NEXA CORE DEVELOPMENT

Corporate Profile & Enterprise Software Solutions Portfolio

20 YEARS OF SOFTWARE ENGINEERING EXCELLENCE (2004 – 2024 / 2026)

Nexa Core Development is a specialized software engineering firm delivering custom enterprise ERP solutions, end-to-end digital transformation, and rigorous business workflow analysis. With over two decades of continuous hands-on architecture experience, we bridge complex corporate operational cycles into scalable, automated, and high-performance digital platforms.

Custom ERP Systems Tailored corporate platforms engineered around your exact operational workflows and financial ledgers.	**Workflow Analysis** Deep systems analysis and business process modeling before writing a single line of production code.	**Digital Transformation** Modernizing legacy operations into cloud-native, real-time, multi-platform software ecosystems.

Operating Model:	Fully Online / Remote-First Enterprise Engineering (Serving Egypt, MENA & Global Clients)
Official Website:	https://nexacoredev.com
Direct Phone / WhatsApp:	+20 155 399 5515 (Direct Calls & WhatsApp Consultations)
Official Email:	contact@nexacoredev.com

1. Executive Overview & Heritage

For more than 20 years, Nexa Core Development has engineered robust, scalable, and mission-critical software platforms. Unlike traditional agencies that deliver superficial off-the-shelf templates, we approach enterprise development as rigorous systems architecture. Every business maintains distinct accounting cycles, approval hierarchies, and operational friction points. Our engineering methodology centers on thoroughly analyzing and mastering these workflows before designing the technological solution.

Remote-First Agility: Operating entirely as a modern digital enterprise, Nexa Core Development delivers agile, borderless consulting and engineering. We deploy state-of-the-art collaboration tools, continuous integration pipelines, and dedicated consultation channels to support enterprise clients seamlessly across Egypt, the Arab Gulf, and international markets.

2. Core Strategic Service Pillars

A. Systems Analysis & Business Workflow Architecture

True software efficiency starts with understanding the operational blueprint. We conduct deep analytical sessions with department heads, accountants, and operations teams to map out material flow, cashier reconciliation loops, document lifecycles, and authorization bottlenecks. The output is a clear, mathematically rigorous architecture specification that guarantees zero logic gaps upon system deployment.

- Workflow audit, bottleneck detection, and gap analysis across existing processes.
- Database entity-relationship modeling and multi-currency fiscal ledger mapping.
- Detailed SRS (Software Requirements Specification) with verified operational validation.

B. Custom ERP & Enterprise Software Development

We build bespoke Enterprise Resource Planning (ERP) engines engineered specifically to handle the unique demands of diverse industries—from clinical healthcare and multi-branch retail to container logistics and manufacturing. Built on modern enterprise stacks (Java 21, Spring Boot, React, PostgreSQL), our systems provide real-time reporting, role-based permissions, automated ledger balance integrity, and limitless scalability.

- General ledger, automated financial entries, multi-cost center accounting, and tax compliance.
- Real-time multi-warehouse inventory tracking, FEFO/FIFO stock management, and purchase workflows.
- Enterprise HR, biometric attendance integration, shift scheduling, and automated payroll.

C. Mobile Application Engineering & Innovation

We engineer high-performance mobile applications (iOS and Android) that extend corporate ERP workflows directly into the hands of field technicians, delivery drivers, doctors, and executive decision-makers. Built with native performance and offline synchronization capabilities, our apps ensure continuous operational continuity anywhere, anytime.

D. Custom Digital Transformation & Enterprise Automation

We partner with ambitious enterprises and founders to transform innovative concepts and traditional paper-based workflows into fully realized, automated digital solutions. From automated IoT gate access and cashier reconciliation engines to customer self-service portals, we turn strategic vision into robust production code.

3. Flagship Enterprise Products Suite

Nexa Core Development has conceptualized, architected, and built complete production-grade enterprise software platforms running in live commercial operations across specialized industrial sectors:

1. DENTALIS — Enterprise Dental Clinic ERP

Domain & Architecture:	Cloud-native clinic management for specialized dental centers and polyclinics. **Tech Stack:** React 19, TypeScript, Vite 8, Spring Boot 3.4.3, Java 21 LTS.
Key Features:	• **Patient 360° Record:** Complete clinical history, treatment plans, medical alerts, and photo galleries. • **Interactive Dental Chart:** Adult & pediatric digital tooth charting with real-time condition tags. • **Smart Waiting Queue & Appointments:** Multi-doctor calendars, automated SMS/WhatsApp reminders. • **Imaging & Labs:** Panoramic X-Ray DICOM viewer and external dental lab workflow tracking. • **Financial & Invoicing:** Multi-stage installment plans, doctor commission calculations, and VAT invoices.

2. IBMS — Integrated Business Management System / ERP

Domain & Architecture:	Comprehensive multi-module corporate ERP platform for medium to large enterprises. **Tech Stack:** Java 21 LTS, Spring Boot 3.4.5, React 19, PostgreSQL 16.
Key Features:	• **Financial Accounting:** General ledger, auto journal vouchers, multi-currency accounts, and balance sheet. • **Sales & Point of Sale:** Fast multi-branch sales, barcode scanning, quotation-to-invoice cycles. • **Procurement & Warehouse:** Purchase orders, supplier ledger, multi-store stock transfers, and audits. • **Enterprise HR & Payroll:** Biometric device sync, shift management, contracts, deductions, and WPS. • **CRM & Client Portals:** Lead tracking, opportunity pipelines, client interaction history, and tickets.

3. TransPorter — Container Fleet Logistics Management

Domain & Architecture:	Mission-critical logistics and container fleet management platform. **Focus:** Seaport container transport, multi-axle trailers, and clearing cycles.
Key Features:	• **Real-Time Container Tracking:** Tracking 20ft, 40ft, and reefer containers from port clearance to destination. • **Trip & Driver Dispatching:** Waybill issuance, trailer pairing, driver allowance, and route monitoring. • **Cashier Invoice Reconciliation:** Automated matching of port fees, toll charges, and driver advances. • **Customer Billing:** Detention charge calculations, automated demurrage warnings, and corporate invoicing.

3. Flagship Enterprise Products Suite (Cont.)

4. Super Sahl — Retail POS & Supermarket ERP

Domain & Architecture:	High-throughput retail management for supermarkets, grocery chains, and department stores. **Architecture:** Offline-first local database sync ensuring zero checkout downtime.
Key Features:	• **Offline-First Resilience:** Continues processing sales during internet blackouts; syncs automatically. • **FEFO Expiry Management:** First-Expired First-Out tracking prevents shelf spoilage and inventory losses. • **Scale & Barcode Integration:** Direct RS-232/IP electronic scale communication and weight barcode parsing. • **Speed Cashier UI:** Sub-second item lookup, multi-tender payments (Cash, Card, Coupons), and quick receipts.

5. Ordera — Restaurant, Cafe & Hospitality ERP

Domain & Architecture:	Specialized hospitality ecosystem for dine-in restaurants, cafes, food trucks, and multi-branch chains. **Focus:** Speed, kitchen synchronization, recipe cost control, and delivery logistics.
Key Features:	• **Visual Floor & Table Map:** Live table status (Occupied, Reserved, Billed), split checks, and table merging. • **Kitchen Display System (KDS):** Direct station routing (Grill, Bar, Pastry) with prep timer alerts. • **Recipe & Ingredient Costing:** Automatic inventory deduction per dish sold down to individual grams. • **Delivery & Takeaway Dispatch:** Driver assignment, customer phone lookup, and delivery zone charges.

6. GYM ERP — Health Club & Fitness Academy Management

Domain & Architecture:	Complete operational and membership management platform for fitness centers, gym clubs, and sports academies. **Focus:** Access security, member retention, recurring subscriptions, and facility bookings.
Key Features:	• **Membership & Package Lifecycle:** Flexible recurring plans, frozen memberships, and renewal triggers. • **Turnstile Gate Integration:** Automated RFID, biometric, and barcode turnstile barrier integration. • **Personal Trainer & Class Scheduling:** Class capacities, PT session booking, and trainer commission audits. • **Financial Cash Flow:** Pro-rated refunds, locker rental tracking, supplement store POS, and analytics.

4. Why Choose Nexa Core Development?

• **20 Years of Software Engineering Heritage:** Not a marketing agency or temporary reseller. We are hands-on software engineers with two uninterrupted decades of custom architecture and code craftsmanship.

• **Deep Business Cycle Analysis:** We do not impose cookie-cutter packages. We study your exact workflow, chart of accounts, and operational bottlenecks before formulating system specifications.

• **Zero Fabricated Claims or False Metrics:** Every capability we present is backed by real, demonstrable software systems running in live commercial operations.

• **Direct Architect-Level Communication:** You communicate directly with senior software architects and systems engineers who understand your business and technical requirements.

• **Full Intellectual Property & Customization:** Our platforms are modular, adaptable, and customized strictly to scale with your business growth without vendor lock-in.

5. Start Your Enterprise Consultation

Whether you are planning to modernize your business operations with a custom ERP platform, automate your container fleet logistics, upgrade your clinic management, or launch an innovative digital solution, Nexa Core Development is your dedicated engineering partner.

Ready to transform your business workflows?

Contact our engineering team today for an in-depth systems consultation and live demonstration of our enterprise software platforms.

Direct Phone:
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