

# Mortgage meets modern .NET

Upgrading a legacy loans platform to .NET 8.0 using GitHub Copilot and Gen AI for a leading mortgage lender

## Summary

Sonata partnered with a leading U.S.-based mortgage lender and servicer to modernize its legacy loans platform. By leveraging Amazon Q, GitHub Copilot and Generative AI, Sonata delivered a seamless upgrade from .NET 4.x to .NET 8.0—resulting in 30% savings in time and effort, up to 5x performance gains and enhanced scalability and maintainability through modern architecture.

## Client Overview

The company operates in the mortgage lending and servicing industry, specializing in the origination and servicing of U.S. mortgage loans, along with managing investments tied to the U.S. mortgage market.

Headquarter  
**California**

Revenue  
**\$1.6 billion**

Presence  
**4,000+**

## Pressure Points

The client's legacy Loans platform, built on .NET 4.x, needed to be modernized to align with evolving technology standards. The system was dependent on outdated libraries, impacting performance, maintainability and scalability.

## Solutions

Sonata executed a strategic upgrade of the Loans platform to .NET 8.0 using advanced tools such as Amazon Q, GitHub Copilot and Generative AI. The modernization included refactoring 36 projects, eliminating deprecated dependencies, implementing best practices like modular architecture and removing dependencies.

## By the numbers

**30%** reduction in time and effort for the upgrade

**Up to 5x** increase in request throughput

**30%-50%** reduction in memory usage