



CUSTOM SOFTWARE DEVELOPMENT

Success stories

Brief

Over 10 years we have developed different technological solutions for our clients in different areas and business processes. Each of the services has been successfully deployed and has evolved to new versions over time, increasing the number of users and functionalities.

Luis Rafael Valenzuela Galván
luis.valenzuela@abacus.mx
PMO Director

Custom Software Development.

Success stories.

Project	Industry	Platform	Brief	Area / Business Process	Business opportunity / Benefits	Technical info	Use statistics	Creation duration & hours	Releases
Management of technical file of mining explorations. (Document management).	Mining	Web	<p>Management of new and historical technical exploration files.</p> <p>Workflows for upload and query files.</p> <p>Geographical reference of documents and mining prospects.</p>	<p>Exploration offices.</p> <p>Document Management.</p>	<p>Reduction of physical file costs.</p> <p>Documents accessibility.</p> <p>Estimated ROI: 78,000 USD per year</p>	<p>Java EE 7/JavaFX Glassfish 3.2 Redhat MSQL Server Primefaces</p> <p>File servers geographically distributed by country and office.</p> <p>REST Webservices for integrating File Servers.</p> <p>FTP upload and download.</p> <p>Apache Shiro Security Framework.</p> <p>LDAP authentication.</p>	<p>Users: 250 Offices: 16 Countries: 3 Documents: 38,000</p>	<p>6 months 3,800 hours</p>	<p>Instance 1: V1: May 2012 V2: August 2017 México, Chile and Perú</p> <p>Instance 2: August 2017 México, Chile and Perú</p>
Contract management (Document management).	Mining	Web	<p>Management of the life cycle of a contract, from the request derived from a business need, bidding, direct allocation, contract authorization, modification agreements and addendums, until its completion.</p> <p>Management of the request file, bidding, direct allocation,</p>	<p>Contracts.</p> <p>Document Management</p>	<p>Costs due to expiration of documents.</p> <p>Reduction of physical file costs.</p>	<p>Java EE 8 Payara 4 Redhat MSQL Server Primefaces</p> <p>FTP upload and download.</p> <p>Apache Shiro Security Framework.</p>	<p>Users: 201 Business Units: 18 Contracts: 1,000 Documents: 20,000</p>	<p>4 months 2,000 hours</p>	<p>V1: November 2012</p> <p>V2: May 2019</p>

			contract, proposals and contractors.			LDAP authentication.			
Balanced Scorecard	Mining	Web	Support to the BSC methodology for the organization or for business areas. Definition of dashboards, scorecards, KPIs, columns, formulas, variables, capture responsibilities and validations, periods of capture of goals and real results.	Administrative management, safety, environment & health.	Information available and validated periodically for enable decision making.	Java EE 8 Payara 4 Redhat MSQL Server Primefaces Memory management, multi thread. Apache Shiro Security Framework. LDAP authentication.	Users: 529 Business Units: 47 Variable data per month: 4,000 Real results KPI's per month: 12,400	6 months 5,000 hours	Instance 1: January 2016 Instance 2: May 2017
Management of health and safety programs.	Mining	Web & Mobile (Android & iOS)	Management of security programs for internal mine operations such as: STOP card, supervisor folder, "life-saving rules" card and others. Compliance Evaluation. Management System Support.	SH&E (Safety, Health & Environment)	Measurement and control of safety indicators such as: Index of Safe Acts, Index of Performance in Security. Compliance assurance.	Web: Java EE 8 Payara 4 Redhat MSQL Server Primefaces Mobile: Angular, Ionic Memory management, multi thread. Distributed architecture. Data synchronization. Apache Shiro Security Framework. LDAP authentication.	Users: 11,800 Business Units: 47 STOP cards per moth:1,500 Folders per moth: 400 Evidence of compliance: 38,000 files.	7.5 months 6,000 hours	Web September 2018 Mobile 2021

Air fleet management.	Mining	Web	Aircraft fleet management, flight scheduling, flight cost management and cost per passenger, payment orders and boarding pass printing.	Controller	Cost reduction per passenger.	Java EE 8 Payara 4 Redhat MSQL Server Primefaces Apache Shiro Security Framework. LDAP authentication.	Users: 235 Flights: 2,000 Passenger: 5,000	2 months 800 hours	Instance 1: August 2014 Instance 2: (adaptation for land fleets) 2020
WS Authentication	Mining	Web	REST service for software developed by third parties for authentication through LDAP. Data export between different database servers in XML format.	Information technologies	Reduction of maintenance hours of authentication databases.	Java EE 8 Payara 4 Redhat MSQL Server Primefaces Apache Shiro Security Framework.	Users: 3 Clients: 6 XML Files: 27	1 month 100 hours	May 2016
Certification management.	Training	Web	Management of channel certifications for different manufacturers. Channel certification rules validation. Certification monitoring dashboard.	Sales, Information Technologies.	Customer satisfaction and added value, competitive advantage.	Java EE 11 Payara n5 Redhat MSSQL Server Apache Shiro Security Framework.	-	3 months	2021
Monitoring of services (Own product)			Health monitoring of services and servers. Alerts for preventive and corrective maintenance of services and servers.	Information technologies	Availability of services.	Java EE 8 Payara 4 Redhat MSQL Server Primefaces Apache Shiro Security Framework.	Users 3 Monitored services: 11	-	-