

SUCCESS STORY

Training in Foreign Languages (TIFL)

Training enables consistent, confident global performance.

Company Name

FUSO

Industry

Automotive

Location

Japan

Impact

AI-driven global workforce enablement

Application

Web Application

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A CASE STUDY

Background

Mitsubishi Fuso Truck and Bus Corporation (MFTBC) operates in a highly regulated and technically intensive automotive environment, where employee training and certification readiness play a critical role in maintaining quality, compliance, and operational excellence.

A significant portion of MFTBC's workforce participates in exam-oriented training programs governed by standardized content and evaluation formats. These programs are essential for skill validation and readiness but are traditionally delivered in a single primary language, creating challenges in a globally distributed and linguistically diverse workforce.

While training material was comprehensive and technically accurate, language proficiency increasingly influenced training outcomes, leading to uneven participation, slower comprehension, and higher manual effort for training teams responsible for content preparation and assessment management.

MFTBC required a solution that could improve learning effectiveness without modifying standardized content, while also ensuring scalability, governance, and operational reliability suitable for an enterprise environment.

Solutions

Cubastion designed and implemented TIFL (Training in Foreign Languages), a GenAI-powered internal training and mock examination platform that transforms static training material into an adaptive, multilingual learning experience.

The platform was built to operate entirely within MFTBC's enterprise ecosystem, ensuring security, scalability, and alignment with internal IT standards.

Document-Driven Training Intelligence

- ② Training documents are uploaded once into the system
- ② AI processes documents to extract domain-specific knowledge
- ② Automatically generates:
 - Questions
 - Answer options
 - Detailed explanations

This eliminated the need for manual question creation and content duplication.

Adaptive Assessment Engine

- ② Uses an FSRS-based algorithm to dynamically adjust question difficulty
- ② Prevents repetition of questions
- ② Focuses on reinforcing weak areas
- ② Maintains exam-oriented assessment discipline

Multilingual Learning Experience

- ② Questions, answers, and explanations are translated dynamically
- ② Learners can select their preferred language
- ② Source content remains unchanged and authoritative

Explainability-First Design

- ② **Every question includes:**
 - Explanation of why the correct option is correct
 - Explanation of why incorrect options are incorrect
- ② Timer pauses during explanation to reinforce learning over speed

The Impact

The implementation of TIFL delivered measurable and operationally relevant outcomes:

Reduced Manual Effort

~80% reduction in manual effort for content preparation

Faster Test Creation

~60% faster test creation and refresh cycles

Quicker Evaluations

~70% reduction in evaluation turnaround time

Higher Completion Rates

~2x improvement in learner participation and completion rates

Challenges Faced

Business Challenges

• Language Barriers

Training outcomes were impacted by language proficiency rather than subject knowledge

• Manual Content Effort

High manual effort required to create and maintain multilingual training material

• Static Assessments

Static mock exams failed to adapt to individual learning progress

• Limited Scalability

Limited scalability of training programs across regions

• Low Engagement

Inconsistent learner engagement and completion rates

Technical Challenges

• Mixed Content Formats

Source training material existed in structured and unstructured document formats

• Manual Question Creation

Question creation and translation required significant manual effort

• Non-Adaptive Assessments

Lack of adaptive difficulty resulted in repetitive assessments

• Multilingual Accuracy

Ensuring semantic accuracy across languages, particularly for Japanese content

• Explainable Learning System

Requirement for an explainable system suitable for exam-oriented learning

Key Areas of Expertise Demonstrated

• Enterprise Generative AI Engineering

Designed and operationalized AI-driven document intelligence, automated question generation, and contextual explanation engines aligned with enterprise standards.

• Advanced Adaptive System Design

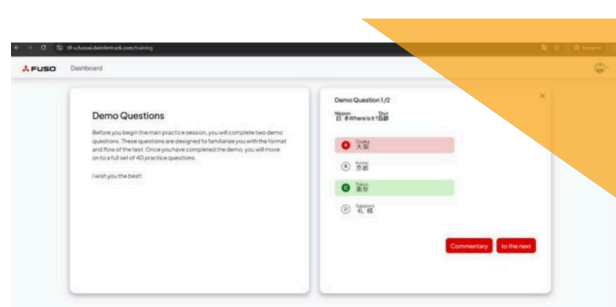
Built a real-time performance-based assessment engine enabling personalized difficulty progression while maintaining evaluation integrity.

• Cloud-Native & Scalable Engineering

Architected a secure, containerized, microservices-based solution capable of handling enterprise-scale concurrency.

• Secure & Governance-Aligned Implementation

Ensured role-based access control, enterprise authentication integration, and compliance-aligned AI deployment.



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