Unified Bullion Trading Platform for Global Commodity Markets

Transforming precious metals trading by replacing manual processes with a centralized, transparent platform for real-time trade execution, documentation, and funding.

Overview

We delivered a high-performance web-based trading platform using Java and Spring to process front, middle, and back-office bullion transactions on a single interface.

- Consolidated disparate trading activities across London, Dubai, and Singapore into a unified system with multi-time-zone support.
- Eliminated manual spreadsheet-based reporting and replaced it with an automated workflow, resulting in faster decision-making and real-time task monitoring.

Client Profile

This Fortune 500 firm is a global authority in managing investment volatility. They provide specialized services in commodities, foreign exchange, and securities, serving a diverse international clientele that requires 24/7 access to high-liquidity bullion markets.

Challenges: Manual Bottlenecks and Data Silos

The volatility of the commodity market demanded a speed that the client’s legacy processes could not match:

- **Operational Latency:** Tedious manual processes caused inordinate delays in trade execution and settlement.
- **Fragmented Reporting:** A lack of uniformity forced teams to rely on a mix of spreadsheets, emails, and phone calls to track global trades.
- **Disjointed Document Management:** No centralized system existed to manage customer data, trade approvals, or complex transaction parameters.

- **Audit Risks:** The absence of a transparent, automated approval system made reconciliation and compliance tracking difficult.

Solution: Integrated Front-to-Back Office Trading

We developed a responsive, web-based platform that facilitates the sale of precious metals while streamlining the lifecycle of a trade from offer to delivery. The solution caters to four distinct user groups—Customers, Suppliers, Dealers, and Operations—ensuring each stakeholder has a tailored view of the market.

The solution architecture bridges the gap between trading and accounting.

- **Automated Workflow Engine:** Inbuilt rules streamline the sequence of actions between users, ensuring that RFQs, offers, and trades move through the system without manual intervention.
- **Backend Financial Integration:** The platform is seamlessly integrated with the client's third-party financial system for real-time accounting and trade reconciliation.
- **Secure Document Orchestration:** Supports the automated generation of platform-side documents (customs invoices, PDFs) and manages the secure upload and approval of incoming customer documentation.
- **Advanced Global Logistics:** Tracks physical deliveries across multiple international hubs (London, Dubai, Singapore) with integrated multi-time-zone support.

Key Features and Technical Highlights

- **Omnichannel Dashboard:** Real-time views for Suppliers, Dealers, and Operations to monitor market flux and task status.
- **Funding Integration:** A unique feature allowing eligible customers to obtain funding to cover the value of shipments directly within the trade workflow.
- **Checklist-Driven Operations:** A specialized view to help Operations teams monitor and complete mandatory trade tasks.
- **Security & SSO:** Integrated Single Sign-On (SSO) for authorized users, ensuring secure access to sensitive financial data.

- **Dynamic PDF Generation:** Automated creation of customs invoices and trade contracts using Velocity templates.

Impact

- **Faster Decision-Making:** Automation of the trade lifecycle provides Dealers with real-time data to act on market fluctuations instantly.
- **Zero Fragmented Reporting:** The integrated platform now serves as the single source of truth for offers, purchases, and contracts, eliminating the need for spreadsheets.
- **Reduced Financial Risk:** Funding-related charts and real-time monitoring allow for the immediate detection of discrepancies in shipment values.
- **Operational Efficiency:** Centralized document management and automated notifications significantly reduced the time spent on administrative overhead.
- **Global Visibility:** Management now has 24/7 visibility into trading performance across all international branches via a single, responsive web dashboard.