



## Project Title: Rate Scraper

### Executive Summary & Scope

The Rate Scraper automates the end-to-end process of collecting, compiling, and formatting the latest interest rate data from three external sources:

- FRED (Federal Reserve Economic Data) API for Treasury rates
- CME (Chicago Mercantile Exchange) website for SOFR term rates
- FHLB (Federal Home Loan Bank of Boston) website for downloadable Excel rate sheets

Automated browser interaction via playwright and chromium to reliably extract web-based rate data from CME and FHLB without user intervention. The script fetches the latest available data, formats it into a standardized table, and exports a professional Excel report (with PDF conversion) for internal distribution.

### Benefits and Potential Gain(s)

The prior solution used Alteryx, which required:

- Manual preparation of historical rate files in Excel
- Complex and fragile workflows prone to user error

Benefits of the New Approach:

- **Fully Automated** – No manual input or file prep required
- **Faster Execution** – End-to-end in under a minute
- **Reliable and Repeatable** – Consistent results across runs
- **Secure & Auditable** – API-based pulls and timestamped exports

### Deliverable(s)

Daily PDF Rate Report

## Process Flow:

