

CYRILL HOCH · SELECTED PROJECTS · 2026

Project Portfolio

Selected work in MS Power Platform, process digitisation, full-stack development, data applications and practical AI integration.

BUSINESS PROJECTS · 01 Business Apps · 02 PlainPPM · 03 Client Applications
INDEPENDENT PROJECTS · 04 Project Overview · 05 LIT · 06 MedSave

MS Power Platform & Business Apps

Client applications for data management, project governance and process automation.

Brokers · Qualibroker AG

MS POWER PLATFORM · APP OWNER

Architecture. Internal business application for one of Switzerland's largest insurance brokers. MS Power Apps and Power Fx provide the interface and logic; MS Power BI and MS Power Automate support reporting and automation. The app integrates with MS SharePoint, MS Outlook and MS 365 and uses a REST API. Communication, templates and client records stay within the same working context.

My responsibility. App ownership for daily use by approximately 250 people, covering operations, technical administration, support, access rights, testing, data migrations and functional development throughout the application lifecycle.

- MS Power Apps · Power Fx · MS SharePoint · REST API

PlainPPM · DACS AG

MS POWER PLATFORM · UI REFACTORING

Architecture. MS Power Apps application for ideas, projects and the agile backlog, connected to MS SharePoint and MS Teams. Views and filters expose status, ownership, dates, effort and budgets. The structure links strategic portfolio work to operational planning and individual work items.

My contribution. Technical and visual refactoring from rigid pixel positioning to a flexible layout system. Semantic colour names enabled themes, while a consistent naming convention replaced generic object names. I rebuilt the Kanban module with flexible axes, automatic spacing, draggable sidebars and user-adjustable dimensions.

- MS Power Apps · Power Fx · MS SharePoint · MS Teams

Customer Repair Cases · ADENSYS

MS POWER APPS · END-TO-END IMPLEMENTATION

Data model. Two MS Lists store repair cases (REK) and items submitted for repair (REP), with multiple items linked to each case. Two connected galleries display the cases and filter related products according to the selected REK record.

Application logic. Search, company filters, forms, a multilingual auto-mailer and conditional product checks support the workflow. I implemented the data structure, forms and logic. The completed app has been used daily by approximately ten people for four years, without requiring corrective maintenance or fault resolution.

- MS Power Apps · Power Fx · MS Lists

Travel Reimbursement · IKEA

MS POWER APPS · END-TO-END IMPLEMENTATION

Architecture. Two independently developed MS Power Apps serve approximately 3,500 employees through a shared MS Lists data source. Employees submit ticket details and receipts; HR reviews the records and submission history.

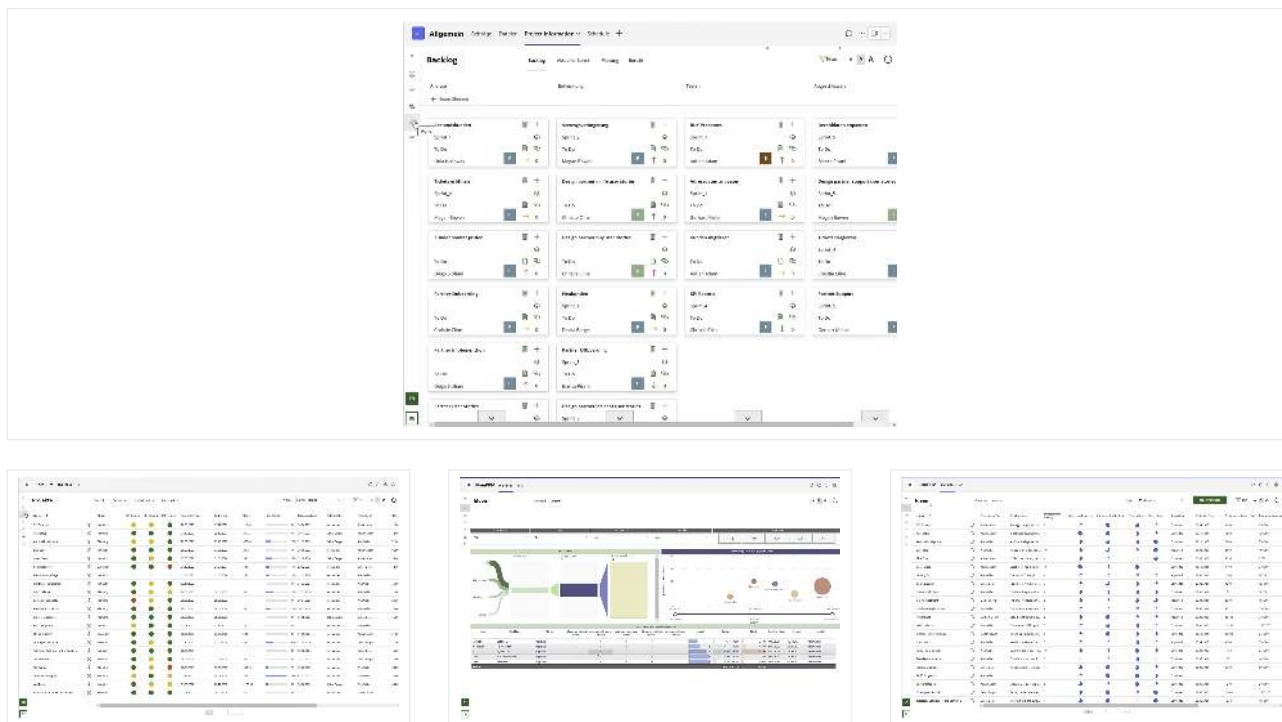
Workflow logic. Review actions trigger emails, while receipts are named and stored in employee folders. Month-end automation totals reimbursements, transfers them to Finance and opens the next monthly list. It reduced one employee's monthly processing effort from several days to approximately 20 minutes.

- MS Power Apps · Power Fx · MS Lists

02 / MS POWER PLATFORM · CLIENT APPLICATION

PlainPPM · DACS AG

Contributing to a business application for idea, project portfolio and backlog management.



PLATFORM & INTEGRATION

Architecture. PlainPPM is built on MS 365 and the MS Power Platform. MS Power Apps provides the user interface, MS Power Automate supports workflows, and MS Power BI delivers reports and dashboards.

Integration. The client solution connects to MS SharePoint and MS Teams, bringing project information into team collaboration. Its modules support initiatives from initial idea to project closure. The platform accommodates traditional, agile and hybrid project methodologies, alongside resource planning, risk management and time tracking.

MY CONTRIBUTION

UI refactoring. I converted the rigid pixel-based interface into a dynamic layout system. Flexible axes, automatic spacing and draggable sidebars prevent downstream elements from requiring manual repositioning after layout changes.

Design system. Semantic colour names replaced hard-coded hex values and enabled theming. Names based on container, type and function replaced automatically assigned generic names. I completely redesigned the Kanban module, with dimensions controlled centrally and, in part, by users.

FEATURES

Portfolio & Reporting. An idea funnel and an impact/budget chart support comparison and prioritisation of initiatives. Project overviews show KPIs for cost, quality and delivery dates. Date filters define reporting periods; progress indicators show the current completion status.

Planning & Control. The agile backlog organises work items by workflow stage and sprint. Additional modules support resource planning from project and line-management perspectives, recording risks and countermeasures, and time tracking to evaluate effort and project progress.



VIDEO & PRODUCT DEMO

PlainPPM · DACS AG

Scan the QR code or open: youtube.com/watch?v=bDDfwsT7kYQ

03 / MS POWER APPS · PREVIEW

Client App Preview

Selected application screens from two independently developed client solutions.

Customer Repair Cases · ADENSYS

Linked cases and items submitted for repair, record creation, editing, an auto-mailer and product checks.

CASE OVERVIEW

EDITING

RECORD CREATION

PRODUCT CHECKS

Travel Reimbursement · IKEA

Employee public-transport ticket entry, receipt photos and submission history, with HR review and validation.

EMPLOYEE SUBMISSION

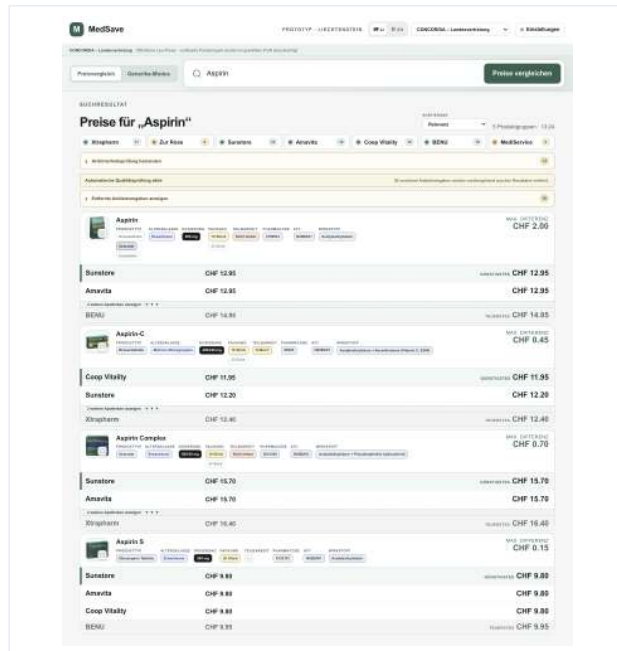
HR REVIEW & HISTORY

04 / INDEPENDENT PROJECTS

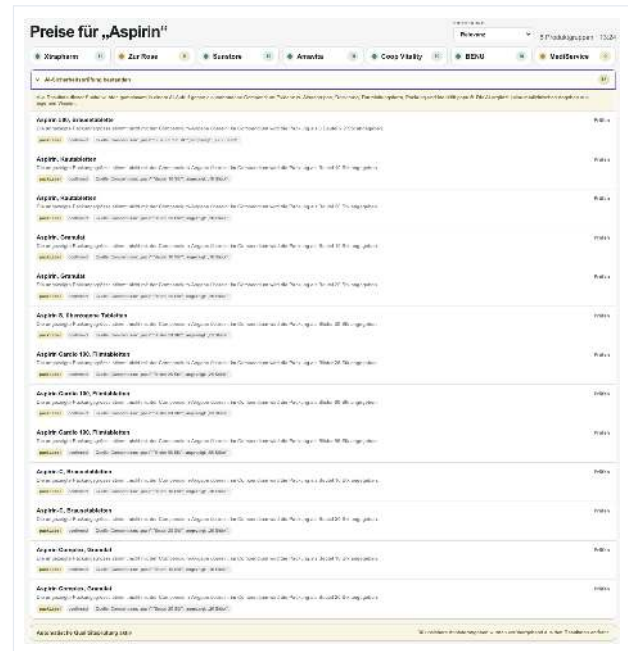
Project Overview

QR, satellite monitoring, learning, communication, healthcare coordination and data analysis.

PRICE COMPARISON



AUTOMATED QUALITY CHECKS



PROVIDERS & MATCHING

Provider layer. Provider-specific Cheerio parsers query pharmacies and the Swiss Compendium in parallel, converting each result into a unified Offer data type.

Identity. Exact Pharmacode and EAN matches link provider offers, remove duplicates and enrich records with the official name, active ingredient, ATC code, dosage and pack details. The enriched records feed product grouping and price comparison across pharmacy providers.

QUALITY & SAFETY

Quality gate. Results are checked against the search term and Compendium index before grouping. Fixture-based parser tests, health checks and daily audits validate provider data quality.

Safety review. AI checks product information against supplied Compendium references and returns schema-validated results. Field-level checks determine which information is displayed; requests use store:false.

API & PRICING

Search API. GET /api/search validates query length, search mode, insurance profile and prescription status. The API queries provider prices on demand. Cache-control directives prevent response storage.

Calculation. A discount engine and verified shipping rules calculate a comparable final price. Variants are grouped by form, strength, pack and target group, then sorted by price and potential savings.

- Next.js · React · TypeScript · Cheerio · JSON Schema · Node Test Runner

05 / INDEPENDENT PROJECT

LIT · Pass the Flame

QR platform that turns physical lighters into travelling music objects for artists and bands.

CURRENT CONCEPT

Physical object · music · public journey

A QR-coded lighter promotes an artist's music while building a public map and timeline of everywhere the object travels.

VERSION 1.14

Artist-ready product MVP

Spotify music, artist profile, artwork-derived colours, responsive journey views, mobile check-ins and protected administration are now combined in the current build.

PRODUCT CONCEPT

Concept. Permanent QR codes connect each lighter to a public journey page. Scans open music, a map and a timeline for the physical object, turning a small everyday item into a travelling promotional channel for artists and bands.

Journey. Scans record consent-based rounded location data. Visitors can claim or refine a stop and follow the object's movement through a responsive timeline.

ARTIST FEATURES

Music & Profile. Artist pages support Spotify embeds, up to five featured songs or a playlist, social links, profile icons and artwork-derived theme colours.

Public Layer. Public journey pages, memorable-lighter rankings, sharing and mobile QR scanning make the hand-off visible. A prominent call to action lets visitors claim their stop directly below the embedded music player.

TECHNOLOGY & OPERATIONS

Product state. Versions 0.9 to 1.14 added the prototype, database storage, authentication, dashboard, admin area, multi-account support and a production-safety audit.

Architecture. Protected admin areas support editing and deleting lighters. Validation, stable APIs, responsive mobile and fullscreen views, and Spotify CDN support make the product easier to operate.

0.9

Prototype and core visual identity

1.0-1.6

QR journeys, check-in flow, scanning and API stability

1.7-1.11

Admin area, rankings, social links, multi-account and timeline

1.12-1.14

Artist positioning, Spotify, artwork themes and mobile polish

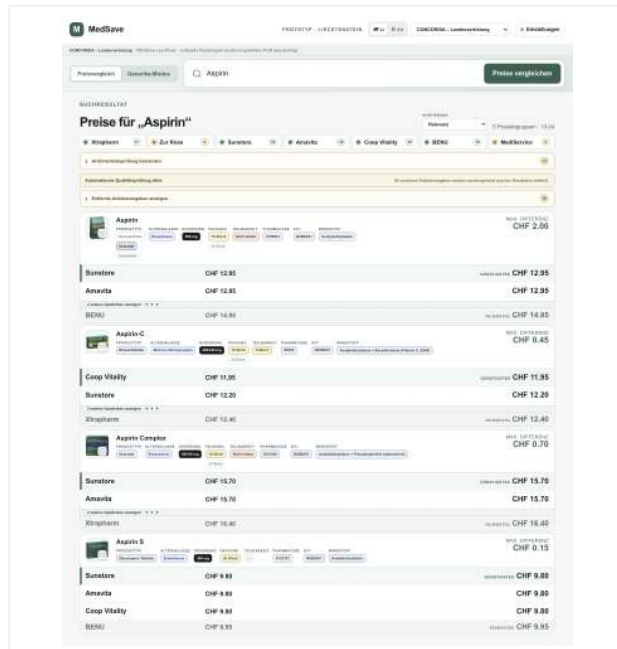
- Next.js · React · PostgreSQL · Prisma · NextAuth · OAuth · Spotify · QR

06 / INDEPENDENT PROJECT

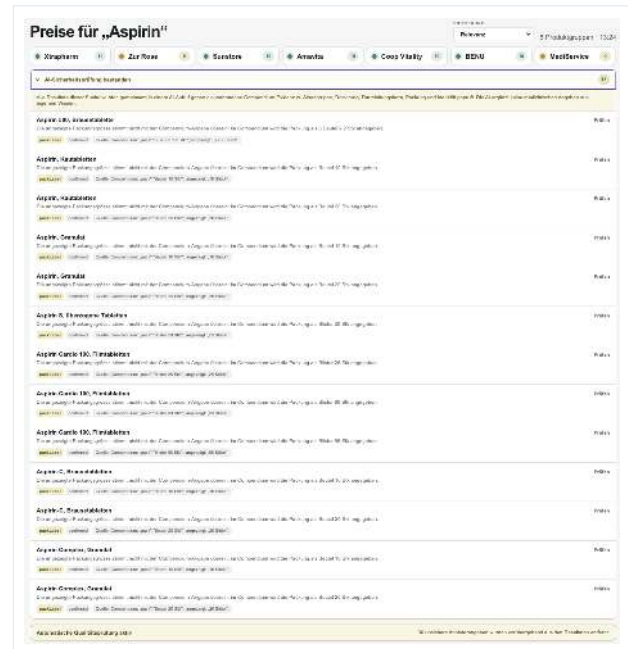
MedSave

Medication price comparison with product matching, live data queries and evidence-based checks.

PRICE COMPARISON



AUTOMATED QUALITY CHECKS



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