



Case Study: Application Modernization Legacy to Cloud/Web-Based Application

PROJECT BACKGROUND:

Our client was using an application which had been originally developed as a prototype several years prior. The application supports the process of onboarding new agents which requires completion of specific tasks and trainings typically tailored to each agent depending upon their organizational and functional role. Due to regulatory requirements, it is critically important for our client to track and attest to completion of tasks such as verification of citizenship, work status, background & drug testing and various compliance and system trainings. While the existing application was being used by some individual departments, it did not meet the needs of every group, was not functionally complete and had run its course in terms of maintainability, scalability and support. A replacement was sorely needed that would meet the needs of the enterprise in order to ensure compliance to all requirements as new agents are onboarded.

OUR SOLUTION:

Vertisystem engaged with the client gain an understanding of current application usage, challenges/shortcomings, and desired future needs. Based on this initial discovery engagement, Vertisystem provided a prioritized plan for development of a new cloud & web-based application.

Using an Agile/Scrum based approach, Vertisystem worked in a highly collaborative way to develop detailed user stories and design requirements for the new system. Vertisystem managed the entire process of delivery of the new application through development, testing & deployment. Our team consisted of the following roles:

-) Scrum Master
-) UI/UX Designers
-) Front-End Developers
-) Backend Developers
-) QA/Testers
-) DevOps Engineers

The new application is a web-based application deployed in the cloud and based upon the following technologies:

-) Google Cloud Platform; AWS; Azure
-) ReactJS; HTML; CSS; Angular
-) JAVA 11; Spring Boot; Python; SQL; API-Driven; Sonar Qube
-) PostgreSQL; Oracle; MYSQL
-) Git; Jira; Agile
-) Source Clear / OAuth/ SAML/Discovery Page
-) Big Query; CloudSQL
-) Google StackDriver/Kubernetes; Docker
-) Google Compute Engine (GCE); Google Cloud Storage (GCS); Google AppEngine (GAE)
-) AWS EC2 S3; MSFT Azure; Google Fire Base

BUSINESS RESULTS:

From the point of initial request through assignment and completion of all customized onboarding tasks & trainings, our client is able to fully manage, review and report on the onboarding status of all new agents across the entire organization and confidently attest to completion of all tasks. Many of these activities were previously tracked through a combination of the prototype application, e-mail and individual spreadsheets. The new application workflow allows our client to request onboarding, gain required approvals, create a custom onboarding task list and monitor progress via various custom dashboards & reporting capabilities. Our client now has extreme confidence in attesting compliance for all new agents and meeting their regulatory commitments.