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eMACH.ai Islamic Banking

Intelligent, Ethical, and Shariah by design

Islamic Banking Reimagined

While the industry approaches its 50-year milestone, it has grown into a USD 6 trillion global industry, operating across 140+ countries. With this maturity comes a new set of structural, operational, and Shariah-aligned complexities that Islamic banks must address to sustain growth, resilience, and innovation.

To grow sustainably, banks need platforms that deliver:

- Shariah integrity and regulatory compliance/ adherence
- Operational transparency at scale
- Architectural flexibility to evolve progressively without disruption

This is where Islamic Banking platforms must move beyond mere flexibility and deliver end-to-end capabilities with certainty of delivering business impact and superior customer experience.

Challenges in Islamic Banking today

55% of banks recognise that the limitations of legacy systems are their biggest roadblock to transformation. Islamic banks face persistent, interlinked constraints that shape strategy and technology needs:

Outdated core systems and rigid architecture

- Inflexible product configuration frameworks
- Limited extensibility for ecosystem and partner integrations
- Monolithic, non-cloud systems that limit change

Limited agility and innovation

- IT budgets consumed by legacy maintenance rather than digital innovation
- Absence of API-first, cloud-native architecture
- Complexity in running Islamic and Conventional models together

Manual processes and siloed data

- Manual processes for profit distribution and Zakat calculations
- No real-time visibility into asset and pool performance
- Spreadsheet-driven operations with reconciliation delays
- Lack of end-to-end automation in financing workflows

Shariah and regulatory compliance complexity

- Country-specific Shariah interpretations
- Long implementation cycles for policy updates

eMACH.ai Islamic Banking, AI-first purpose-built with end-to-end Islamic functionality

AI-first. Shariah by design. Composable by architecture. Comprehensive by coverage.

Our platform is designed, architected, and purpose-built for Islamic Banking. It is a cloud-native, microservices-based solution designed for excellence on a future-proof technology foundation that combines Shariah integrity, architectural flexibility, and enterprise-grade performance in a single, unified proposition, not a patchwork of legacy systems.

The solution is built to automate Shariah-compliant operations and enables modular adoption across regions without compromising integrity, control, or trust.

Designed, developed, implemented and supported by Intellect

What Sets the solution apart

Purpose-built, not a patchwork

- Built in alignment with AAOIFI standards recognised and supported by regulators and financial institutions across 45+ countries
- True functional breadth with complete modules for Retail, SME and Commercial banking
- Supports all Islamic operating models with country-level configurability
- Deploy a full Islamic banking or standalone modules such as Pool Management or Islamic Financing without forced backend dependencies
- Automated profit sharing from calculation to approval and distribution
- Smart Shariah Accounting with configurable accounting entries aligned to prescribed Shariah guidelines
- eMACH.ai's headless architecture ensures seamless integration with any digital banking platform
- DIY functionality support and template-driven configuration; make changes to journeys on the move
- Easy integration with third-party FinTechs
- 24/7 real-time processing

Comprehensive offering for Retail, SME & Commercial banks

Intellect Design Arena's eMACH.ai Islamic Banking delivers an end-to-end Islamic banking suite that caters to every aspect of retail and corporate banking. This comprehensive suite includes:

Core Transaction Engine

- Ensure quick go-to-market with DIY configurable Current/Savings/Wadiah Accounts and Islamic Deposits (Mudarabah)
- Enable template-based customer onboarding, real-time ledger management, contextual transaction routing, relationship-based pricing, and secure payments and remittances
- API-driven orchestration and AI-powered automation for faster growth and seamless integration. Enhance customer experience with personalised engagement
- Reduce risk with a real-time N-tier General Ledger, compliance-ready platform, and on-site implementation support

Islamic Pool Management

- A cutting-edge solution fully adhering to different Islamic contracts agreements and Islamic finance standards, simplifying and automating profit management
- Manage assets, liabilities, revenues, and expenses within multiple pools
- Calculate and distribute profit across all depositors with flexible profit calculation methods for early deposit breaks
- An embedded AI engine and analytics that provide forecasting and accuracy
- Zakat Management
- Built-In Provisioning (IRR)
- Profit Equalisation Reserve (PER)

Islamic Financing

- End-to-end credit lifecycle management across personal, SME and asset-based needs
- Supports key Islamic instruments- Murabaha, Operating Ijarah, Ijara Muntahia Bittamleek, Musharakah, Tawarruq, Istisna'a, and Qard Hassan
- Features robust automated workflows and asset-backed deals to Shariah-compliant contract management to ensure end-to-end transaction integrity

Islamic Trade Finance

- A cloud-ready, composable platform for paperless trade that enhances real-time processing
- It covers the entire lifecycle of trade products including Murabaha Letters of Credit, Bills, Collections, Guarantees, Trade Loans, Reimbursements, Supply Chain Financing, and Factoring/Forfeiting with multiple recourse options
- Supports intelligent workflows, document management, and imaging
- Designed to enable ESG-friendly and scalable trade digitisation

Islamic Treasury

- Fully automated, real-time, multi-asset front-to-back treasury system built on a composable architecture
- It seamlessly scales to handle USD 3.8 trillion in FX transactions and USD 10.7 trillion in daily cash flows with real-time insights on positions, risk and cash flows for informed decision-making
- With 95%+ STP and 150+ out-of-the-box APIs, it empowers banks to drive agility, resilience, and performance at scale

Digital Engagement Platform

- A unified Digital Engagement platform revolutionising how Retail, SME, and Commercial Banks connect with their customers and members
- Built with 750+ Composable User Journeys, the platform delivers seamless, contextual experience across the entire customer lifecycle across acquisition, engagement and retention
- Extensible architecture, reusable Business Rules, Workflows, APIs and AI-enabled user journeys, for personalised, omnichannel interactions
- The platform comes equipped with an Open Finance-enabled marketplace, enabling financial institutions to integrate with Fintechs, ecommerce and more

Cards

- A single, secure, connected card ecosystem built on a real-time event-driven architecture
- It enables hyper-personalised card experiences, seamless onboarding in under 120 seconds, and complete digitisation of the card lifecycle
- With rapid deployment in just 50 days, robust fraud protection, and customisable modules like Corporate Cards, Loyalty, and Collections

Payments

- A contextual real-time API-enabled platform for initiation, orchestration and execution and management
- It interconnects domestic clearing systems, supports ACH, EFT, and RTGS, and instantly upgrades payment infrastructure
- Integrated digital payment apps and in-built APIs streamline transitions to electronic channels
- It enables multi-currency cross-border payments with OFAC checks, while also offering secure e-wallets and versatile prepaid card solutions

How the platform is built- eMACH.ai architecture

Intelligent, Ethical and ‘Shariah by design’

First principles thinking based most comprehensive, composable and intelligent Open Finance platform

eMACH.ai offers modularity along with co-existence, integrating seamlessly with existing systems, allowing financial institutions to modernise without disruption. The platform is engineered to embed ethics and Shariah integrity into the technology, while delivering real-time performance at enterprise scale.

53
Events, mapped to customer and operational triggers

212
APIs, enabling easy orchestration and integration

46
Microservices purpose-built for BFSI

Why Does our Architecture Matter to the Banks?

- Microservices-based, composable services
- Intelligent platform powered by Purple Fabric AI
- Cloud-native design with elastic scale
- Database flexibility beyond single-vendor dependency
- API-first, event-driven fabric
- AI embedded in Digital Engagement Platform
- Built-in Shariah audit traceability across multiple pool ledgers
- 360° customer view across Islamic propositions
- DIY functionality support

Key value delivered

What banks gain

Faster time to market

- Faster rollout through microservices-based architecture
- Pre-integrated Islamic modules
- Vendor-owned delivery model
- 30–40% lower implementation effort
- Islamic window deployments in 6–9 months
- Faster regulatory and policy updates

Operational strength

- Very strong end-of-day processing
- Reliable, accurate postings across pools, treasury, and financing
- Enterprise-grade scalability
- Real-time operations across Retail, SME and Commercial banking

Lower risk & stronger governance

- Automated pool management replaces manual spreadsheets
- Built-in trial runs and approval workflows
- Improved Shariah compliance, audit confidence, and transparency

Long-term value & future readiness

- Reduced dependency on legacy cores
- Progressive transformation without disrupting existing platforms
- Freedom from single-database and license lock-in
- The platform evolves with changing Shariah interpretations and regulations

Digital growth & customer experience

- Hyper-personalised Islamic products and propositions
- Dynamic customer and product segmentation
- API-based integration with payments, cards, KYC, fraud, treasury, and fintech ecosystems
- Digital-first Islamic customer journeys enabled through event-driven architecture

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Why choose eMACH.ai Islamic Banking

A smarter way to build Islamic banking

A long-term technology partner

We are a future-proof technology company committed to your growth through deep, continuous R&D investment. As the owner and developer of the platform, we provide the long-term certainty needed to navigate an evolving financial landscape.

Global, proven expertise

Leverage the knowledge and experience gained from 50+ countries and Tier-1 banks. We bring proven implementation expertise across the world's most complex banking environments, ensuring your Shariah-compliant operations are backed by global best practices.

De-risked Progressive Modernization

eMACH.ai enables banks to modernize module by module, allowing for a phased transformation that avoids the risks of a "big bang" migration. This composable approach ensures you can innovate at your own pace without risking core stability.

Intellect Benchmarked and Rated on Top Repeatedly

IBS Annual Sales League Table 2025

Leader in Core Banking

Leader in Retail Lending

IBS intelligence
Global FinTech Perspectives

Recognized as a **Leader in 5 different quadrants** in Chartis RiskTech Credit Lending Operations Solutions 2025

FORRESTER®

Featured among leading vendors in Digital Banking Engagement Platform Providers worldwide in 2023 report

IDC

Intellect Design named a **Leader** in IDC MarketScape: Worldwide Cash Management Systems 2024 Vendor Assessment

Gartner

Recognized as a representative Vendor in the 2024 Market Guide for Core Banking Systems across MEA, APAC, Europe

Positioned as a **Leader** in 2025 Gartner's Magic Quadrant for Retail Core Banking Systems, Europe

CELENT

eMACH.ai DEP is identified among "Functionality Standout" for -

- Digital Banking Platform for APAC
- Small Business Digital Banking Platform: North America Mid- Sized to Large Banks 2025
- Retail Digital Banking Platforms: Europe, Middle East, Africa 2025

Awards

Global Bank Tech Awards 2025 -Best Loan Systems Provider for Retail Banking

Digital Banking Awards 2024 for Implementation Excellence at Exim Bank

Highly Acclaimed: Best Retail Banking Solutions Provider by a Vendor-Overall for NMB Bank Implementation in 2024

Information Technology (Software) Innovation 2024 for eMACH.ai Lending

The Asian Banker Global Middle East & Africa Awards 2024 Best Omnichannel Technology Implementation for implementation at Co-operative Bank of Kenya

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