

Provision of Software for data retrieval from web services

A modular platform for secure data retrieval and unified search across authorized web services operated by government institutions.

Solution purpose

The platform provides a single controlled user and application layer above multiple heterogeneous sources. This overview is deliberately limited to architecture principles: it does not identify institutions, individual services, system addresses, datasets or operating procedures.

Architecture principles

1

Stable shared core

Identity, authorization, validation, orchestration, response normalization and error handling are unified in a reusable application layer.

2

Isolated integration adapters

Every new source implements a clearly defined contract, preventing one system's protocol and data format from leaking into the rest of the codebase.

3

Unified search

A common query model routes authorized requests to appropriate sources and returns validated, normalized results.

4

Centralized request tracking

Statuses, correlation markers, timestamps and audit events provide a traceable lifecycle for every operation.

5

Security as a foundational requirement

Federated identity, granular roles, encryption, certificates, validation and least-privilege access protect every integration boundary.

Technology framework

Java / Spring Boot	Spring Security	Spring Data JPA
OAuth 2.0 / OIDC	Keycloak	REST / SOAP
Vue 3 / TypeScript	Vite / Pinia	Maven multi-module
Relational databases	OpenAPI	Testcontainers

Security and integration

Integrations operate through controlled boundaries with mutually verified identities, encrypted communication and validation at ingress and egress. Role-based, least-privilege access is paired with centralized records for monitoring, diagnostics and audit without exposing content outside its authorized context.

Confidentiality note

This document was prepared for portfolio presentation and import testing. It contains only a general technology overview and is not operational system documentation.