



# Accelerating Growth Through Modern Architecture

## SUMMARY

Our client runs an all-in-one software platform designed specifically for assisted living, memory care, and residential care communities. Its 14 integrated modules streamline operations, simplify compliance, and support caregivers every step of the way. In 2025, they secured a majority investment from a leading tech-focused private equity firm to accelerate innovation, expand nationally, and maintain operational excellence. A critical challenge was its billing services, which relied heavily on a dynamic SQL application tied to a central SQL Server database. As the business scaled, the patch-driven process for onboarding new facilities slowed development and risked knowledge loss, since most expertise resided with just two developers. The client engaged our team to modernize this system while maintaining domain knowledge and operational continuity.

## SOLUTION

The legacy SQL application was translated into a modern REST API built in C#, with version control and change tracking implemented via git, and CI/CD introduced through BitBucket Pipelines and GitHub Actions. The internal architecture leveraged a billing function abstraction, allowing new logic to be written in C# while integrating legacy SQL processes. This approach enabled maintenance of development velocity without sacrificing domain knowledge. The application was deployed as an AWS Lambda, supported by services including RDS, API Gateway, and ECR, exposing a REST endpoint that matched the legacy stored procedure to minimize migration effort. Our team maintained consistent communication and agile practices, collaborating closely with the client to ensure smooth progress and alignment with their priorities. The client praised the team's proactive approach, and ability to deliver ahead of schedule, which successfully modernized the billing system while supporting ongoing operations seamlessly.

## RESULTS

**17,000+**

Robust test suite of over 17,000 tests ensure reliability

**200+**

Over 200 billing process functions successfully converted

**<5**

Fewer than 5 bugs reported during the entire project