

Case Study



Gene Visualization Platform

The Purpose

To develop a user-friendly genomic data visualization tool with an ability to explore, interrogate, analyze, interpret and evolve a hypothesis in discovery programs for expert geneticists and discovery scientists.

About the Client

INDUSTRY
Pharmaceutical and Biotechnology

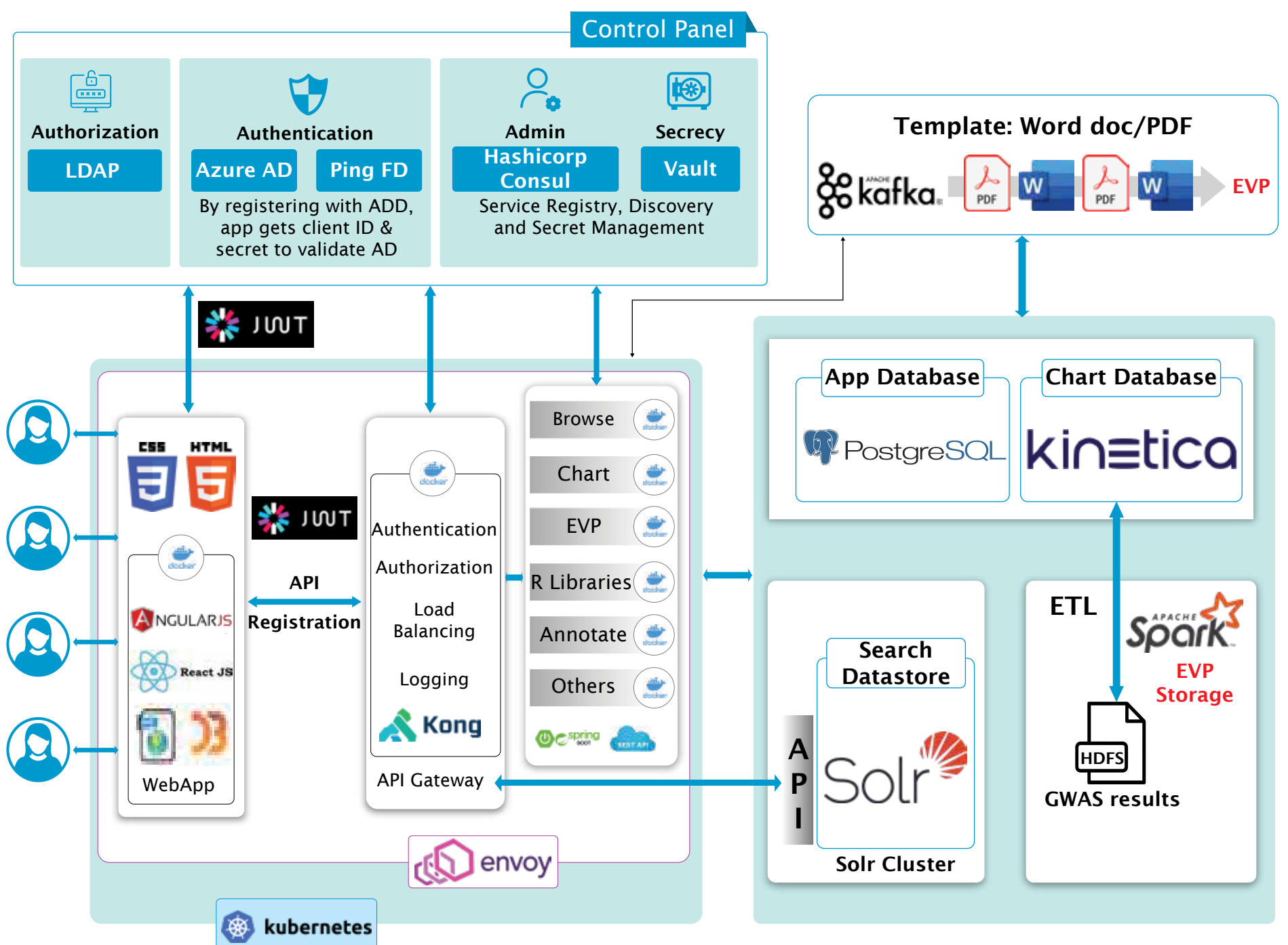
LOCATION
US

SECTOR
Consumer Healthcare

The Excelra Approach

The Gene Visualization Tool was designed to provide a solution that can display various visualizations of Genome Wide Association Study (GWAS) results that are already stored in Data Lake databases, based on user choices (such as disease and/or gene of interest).

The Gene Visualization Tool



Excelra's Contribution

The application was scalable for 1000 users at a time.

The application managed compliance requirements and provide access controls based on end user role.

Graphing Framework (D3.js.) in the front-end services

The visualization framework was scalable to all R&D related visualisation, like Genome browser, RNA-Sequencing, SNP visualizations.

Excelra's Technology Service Portfolio

Enterprise Data Strategy



- Metadata & Master data management
- Semantic data catalogue, Ontology mapping and Data dictionary integration
- Data unification strategy
- Automated data ingestion, Pipeline creation and Semantic integration

Enterprise Cloud Ops



- Cloud migration, Infrastructure set up and management (AWS & Azure)
- DevOps & DevSecOps/ MLOps & MLSecOps
- Product Ops & Service Ops
- Data lake creation and Integration support

Enterprise Digital Transformation



- Scientific product development
- Platform/Application development
- Process automations
- Enterprise workflow integration
- Visualisation and Dashboarding as a service

For more information, visit <https://www.excelra.com/technology>



About Excelra

Excelra's data and analytics solutions empower innovation in life sciences across the value chain from discovery to market. The Excelra Edge comes from a seamless amalgamation of proprietary curated data assets, deep domain expertise and data science. The company's multifaceted teams harmonize and analyze large volumes of disparate unstructured data using cutting-edge technologies. We galvanize data-driven decisions to unlock operational efficiencies to accelerate drug discovery and development. Over the past 18 years, Excelra has been the preferred data and analytics partner to over 150 global clients including 15 of the top 20 large Pharma.