

# CPCS Develops an End-to-end Solution for Cryptocurrency Trading with Low Risks



## Objective

Develop a cryptocurrency exchange platform that helps end users to make an income – price differences between exchange rates of cryptocurrency pairs – within limited risk options and well-defined profitability predictions.

## Challenge

Our Client is a US FinTech startup. The Client approached CPCS with a request to develop a cryptocurrency exchange solution that would allow end users to choose among portfolios of cryptocurrency trading pairs available on the platform, see their risk-profitability indexes, and execute the assets trade from the same platform with low risk of losing the investments.

## Solution

The solution we have been discovering together with the Client aims to provide end users with free access to placing and executing their cryptocurrency exchange orders at one place, the platform's mission being to deliver actual information on the most opportune portfolios for profitable trading.

The end user journey presupposes: 1) user registration; 2) viewing available portfolios with cryptocurrency pairs that are favorable for trading at the moment; 3) subscribing for the platform's services, the fee options range from the amount of investments, freemiums are available; 4) using the platform as an end-to-end solution for the cryptocurrency trading purposes.

Our engineers solved the end-to-end trading request with a number of APIs that connect the platform with hundreds of cryptocurrency exchanges. The risk- and profit-evaluation request was implemented via mathematical algorithms that are being fed with live data. Finally, we coded the information on varied portfolios to be visible via graphs. This allows our end users without extensive knowledge in cryptocurrency exchange to start trading easily and with profits.

Among our coming-soon implementations, the individual risk settings feature is worth mentioning. According to its logic, the platform's users will be able to tighten risk limits for their chosen portfolios per

individual needs. Speaking technology, a trading account won't get trading signals if our algorithms define that the risk of investments exceed these individual settings.

## Technology choice

- Frontend development – Vue.js
- Backend development – .NET (for the trading panel)
- Backend development – Kotlin (for the investment logic)
- All the technical solutions have been implementing using Reactive Architecture.
- Additional instruments – AWS, Kubernetes, Akka, GraphQL

## Team and Duration

- 3 backend engineers
- 1 mobile developer
- 1 PM
- 1 QA
- 1,5 year for the MVP

## Results

CPCS experts developed a cutting-edge FinTech solution that shares live information on the cryptocurrency pairs' rates as well as relevant investment risks and profitability analysis powered by AI algorithms and packed in portfolios with the platform's end users. The solution also allows its end users to choose among thousands of available portfolios, connect the portfolios chosen with their preferred cryptocurrency exchanges via API keys, and manage relevant cryptocurrency trading from one place within some predefined risks.

## Industry

Cryptocurrency exchange, cryptocurrency trading, FinTech

## Application

Manage cryptocurrency trading at one place and with transparent risk-profitability ratios.

## Quick Fact

The cryptocurrency market being highly volatile, the platform helps end users to execute risk-limited orders, based on its AI-powered algorithms.

## About CPCS

From artificial neural networks to custom electronics design, highload and big data projects. CPCS is a team of 100+ senior-level dedicated engineers open to go through an in-depth feature-by-feature product discovery process with you. We believe you would also benefit from our client-first approach, transparency of all our magic, as well as fair and flexible rates.



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