

Success Academy Charter Schools

Student Management System: Going “Serverless”



Challenge

An aging Student Management System (SMS) built on a legacy .NET application infrastructure and a difficult offshore software team had combined to create a software tool that was outdated, rigidly controlled, and stuck in a largely unsupported legacy state.

Solution

First things first; stabilize the infrastructure, gain a deep understanding of application workflow, and create a knowledgebase of documentation and learning materials to support the legacy system.

Technology



Realizing there was no long-term scalability, a cutting-edge solution leveraged AWS’s Lambda for functions-as-a-service infrastructure and carved a path towards a serverless infrastructure.

The client identified a product roadmap towards a cloud SaaS solution with a hybrid blending of legacy APIs and databases with the scalability of an off-premise solution, transitioning away from an on-premise solution.

Outcomes

Utilizing AWS and an API infrastructure resulted in:

- Improved user experience, performance, and longevity
- A near serverless infrastructure with high availability and scalability control
- A revolutionary graph architecture and workflow design model lauded by AWS