



# senryo

THE THOUGHT BEHIND THE SOLUTION

Case Study: Application Development

## How a Government Organization Integrated Module Functionalities and Eliminated Manual Process Dependency Using a Custom App

### Organization

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

### Solution

Replaced the old module with a new module that can integrate functions and offer new functionalities while retaining the existing, necessary functions

### Challenge

Lack of integration functionalities, data redundancy, and dependency on manual paper forms from a legacy application's module

### Benefits

Enabled the creation and management of various business elements in the system and allowed data-capture and report-building

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 previously had a VB-based application with various vulnerabilities, inadequacies, and security susceptibilities. One of these apps, the Streets module, was used in the project management phase (when a request becomes a project). The module lacked the capability to support the integration of its functions; i.e., Crew Front-End Scheduling and Crew Worksheet Entries.

As a result, business users needed to manually fill out paper forms, and data entry needed to be duplicated into the system during processing. This resulted in tedious backlogs and a significant lag in data availability. Moreover, the system was susceptible to redundant isolated data captures in disjointed systems or modules.

## Solution

Senryo Technologies proposed a redeveloped system where the Streets module would be replaced by a Construction module. This new module—while still offering various functionalities currently offered by the VB application—can handle all the construction data for projects, eliminating the need for similar redundant modules.

The Construction module can also serve as a project costing and tracking system. It offers functionalities to create, update, and manage the master data for various entities and activities related to project execution.

## Benefits



Managed employees or staff, crews, assignments, makeups, and schedules



Managed materials and rates, as well as equipment and rates



Managed titles, activities, and units of measure



Managed programs, projects, and permits



Created and managed front-end schedules



Captured crew worksheet data from the source (through web forms)



Managed vendor information



Enabled report building



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.