

Federal eStretch Redevelopment

General Services Administration (GSA)

DATA MANAGEMENT



PROJECT DETAILS

DIFFICULTY: Medium

COST: \$350,000

TIMEFRAME: 2023 - 2025

DELIVERABLES: Maintain the current data visualization format with minor adjustments and add recommended columns. Redevelop all data pull and addition functions in App Script to enable seamless automatic updates.

CORE COMPETENCIES:

- Data Management
- Data Analysis
- Data Visualization
- Data Update Automation

PROJECT TEAM

Vision Planning and Consulting

CLIENT CONTACT

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PROJECT OVERVIEW

VPC was assigned by the General Services Administration (GSA) to redesign and modernize the Leasing eStretch system with the aim of improving overall efficiency and implementing automated update processes. This project involves revamping the existing system to streamline workflows, reduce manual effort, and ensure seamless data updates.

PROJECT SUMMARY

The Federal eStretch Redevelopment Project initiated with the involvement of the analyst team and the federal branch, facilitated under the GSA Region 9 READ. During this phase, extensive discussions were held to determine the structure and content of the dataset, which would be used to track and display information including project number, area manager and project manager for the project, the location of the project, and the important milestone dates for the projects. The team worked together to decide which columns in the Google Sheet should be retained, added, or removed to ensure the data was presented with clarity, and that the data was relevant and usable. These decisions were critical in setting the foundation for the data sheet's functionality and overall utility.

Once the team finalized the column structure, it became VPC's responsibility to update and maintain the Google Sheet. This task involved creating a user-friendly format and incorporating advanced functionality to handle the complex data requirements of the project. The Google Sheet was designed to leverage intricate formulas and Google Apps Script to streamline operations and enhance efficiency.

One of the key features of the Google Sheet was the integration of data from multiple external sources, including the government databases REXUS and GREX. These integrations were

crucial for maintaining the accuracy and comprehensiveness of the data within the sheet. Additionally, custom Apps Script code was developed to implement dynamic data-sorting capabilities. This functionality allows users to sort data on specific tabs based on applied filters, offering a more targeted view of the dataset. A notable feature of this system is its adaptability—when new data is added to the sheet, the script can be executed again to reorganize and sort the dataset seamlessly within the existing framework. This ensures that the sheet remains up-to-date and maintains its structured, user-friendly format, even as the dataset grows.

One key issue encountered in this project was the behavior of Google Apps Script when handling large datasets. The script would fail unpredictably, leading to occasional data inaccuracies. To address this, I implemented a solution where the script processes the data in smaller chunks, effectively preventing the issue from recurring.

The Google Sheet created for the Federal eStretch Redevelopment Project serves as a robust tool for managing and analyzing large datasets efficiently. It reflects a blend of technical expertise and a deep understanding of the project's goals, ultimately supporting the broader mission of the federal branch and the analyst team.