



WebbyLab

Transparent engineering
for you



WebbyLab is Ukraine based software development company

Our values:

Engineering culture is our core value — currently, engineers make up around 80% of our workforce.

Our mission:

We create complex software solutions using the most efficient mix of innovative technologies.

11+ years of history

150+ employees

50+ conference talks

300+ projects completed

Quick Facts

We are a Ukrainian company with more than a 10-year history managed by founders with a strong technical background.

We have successfully completed 300+ projects. Among them are 15 projects for five Fortune 500 companies, including Mercedes and Uber.

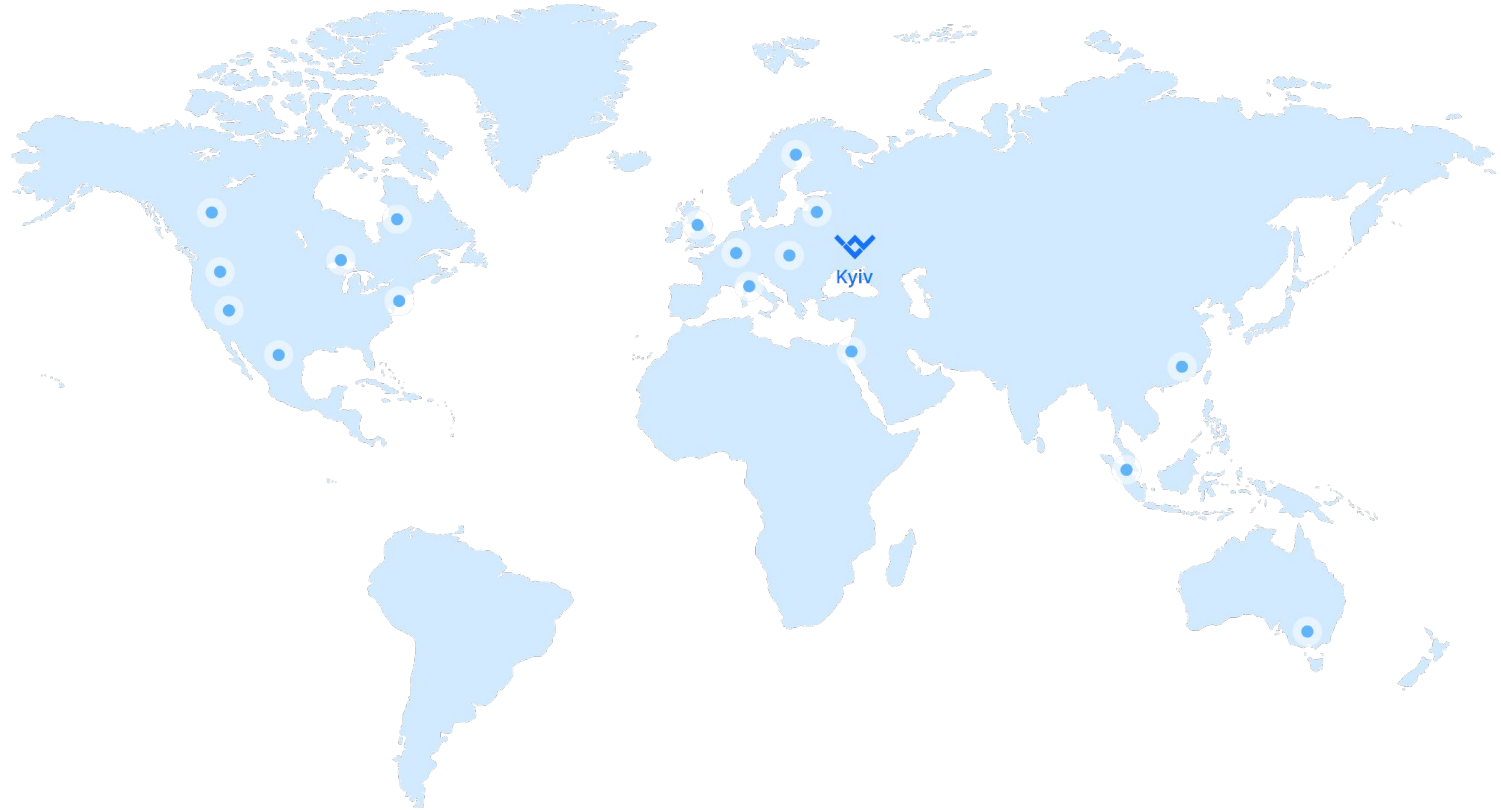
We apply best practices to accelerate the software development process and reduce time to market to the customer.

We create a culture of innovation through developing our internal products. To produce ready-to-use solutions, we analyze clients' frequent requests and their project bottlenecks.

Strategic business mindset: we build technical solutions keeping in mind the business's starting point, current business requirements, and challenges that may evolve during further growth.

Active IT community members: we participated in 50+ conference talks as speakers and constantly share our open-source tools that help to optimize the development process.

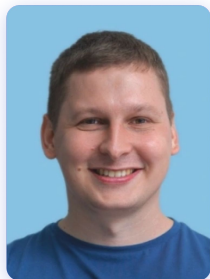
Geography of our clients



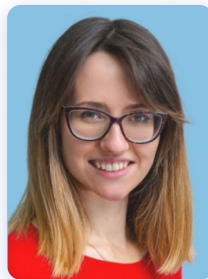
Our Leadership team



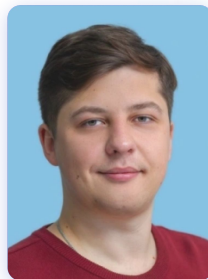
Anton Morozov
Chief Executive Officer
and Co-founder



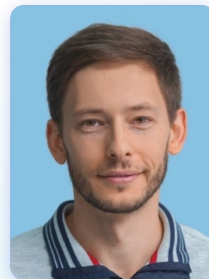
Viktor Turskyi
Non-Executive Director
and Co-founder



Mariia Kravchenko
Chief Human
Resources Officer



Maxim Lesnikov
Chief Technology Officer

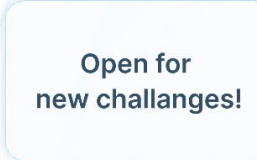


Alexey Krol
Chief Business
Development Officer



Yuliia Putilina
Chief Financial Officer

Our clients



Clients feedback



Enver Ablyaev

Delivery Director, WorldTicket

After rapidly fixing remaining bugs at no cost, WebbyLab delivered a high-quality product on time. Their responsiveness, constant availability, customer-focused approach, and unique payment system made for an overall superlative vendor experience.



Vishal Patel

Architect, iBASEt

With a high level of technical expertise and a commitment to researching methods, WebbyLab was a fantastic partner. The team emphasized communication, responsiveness, and professionalism throughout the engagement.



Michael Mangion

CEO, CrowdScores

The product was completed well with the majority of the deadlines throughout met. They were a dedicated team who demonstrated their ambition and excellent skillset, building an application that meets the need and is well maintained by the team.

Clients feedback



Andrew Volovyk

Digital Health Outcomes

WebbyLab is able to produce more complex solutions, extending to beyond the standardized ones found on the market. They focus on innovation and therefore deliver innovative products.



Alexander Chalakov

CTO, Code Foundries

The works was done according to my specific requirements with great quality. They were very proactive in informing me about the progress, next steps, implementation challenges and solutions. I am looking forward to working with them in the future.



Andrew Muir Wood

Paceup

They can take a fairly vague brief and turn it into a concrete plan WebbyLab development team expedited the launch of the platform, which was ready for customers in a matter of months.

Our services



Frontend development

React based SPA
Isomorphic
JAMstack



Backend development

NodeJS
PHP
Perl



IoT Hardware Development

Schematic diagram PCB design
Device prototype development
Firmware development



Mobile development

React Native
iOS
Android



Big data & high loads

Amazon Web Services
Google Cloud Platform
Microsoft Azure

Vertical domains

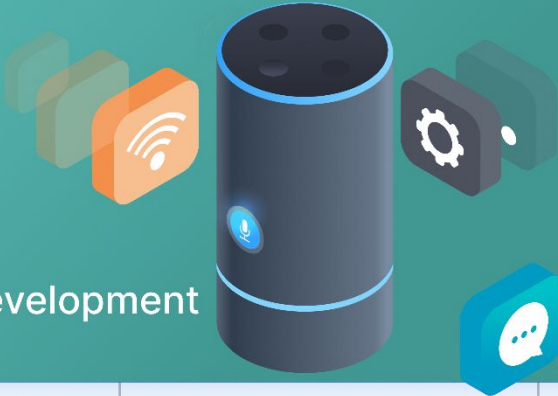


Blockchain
& Cryptocurrency
development

eCommerce platform
development



IoT
software development



Blockchain



Blockchain & Cryptocurrency



Blockchain infrastructure development:

- Deploy and Cryptocurrency node;
- Real-time Monitoring and Analytics;
- Networks and Node Gateways

Crypto Wallets development:

- Custodial and Non-custodial wallets;
- Working with BiP39 and BiP44;
- Integration with existing infrastructure;
- Portfolio accounting: Price Monitoring and Watching tools;
- Integration with WalletConnect and other DeFi.

Blockchain & Cryptocurrency



Cryptocurrency exchange software development:

- Trading bots with custom strategies;
- Marketing analytics tools;
- Integration with DeFi segments application;
- Integration with Centralized exchange applications;
- Custom modules development

Blockchain and Asset monitoring systems:

- Custodial and Non-custodial wallets;
- Smart contract explorers;
- Technical Analysis by non-financial metrics;
- Custom blockchain deep analytics

Multi-currency wallet

Multi-currency non-custodial multi-account wallet with the ability to cross-chain exchange, transfer, and receive funds, as well as view cryptocurrency market statistics in one mobile application for iOS and Android.

Solution:

- Deploy infrastructure with all crypto nodes.
- Design and develop index engines.
- Develop a native mobile application for IOS and Android by ReactNative.
- Integrate with a centralized exchange for cross-chain exchanges.
- Integrate Wallet Connect for Dapps.



E-Commerce



B2B/B2C/Marketplace Platform Development

- UX/UI Design;
- Platform Architecture design (HLD, LLD);
- High-load architecture design (from 50k SKU);
- Existing eCommerce Platform
- performance optimization
- (improving user journey, customization, A-B testing).
- Custom services development(target group analysis, personalized marketing activities);
- Integration with API, CRM, PIM and ERP systems;
- Platform maintenance & support (preparing eCommerce for holiday traffic)
- Custom eCommerce mobile app development.

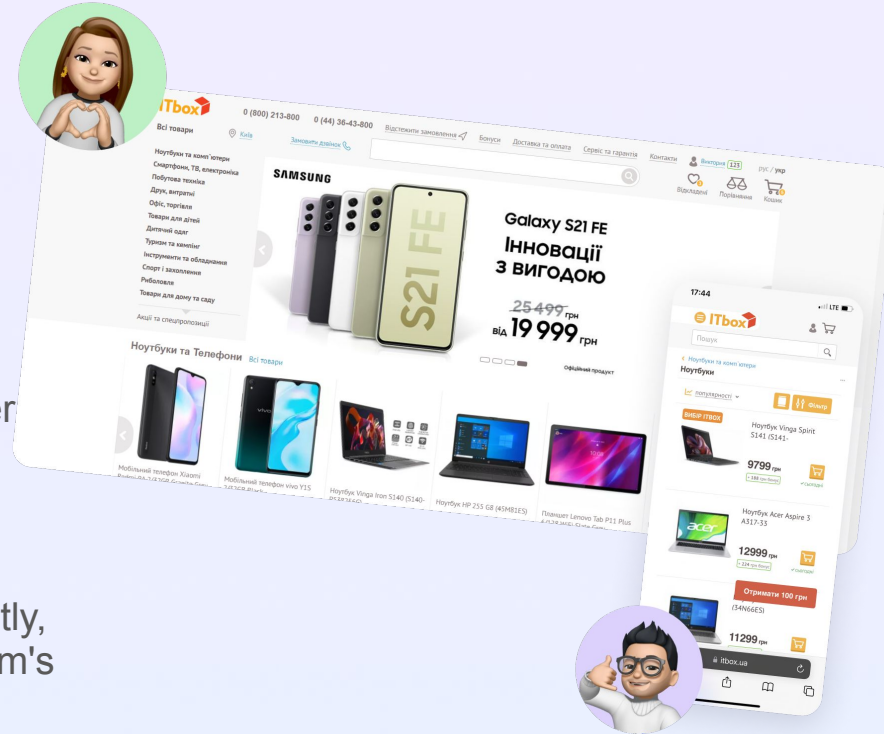


ITbox online store & marketplace

Online store ITbox.ua is one of the divisions of Brain Computers. Throughout its 25-year history, ITbox has established strong relationships with the official representatives of the leading manufacturers of computer and household appliances; children's goods; sports and tourism equipment; and other products.

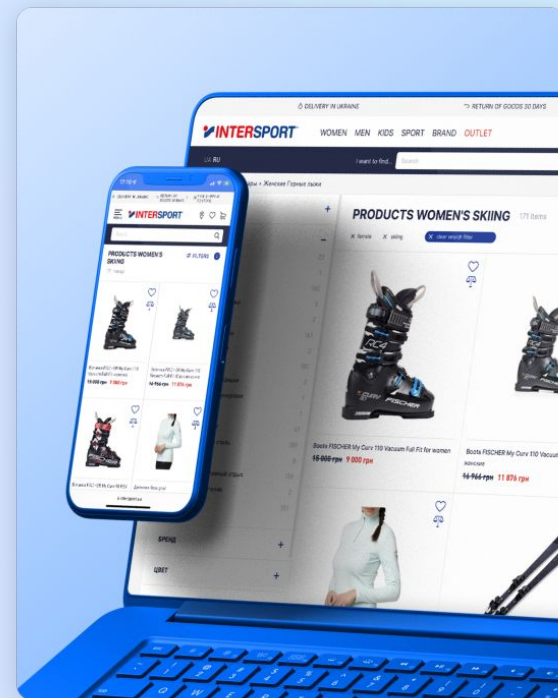
We developed an API service to determine product availability at POS and courier delivery time. Consequently, site users can obtain instant information regarding an item's availability at each point of purchase.

Elasticsearch, Google Analytics has also been integrated and customized.



Intersport

The primary challenge was to develop a custom online shop for Ukrainian offline retailer Intersport that includes the ability to book items and make purchases online, as well as integrations with existing internal systems, an online payment system, and APIs from courier companies.



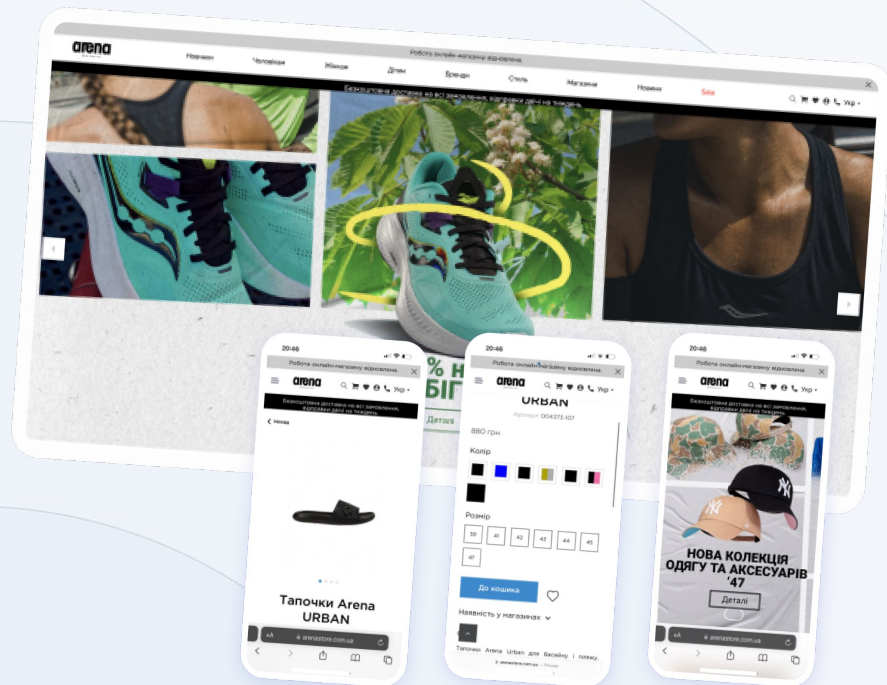
arena

SKIM OUR LIVE

All Cases

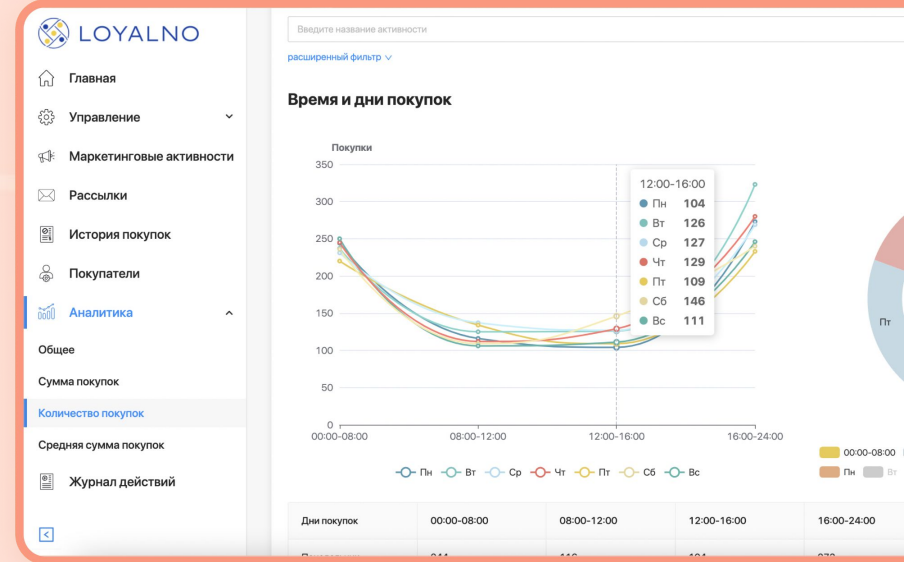
ArenaStore online shop

When developing the online store, it was decided to pay extra attention to the administrative interface and order processing to streamline business operations. The task also included implementing initiatives to improve the site's usability and make it more user-friendly



Loyalty management system

We decided to develop a Loyalty system that can be integrated with the existing client's systems and enable businesses to attract new customers by offering them incentives using targeted marketing activities as well as retaining existing ones, that will increase customer lifetime value and increase the amount of revenue per customer.

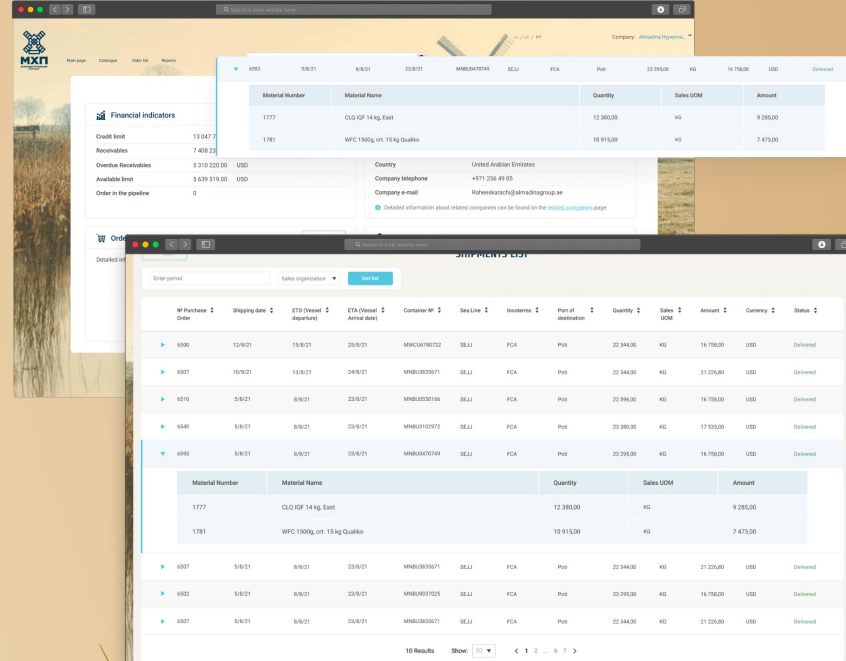




Online portals for Ukraine's largest agro & industrial holding MHP

B2B portal for domestic trades and a mobile application for 1.5k end users was the optimal decision for automating MHP's domestic trade operations. For implementing this solution we had a limited timeline — 2 months.

B2B portal for export trades was the optimal solution for solving the issues of MHP's export operations. For implementing this solution we had a limited timeline — 3 months.



brain

B2B portal for Brain

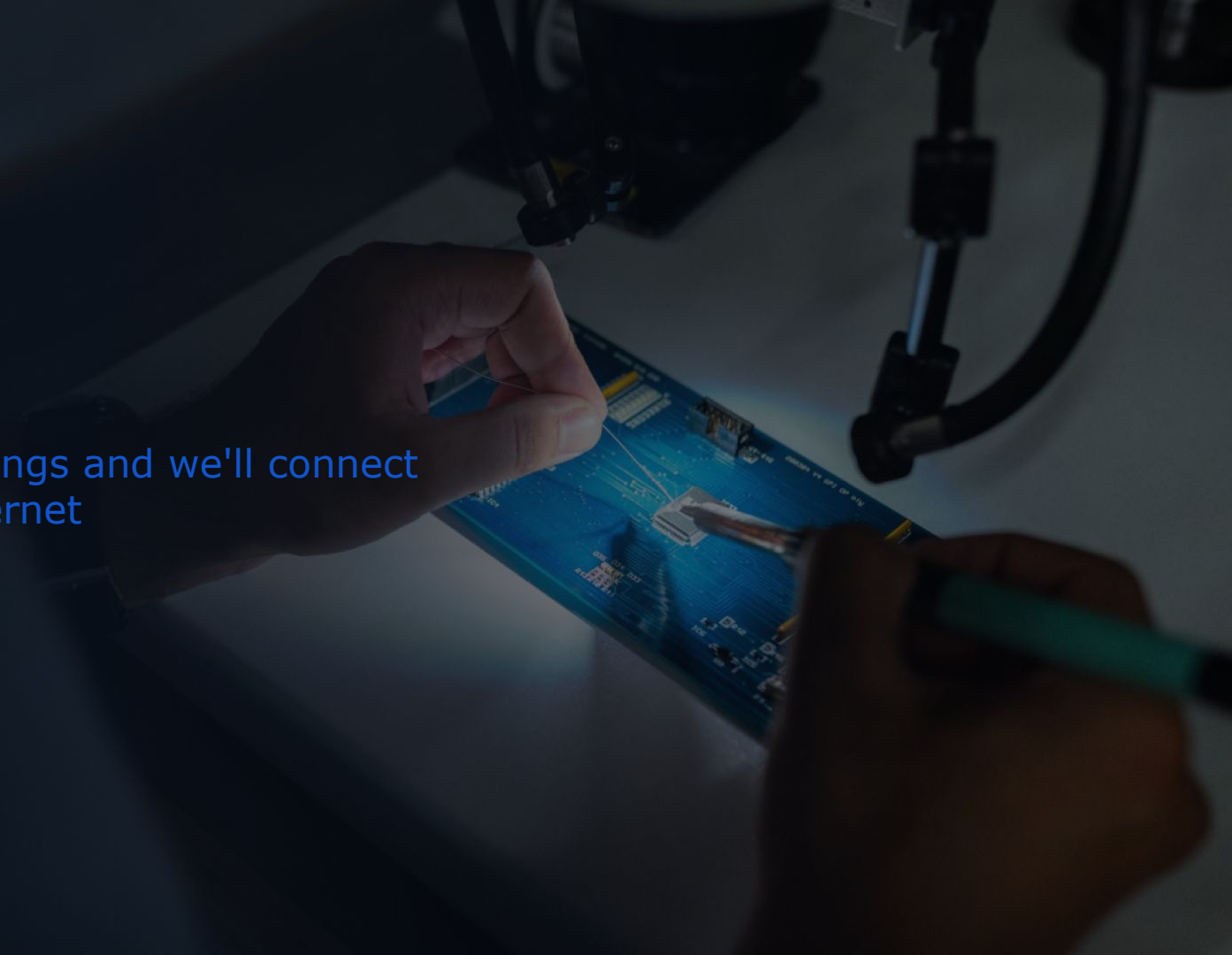
During the development of this project, we have created the engine for quick online sales point generation based on a global catalog. The application has its own management system for internal advertising, product information management (PIM), analytics, and product availability calculation at the delivery point.

We chose microservices architecture for this project.



IoT

You build the things and we'll connect them to the Internet



IoT Software Development Services

Web and Mobile

- UX/UI design for web and mobile applications;
- Web-based & mobile IoT application development;
- Comfortable IoT infrastructure control implementation;
- Custom widgets development for IoT mobile application.

Backend and Infrastructure

- IoT infrastructure architecture design;
- Integration with your existing systems and services like SSO, etc.;
- Providing comfortable tools for IoT device audit and monitoring
- Scalable IoT architecture design
- Custom IoT cloud solutions creation.

IoT Hardware Development Services

Making devices smart

- Selecting the right microcontroller;
- Firmware development or modification;
- Consulting on configuring and upgrading IoT devices;
- Sensors and control assets selection and integration.

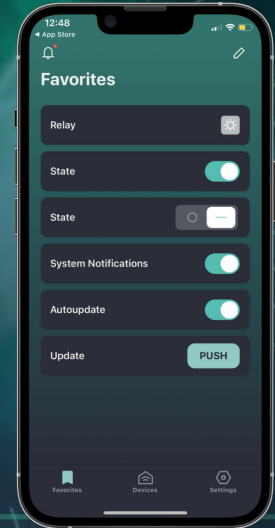
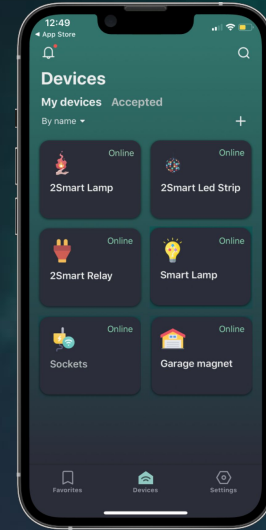
Device prototype development

- Statement of work (SOW) development;
- Functional prototype creation;
- Schematic diagram and Gerber PCB design
- Device body construction and design
- First trial batch printing.

2SMART

2Smart Cloud

The aim was to build a platform for vendors to introduce smart devices to the market and to upgrade existing ones — 2Smart Cloud. These can be simple consumer devices, such as household appliances, or complex equipment that transforms into a full-fledged IoT device with the platform, which is an opportunity for the manufacturer to gain a competitive advantage.

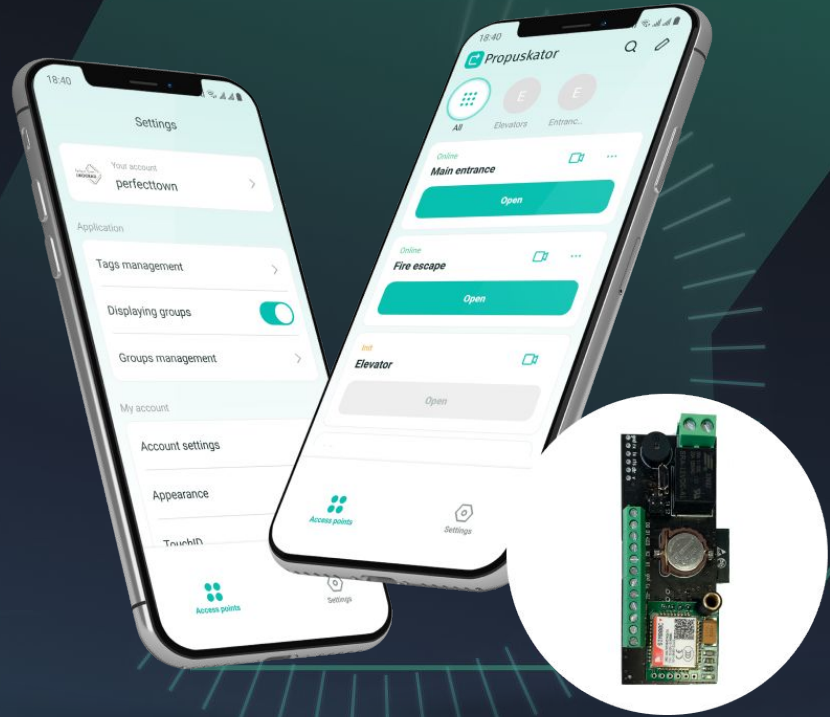


Propuskator

ACS & remote controller

The aim was to develop a cloud-based access control system that could be installed on a local server and to provide end-users with a mobile application.

Additionally, we've developed a line of controllers for regulating electric locks, gate drives, and barriers that operate on the IoT principle.



2SMART

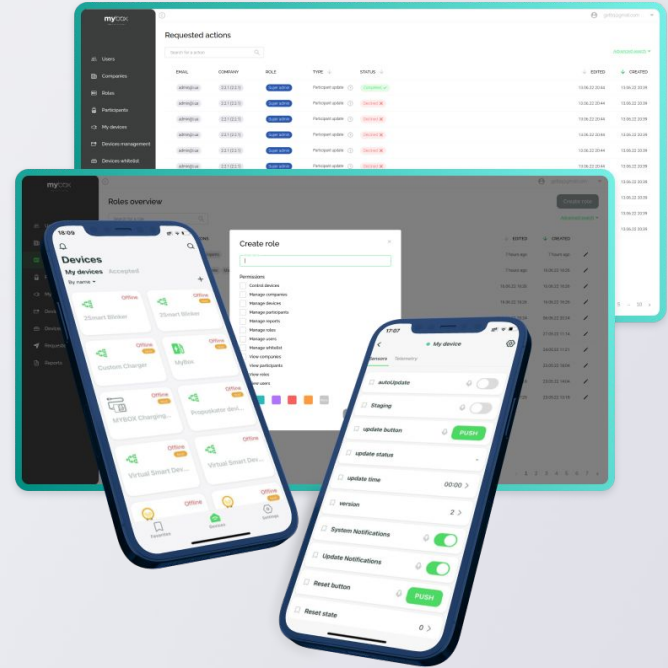
Standalone framework for IoT development of any complexity

We analyzed the operation of alternative systems and determined that they mostly necessitate creating complex configuration files in order for a device to function. For our product, we chose to provide a simple interface for connecting and managing smart devices.



Universal cloud-based ecosystem for managing and maintaining both private and public EV Charging stations with mobile applications

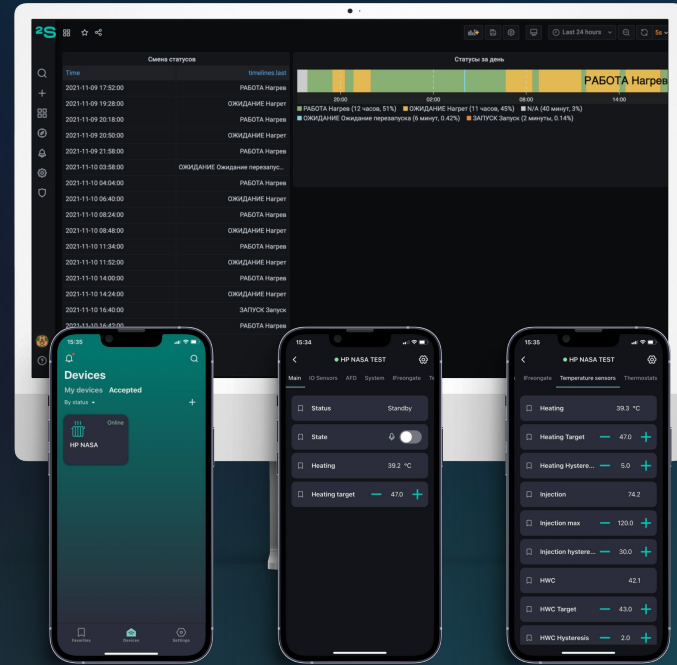
Developed an enterprise-grade cloud management system for EV Chargers that remotely manages and supports a network of thousands of private and public EV Chargers from different vendors. In addition, we developed a custom, super-flexible firmware for the ESP-C3 MCU controlling the chargers that ensures easy future support and scaling.



Industrial heat pump enhancement

We developed the firmware for the microcontroller of industrial heat pumps to connect them to the cloud platform, enabling remote control, monitoring, and configuring features for the manufacturer and end-users.

Since the ESP32 MCU controls the customer's equipment, we proposed to modify the existing firmware to be compatible with the 2Smart Cloud platform. Such an approach allowed us to solve the presented problems in the short term without breaking the bank.



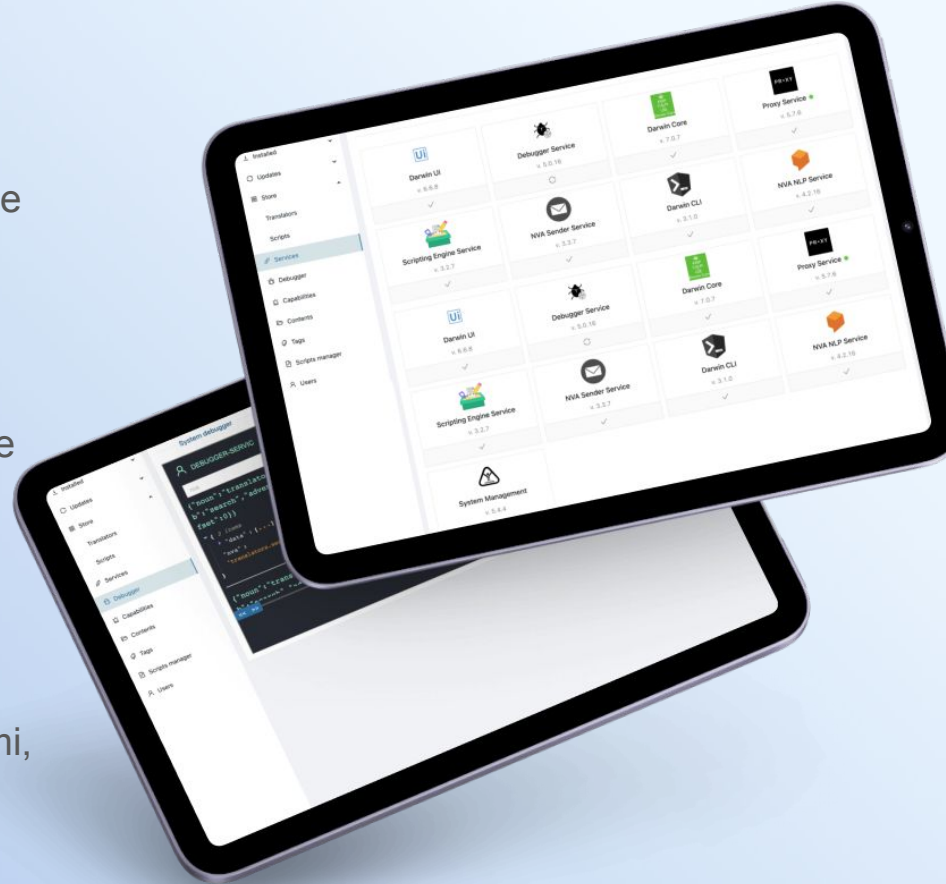
Smart home automation platform

[All Cases](#)

Universal platform which allows connecting all IoT vendors into one ecosystem. We decided to use a microservice architecture, which is a key aspect of the success. All communications are in real time, both a service-to-service (MQTT) and a service-to-UI (websockets).

The system consists of a core (which manages all the devices), system manager, installable bridges to support different vendors (can be developed by 3rd parties), application store, cloud UI, mobile UI, etc.

We have made more than 10 pluggable integrations with 3rd party platforms: Google Voice, Fibaro, Xiaomi, Sonos, Amazon Alexa, Facebook, Telegram, etc.



Other cases

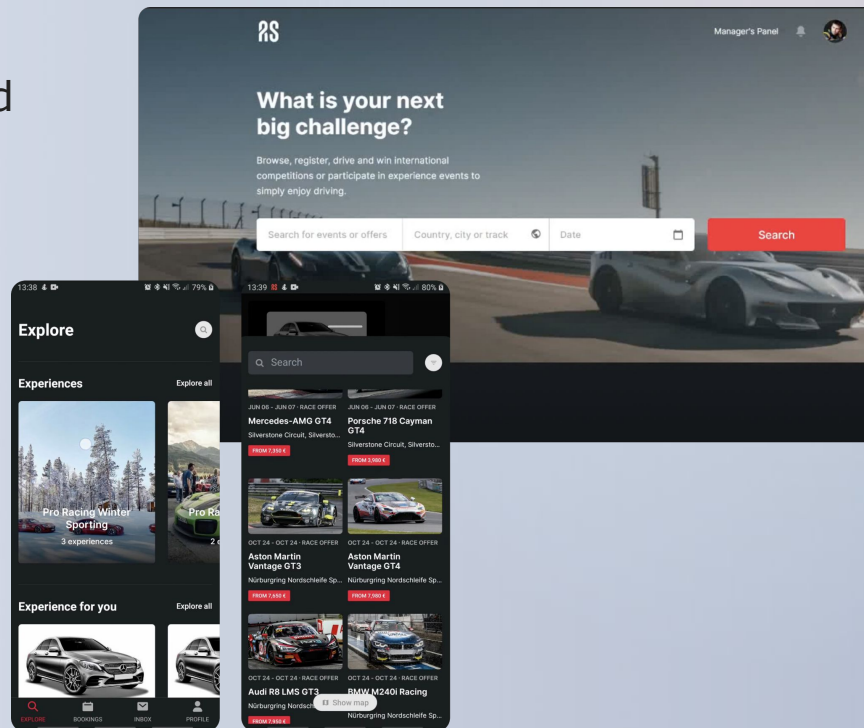
```
16 // Vue store state
17 // Vue store state
18 Vue.store = store;
19
20 // Localization
21 Vue.use(vuexI18n.plugin, store, {
22   onTranslationNotFound (locale, key) {
23     return `Key '${key}' not found for locale "${locale}"`;
24   }
25 });
26
27 // add translations directly to the application
28 Vue.i18n.add('en', onLangFile);
29
30 // set the start locale to use
31 Vue.i18n.set('en');
32
33 // Set vue routes
34 Vue.use(VueRouter);
35
36 // Set route config
37 const router = new VueRouter({
38   mode: "history",
39   routes
40 });
41
42 router = router;
```




Online platform for Team Managers, Drivers and Petrolheads Race Scout AMG Mercedes

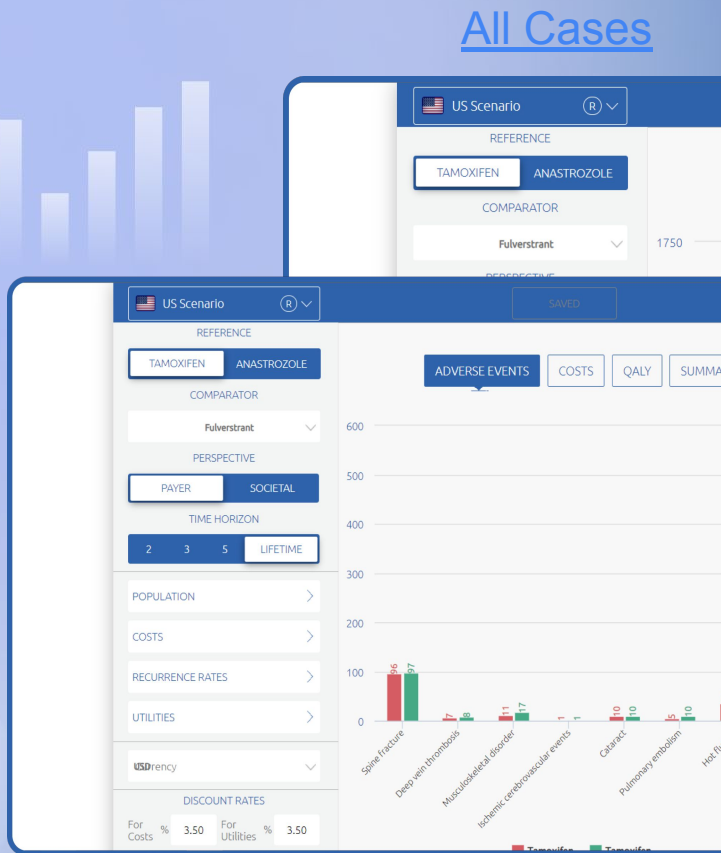
A critical component of a successful solution was assembling a full-stack JavaScript team. It enabled us to move at a breakneck pace and make better use of available resources.

Instead of four teams (backend, frontend, iOS, and Android), we only need one, as all four apps are written in JavaScript: the backend is written in Node JS, the frontend is written in React, and the iOS and Android apps are written in React native.



Forecasting model

We have converted a huge mathematical model, which consists of 200k formulas and states, into a user-friendly application (web and mobile). To provide fast and comfortable usage of mobile devices, we have developed a math cluster that can support dozens of users in parallel mode. Besides this, we carried out Veeva CRM integration.



Forecasting model

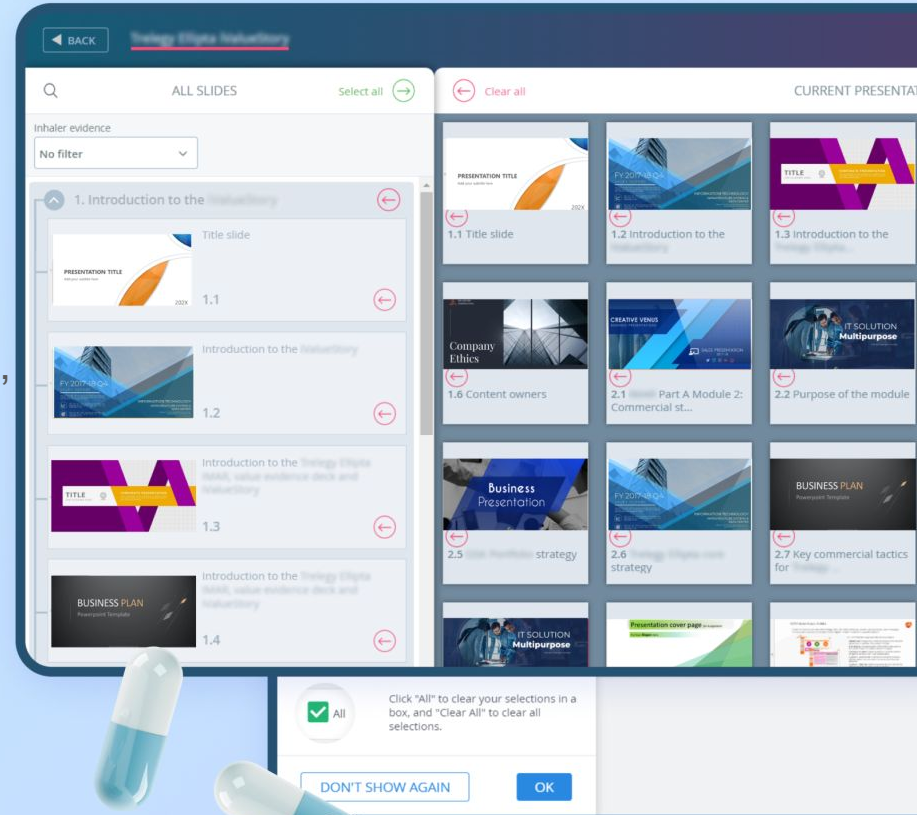
For leading global pharmaceutical company

We've converted a huge mathematical model, which consists of 200k formulas and states into user-friendly application (web and mobile). To provide fast and comfortable usage of mobile devices, we have developed a math cluster that can support dozens of users in parallel mode. Veeva CRM integration.



IVD

It was decided to create an abstract file system to provide local and cloud storage for user projects and ability to work offline with auto sync, custom presentation editor and viewer mode. Besides this, the task was to develop apps for 4 platforms — desktop, ios, web, and ipad. Overall, it was decided that IVD would be an ecosystem containing a number of distinct subprojects.



Cooperation Models

	Size of project	Requirements	Flexibility	Client's control	Methodology
Fixed Price	Small & Medium	Well-defined	Low	Low	Waterfall/Agile
Time & Material	Medium & Large	Defined & Evolving	Medium	Medium	Agile
Dedicated Team	Large	Evolving	High	High	Any

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