Porrapat's Portfolio

Rust Projects

- PHP Koans (CLI Learning Tool) – Rust File Watcher - Link
- PHP-Rust Benchmark Tools - Link

PHP Projects

- ID-Plein (Laravel CRM – legacy system)
- Qarin Admin (Billing Job Processor – PDF batch generator)
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- CaveTown (Shipping & Dropshipping Backend for WooCommerce)
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- Sacit (Handicraft Archive Database – GraphQL)
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- Small Revolution (WordPress Subscription Platform)

Certificates

- Let's Get Rusty Bootcamp (Issued 9 September 2025)
- Learn JavaScript Online (Issued 21 September 2024)
- Learn TypeScript Online (Issued 11 October 2024)
- React Tutorial (Issued 23 November 2024)
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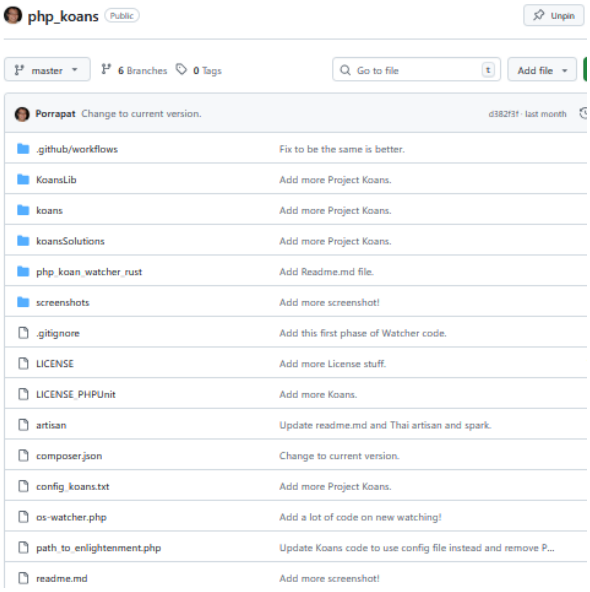
- Junior Angular Certification by Certificate.dev (Issued 23 February 2025) - Link
- Junior React Certification by Certificate.dev (Issued 4 September 2025) - Link

PHP Koans (CLI Learning Tool) – Rust File Watcher

Link: https://www.github.com/Porrapat/php_koans

Tech Stack: Rust (CLI), notify crate, PHP



Description:

PHP Koans is an interactive command-line learning tool inspired by Ruby Koans. The goal of this project is to help learners understand PHP fundamentals through short, focused test cases that reveal concepts step-by-step. Each “koan” is a small lesson where the user must read failing test output, correct the code, and watch the test pass.

This project became my personal **signature project** during early 2025, and I spent almost a month building it from scratch. The system includes a full suite of Koans written in PHP, an auto-running test framework, and a custom Rust-based file watcher that monitors changes and automatically re-runs tests whenever a file is saved.

The Rust watcher significantly improves the learning experience by making feedback immediate, without needing to re-run commands manually. It also provides colored output, pass/fail summaries, and progress indicators that show how many Koans remain.

Key features include:

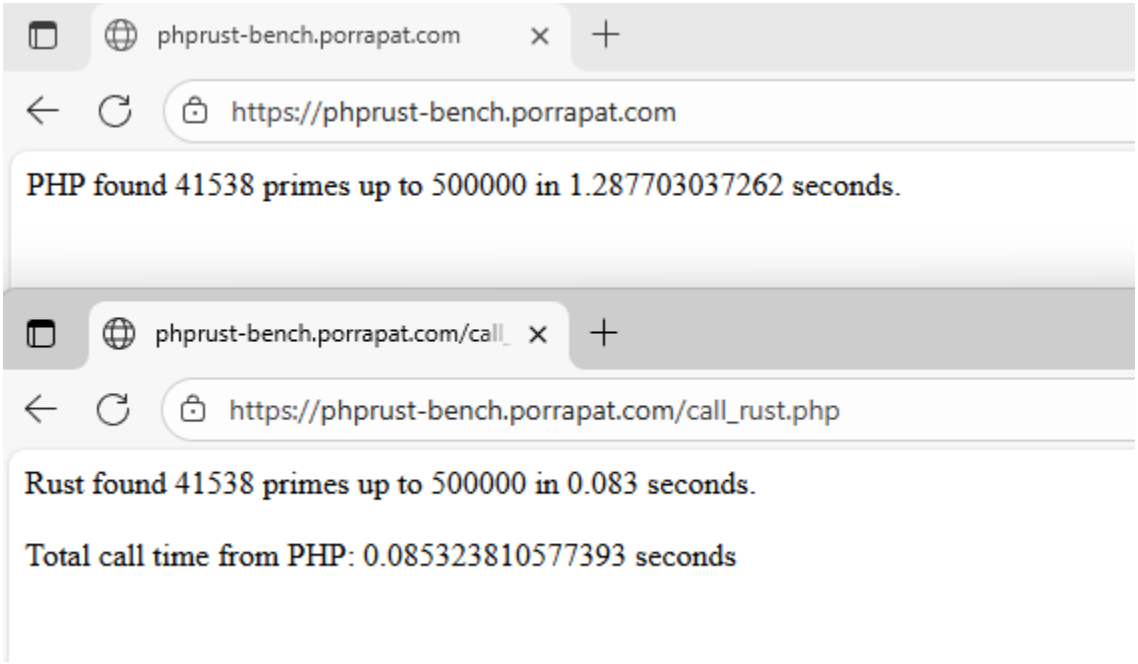
- A custom-built CLI application written in Rust
- Cross-platform file watcher using the **notify** crate
- 157+ PHP Koans covering syntax, control flow, arrays, OOP, regex, callbacks, and more
- Real-time auto-running tests for faster feedback loops
- Progress tracking (passed / remaining koans)
- Clear instructional messages to guide learners toward the correct behavior

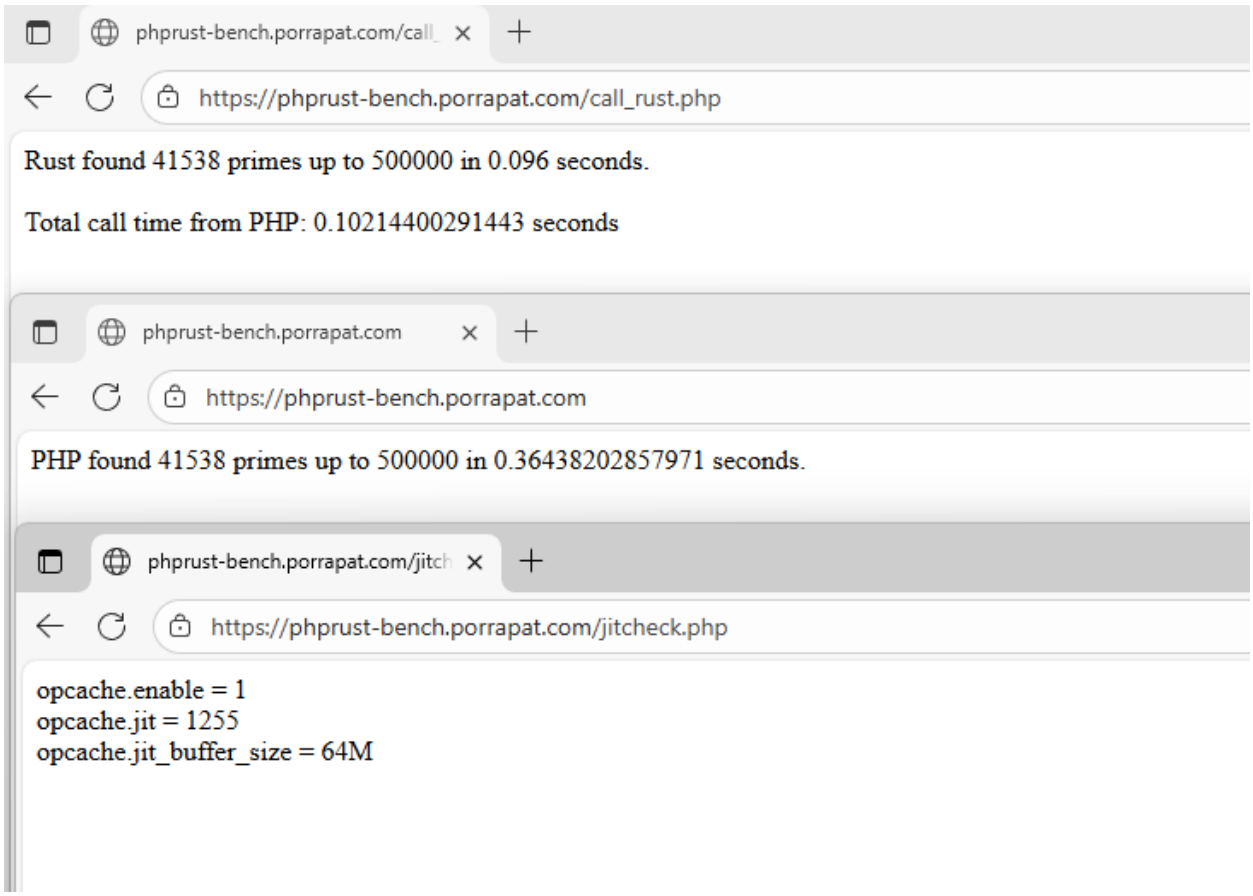
This project demonstrates skills in:

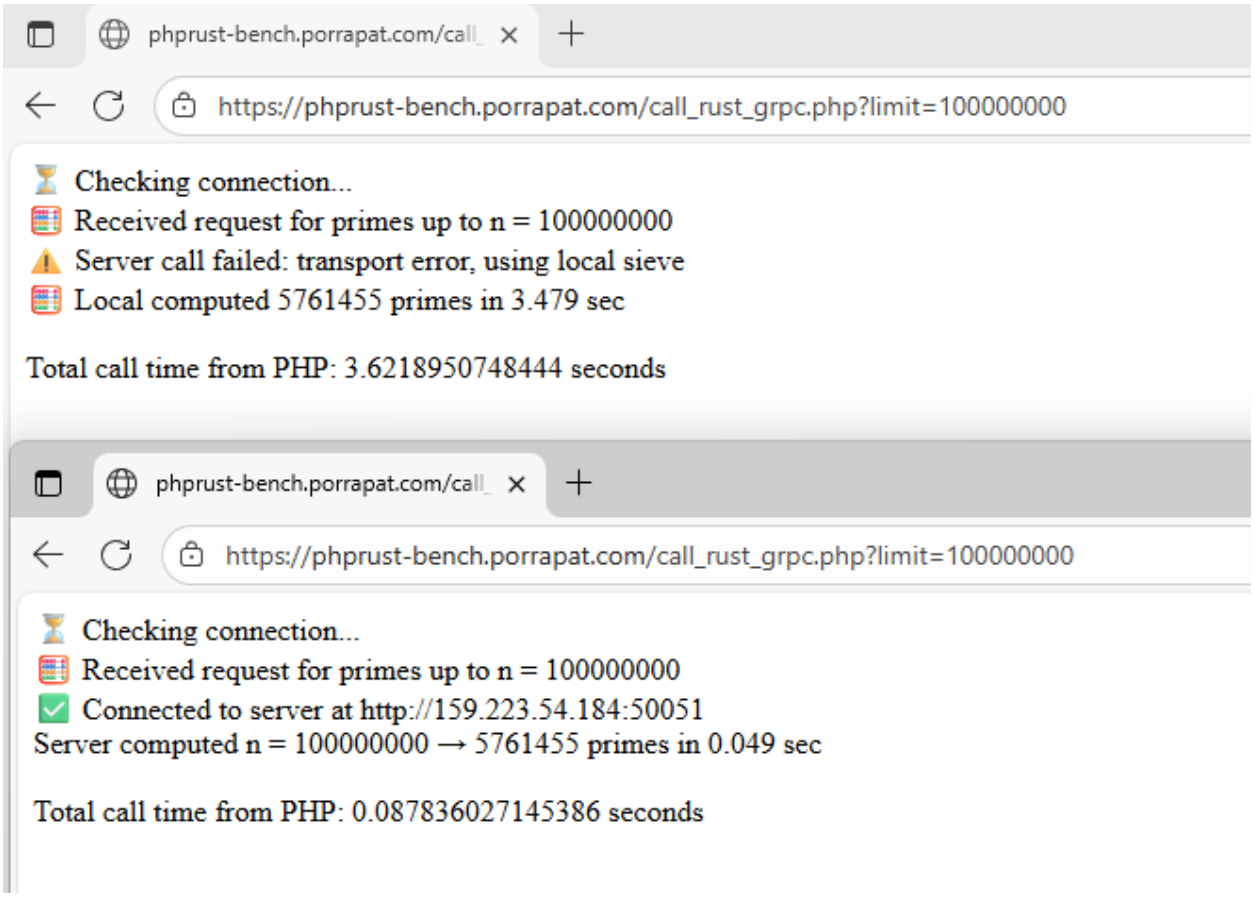
- Rust CLI development
- File system watching and event handling
- Test-driven learning design
- Error messaging and developer experience optimization
- Multi-language integration (Rust + PHP)

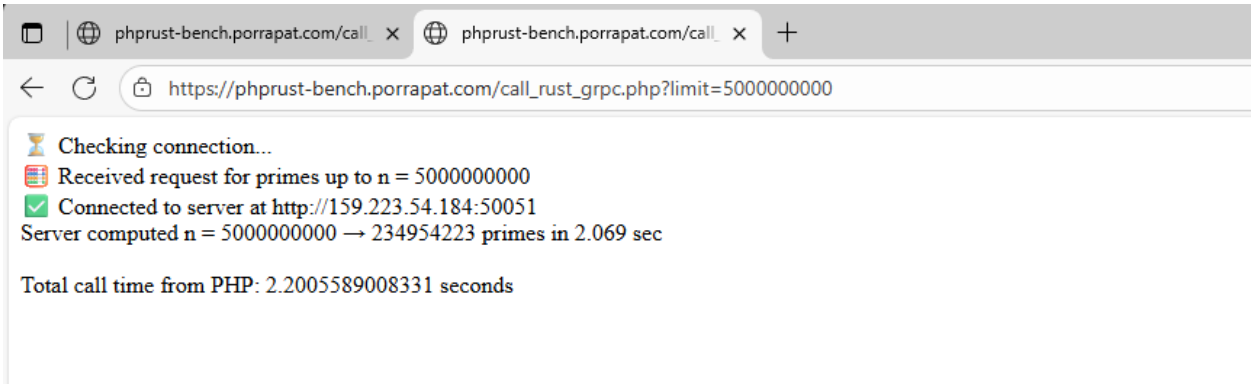
So far, this project represents one of my deepest learning-focused builds — involving architecture design, scripting, test automation, and cross-language tooling.

PHP-Rust Benchmark Tools









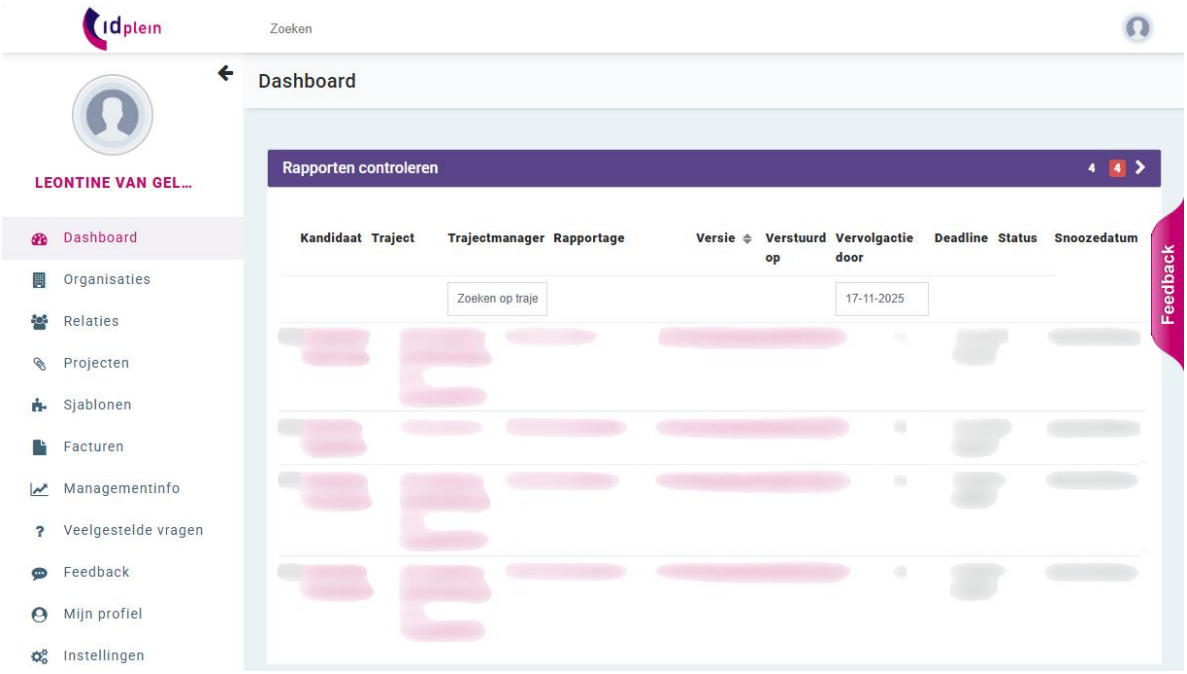
Link: https://www.github.com/Porrapat/phprust-bench

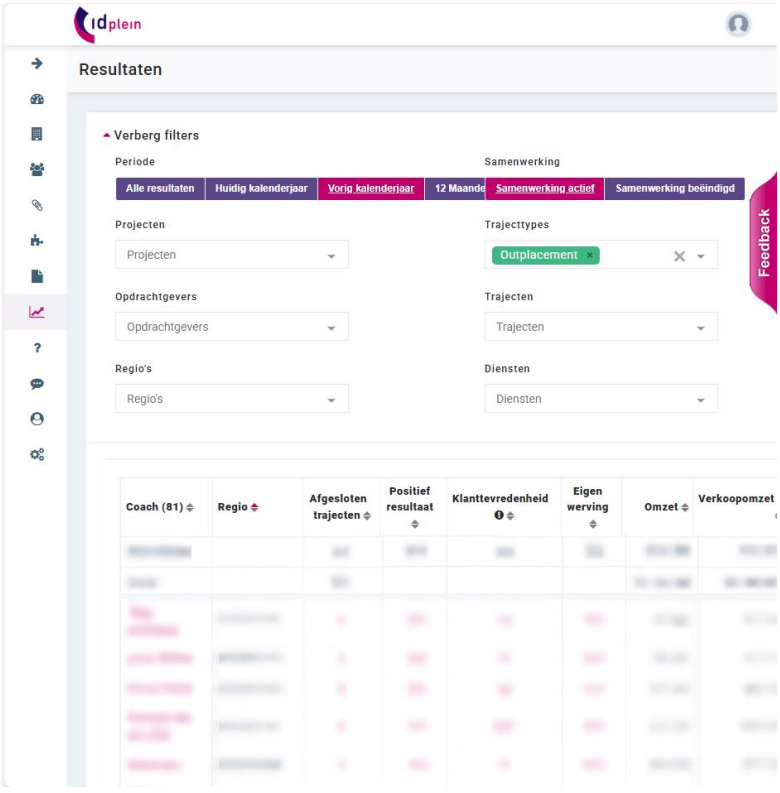
Tech Stack: Rust, Rayon

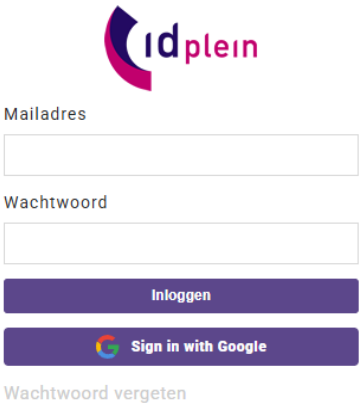
Description:

A performance benchmarking tool comparing PHP and Rust execution times using a multi-threaded prime sieve algorithm. Designed to measure real-world speed differences and demonstrate Rust's concurrency and parallelism capabilities.

ID-Plein (Laravel CRM – legacy system)







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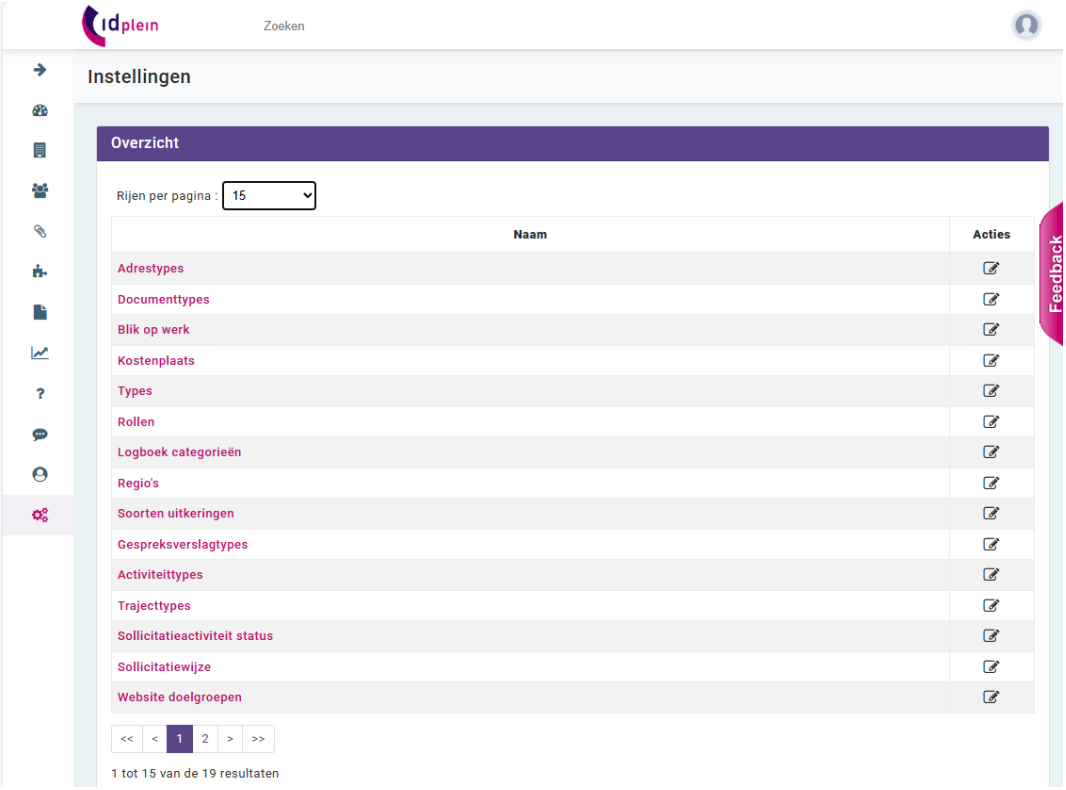


Link: https://idplein.porrapat.com

Period: January 2024 – May 2025

Team: Webgato Software

Tech Stack: Laravel (large-scale system), MySQL

Description:

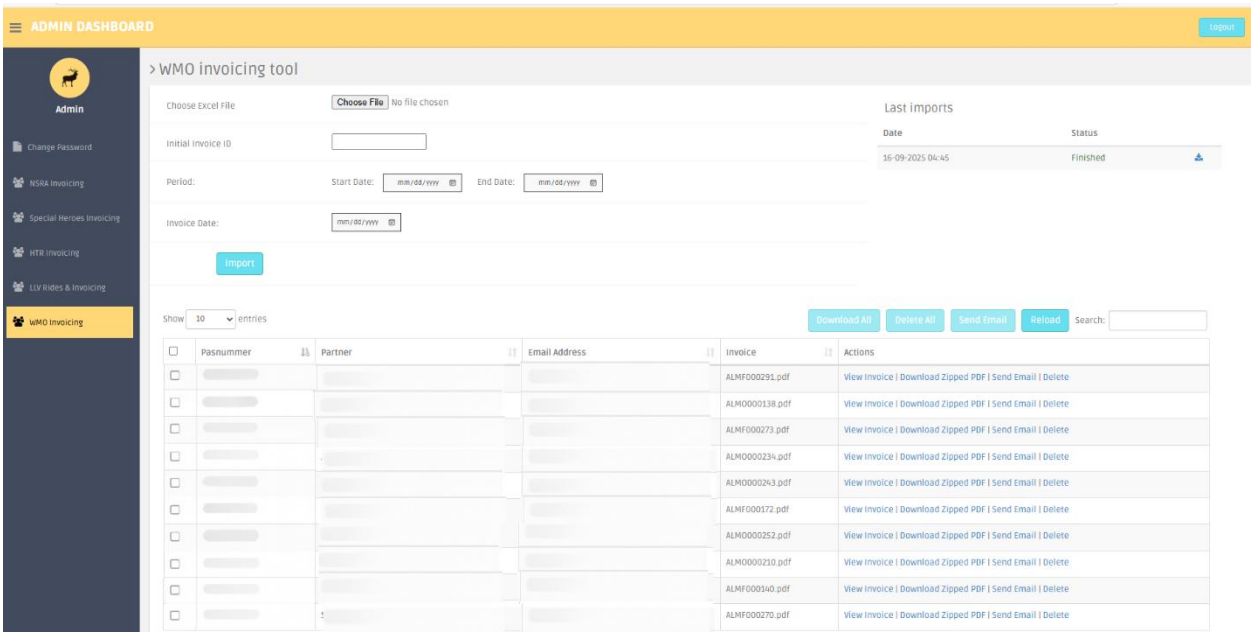
This project is a large-scale Customer Relationship Management (CRM) system that has been developed and maintained for more than 10 years, with contributions from over 20 developers. Webgato Software later took over the maintenance of the platform, and I was the sole developer responsible for maintaining and improving the system.

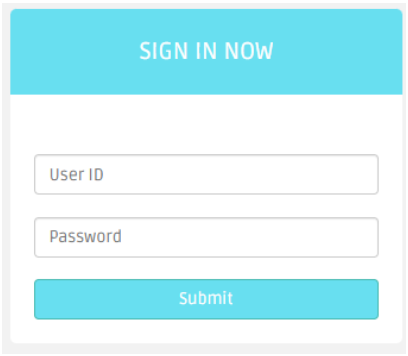
My responsibilities included fixing production bugs, improving the stability of critical modules, and developing new features requested by the client. Key contributions include:

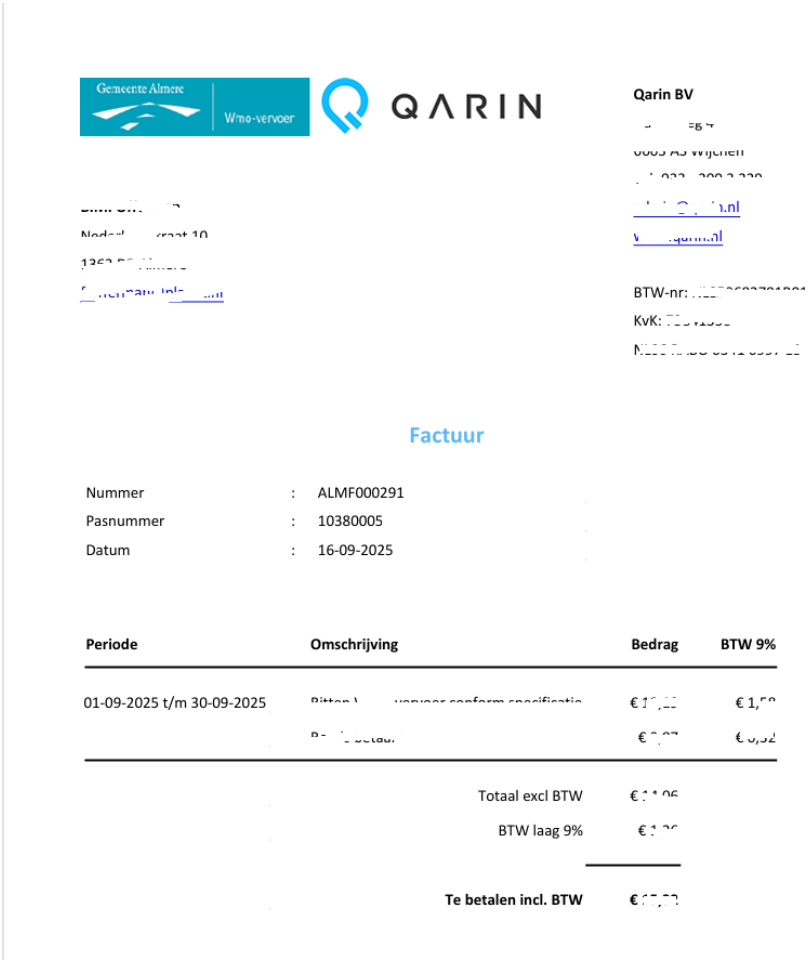
- Implemented **Google Sign-In** authentication
- Developed **three new reporting modules**
- Fixed multiple issues in the **Dashboard** section
- Corrected workflow and logic bugs in the **Reporting Flow**
- Performed ongoing maintenance, refactoring, and troubleshooting across the system

This role required deep understanding of a complex, legacy codebase and strong problem-solving skills to maintain system stability while introducing new features.

Qarin Admin (Billing Job Processor – PDF batch generator)







Link: https://qarin-admin.porrapat.com

Period: October 2024 – December 2024

Team: Webgato Software

Tech Stack: PHP 7.4 (legacy), PHP Job Processing, MySQL

Description:

This application is a standalone legacy module of the Qarin Admin ecosystem, built on PHP 7.4 and responsible for generating billing-related PDF reports. The previous reporting implementation required users to wait for the entire report generation process to complete, causing long loading times and poor user experience — especially when generating more than 1,000 PDF files in a single batch.

Webgato assigned me to design and implement a new, improved reporting module called **WMO**, which introduced a modernized processing workflow while staying compatible with the legacy system.

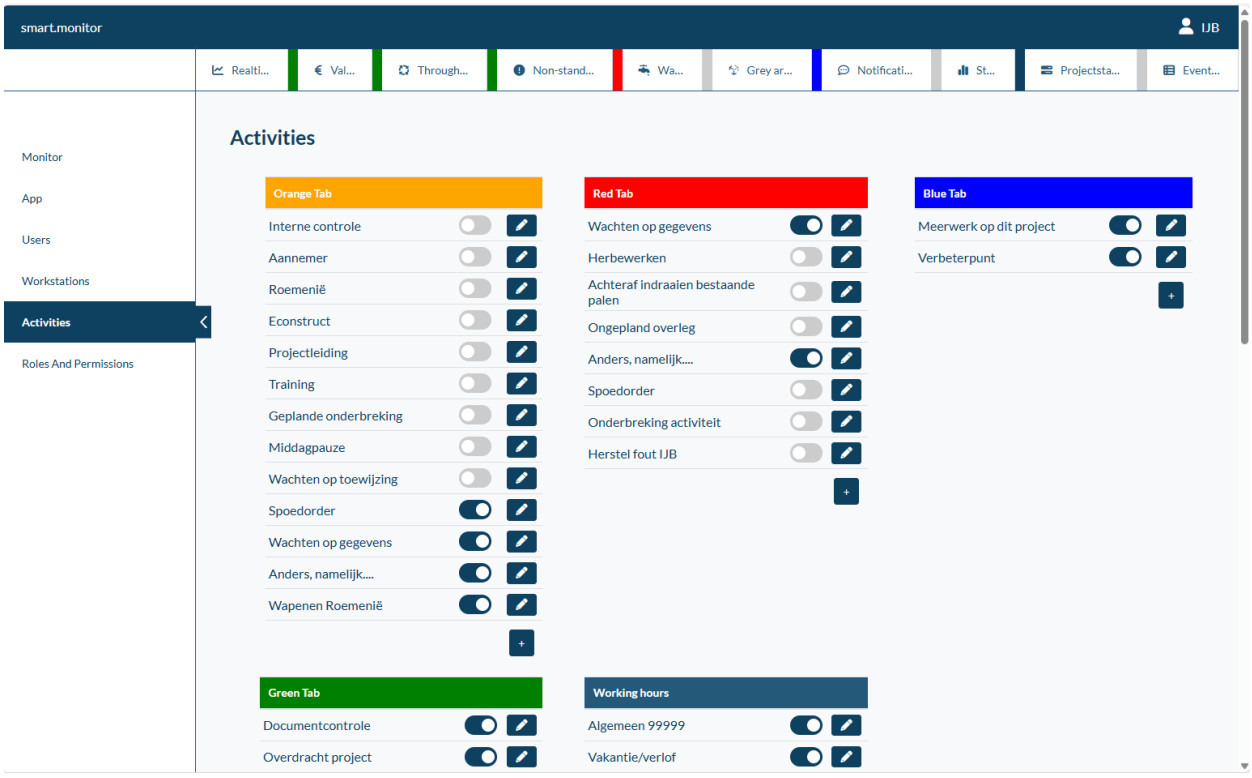
Instead of forcing users to wait for the report generation to finish, the new module offloads the work to a **PHP-based job processor**. Users can trigger the job and continue using the system normally, while the backend completes the PDF batch generation in the background.
A single job can generate **1,000+ PDFs** within approximately 10 minutes, depending on volume and content size.

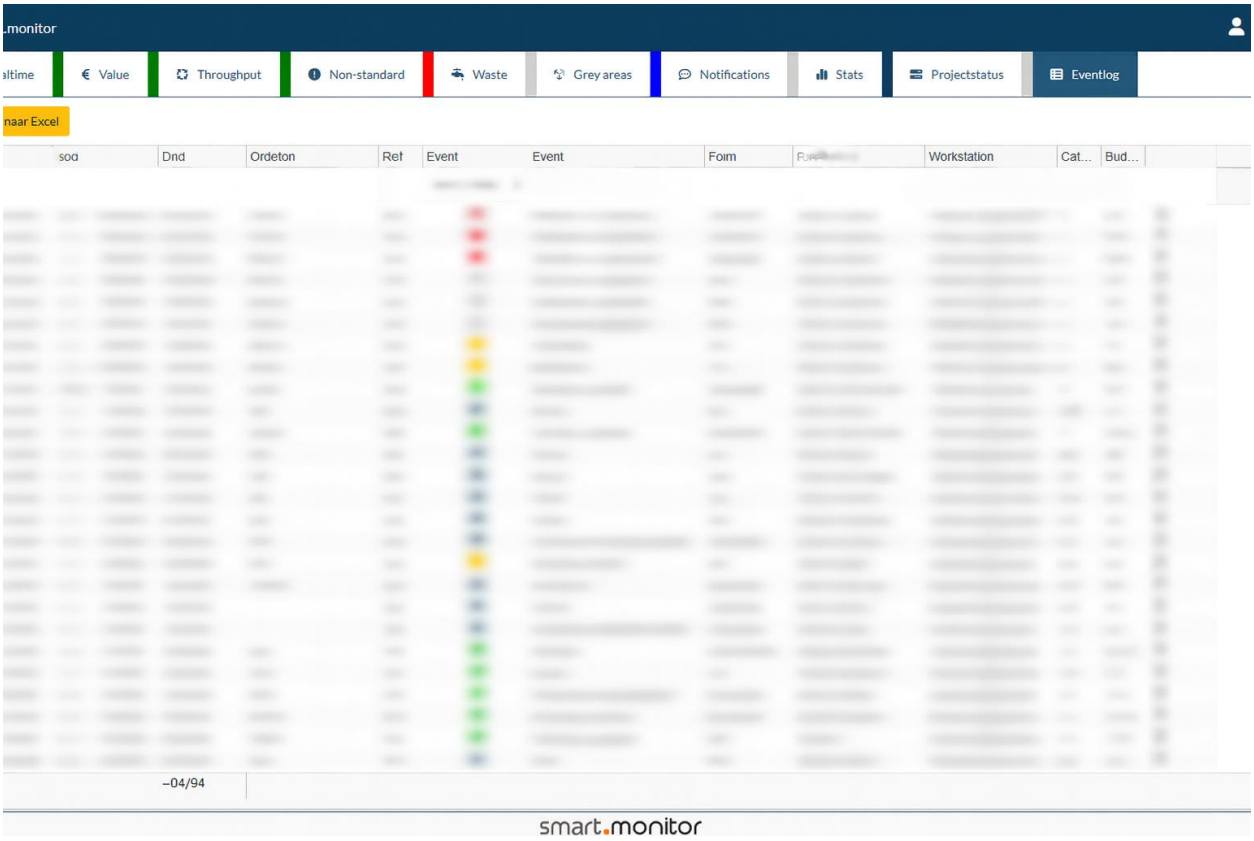
Key responsibilities and contributions:

- Designed and built the new **WMO reporting module**
- Implemented a custom PHP job-processing mechanism for background PDF generation
- Improved **User Experience** by eliminating blocking waits on the UI
- Ensured backward compatibility with the legacy PHP 7.4 environment
- Integrated job status display and result retrieval into the existing admin interface
- Performed debugging and adaptation of old reporting flows

The focus of this enhancement was **not to increase raw performance** but to **dramatically improve usability and workflow efficiency**, allowing users to continue their tasks without being blocked by long-running report generation.

Smart Monitor (Industrial HRM Monitoring System)





Link: https://smartmonitor.porrapat.com

Period: May 2024 – August 2024

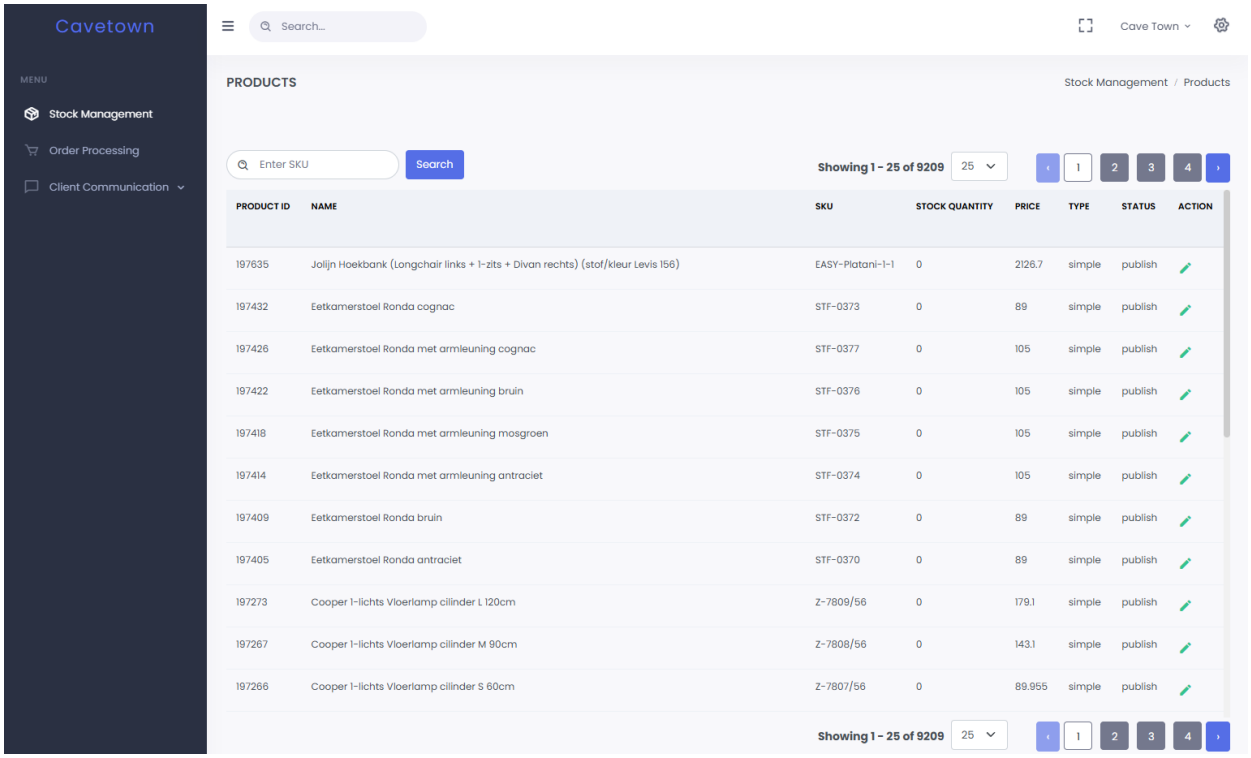
Team: Webgato Software

Tech Stack: PHP 7.x–8.1 (Legacy), MySQL, Socket.io Integration, jQuery, Angular (Connected System)

Description:

I was responsible for improving and maintaining a legacy PHP system that relied heavily on raw SQL queries due to its age and architectural limitations. The frontend was tightly coupled with jQuery, and the existing template made removing it impractical, so I implemented new features while preserving full backward compatibility.

My work included developing a new activity page, adding several real-time features powered by Socket.io, enhancing existing modules, fixing long-standing bugs, and updating multiple dashboard charts for clearer data visualization. This project required careful handling of legacy code, deep knowledge of raw SQL, and the ability to modernize components without disrupting the old system.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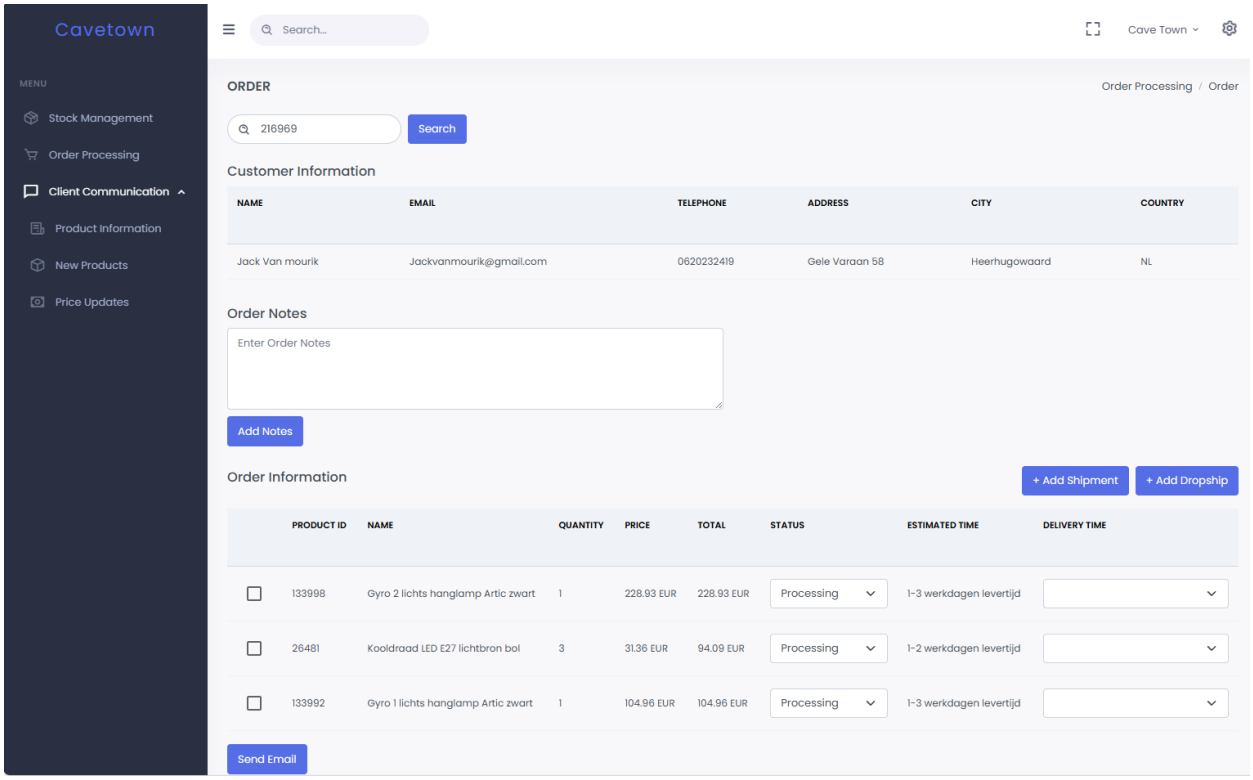
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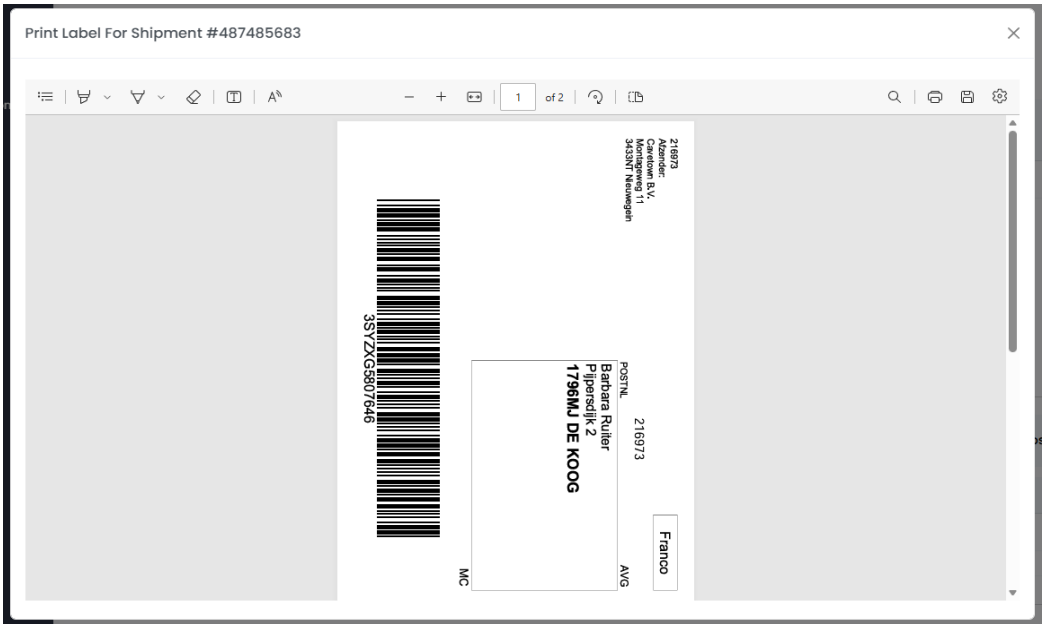
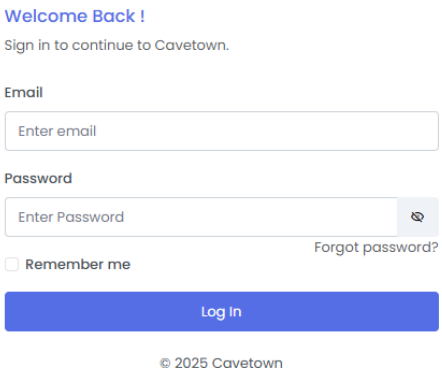


Link: https://cavetown.porrapat.com

Period: Nov 2024 – Feb 2025

Team: Webgato Software

Tech Stack: React, Express.js, GraphQL, MongoDB, WooCommerce (PHP), External Supplier APIs, FTP Integration

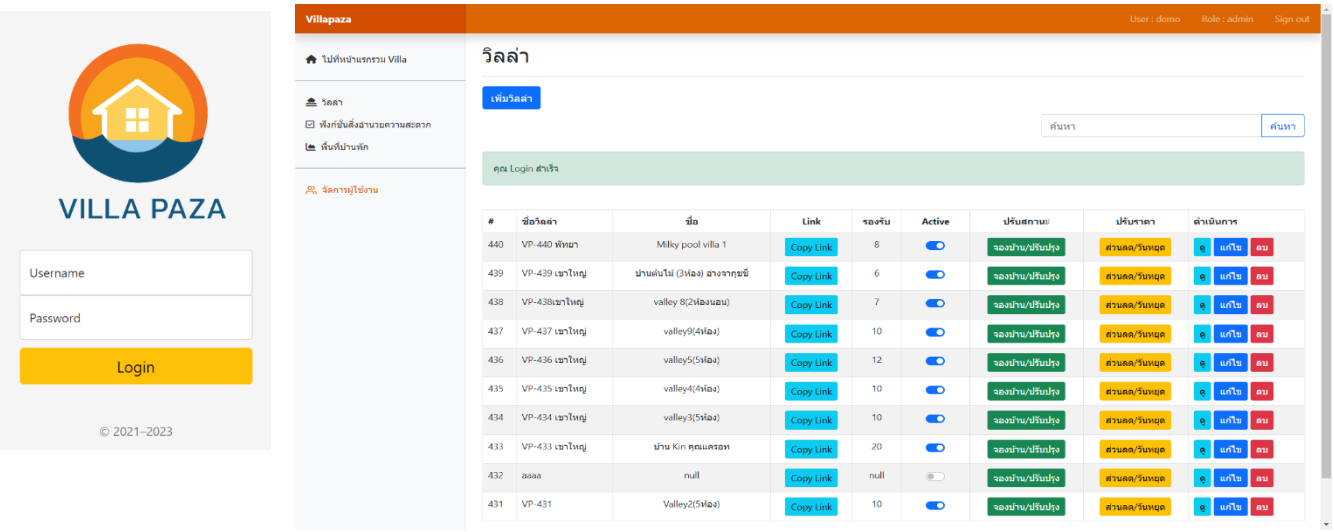


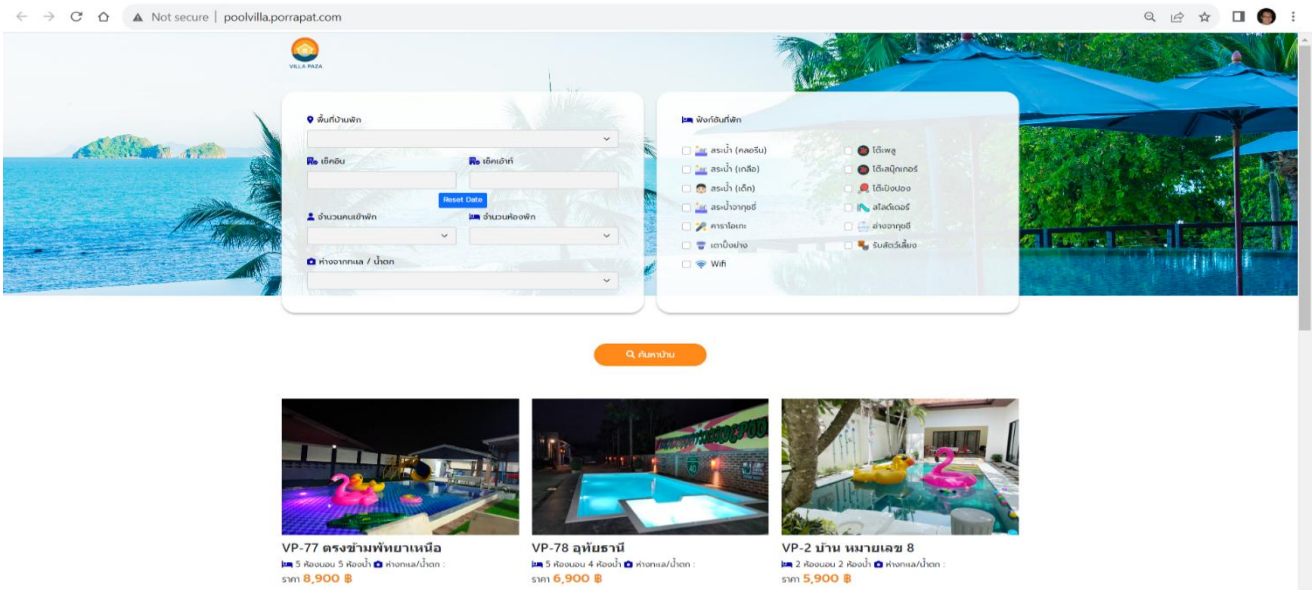
Description:

CaveTown is a system built to synchronize product and order data from a WooCommerce-based inventory platform while integrating with multiple external shipping and dropshipping providers. Each supplier had unique APIs, formats, and business rules, requiring careful data transformation and robust integration logic.

I was responsible for maintaining and expanding the CaveTown platform—and specifically, I **designed and built the entire dropshipping system from scratch**. This included implementing a new dropship flow, integrating supplier systems via FTP, synchronizing data with WooCommerce's API, and storing structured data in MongoDB. This project allowed me to apply React in a real production environment and work across a multi-stack ecosystem, delivering successful integrations that improved the overall performance and automation of the platform.

Villapaza (Poolvilla Management System)





Link: https://poolvilla.porrapat.com

Username: demo **Password:** demo

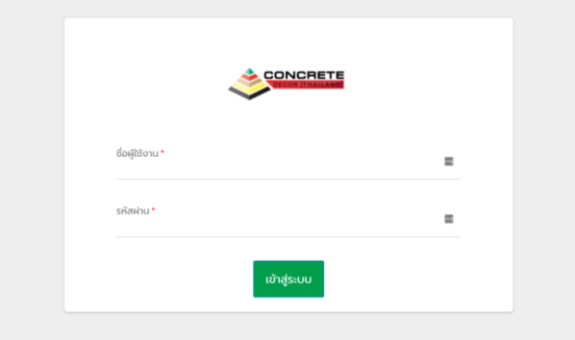
Finished: January 2023

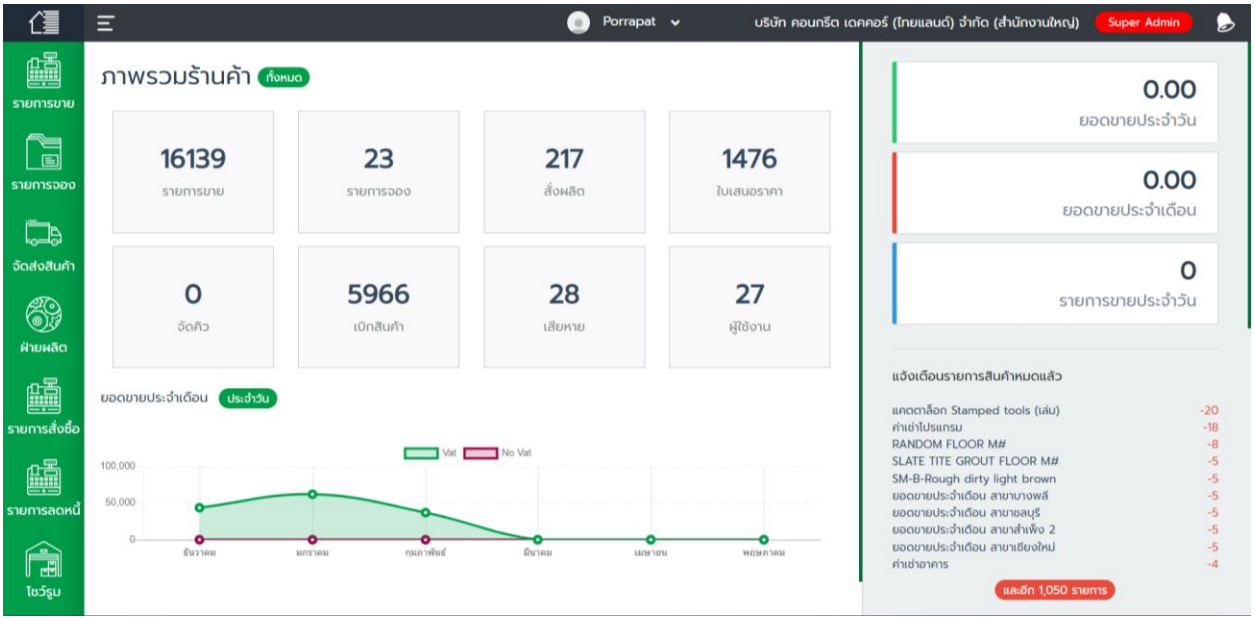
Team: Orange Thailand

Tech Stack: AdonisJS (Laravel-style boilerplate), MySQL

This application is a poolvilla management system with multiple roles such as **Super Admin** and **Sales**. Super Admins can manage villa information and reservations, while Sales can search, filter, and assist customers with available villa options. The system also integrates **Line Notify** to automatically alert the Admin Team and Sales Team whenever a villa is reserved.

Concrete Thailand (ERP – Sales & Inventory)





Link: http://cdt.ideavivat-demo.com, www.promptchai.com

Username: demo **Password:** demo

Finished: March 2021

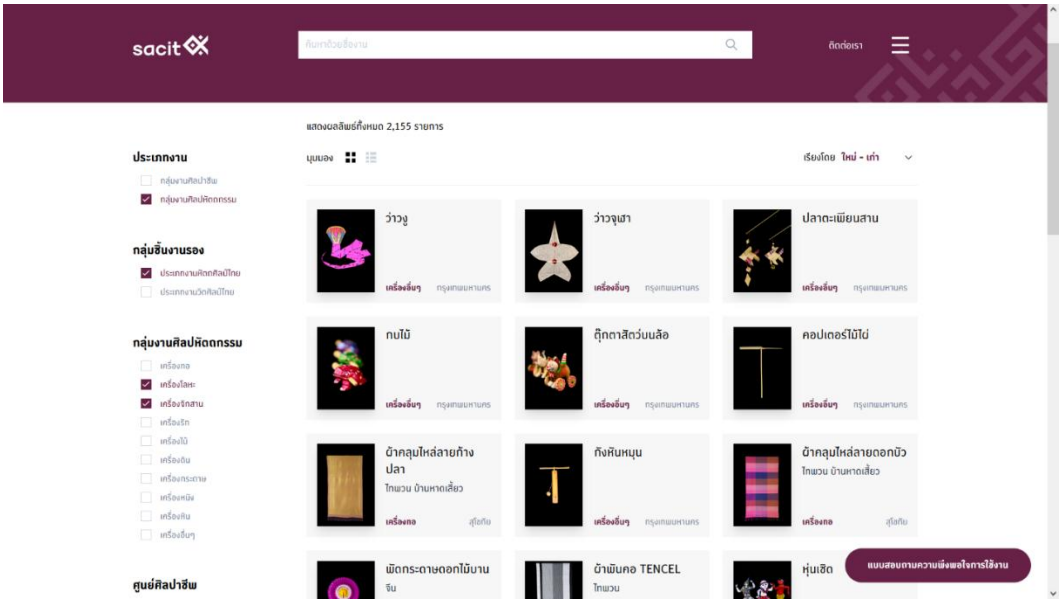
Team: Ideavivat Co. Ltd.

Tech Stack: Laravel, VueJS, MySQL

This is an ERP application used by Concrete Decor Thailand to manage sales, reservations, deliveries, stocks, and reporting. The system was developed using Laravel with a VueJS frontend. The first development phase took around six months, and the full product continued evolving over a 3-year period. I worked on both backend and frontend features together with a team of about five developers.

This project functions as a compact ERP solution, featuring modules such as POS, inventory management, and optional integration with receipt printers for on-site operations.

Sacit (Handicraft Archive Database – GraphQL)



Link: https://archive.sacit.or.th/

Finished: May 2021

Team: Ideavivat Co. Ltd.

Tech Stack: Laravel, GraphQL, VueJS, MySQL

This project is a national-level digital archive system developed for SACIT (Support Arts and Crafts International Centre of Thailand). The platform stores and organizes information about Thai handicrafts, artisans, product histories, and related cultural content. It also includes a large collection of digital media such as PDFs, images, and videos, all categorized and searchable.

My primary responsibility was backend development and data integration. I designed and implemented the API architecture, enabling the frontend (VueJS) to interact efficiently with the system via both **REST** and **GraphQL** endpoints. This included defining schema structures, building query and mutation logic, and optimizing data retrieval for large datasets.

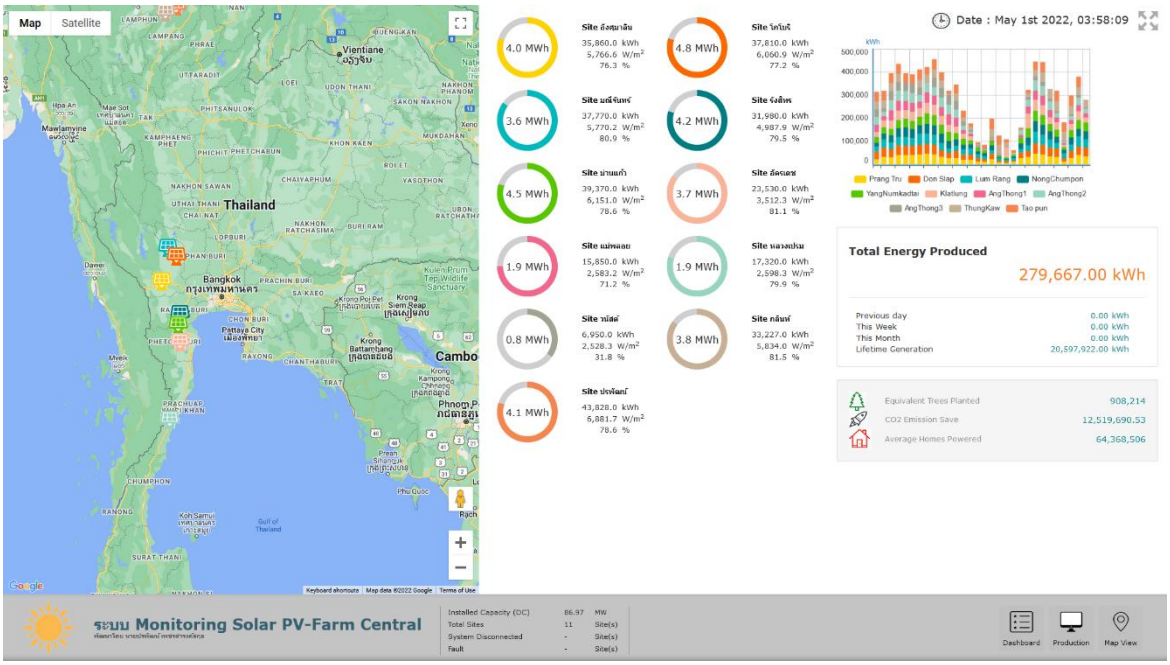
The system supports advanced filtering and sorting, allowing users to search handicrafts by category, material, region, artisan, or keyword. I collaborated directly with 3 developers in the core team, while several other team members contributed to content preparation and UI/UX.

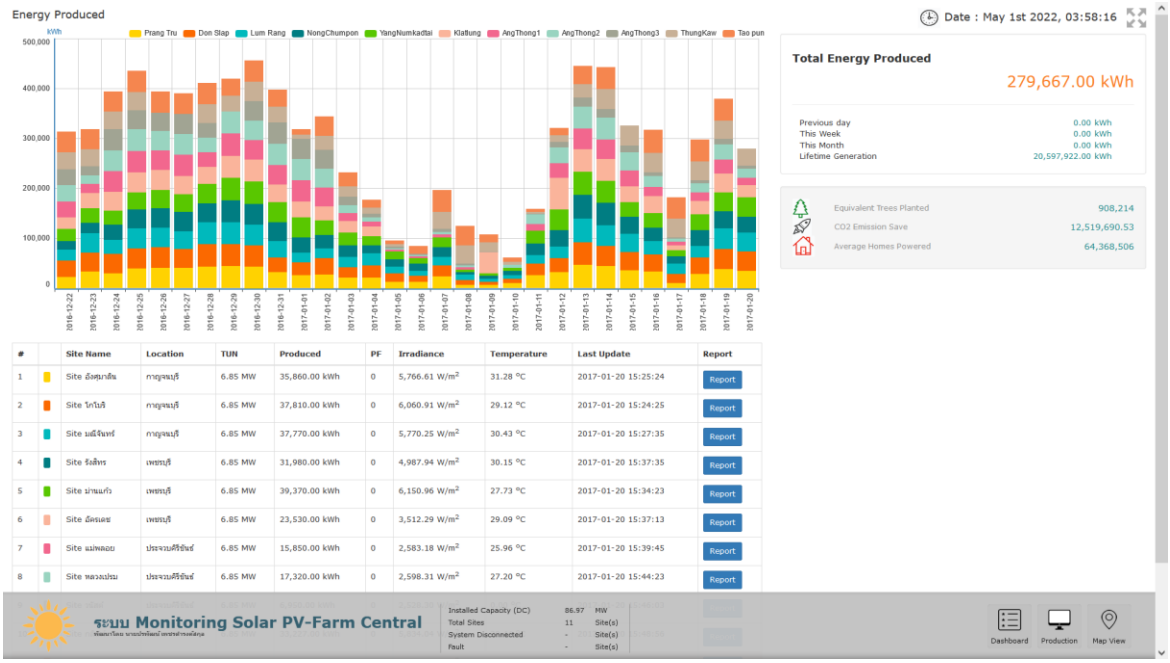
Key contributions include:

- Designing backend data structure for cultural and craft-related metadata
- Building REST and GraphQL APIs used by the VueJS frontend
- Implementing media handling for PDF, image, and video assets
- Optimizing queries to ensure smooth filtering and large dataset browsing
- Coordinating backend–frontend integration with the design and content teams

This project strengthened my experience in database design, API architecture, and multi-team collaboration, especially in delivering a content-heavy platform with a modern, responsive frontend.

Solar Cell Monitoring (Industrial Monitoring System)





Link: http://www.porrapat.com/cc-root/

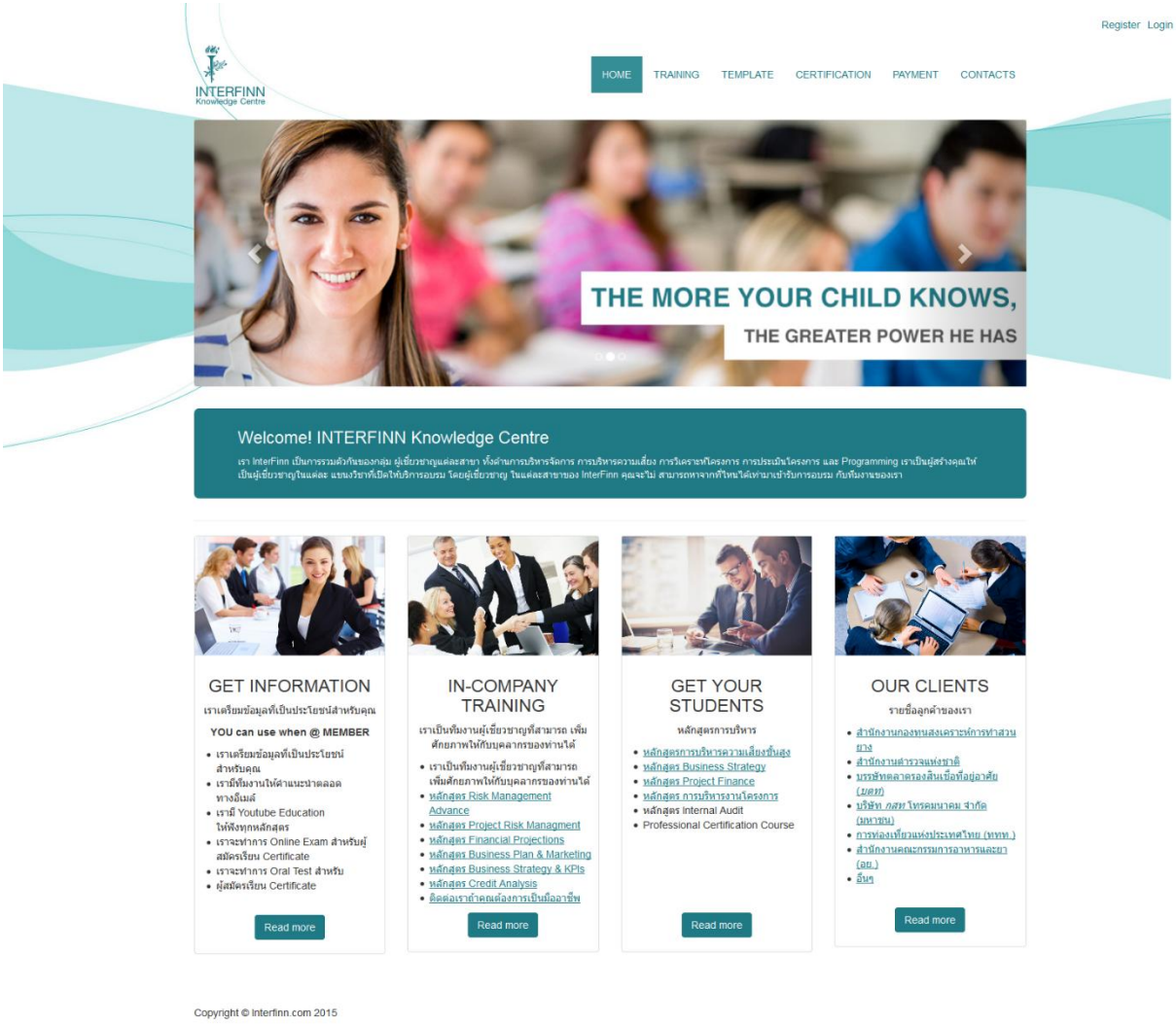
Finished: Aug 2018

Team: Insight Software

Tech Stack: Yii, AngularJS, jQuery, MySQL

This application monitors energy production across **38 solar farm sites**, showing real-time status, performance charts, and historical reports. I worked on both backend and frontend features, including dashboard visualization and an Excel reporting module for daily operational summaries.

Interfinn School (Simple Course Template)



Link: http://www.interfinn.com

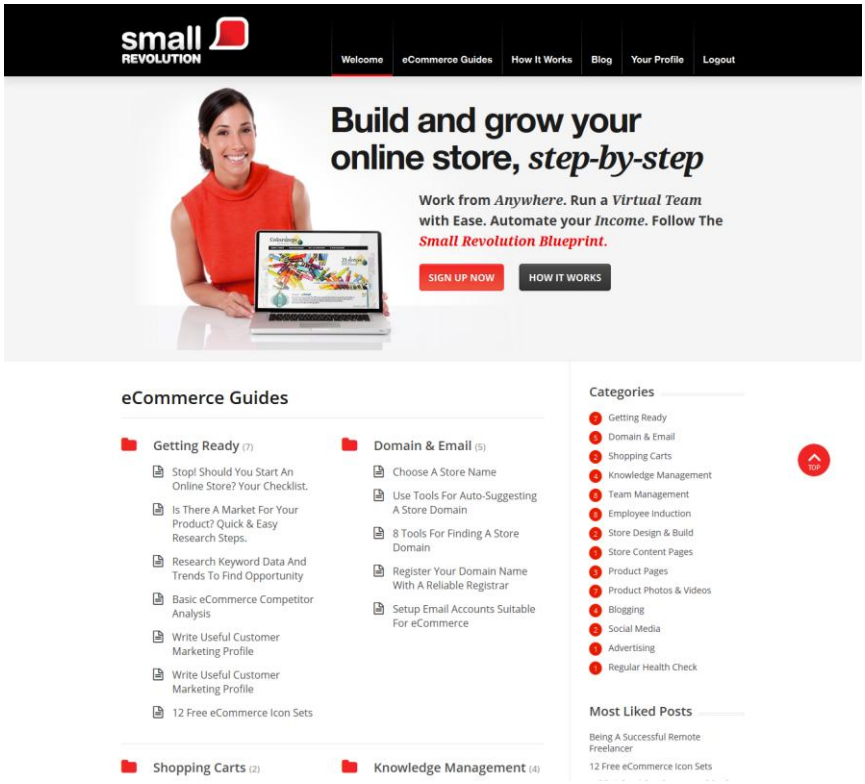
Finished: March 2015

Team: Interfinn.com Team

Tech Stack: Yii Framework, SQLite

This is an online learning website for corporate training. The design was provided by the client, and my responsibility was to build the backend using Yii and integrate the content into the system. Users can also register for courses directly from the platform.

Small Revolution (WordPress Subscription Platform)



Link: http://www.smallrevolution.com

Old website: http://web.archive.org/web/20040520065105/http://www.smallrevolution.com/

New website: http://www.smallrevolution.com

Finished: May 2014

Team: Mckinnon Group Team

Tech Stack: WordPress, aMember

This website serves as a knowledge base for e-commerce and virtual worker training. My responsibilities included setting up WordPress, customizing the theme, and integrating the **aMember** subscription/payment system. This was also one of the **first WordPress theme projects I ever worked on**, giving me valuable hands-on experience in theme customization, plugin integration, and managing early-stage WordPress deployments.

A memorable moment from this project was my inexperience with Cronjobs at the time. I unintentionally misconfigured the schedule, causing the system to run — but in a somewhat unpredictable way. The client didn't notice, and neither did I, until much later after the project was delivered. The site eventually underwent a redesign (for unrelated reasons), but the lesson became a core part of my growth in backend automation and server operations.

The website was completed within about six weeks and delivered as a fully responsive platform.