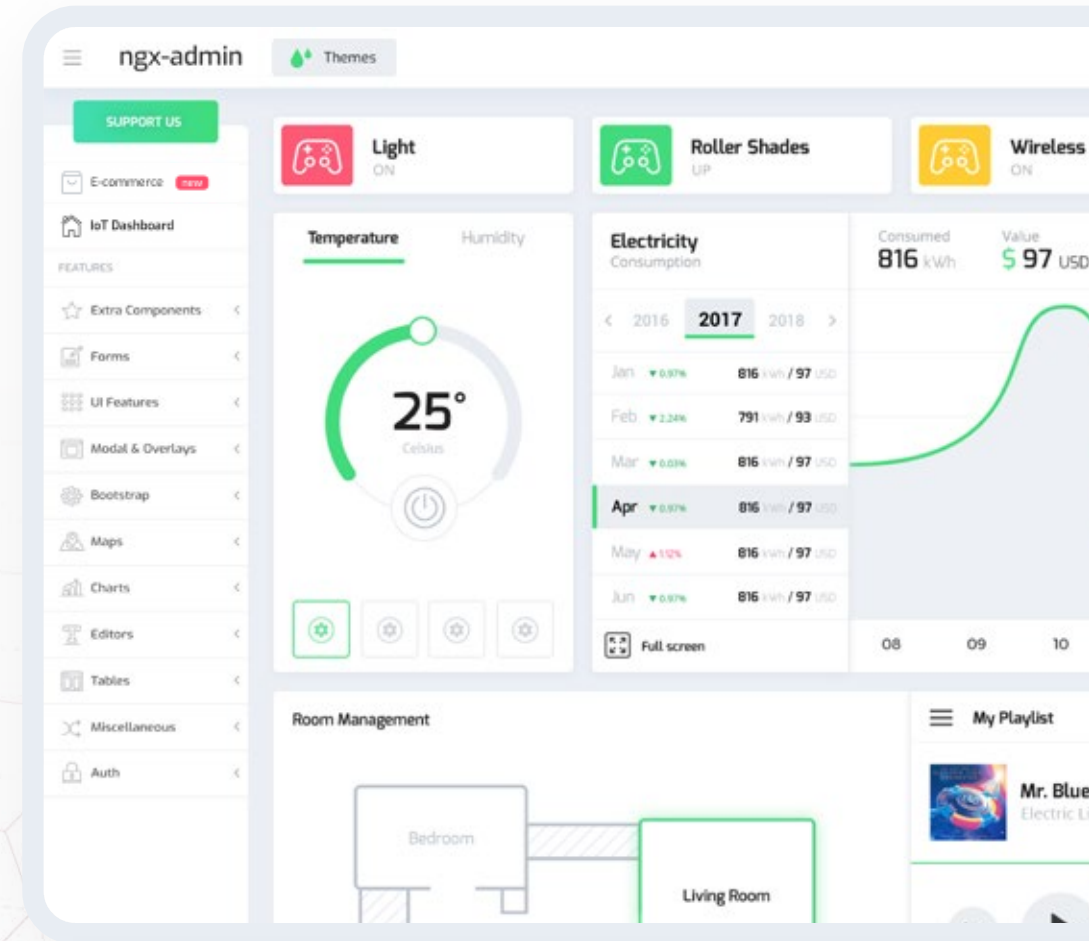
COLLABORATION RESULTS

A brand new mobile solution, web API services and the improvement of an admin web app that's used to support work safety processes, performs inventory reviews, plans work, assesses risk, gives notifications and provides instant access to safety instructions and standards.

HOW DID THE CLIENT COME TO WORK WITH AKVEO?

The client evaluated the solid front-end solution of ngx-admin (Open Source product developed by Akveo, the second most popular GitHub Angular library) and asked us to make a modification of their current web-application. The result was a success for all parties involved. In addition, the client began a discussion about a new and bigger project. The client gave us a new challenge – building a mobile application for their B2B vertical.

🔗 **ngx-admin** - Open Source Angular admin dashboard

🔷 Find out more about **Akveo** and our products

CHALLENGES

Complete logic of comprehensive data entering forms

The end users of the application are non-tech people

Offline first approach

Keep backward compatibility on the database level

SOLUTIONS PT.1

1 The mobile application logic should be clear and easy for non-tech customers. We asked the client to give us the opportunity for communication with stakeholders, who were connected with future users and knew the business logic of the project well.

2 To save the functional logic of the current application but make the UI easier at the same time, we provided a design-analysis phase. The new mobile application has received a UX-improvement.

SOLUTIONS PT.2

3 Realm – a mobile database, was applied to the solution with an Offline first approach. It allows one to provide secure data storage on devices, making complete data requests and uses data without network access.
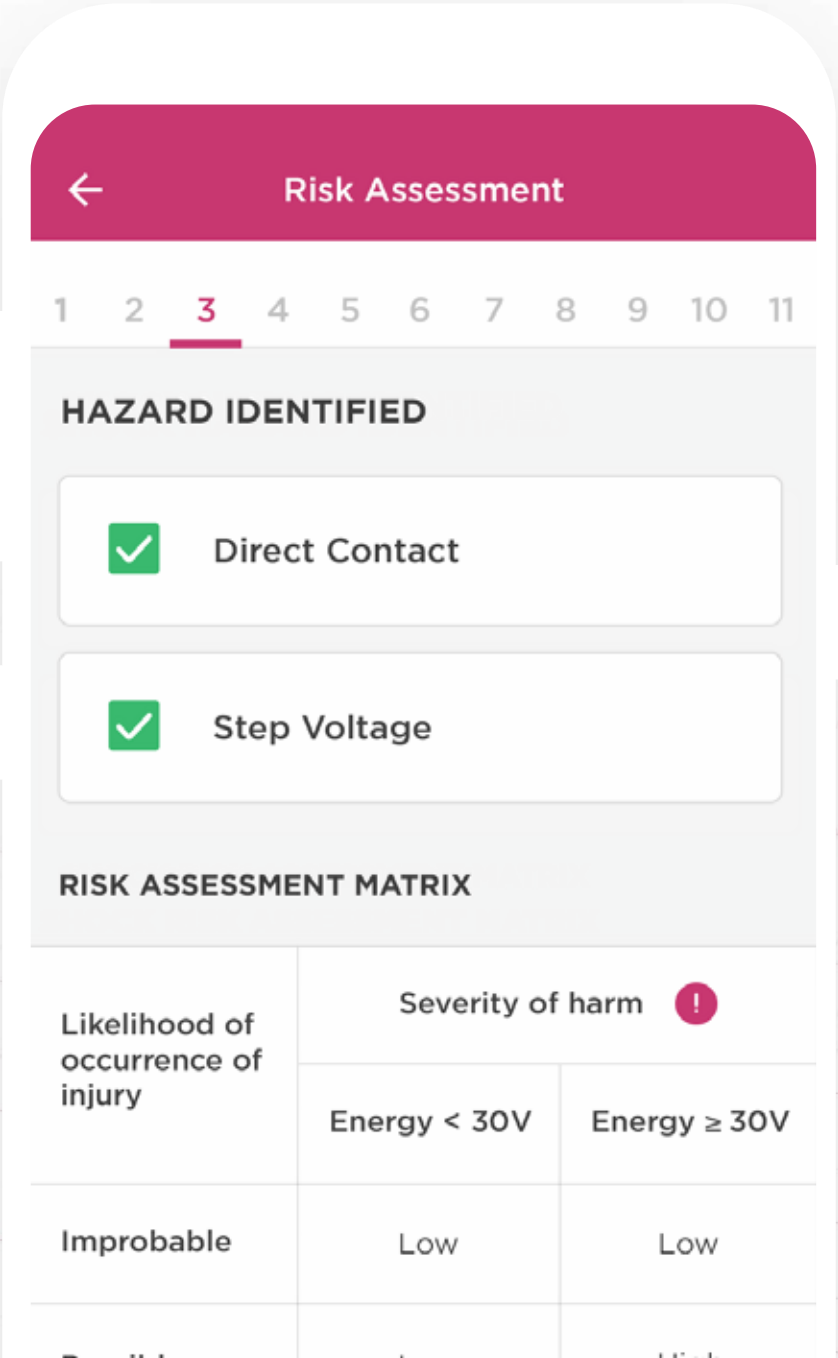
4 We used a Dapper for data access on the backend. The library allows handling any database requests while maintaining a high performance at the same time. All of these modifications to the database were incremental and the majority of the logic was moved to the API level.

RESULTS PT.1

The new Compass Point System application has custom visual components instead of regular components set. It allows for making the UI of the application more clear for end users. When users began working with the new app, they didn't have any difficulty using it.

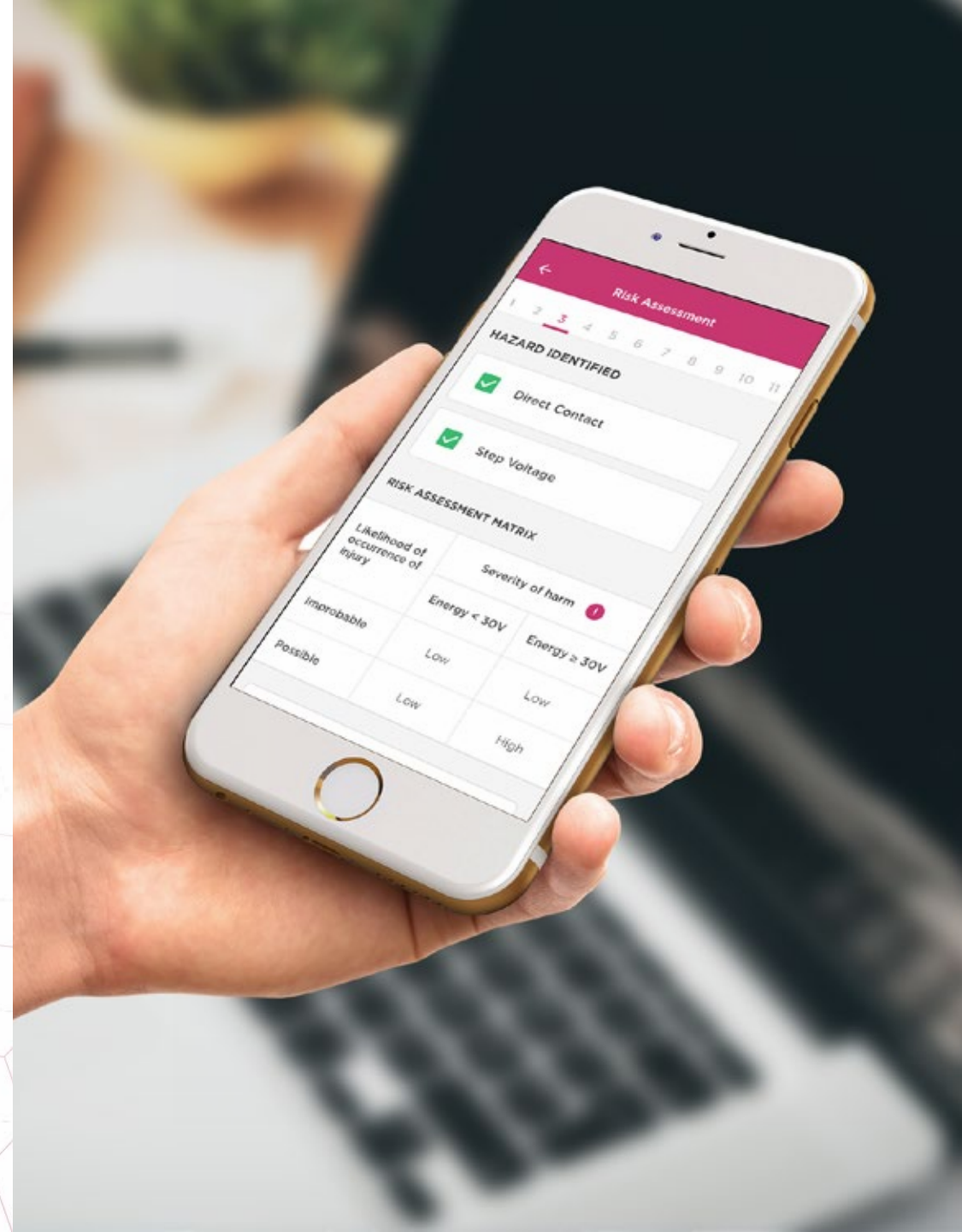The database preserved the compatibility with all existing APIs.

RESULTS PT.2

Within the project, more than 10 User acceptance testing (UAT) series was conducted. *(UAT - also called User Acceptance Testing when an application is tested in the "real world" by the prospect audience.)*

The UAT series showed the application is intuitive for end users who are non-tech people. In fact, each sequential UAT of the same functionalities took less time than the previous.

REVIEW FROM TECH LEAD OF THE PROJECT

"The project is very interesting and challenging from both a technical perspective and domain area. Special efforts were put into an offline first approach and performance improvements for this case, but the UI and UX work was also extremely interesting and important."

Valentin,
Tech Lead Of The Project

WHY AKVEO?

We are team of full-stack software experts who are truly passionate about design, front-end and back-end development.
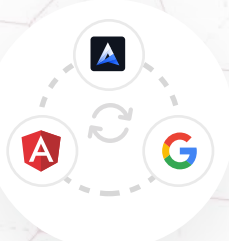
More than 40.000+ developers from all over the world like our Open Source products on GitHub.

The 2nd most popular GitHub Angular library is our ngx-admin. ngx-admin – Open Source dashboard template.

Our Open Source products are recognized by Angular team and we have close collaboration with Google.

FANCY A CHAT ABOUT YOUR PROJECT? CONTACT US!

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