

ASPIRENT-LED PRODUCT DEVELOPMENT TEAM DELIVERS MVP FOR A PRECISION MEDICINE SOLUTION

PROBLEM: POOR EXECUTION OF CUSTOM APPLICATION THAT DELIVERS HIGHLY RECOMMENDED CANCER REGIMENS BASED ON SPECIFIC GENETIC MARKERS

The success of different cancer treatment regimens is highly idiosyncratic and depends on the interaction of many genetic factors. Oncologists need a better way to access and analyze clinical data on the growing number of therapies so they can identify treatment plans with the best chance at success. Our client had been working on a potential solution that took advantage of the enormous quantity of clinical data they had access to as a large drug distributor: a precision medicine application that would scan cancer treatment regimens and recommend those that have been most successful for patients based on their highly specific genetic markers.

But despite the solution's promise, the development team had been facing a number of challenges with the architectural and engineering aspects of developing and integrating the new platform. By the time Aspirent arrived on the scene, eighteen months had elapsed since the project launched—halfway through the company's mandated deadline for bringing innovation initiatives to market.

SOLUTION: INTUITIVE ANALYTIC PLATFORM THAT MATCHES 100+ GENOMIC MARKERS AND INTEGRATES WITH MULTIPLE APPLICATION ACROSS DEPARTMENTS

Aspirent was originally brought in to support the solution architecture, but it quickly became apparent that more expertise—and product leadership—was required. We ultimately took charge of the development team, which we restructured to address the project's shortcomings. The newly reorganized team was able to:

- Build an analytic engine that matches queries to patient records for 127 different genomic markers
- Create an intuitive user interface that integrates with other applications used by physician teams, including a chemotherapy dosing database and several lab company ordering platforms
- Ensure secure communication and handling of sensitive health records, including creating, updating, and deleting
- Perform user testing and clinical validation of treatment plans

RESULTS:

Under Aspirent's leadership, the reorganized development team was able to deliver the solution well within the company's timeline with overwhelming physician support for the beta product.

8 MONTHS

Delivered fully functioning MVP within eight months: well within the company's timeline for innovation initiatives.



Overwhelming positive feedback: The physicians' responses have been significantly positive to the beta product.



General Availability: Due to the overwhelming positive responses, the beta product is now poised to move on to the general availability phase.