Showcase Project / Case Study

Background: Our customer sells drug dispensing robots to pharmacies, there are many different kinds and versions of robots most of which are controlled by different operating systems. These operating systems need drug information to run the robots efficiently and accurately. Each operating system gets drug information from a different source and takes it in in a different manner. Drug data can be inconsistent, inaccurate, unavailable or missing from source to source.

Approach: Our solution was to create a cloud hosted Drug information master data repository.

Solution: We mentored a new Product Owner and helped the customer decompose the overall solution, determine an MVP, and build out an agile rapid release backlog. We configured a new Azure Cloud environment and determined the best and safest way to get multiple sources of data there. We designed a schema to land and merge disparate data sources. We added code to enforce and enhance data quality. We developed an API layer on top of the master data repository to make it easy for operating systems to consistently access Drug information and manage version and release control. We built in an automated testing framework from day one to help ensure that only high quality data was allowed into the repository and monitor its continuous availability.

Results: We quickly got a mock API into the hands of the robot operating system teams so they could begin their engineering work in parallel as we work on the MVP. This helped get the product to production more quickly and provided a valuable agile feedback loop that helped refine the design of API iterations. The robots were able to migrate without disruption to a common set of Drug information with consistent, higher quality and more extensive data. We'd impressed leadership with our speed and quality consequently asked to take on a project to build a User Interface application to support the maintenance of drug information. This is our first customer and has been a great partner for 2+ years. Cetus Digital knows how to get digital done right!

From the Customer

"I had a fantastic experience working with the Cetus Digital's product engineering team. Their expertise, professionalism, and commitment to excellence were outstanding. They understood our goals, delivered a high-quality software solution on time, and exceeded our expectations with their technical skills and attention to detail. I highly recommend Cetus Digital for great software solutions. Thank you, Cetus Digital team, for your exceptional work!"

Peter Saad, Director Product Development, Parata Systems