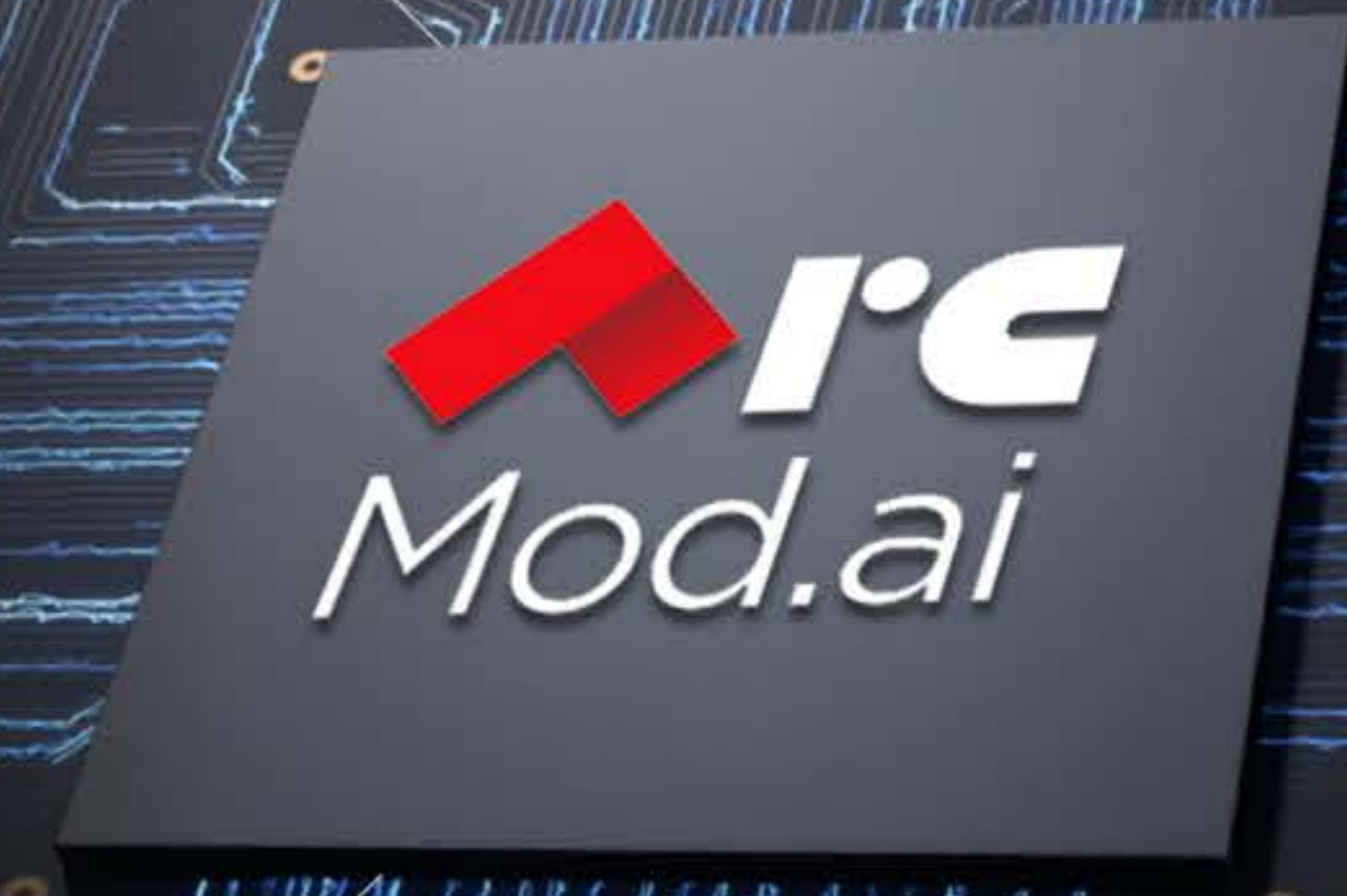


ArcMod.ai

Comprehensive Feature List

ArcMod.ai is an AI-powered architecture discovery and modernization tool that automates system analysis, documentation, and backlog generation. Below is a detailed breakdown of its powerful features:



Architecture Discovery & Documentation



4+1 View Model Generation

Automatically creates class, package, component, deployment, sequence, and use case diagrams.



Architecture Documentation (arcdocs)

AI-driven report generation for system documentation, ensuring clarity and consistency.



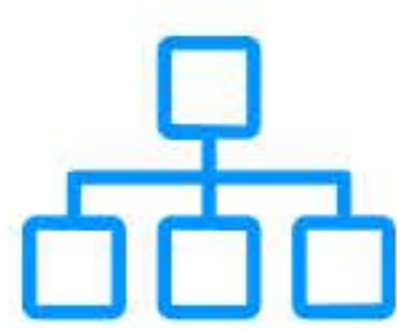
Deployment Diagram Generation

Visualizes how your system components interact in a deployment environment.



Component Diagram Creation

Illustrates system components and their dependencies.



Class Diagram Creation

Maps object-oriented structures for better understanding and design.



Technology Stack Summary

Provides insights into the technologies used across your codebase for scalability and compatibility analysis.

Code Analysis & Transformation



Code Clone (cclone)

Instantly clone GitHub repositories for easy access and workflow integration.



Code Conversion (cconv)

AI-powered conversion of code between programming languages.



Code Embeddings (emcode)

Generates semantic representations of code for better AI analysis and searchability.



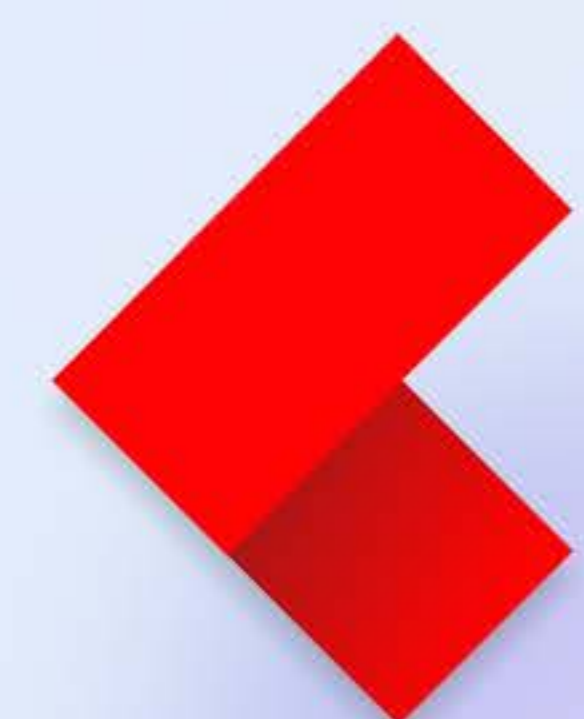
Code Summary (summary)

Extracts key performance metrics to help assess efficiency and bottlenecks.



Code Clustering & Hierarchical Code Clustering

Groups related code files for better maintainability and logical organization.



AI-Powered Backlog & Workflow Optimization



Backlog Generation

Automatically creates backlog items based on extracted system features and use cases.



Backlog Candidate Identification (backlog & backlogr)

Suggests development priorities directly from code or system requirements.



Automated Backlog Item Creation

Enhances Agile project management by streamlining backlog entries.



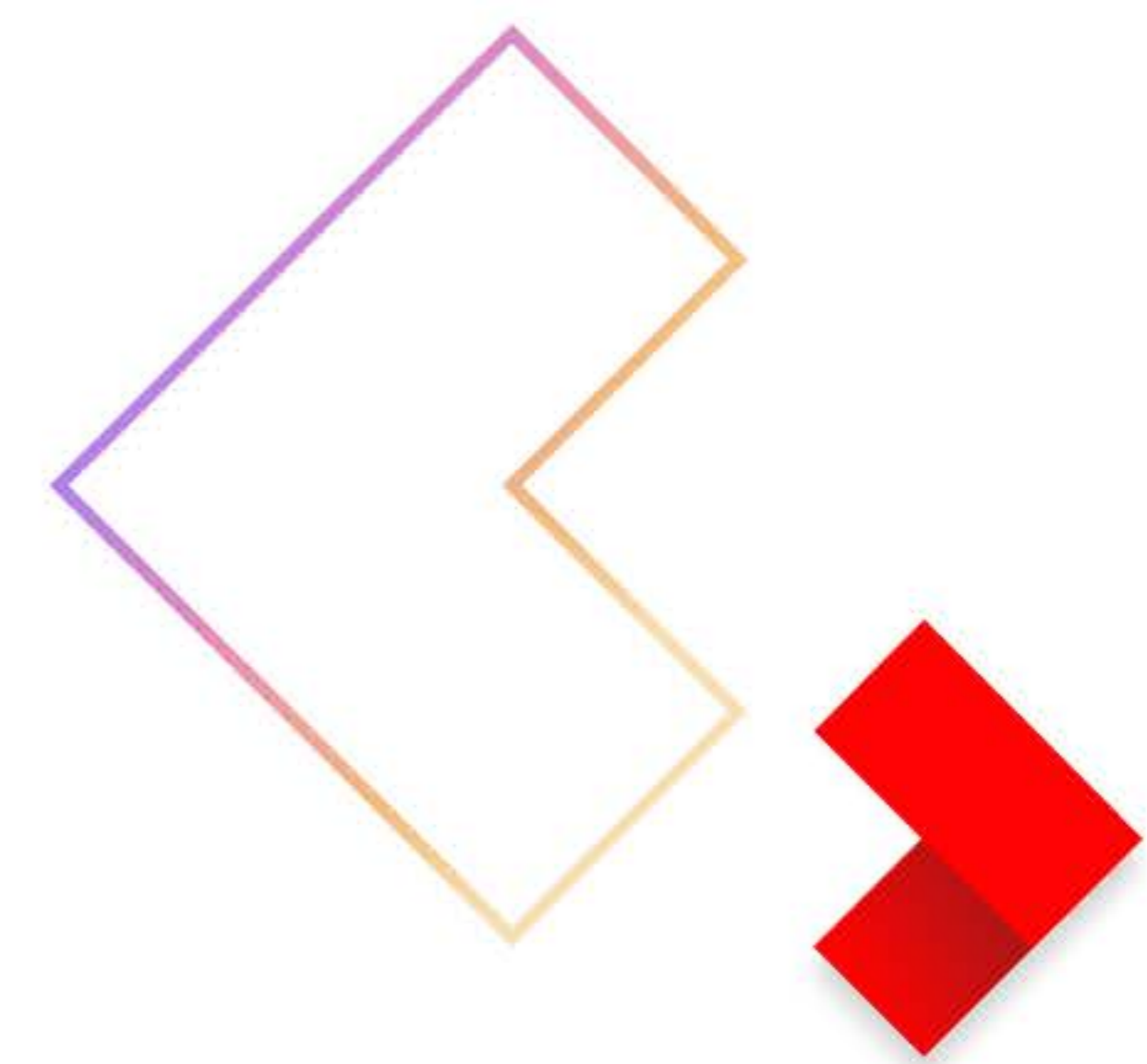
Use Case Generation from Requirements

Converts fragmented business requirements into structured use cases.



User Story Extraction

Generates user-centric requirements based on the codebase.



Wireframing & UI Optimization

User Experience Summary

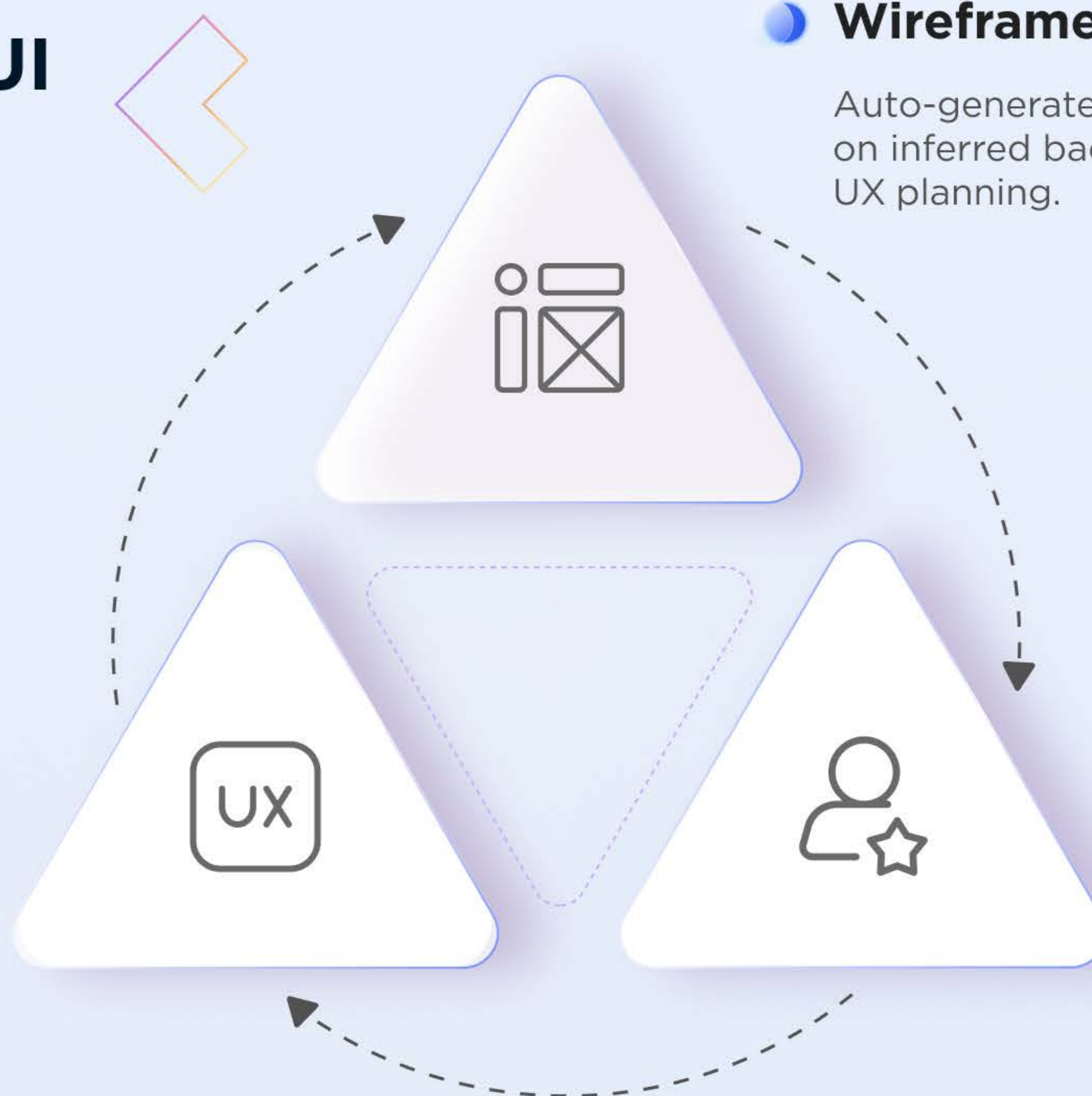
Provides a high-level overview of key functionalities and usability insights.

Wireframe Proposal

Auto-generates UI wireframes based on inferred backlog items for seamless UX planning.

Persona Extraction

Defines key user personas by analyzing system behavior and interactions.



Automated API & Design Documentation



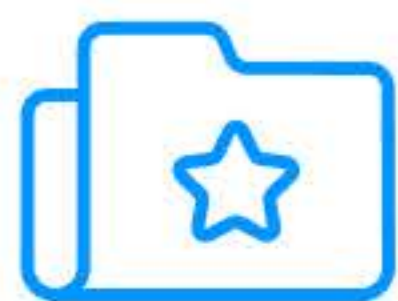
REST API Contract Generation

Documents API interactions to ensure seamless integration and clear endpoint communication.



Use Case Diagram Generation

Maps out system functionality and user interactions for better UX design.



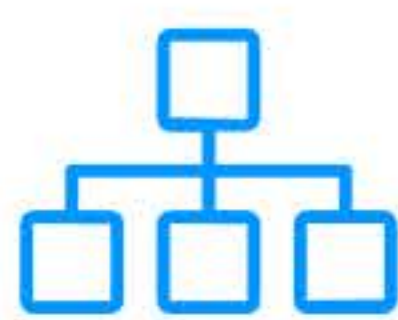
Package Diagram Creation

Visualizes software module relationships, aiding in deployment and architecture understanding.



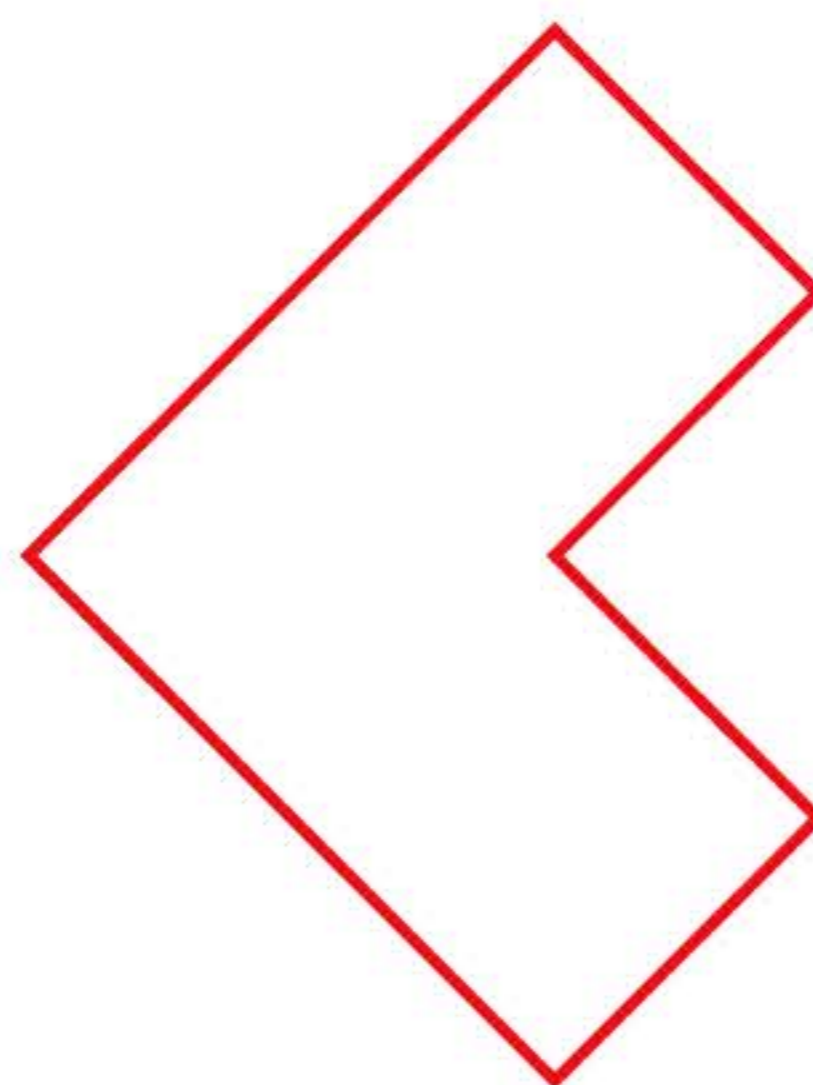
Design Pattern Extraction

Identifies reusable software design patterns to enhance maintainability and scalability.



Architecturally Significant Use Case Identification

Highlights key use cases crucial to the system's structure and performance.



AI-Enhanced Report Generation & Validation



AI-Powered Document Generation (ais_arch_docs)

Automatically compiles architecture documentation into structured reports.



Report Stitcher (rbuild)

Combines multiple architecture reports into a single, comprehensive document.



PlantUML Validation (vpuml)

Ensures UML diagrams are syntactically correct and maintain best practices.



Marketing Feature Descriptions

Generates product-centric descriptions to enhance market positioning and communication.

Why ArcMod.ai?



Instant Architecture Insights

No more manual system mapping—get clear visualizations in minutes.



AI-Powered Decision Making

Automate documentation, backlog generation, and API documentation.



Seamless Integration

Works directly with your GitHub repository and existing workflows.



Enterprise-Ready Security & Accuracy

Built-in AI guardrails ensure precision and compliance.

Ready to transform your software modernization process?

Book A FREE Assessment Today



to see ArcMod.ai in action!