

CASE STUDY • VPN • WEB APP • REFACTORING

MYXA VPN

CRM refactoring and Web App development for a VPN service based on VLESS + Reality protocols. Personal dashboard, subscription management, server selection, and connection monitoring.

myxavpn.com

NestJS

React

TypeScript

PostgreSQL

Redis

Docker

VLESS + Reality

Web App

Personal dashboard
from scratch

CRM Refactor

Admin panel
refactoring

4.9

User
rating

15+

Server
locations

What it was like **before us**

MYXA VPN is an active VPN service with thousands of users. The client approached us with two tasks: refactoring the existing CRM (admin panel) and building a customer-facing Web App from scratch.

Legacy CRM

The admin panel had accumulated significant technical debt: confusing navigation, code duplication, and no tests. Adding new features took a disproportionately long time.

No Web App

Users could only manage their subscription through a Telegram bot. There was no personal dashboard: server selection, payment history, settings — everything went through the bot.

Overview

Client	MYXA VPN (myxavpn.com)
Product	B2C VPN service
Audience	Russia, countries with internet censorship
Protocols	VLESS + Reality (anti-DPI)
Rating	4.9 out of 5 based on reviews

Our work

- 1. CRM Refactoring** — redesigning the admin panel: architecture, UI, performance, extensibility.
- 2. Web App from scratch** — user personal dashboard: subscriptions, servers, payments, connection settings.

CRM Refactoring

Complete redesign of the admin panel for managing the VPN infrastructure:

What was done

- 1 Architectural refactoring**
Split the monolithic codebase into modules: users, subscriptions, servers, payments, analytics. Clean architecture with a service layer.
- 2 Server management**
Real-time monitoring of node load and availability. Health checks every 30 seconds. Automatic removal from rotation on failure.
- 3 Subscription management**
Full lifecycle: creation, renewal, suspension, cancellation, refund. Change history, audit log of administrator actions.
- 4 Financial analytics**
Dashboard for revenue, active subscriptions, churn rate, LTV. Filters by period, plan, and acquisition channel.
- 5 Performance**
SQL query optimization, server-side caching (Redis), lazy loading in the UI. Dashboard load time reduced by 3x.

Result: The CRM became extensible — adding new features (servers, plans, promo codes) now takes hours instead of days. Code is covered by tests, deployment via CI/CD.

Web App – Personal Dashboard

Development of a customer-facing web application from scratch – a full-featured personal dashboard for VPN users:

Subscription management

Current plan, expiration date, renewal, plan change, payment history.
Automatic expiration notifications.

Server selection

Server list by country with ping and load. Optimal server recommendation.
One click to connect.

Configurations

VLESS+Reality config generation for all platforms: iOS, Android, Windows, macOS, Linux. QR code for mobile devices.

Statistics

Traffic volume, connection time, session history. Usage graphs for any period.

Payments

Payment system integration. Promo codes, referral program, auto-renewal.

Multi-platform

Chrome, Android, iOS, Windows, macOS, Linux – download links + setup instructions.

Pricing plans (from landing page)

EXTENSION

from 101 ₺

Browser extension

Popular

PRO

from 117 ₺

App for all devices

MAX

from 151 ₺

Extension + app

Landing page myxavpn.com

A VPN you never need to turn off. 126 Mbps, 15+ locations, access to YouTube, Instagram, ChatGPT, Discord, TikTok. 7-day money-back guarantee.

МУХА VPN

Telegram-бот Тарифы Блог Поддержка

Личный кабинет **Подключиться →**

• Безопасность • Скорость • Свобода

Попробуй VPN, который не нужно выключать

Подключайся за минуту. Работает в России и за границей на всех устройствах. Попробуй без риска — 7 дней гарантии возврата.

Подключиться → ★★★★★ 4.9 из 5 по отзывам пользователей

- Приватность**
Без логов и лишних разрешений
- Высокая скорость**
Быстрые локации, балансировка
- Большая сеть**
Сервера по всему миру

Chrome Android iOS Windows macOS Linux

14:10 5G 82%

МУХА VPN **Подключено**

СЕРВЕР
Германия • Франкфурт
Пинг: 21 мс

СКОРОСТЬ СТАБИЛЬНО
126 Мбит/с

YouTube Instagram ChatGPT
Gemini Discord TikTok

Тарифы, для любых задач

Выбирай план под себя — одинаково быстрый и стабильный на всех устройствах.

Product highlights

VLESS + Reality

Traffic is indistinguishable from regular HTTPS. Passes DPI inspection without detection — cannot be blocked.

15+ locations

Servers across Europe, Asia, and the Americas: France, Germany, Netherlands, UK, Turkey, and more.

126 Mbps

Real-world speed through a server in Germany (Frankfurt, 21ms ping). Stable connection.

All platforms

Chrome, Android, iOS, Windows, macOS, Linux. Connect in under a minute on any device.

Technology stack

COMPONENT	TECHNOLOGIES
Web App (Frontend)	React, TypeScript — personal dashboard, server selection, configs, payments
CRM (Admin)	React, TypeScript — user management, servers, subscriptions, analytics
Backend API	NestJS, TypeScript — business logic, authorization, payments, VLESS config generation
VPN nodes	Xray-core (VLESS + Reality) in Docker. Health checks every 30 sec.
DB / Cache	PostgreSQL (users, subscriptions, payments) + Redis (sessions, server status)
Infrastructure	Docker, CI/CD, multi-region (15+ locations), automatic IP rotation

What we delivered

CRM Refactoring

- Modular architecture instead of a monolith
- Real-time server monitoring
- Financial analytics (revenue, churn, LTV)
- Dashboard load time: 3x faster

Web App from scratch

- Personal dashboard: subscriptions, servers, payments
- Config generation + QR for all platforms
- Payment system integration
- Promo codes, referral program

SUMMARY

Results

Web AppPersonal dashboard
from scratch**CRM
3x**Faster load time
after refactoring**4.9**User
rating**15+**Server
locations