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X-Analysis AI

IBM i Application Modernization Tools for Smarter Development

Simplify, Analyze, and Modernize Your IBM i Applications

X-Analysis AI equips IBM i developers with the tools they need to analyze, document, and modernize RPG, COBOL, and CA 2E (Synon) applications. With over 25 years of experience, X-Analysis AI simplifies complex environments, improves project accuracy, and accelerates modernization efforts.

By automating documentation, providing AI-driven insights, and enabling seamless code and database transformation, X-Analysis AI helps teams deliver projects faster, reduce risks, and align IT with business goals.

Key Features

- **Automated Documentation:** Generate clear, interactive charts and graphs to visualize application design and flow, making it easier for teams to collaborate.

- **AI-Powered Code Analysis:** Extract and document business rules and logic from RPG, COBOL, and Synon applications to improve understanding and reduce errors.

- **Impact Analysis:** Track dependencies and "where used" information across fields and variables to ensure accurate effort estimation and avoid project delays.

- **Data Model Extraction:** Extract relational data models, even from undocumented databases, to accelerate database modernization and re-engineering.

- **Design & Quality Metrics:** Measure program complexity and quality using industry benchmarks like Cyclomatic Complexity and Maintainability Index to identify areas for improvement.

- **Code & Database Conversion:** Transform legacy RPG, COBOL, Synon, and database assets into modern languages and databases with minimal risk.

Why Chose X-Analysis AI?

X-Analysis AI provides a clear, structured view of your IBM i applications, making decades of complex, undocumented code easy to understand and manage. By consolidating code logic, data models, business rules, and quality metrics into one platform, X-Analysis AI helps teams work more efficiently, deliver projects on time, and reduce risks.

"X-Analysis AI gave us high-level views of object usage, data flows and even field usage across our system, and all from a GUI, too. That makes me really happy. So that adage that a picture is worth a thousand words? For me it felt like a picture is worth a million words."

Rob McBride, Software Development Manager

UNITED HERITAGE Insurance
Dream big. Plan smart.®

Comprehensive Tools for Analysis, Development, and Modernization

X-Analysis AI delivers practical tools to simplify IBM i application management and modernization, helping teams achieve better results with less effort.

Benefits

Generate Accurate Documentation: Automatically extract and document data models, application flows, and dependencies for RPG and COBOL environments.

Understand Business Logic: Use AI to extract and document critical business rules and processes, improving collaboration between IT and business teams.

Plan with Confidence: Perform accurate effort estimation and impact analysis to reduce project delays and improve planning.
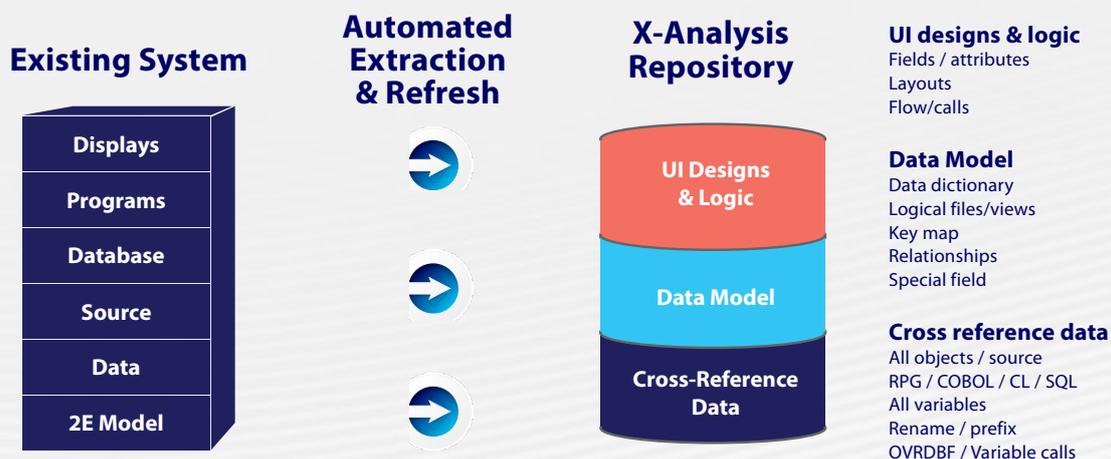
Organize Your Application Landscape: Maintain a centralized inventory of your application environment to simplify decision-making and modernization efforts.

Improve Code Quality: Audit design, quality, and complexity to identify and fix problematic areas in your applications.

Identify Technical Debt: Pinpoint inefficiencies and prioritize modernization efforts to improve application performance.

Modernize CA 2E (Synon) Applications: Extract business rules, audit code quality, and document CA 2E applications to streamline modernization.

Boost Developer Productivity: Automate repetitive tasks and provide actionable insights, enabling developers to focus on high-value work.

Existing System

- Displays
- Programs
- Database
- Source
- Data
- 2E Model

Automated Extraction & Refresh

X-Analysis Repository

- UI Designs & Logic
- Data Model
- Cross-Reference Data

UI designs & logic
Fields / attributes
Layouts
Flow/calls

Data Model
Data dictionary
Logical files/views
Key map
Relationships
Special field

Cross reference data
All objects / source
RPG / COBOL / CL / SQL
All variables
Rename / prefix
OVRDBF / Variable calls

About Fresche Solutions

Innovators in AI-powered IT modernization, Fresche manages and maximizes the value of IBM i and Microsoft business-critical systems. Our market-leading IP and proven solutions in Modernization, Managed Services, Data Analytics & AI, and Software have earned the trust of global leaders from 2,200+ companies. Learn more at www.freschesolutions.com.

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