Case Study

How eLearning Academy Cut Grading Delays and Scaled Feedback With Agilix's BusyBee AI, Powered by AWS Bedrock

Customer Overview

eLearning Academy is a long-standing K-12 digital learning provider serving students across multiple states. Their academic model emphasizes self-paced mastery learning, parent-supported instruction, and consistent teacher feedback delivered through the Agilix Buzz LMS.

With enrollment growth on the horizon, they needed a smarter way to scale.

The Challenge

eLearning Academy teachers were managing a complex grading reality: written assignments spanning multiple grade levels and subjects, all requiring individualized feedback. Students waited for responses. Parents checked on progress. Assignment queues kept growing.

The existing pain points:

- High volumes of written assignments requiring individualized feedback
- 2-3 day grading cycles (by the time feedback arrived, students had moved on)
- Teachers managing multiple grade levels and subjects simultaneously
- Students working independently at home needed faster support
- Growing enrollment amplifying all of the above

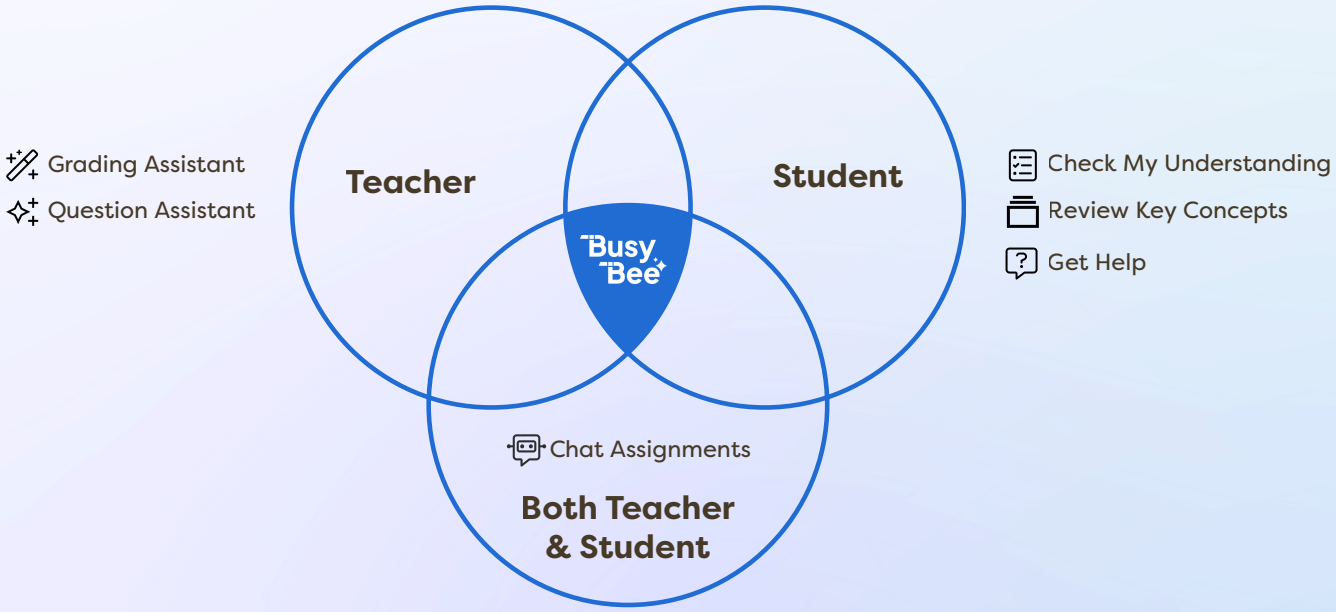
The traditional solution (grade faster, work longer hours) wasn't sustainable. Teachers were already stretched thin with repetitive grading tasks eating up time better spent on instruction. eLearning Academy needed to multiply teacher capacity without burning out their team.

Enter BusyBee: AI That Works at Teacher Speed

Built on Amazon Bedrock's enterprise AI foundation, BusyBee integrates directly into the Agilix Buzz LMS teachers already use. No new logins. No separate platforms. Just smarter workflows.

What makes it work:

- **Grading Assistant** generates rubric-aligned scoring and feedback (teachers review and approve)
- **Question Assistant** creates assignment-specific questions in seconds (saves prep time)
- **Check My Understanding** gives students instant self-assessment (reducing teacher dependency)
- **Review Key Concepts** creates study materials on demand
- **Get Help** provides contextual guidance inside lessons (24/7 student support)
- **BusyBee Chats** powers interactive, curriculum-specific learning activities



BusyBee Feature Impact

BusyBee's capabilities span teacher, student, and shared use cases. **Teacher-focused features** like Grading Assistant support instructional efficiency, while **student-focused tools** such as Review Key Concepts and Check My Understanding enhance independent learning. **BusyBee Chats** supports interactive learning for students and instructional planning for teachers.

At the center are the shared AI capabilities (content understanding, reasoning, and safe response generation) that power every BusyBee feature across the learning experience.

The Deployment

eLearning Academy deployed BusyBee across English, Social Studies, and elective courses with high writing loads.

BusyBee tools implemented:

- **Grading Assistant:** AI-generated scoring insights and feedback suggestions
- **Question Assistant:** Time-saving, AI-generated, assignment-specific questions
- **Check My Understanding:** Lesson-specific self-assessments
- **Review Key Concepts:** AI-created flashcards from lesson content
- **Get Help:** Contextual guidance inside lessons
- **BusyBee Chats:** Dynamic, content-specific chat activities

Teachers retained full control, editing or overriding AI suggestions while benefiting from significant workload reduction.

The Results: Numbers That Changed the Game

During the pilot, eLearning Academy observed immediate improvements in instructional efficiency and student engagement. Teachers reported **substantially faster grading cycles** and **more consistent rubric-aligned feedback** across courses. Students benefited from **quicker responses and clearer guidance** on how to improve their work. The use of BusyBee's self-assessment and study tools also increased student engagement and independence, reducing the number of help requests and allowing learners to progress at a steadier pace.

80-85%
Reduction in teacher grading time

<24 hrs
Feedback turnaround improved from 2-3 days to under 24 hours

50%
Increase in rate of student engagement during lesson completion

25-40%
Additional enrollment capacity unlocked

> **Our teachers love the grading assistant!**
> Teachers are telling me that it makes it so much easier to evaluate work across multiple grade levels quickly and accurately. Instead of mentally shifting gears for each class and grade, teachers get consistent, accurate grading insights that adapt to the level they're assessing."
>
> **Celeste Robichaux, eLearning Academy**

The Tech Stack

BusyBee runs on AWS infrastructure designed for scale and security:

- **Amazon Bedrock** (the AI engine)
- **Amazon CloudFront** (content delivery)
- **Amazon DynamoDB** (real-time data)
- **Amazon RDS** (structured storage)
- **Agilix Buzz LMS** (the teacher and student interface)



This architecture provides a FERPA-aligned AI experience embedded directly in the LMS. No student data exposure. No compliance headaches.

The Bottom Line

BusyBee solved eLearning Academy's scaling challenge. Teachers redirected grading time to student interaction and instruction. Students got faster, more consistent feedback. The academy unlocked 25-40% growth capacity with its existing team.

AI that integrates into your existing LMS, respects teacher expertise, and runs on AWS infrastructure? **That's BusyBee.**



Want to scale your digital learning program?

See how BusyBee's AWS-powered AI can multiply your capacity while maintaining instructional quality. Visit: www.agilix.com/busybee