

Client Story

LearningMate Partners with F.A. Davis to Transform **Nursing & Health Science Content Offerings** Through a New **Digital Product Infrastructure**

INDUSTRY

Higher Education
Publisher

SOLUTION

Digital Infrastructure &
Enterprise Architecture

PROJECT SIZE

9 Products
& 24 Titles

PROJECT DURATION

Ongoing

Background

Market drivers, such as the industry-wide shift from print to digital and smart, flexible content architectures to service different business models, are continuing to fuel technology adoptions and content development workflow overhauls. With these changes, higher education publishers are seeking smarter ways to digitize their content to meet changing student needs and fast-paced content development cycles.

F.A. Davis, a leading health sciences-focused higher education publisher, set out to digitize and transform its portfolio and expand its market presence with new digital-first products. The move to digital-first content also created an opportunity to further enhance their content to improve student and instructor engagement, gather meaningful data, and provide ways for instructors to evaluate student progress.

F.A. Davis needed a vendor to develop the technology and digital infrastructure required

to scale to their expected future growth, as well as a full-service partner to help them navigate through the entire digital journey. After a careful evaluation of a number of suppliers and consulting firms, they selected LearningMate – an experienced end-to-end content, technology, and engineering solutions provider for the education industry.

“F.A. Davis reduced its time to market from two years to six months, enabled a quick launch of nine new products and 24 titles, and established a strong digital textbook and stand-alone product offerings.”

The Solution

LearningMate started by designing a comprehensive digital roadmap and a scalable digital infrastructure for F.A. Davis' complete range of content delivery needs. Leveraging existing framework components to accelerate software development, LearningMate managed and engineered the entire enterprise-level digital infrastructure development from the ground up and scaled the technology to meet their specific needs.

Using a framework-based model, the digital infrastructure provided a single platform for developing all custom digital products and enabled the F.A. Davis editorial team to easily construct, customize, publish, and deliver a variety of products. LearningMate's framework, QuAD, served as a centralized platform to author, collaborate, edit, and preview assessment content. At the same time, the multi-channel delivery platform and delivery engines for homework assignments, assessments, and other supplemental materials allowed the publisher to package, export, and publish content through a unified, extensible content structure. To modernize its content, LearningMate also built and enhanced digital assessment products, a wide range of homework products, and supplemental materials for courses.

The digital architecture also focused on shared microservices for gradebooks, user management, and collaboration across multiple products. This included developing an administration portal and a repository to store digital content. The solution provided the publisher with a wide range of product customization options, including a launch URL, LTI export, theme/branding, assets bundling, custom course management, custom syllabus, and grade reporting. LearningMate also built comprehensive data analytics and reporting features to assist instructors with real-time student analysis and guide students to appropriate practice exercises based on the learning strategy.

Using industry standards to maintain the ease of integration, the infrastructure was engineered to seamlessly integrate with F.A. Davis' existing systems and third-party products by leveraging standards such as IMS Caliper®, and IMS LTI®, and the publisher's subscription management and e-commerce systems. LearningMate also implemented an OAuth single sign-on (SSO) mechanism using OAuth 2.0 specifications. Looking ahead, this future-ready digital and architectural transformation will enable F.A. Davis to continue on its path of innovation as it explores the power of artificial intelligence to process vast amounts of data about learners, teachers, and teaching and learning interactions.

Impact & Outcomes

By leveraging LearningMate's technology frameworks, F.A. Davis received a modern, digital infrastructure that scaled with their digital growth and reduced their time to market from 2 years to 6 months, quickly launch nine new digital products and 24 titles, establish strong digital textbook and stand-alone product offerings, and gather critical data about product usage on a broader scale.

Since the start of the exciting journey with F.A. Davis, LearningMate has continued to evolve and

maintain the entire infrastructure by ensuring the architecture meets the rapidly changing technology advancements, conforms to accessibility standards, and adheres to current best practices. LearningMate also enhances F.A. Davis products with the latest technologies to meet increasingly complex and sophisticated requirements emerging from the higher education market.

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