

Engineering enablement for a Dutch technology company's complex mobile platform

Industry

Sports Technology

Business Presence

Europe

HQ

Netherlands

About the client:

Our client is a leading sports administration platform that powers digital experiences for sports associations, clubs, officials, players, and their communities across a range of sporting disciplines. The platform sits at the heart of how these organizations operate day to day, handling everything from match management and player registration to results, notifications, and club communications. The client's mobile footprint spans a suite of branded Android and iOS applications serving tens of thousands of active users, underpinned by a proprietary backend and a broad set of third-party integrations.

Business challenges:

For a platform relied upon by tens of thousands of users every day, the inability to confidently onboard and scale its engineering team was far more than an operational inconvenience; it was a direct risk to product continuity and the pace of innovation. Years of organic growth had produced a powerful but deeply layered ecosystem: more than 30 distinct functional modules across multiple branded apps, supported by a proprietary backend, a web of third-party integrations, and a multi-layered build and release pipeline, all without consolidated onboarding documentation. Every undocumented dependency and inconsistently understood pipeline step compounded the risk of deployment errors and slowed the delivery of new features. Recognizing that a challenge of this depth demanded genuine engineering rigor rather than a quick fix, the client selected Aspire Systems as its strategic technology partner to build and implement a robust solution for the following challenges:

- ▶ Slow time-to-productivity for new engineers, caused by undocumented architecture and unclear module dependencies.

- ▶ Elevated risk of deployment errors stemming from an inconsistently understood CI/CD pipeline (CircleCI + Fastlane).
- ▶ Limited visibility into third-party SDK integrations, API keys, certificate chains, and store credentials — creating operational bottlenecks.
- ▶ No centralized inventory of the 30+ application modules, making it hard to prioritize enhancements and bug fixes.
- ▶ A pressing need to reverse-engineer source-code flow and data-layer interactions across every module, within a multi-app architecture whose shared component libraries were hosted across separate repositories.

Our solution:

Our experts began by examining the client's environment, configuring the toolchain, cloning every repository, and analyzing the codebase directly before offering any recommendations.

From there, we ran a structured mobile engineering engagement spanning environment setup, deep code analysis, DevOps pipeline review, and comprehensive documentation, delivered through a phased approach across clearly defined workstreams. And our experts suggested integrating the QMetry tool to Jira to maintain the test cases.

Audited Firebase configurations across all test environments, validated end-to-end app distribution flows, and coordinated App Store and Google Play access.

Reviewed and documented every third-party SDK integration spanning advertising, privacy, analytics, and crash reporting; compiled a centralized registry of API keys and credentials; and catalogued existing unit and UI test cases alongside the test implementation flow.

Business outcomes:



Unified Authentication: Integrated a centralized Keycloak authentication flow across all applications, enabling a consistent and secure user authentication experience.



Enhanced API Security: Strengthened API token security on Android by leveraging the Google Tink cryptographic library for secure token persistence and protection.



Programs Experience Redesign: Completely redesigned the Programs experience across all applications, improving usability, consistency, and overall user engagement.



New Club App Capability: Introduced a dedicated Club App flavour, enabling club users to seamlessly access and manage club-specific activities and experience

About Aspire Systems

Aspire Systems is a global technology services firm serving as a trusted technology partner for our customers. We work with some of the world's most innovative enterprises and independent software vendors, helping them leverage technology and outsourcing in our specific areas of expertise. Our core philosophy of "Attention. Always." communicates our belief in lavishing care and attention on our customer and employees.

For more info contact:

info@aspresys.com | www.aspiresys.com