ASIMOV

Our Agentic Framework for Legacy Migration

Digital Innovation Partner

4400+
Global Team Members

1500+
Projects Delivered

25+
IP Accelerators

170+
Clients (Long-term Relationships)

INDUSTRY CERTIFIED

ISO
9001:2015

ISO
27001:2013

ISO
27701:2019

CMMI
V2.0 Level 3

PCI DSS
Compliant

HIPAA
Compliant

Backed by Capital Square Partners, TA Associates, True North and CPPI

US-headquartered Tech Services firm with 100% focus on Innovation & Product Engineering

HOW WE WORK?

Data at Heart
Accion Labs reimagines the possibilities for digital transformation from innovation to growth

Digital in Thinking
Scalability, manageability, robustness, and efficiency are always our top priorities

Innovation in Approach
Everything is planned to minute detail, ensuring high-quality deliveries to clients every time

Fastest Growing Tech Services Firm for 5 years in a row. Organic Growth & 9 Capability-centered acquisitions

Emerging Tech first approach - AI/GenAI Applications, investments in IP, Tooling and Innovation

Culture of Outcome, Transparency, Work-life Balance, Innovation & Lifelong Learning

Hands-on Management with Entrepreneurial, Engaged and Value-based Leadership Style

Global Presence and Business Overview

4400+

Global Team Members

23+

Global Delivery Locations

34+

Proprietary IPs Developed

41+

Centers of Excellence Driving Innovation

50+

GenAI Implementation Delivered

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Microsoft credentials and awards

Microsoft

Microsoft Partner

Winner

2023 Partner of the Year

Analytics Award

Microsoft
Solutions Partner

Data & AI
Digital & App Innovation
Infrastructure

Fabric Featured Partner

Microsoft

Microsoft Partner
Microsoft
Advanced Specialization

Analytics on Azure
Data Warehouse Migration to Azure
Kubernetes on Azure
Migrate Enterprise Applications to Azure
Infra and Database Migration to Azure

Amongst Top Microsoft Partners in USA

Microsoft Partner
Microsoft

Gold Cloud Platform
Gold Application Development
Gold Data Analytics
Gold Data Platform
Silver Security

Microsoft Partner
Power BI

AWARDS FINALIST
Microsoft Partner of the Year 2020
APPLICATION INNOVATION

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Introduction to ASIMOV

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What We Offer

Up to 70%
reduction in migration time

Up to 60%
reduction in migration cost

Highly maintainable future ready code

Zero **cloud dependency** on migrated code

Source code, test cases, **documentation**

Excellent code **quality**, **optimized** code

Note: The savings are benchmarked for 1 million lines of standalone code. The exact saving can be determined post the "Discovery & Analysis" Phase.

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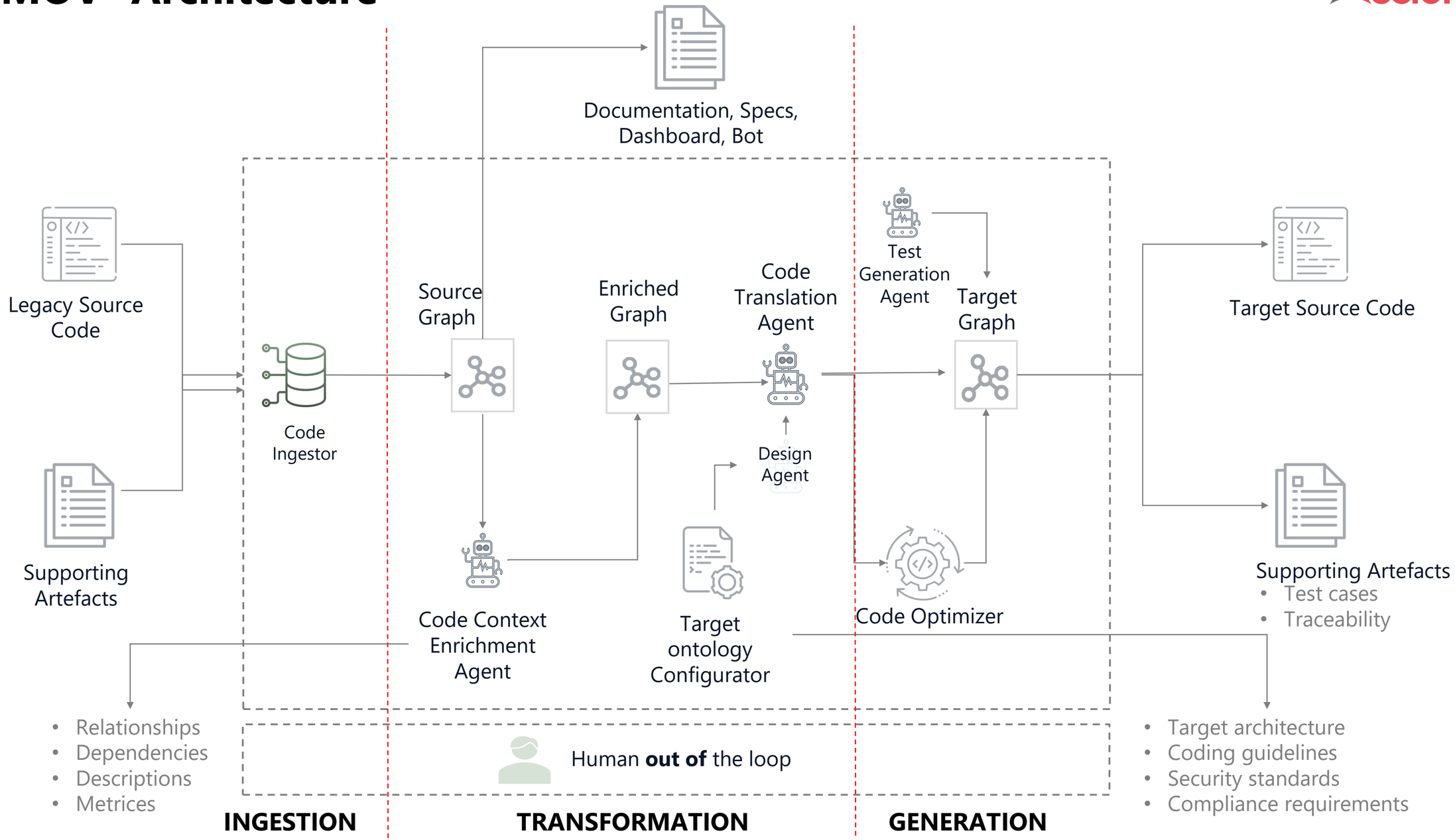
ASIMOV- Architecture



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Migration & Modernization Approach

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Analysis & Planning → Design & Development → Testing & Validation → Deployment

Expert Analysis

Agent Customization

Agentic Execution

Expert Validation

Customer Review and Deployment

Code Ingestion

Enrichment Agent (Context Building)

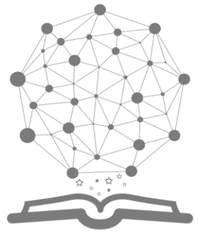
Design Agent (Re-Architecture)

Translational Agent (Code Generation)

Validation Agent (Test Generation and execution)

Expert Review and Validation

Deployment (CI/CD Automation)



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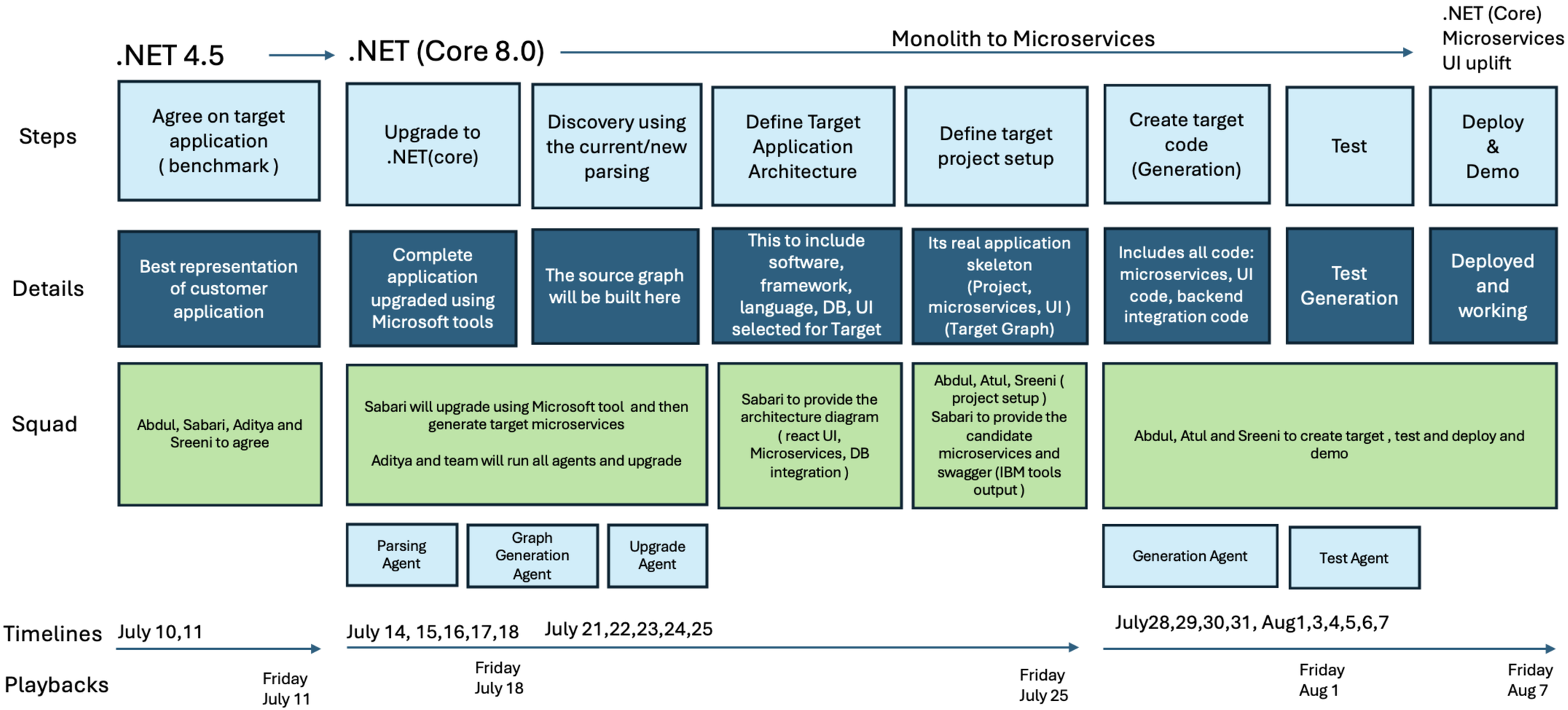
Monolith to Microservice Migration Sample



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Migration Progress Tracking

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.NET 4.5 to 8.0 Migration Monitor

Last updated:

78.5%	1,247	8,932	156	23	92.3%	12/15	86.4%
OVERALL PROGRESS	FILES CONVERTED	METHODS MIGRATED	LIBRARIES UPDATED	ERROR LOGS	AVG CONFIDENCE	MICROSERVICES	TEST COVERAGE
↑ 5.2%	↑ 124	↑ 892	↑ 12	↓ 8	↑ 2.1%	80%	↑ 3.2%

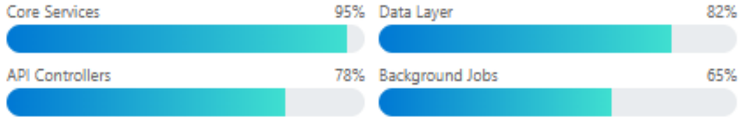
File Conversion Details

File Name	Type	Status	Confidence	Lines
UserController.cs	Controller	Complete	98%	542
PaymentService.cs	Service	Complete	95%	1,203
DataRepository.cs	Repository	In Progress	87%	892
EmailHelper.cs	Utility	Complete	92%	326
CacheManager.cs	Service	In Progress	78%	445
LoggingMiddleware.cs	Middleware	Complete	96%	178
AuthService.cs	Service	Complete	94%	667

Library Migration Status

Library	Old Version	New Version	Status	Impact
Entity Framework	6.4.4	Core 8.0	Migrated	High
Newtonsoft.Json	12.0.3	13.0.3	Migrated	Low
AutoMapper	9.0.0	12.0.1	Testing	Medium
log4net	2.0.8	Serilog 3.1	Migrated	High
Unity Container	5.11.1	MS DI 8.0	In Progress	Critical
System.Web.Mvc	5.2.7	ASP.NET Core	In Progress	Critical
FluentValidation	8.6.2	11.9.0	Migrated	Low

Component Migration Progress

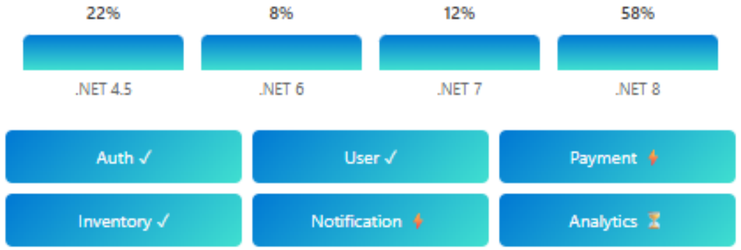


Total Classes	2,456
Converted Classes	1,928
Total Methods	11,342
Async Methods	3,456
Unit Tests	4,567
Integration Tests	892

Method Conversion Analysis

Method	Class	Type	Complexity	Status
ProcessPaymentAsync	PaymentService	Async	High	Converted
ValidateUser	AuthService	Sync→Async	Medium	Converted
GetOrderHistory	OrderRepository	LINQ	High	Review
SendEmailNotification	EmailHelper	Async	Low	Converted
CalculateDiscount	PricingEngine	Pure	Medium	Converted
HandleWebSocket	RealtimeService	Async	Critical	Pending
ProcessBatch	BatchProcessor	Parallel	High	Testing

Framework Distribution & Microservices



Recent Errors & Issues

CRITICAL	PaymentGateway.cs: Async pattern failed	2h ago
WARNING	LegacyAdapter.cs: Deprecated API	5h ago
INFO	ConfigManager.cs: Manual review needed	1d ago

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CodeMap Explorer UI

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Case Studies

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Legacy to Modern Technology (Delphi to .NET 8 & React)

Overview

A **leading European education-technology provider** that processes payments, data and communications for **11,000+ schools and universities**.

Key Challenges

- Nearly 3 million LOCs (Delphi) could not scale to the cloud or deliver the rich browser experience
- Scarce Delphi talent slowed defect resolution,
- Manual modernization failed and program terminated after 1 year

Business Impact

60%

Reduction in cost

Improved

User Experience

85%

Unit Test Coverage

About the Client

Education Technology

Europe

1100+ employees

Payments, Communications, Data, Catering, MIS

Solution

- Our agentic - driven migration framework ASIMOV **auto-generated clean C#/. NET Core APIs and a React application**.
- Relationship-heavy data was re-modelled in Neo4j.
- Dedicated privacy agents enforced field-level encryption and anonymization throughout the extract-transform-load process.

Deliverables

- Cloud-native C#/.Net application
- **AI generated automated Unit test** with 85% coverage
- Accessible, responsive portal for students, staff and administrators

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Technology Version Upgrade (Java 8 to Java 21)

Overview

A widely-adopted inventory and warehouse-management platform serving manufacturers and distributors worldwide, processing millions of transactions daily.

Key Challenges

- Critical services still ran on, out-of-support Java 7.
- Security patches had ceased
- Performance lagged as volumes grew
- Lack of automated unit test coverage

About the Client

- Supply Chain
- Global
- 100+ employees
- Inventory Management / Supply Chain Software

Solution

- An LLM-assisted upgrade pipeline **automatically scanned one million lines of code,** pinpointed deprecated APIs and produced modern Java 21 equivalents.
- Refactoring and container-ready builds were rolled out in staged waves
- **Automated unit test** generated in jUnit5

Business Impact

75%

Reduction in security vulnerability exposure

Improves

Operational efficiency

Reduced

Downtime & Losses

Enhanced

Customer Satisfaction

Deliverables

- Java 21 codebase with **automated API tests**
- Updated **code documentation** for complete code base

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Re-architecting Legacy (VB.Net to .Net Core)

Overview

A global logistics provider offering services in multimodal transport, container freight stations, and contract logistics.

Key Challenges

- Legacy application with monolithic, tightly coupled UI and business logic.
- Difficult to scale, maintain, or enhance due to outdated architecture

Business Impact

50%
Faster Delivery

Lower
Maintenance cost

Enhanced
Developer Productivity

Future-Proof
Cloud-agnostic Scalability

About the Client

Logistics

180+ countries

5000+ employees

Multimodal Transport, Container Freight Stations (CFS), Contract Logistics, Project Logistics.

Solution

- Applied a GenAI-agentic approach to analyze and modularize legacy VB.Net code
- Migrated UI to React for a modern web experience
- Backend restructured into .NET Core modules with clear separation of concerns

Deliverables

- Modular .NET Core backend and React-based frontend
- Automated toolchain for code analysis and transformation
- Technical documentation

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Thank you.

Enhancing Lives by Transforming Businesses through Innovation

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