



senryo

THE THOUGHT BEHIND THE SOLUTION

Case Study: Application Development

How A Government Organization Streamlined Data Processing Using A Custom App

Organization

A government organization that oversees the design, construction, maintenance, and management of public infrastructures

Solution

Designed a custom application that adapts to changing business needs and enables “data entry at the source” to eliminate data duplication

Challenge

Modernize a decade-old data processing application with many bugs and data duplication issues due to its unsupported legacy technology

Benefits

Real-time data availability, better user interface, more streamlined operation and user experience, and scalability

The client is a government organization that oversees the design, construction, maintenance, and management of public ways, transit stations, streetlights, traffic signals, signs, pavement markings, and streetscapes for sustainable infrastructure design and development. They work to ensure that these infrastructures function safely and efficiently and all projects are on track.

Challenges

The organization was using a decade-old application, Project Data Systems (PDS), for handling construction data. Because the application was developed 10 years ago using Visual Basic—a Microsoft de-supported product line—fixing application bugs had become tedious without patches provided by the vendor. Likewise, the source code for the application had not been documented and was therefore inaccessible.

The application functionalities did not meet the current business requirements. For example, projects with funding sources other than those specified in the Menu could not be accommodated in the system. Also, the application's reliance on duplicate data entry and multiple data handling points made it cumbersome to process the data and ensure data availability for daily operations.

Solution

Senryo Technologies redeveloped the Project Data Systems (PDS) as a web application using Oracle APEX as the RAPID Application Development Technology using Oracle database. The approach is to design a solution that can easily adapt to changing business needs and eliminate the duplication of data entry and multiple data handling points by enabling “data entry at the source.”

Benefits



Enabled centralized, web-based access, giving remote users access through their browsers



Provided a single integrated system for the entire business process



Eliminated data entry overhead with better data quality and reliability



Enabled real-time data availability



Enabled users to handle the process faster using robust, user-friendly interfaces



Removed clutter and redundancies, thus promoting a more streamlined operation and a better user experience



Made the solution scalable and integrable with GIS application



Senryo Technologies, an industry recognized solutions integrator, is committed to delivering transformational solutions that meet and exceed business-driven objectives while providing strong ROI metrics. We achieve this through a collaborative process with our customers, leveraging existing IT investments and new technologies to deliver results aligned with strategic initiatives and objectives. Our proven experience and thought leadership empower customers through better operational performance, mitigated risk, and improved governance.