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Case Study

Data-Driven Insights for the Veterinary Industry with Real-Time Mobile Analytics

The Client

Our client is a leading animal health company with over \$11 billion in annual sales across the U.S. and Canada. They support manufacturers, distributors, veterinary practices, and ag retailers in optimizing market strategy, competitiveness, and sales effectiveness.

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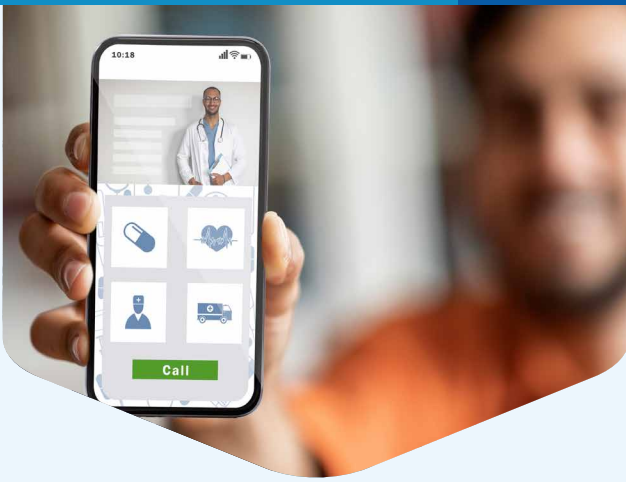
Their deep industry expertise ensures consistent innovation and excellence across their brand portfolio.

The Challenge

In 2009, the \$6B+ U.S. animal health market lacked reliable data insights. The client set out to address this gap with a mobile analytics app for dynamic sales visualization.

The key challenge was handling unpredictable data to auto-generate charts in real time while supporting offline access, two-factor authentication, and comprehensive sales views across categories and regions.

- ✓ **Dynamic Visualization:** Auto-generate optimal charts (bar, line, map, pie, etc.) from incoming data.
- ✓ **Real-Time Logic:** Process and present analytics dynamically at runtime.
- ✓ **API Integration:** Leverage client APIs to fetch chart types and datasets.
- ✓ **Offline Access:** Store and retrieve data locally when offline with secure logins.
- ✓ **Sales Dashboard:** Show sales by location, product, and time period.



Technology Environment

Telliant worked with the client to identify/create the most suitable tech-stack for the project to include:

LANGUAGES

- Swift
- Kotlin

PLATFORM

- Xcode 13 (iOS)
- Android Studio

INTEGRATION

- CocoaPods
- Dagger 2

About Us

Telliant Systems, offers a diverse selection of custom software product development services, such as product strategy, software design, application development, QA/Testing, and application management services. Expert teams are available to develop web, enterprise, and mobile applications, including iOS and Android development.

Solution Highlights

A dynamic, cross-platform mobile analytics app was developed with robust API integration, secure authentication, and adaptive data visualization. The solution delivers real-time insights, offline access, and seamless user experience across iOS and Android.

- ✔ **API Integration:** Built modular API helpers for dynamic data retrieval and visualization.
- ✔ **Dynamic Charts:** Developed reusable components using MapBox, and MPAndroidChart.
- ✔ **Data Handling:** Created runtime APIs to format and generate chart auto data.
- ✔ **Secure Access:** Added two-factor authentication with timed OTP verification.
- ✔ **UI Design:** Designed responsive UIs with XML (Android) and storyboard (iOS).
- ✔ **Documentation:** Provided VPN, TestFlight, and user setup guides.

Insights and Results

Delivered a dynamic, compliant mobile app that improved analytics, user experience, and sales performance.

- ✔ 30–40% faster decision-making through automated, real-time analytics.
- ✔ 25% increase in sales efficiency from improved visibility into product and regional performance.
- ✔ 40% reduction in report preparation time due to dynamic chart generation.
- ✔ 50% improvement in user adoption driven by enhanced UI/UX and offline accessibility.

