전자신문

CIO Summit 2025

CIO SUMMIT 2025

2025. 2. 27.(목) | 그랜드 인터컨티넨탈 서울 파르나스







Accelerate Innovation with Low-Code x AI

outsystems

Why Low-Code?

Low-Code is TOP Priority

TOP #3

Priority for US CIOs in 2025

88%

of developers use low-code

5X increase

In LCAPs for critical projects

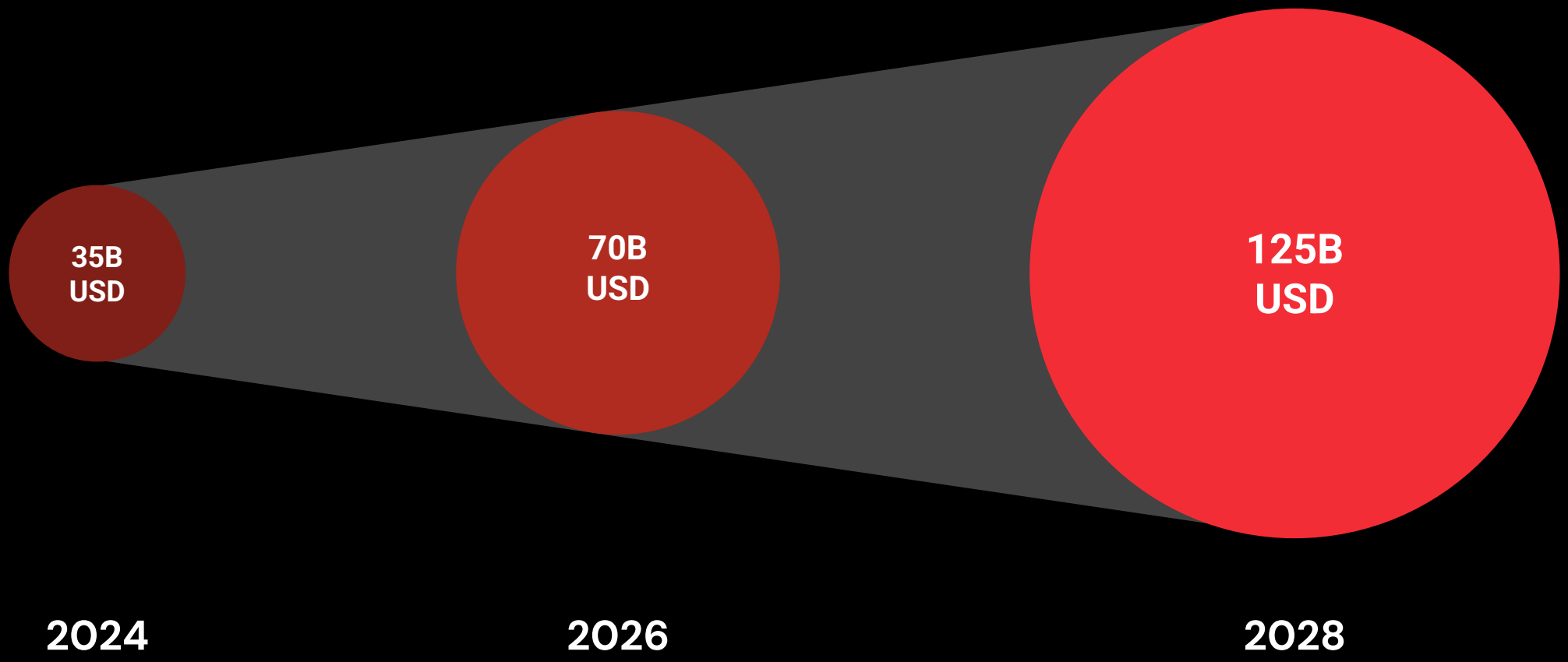
Source: Gartner, 2025 CIO Agenda: Top Priorities and Technology Plans in the United States, August 2024

국내의 개발자 부족 현상



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Low-Code Market Growth



Source: IDC's Worldwide Semiannual Software Tracker, November 2024, Worldwide Low Code, No Code, and Intelligent Dev Tech

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What is Low-Code?

Traditional Code

```
int LongestCommonSubsequenceLength( const std::string &first,
                                    const std::string &second ) {
  const std::string &longer  = first.size() > second.size() ? first  : second;
  const std::string &shorter = first.size() > second.size() ? second : first;

  int longer_len  = longer.size();
  int shorter_len = shorter.size();

  std::vector<int> previous( shorter_len + 1, 0 );
  std::vector<int> current(  shorter_len + 1, 0 );

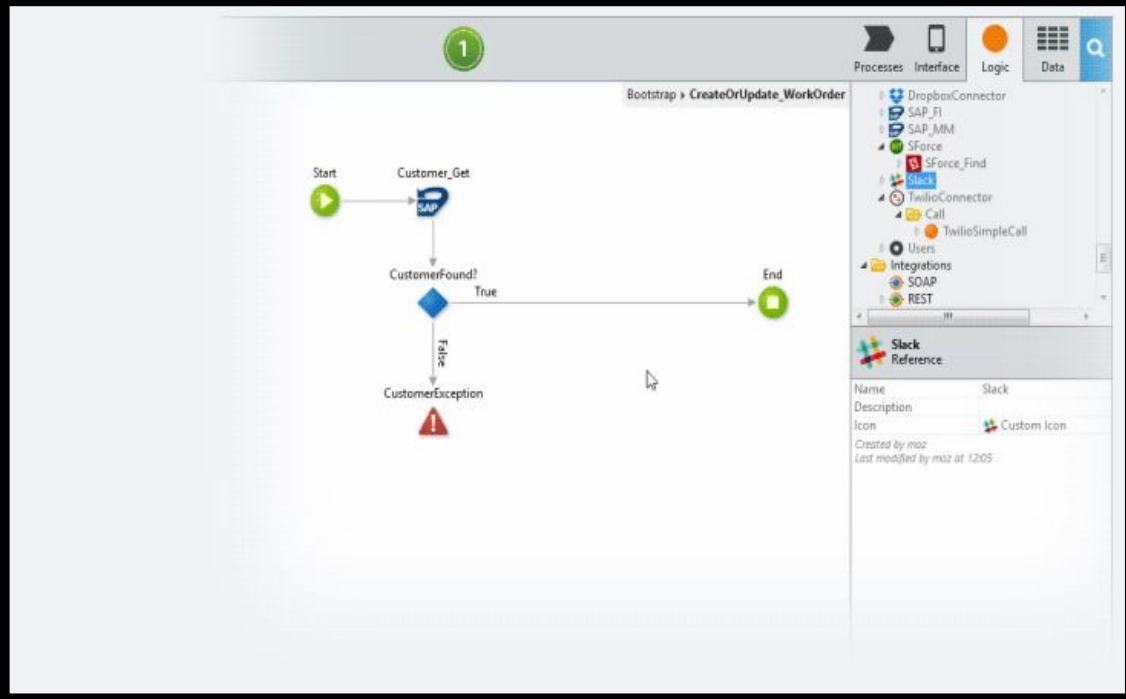
  for ( int i = 0; i < longer_len; ++i ) {
    for ( int j = 0; j < shorter_len; ++j ) {
      if ( toupper( longer[ i ] ) == toupper( shorter[ j ] ) )
        current[ j + 1 ] = previous[ j ] + 1;
      else
        current[ j + 1 ] = std::max( current[ j ], previous[ j + 1 ] );
    }

    for ( int j = 0; j < shorter_len; ++j ) {
      previous[ j + 1 ] = current[ j + 1 ];
    }
  }

  return current[ shorter_len ];
}
```

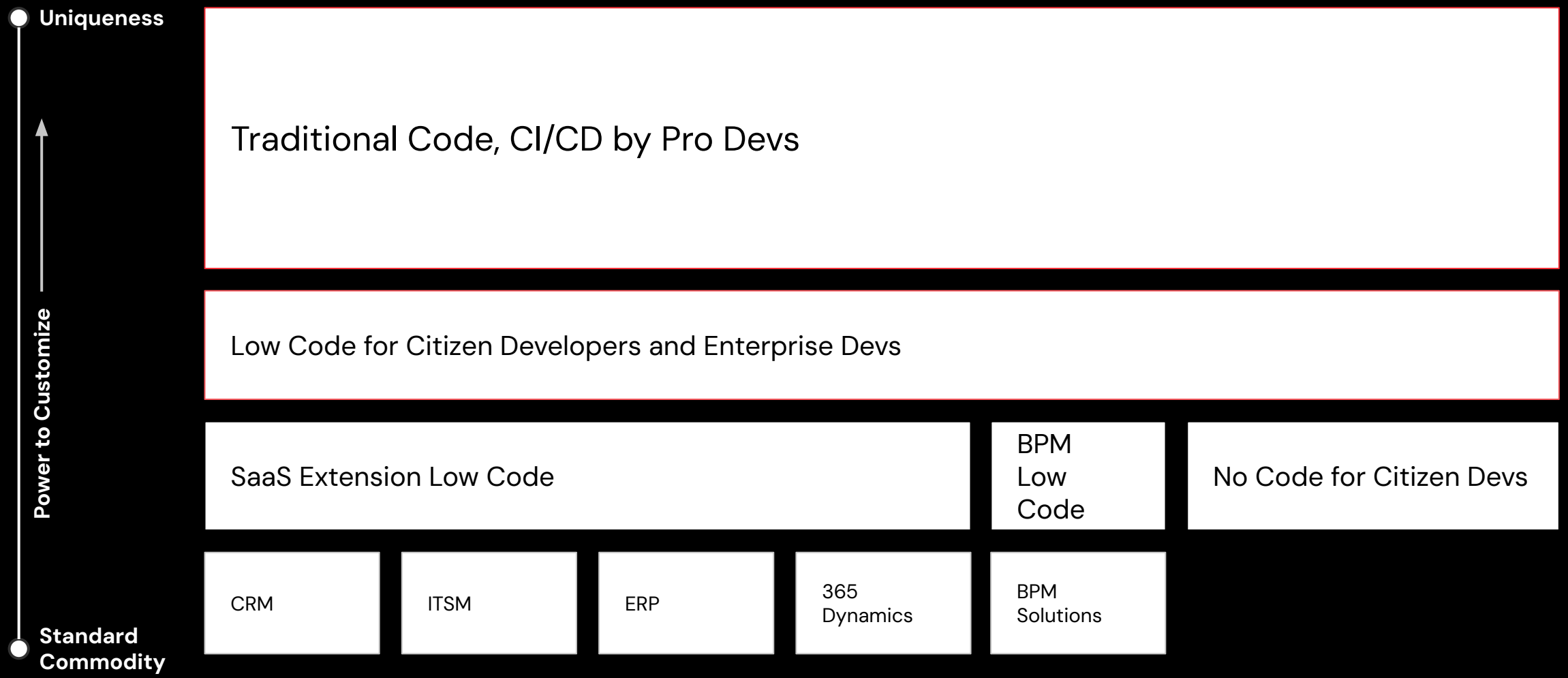
- 개발비용 높음
- 개발의 장기화
- 내용 변경이 어려움
- 엔지니어 스킬 의존 높음

Low-Code

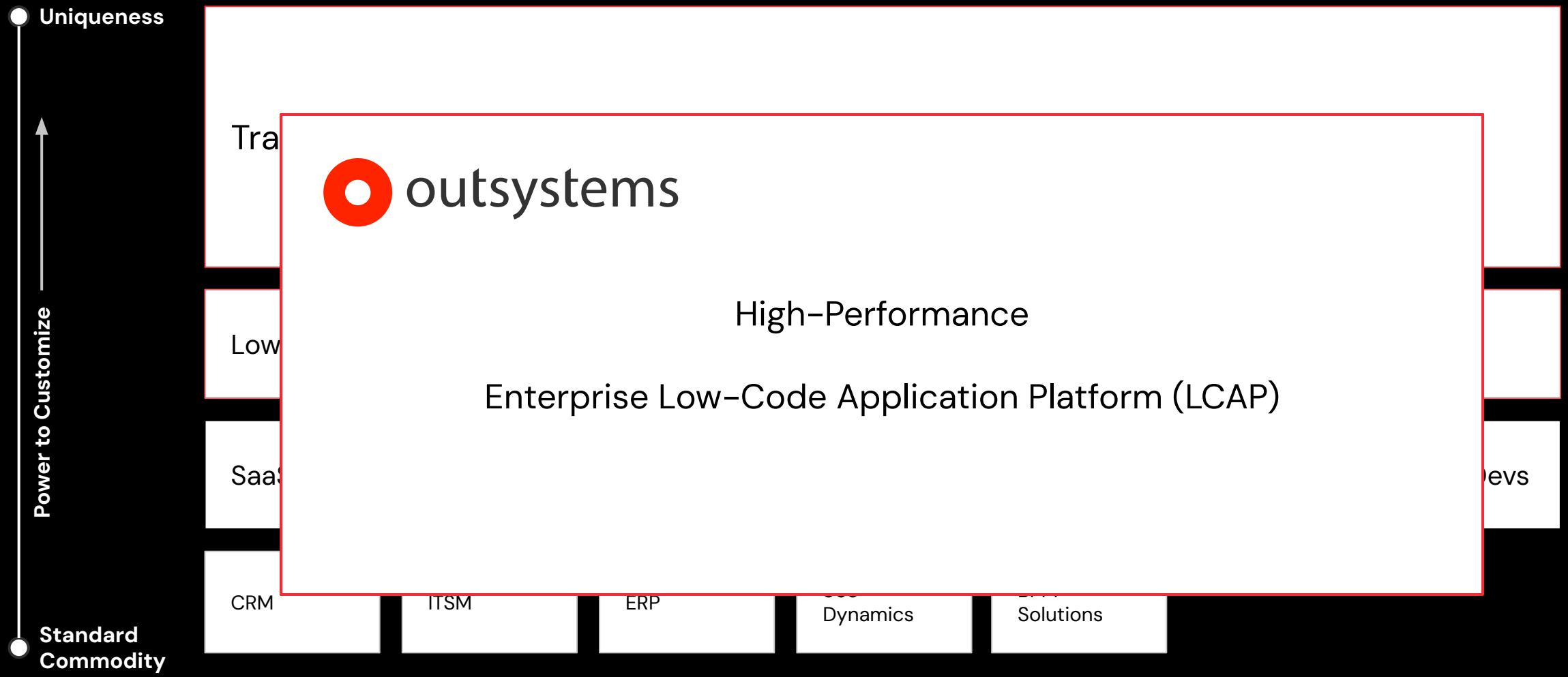


- 시각적이고 직관적인 고속 개발
- 내용 변경이 용이
- 엔지니어 업스킬 쉬움
- 코드 자동 생성

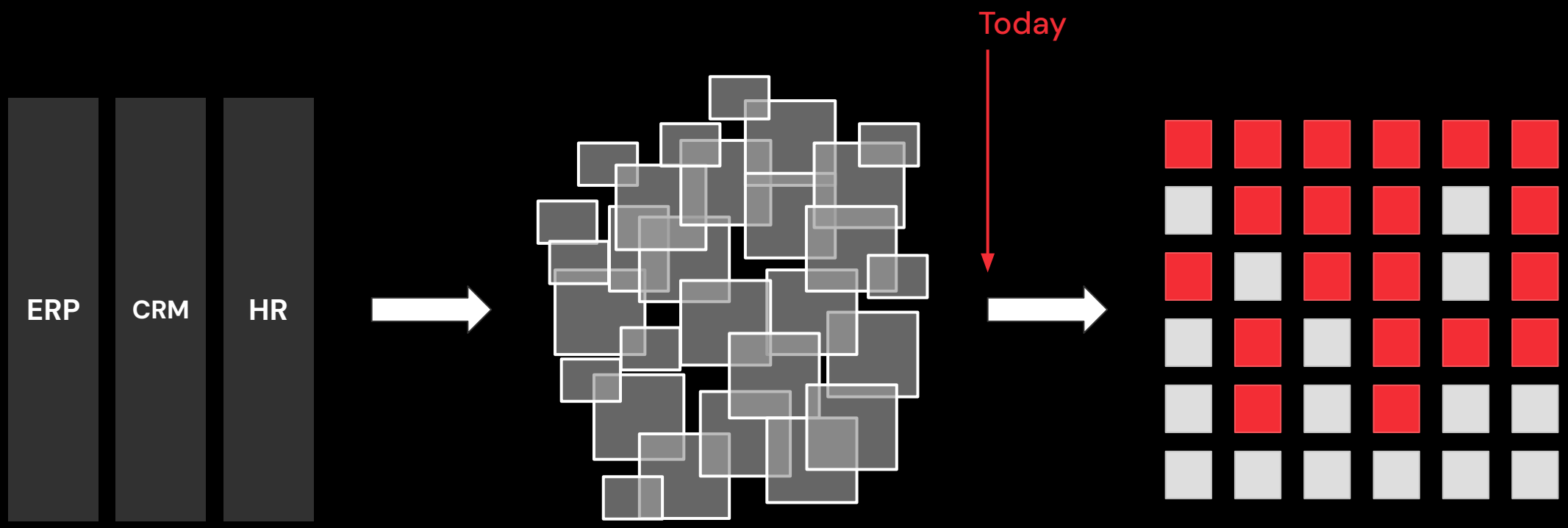
Ways of Delivering Systems



Ways of Delivering Systems



Evolution of Digital Landscapes

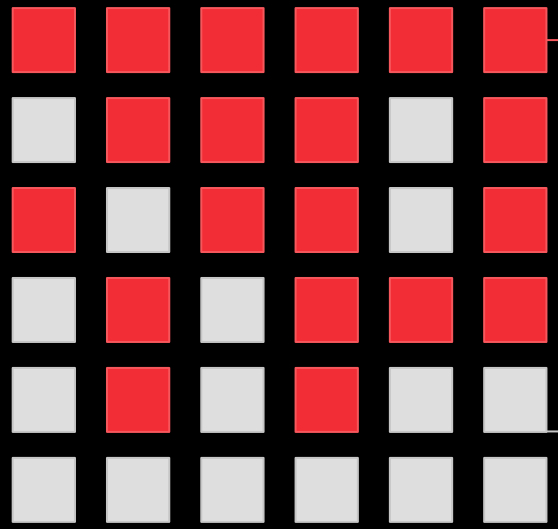


Systems of Record

SaaS Sprawl

Composite apps & services

Agile landscapes are made out of (small) parts



Composite apps & services

BUILD (Differentiation)
Web apps, Mobile apps, Automations, Workflows

BUY (Commodity)
SaaS + @

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Why OutSystems?

“The #1 Low-Code Platform®”: The Leader by Analysts

Leader in Top Rankings of Signature Industry Research - check at outsystems.com

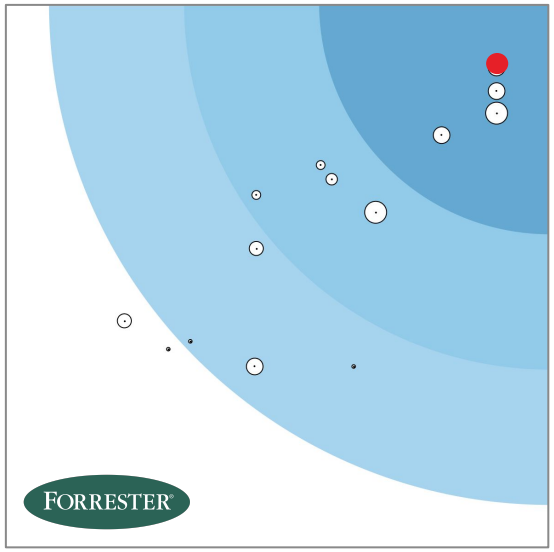
Low-Code Application Platforms



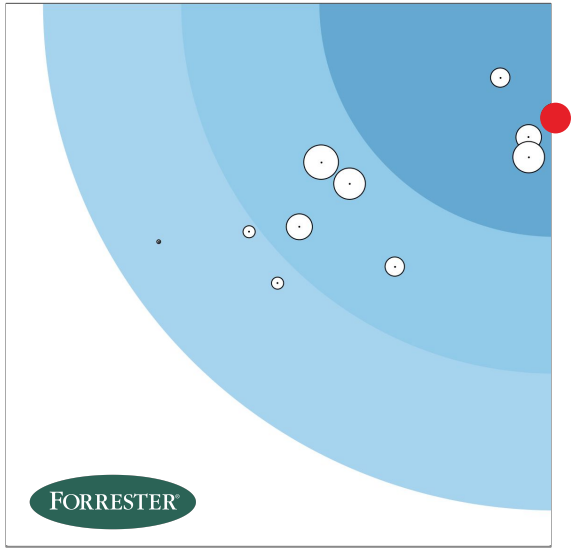
Multi Experience Dev. Platforms

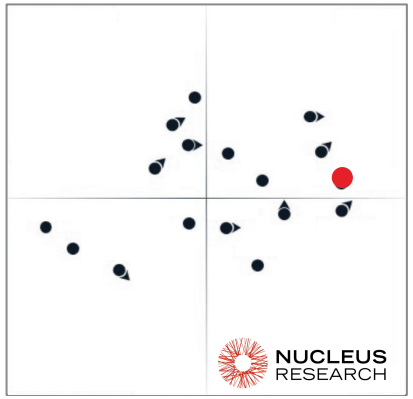


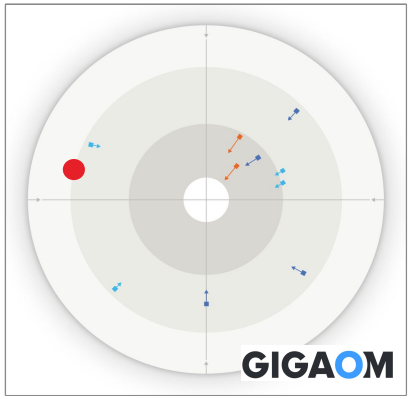
Low-Code Dev Platforms for ProDevs

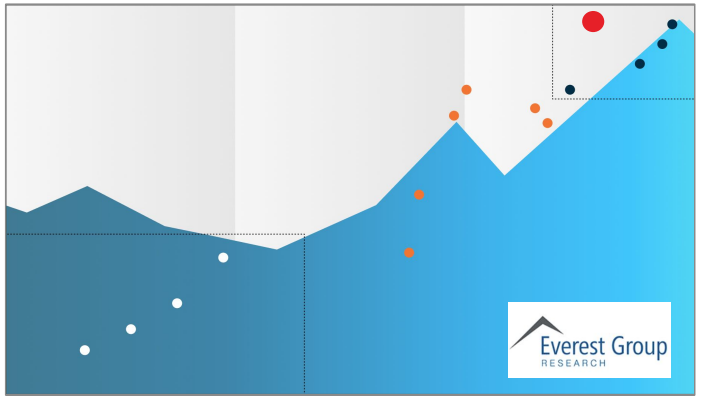


Mobile Low-Code Platforms For ProDevs









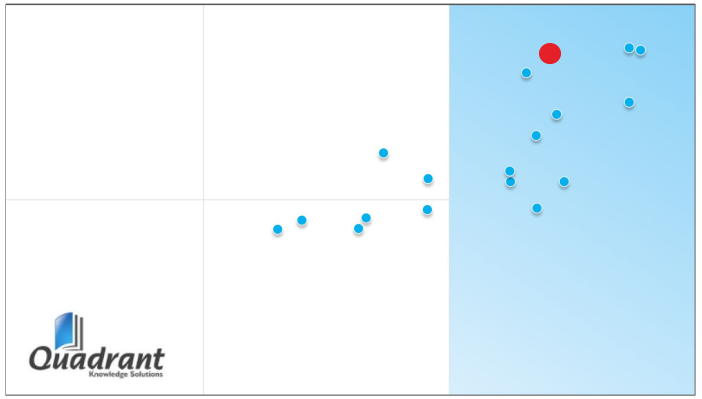


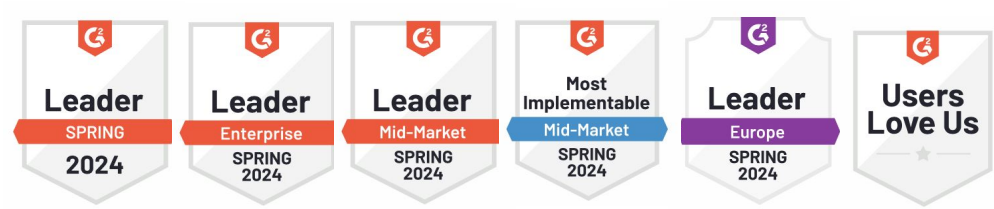
ILLUSTRATION ONLY: This is a visual summary of industry rankings performed by the various Analysts Firms. Rankings do not imply product endorsement.
For full reports check www.outsystems.com or analyst site. - Status : as of 2023Q1

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CUSTOMER RECOGNITION

Leader By Users in Satisfaction

as the #1 high-performer low-code platform in the biggest site of software users reviews (2020...24)

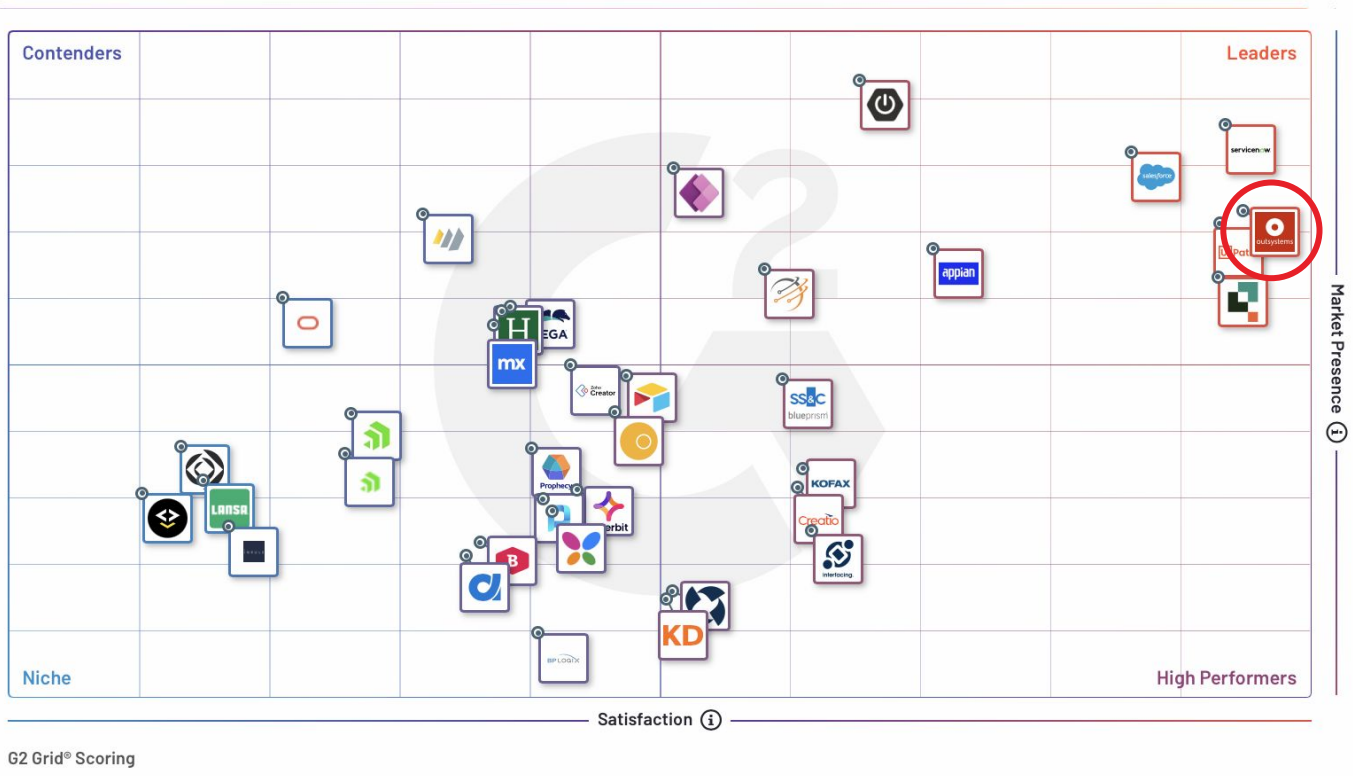


"The breadth of capabilities has allowed us to drive to our digital transformation goals much more quickly than anticipated. This has led to digitalized and automated workflows leading to improved quality, ease of use leading to an exceptional user experience, and efficiencies resulting in substantial annual dollar savings."

"폭넓은 기능 덕분에 예상보다 빠르게 디지털 전환 목표를 달성했습니다. 이로 인해 업무 과정이 디지털화되고 자동화되어 품질이 향상되었고, 사용이 쉬워져 사용자 경험이 개선되었으며, 효율성 증대로 상당한 연간 비용 절감을 이루었습니다."

5/5

David Lloyd, Director of IT, Park Industries



Grid® Report for Low-Code Development Platforms | Spring 2024

A recognized market leader



Rated #1 by customers & analysts



Pioneered the category over 20 years ago



Over 2,000 enterprise customers



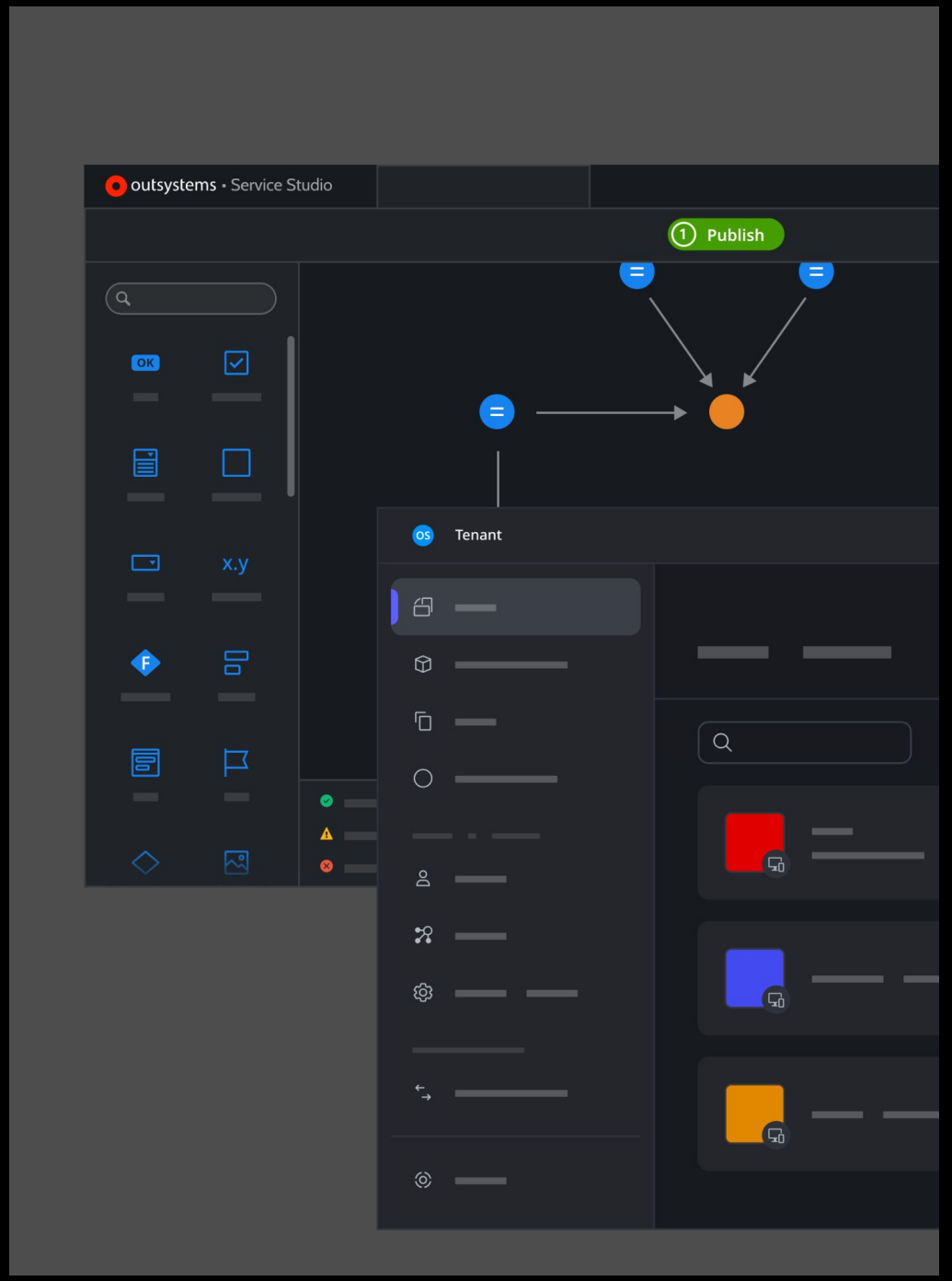
Community: 750K devs + 650 partners



Powering thousands of apps globally

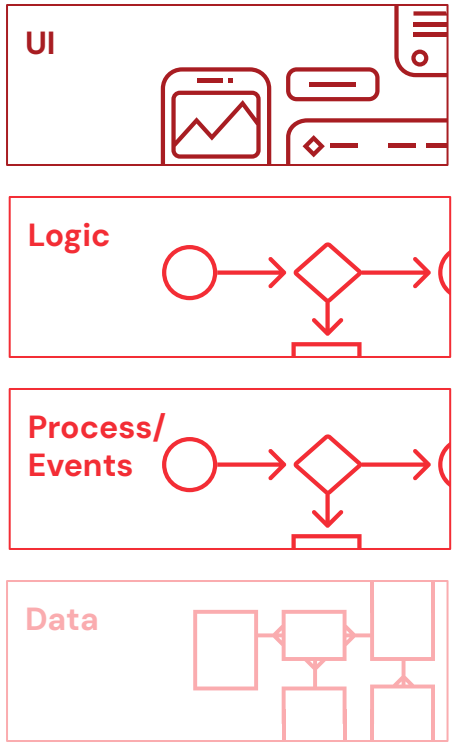
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Platform Overview



OUTSYSTEMS PLATFORM OVERVIEW

Full-Stack
Empower Developers
Extend reach outside IT

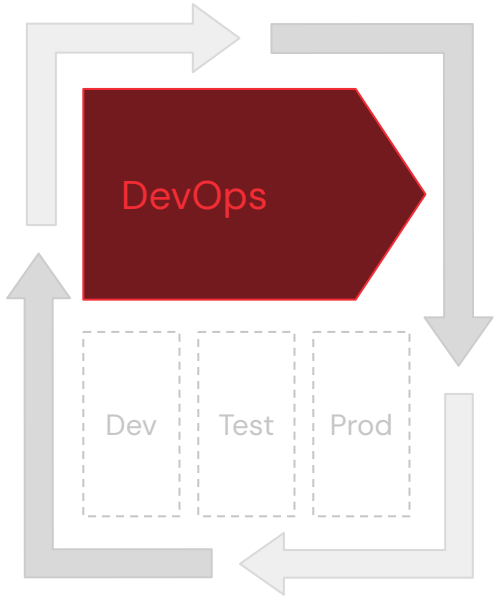


Integrate & Extend
Never start from scratch
Limitless and easy integration

open-source components

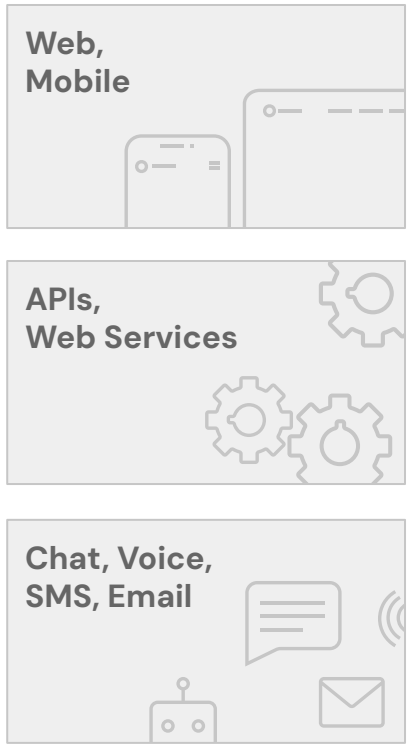
- REST, OpenAPI
- Cloud Services
- Enterprise Systems
- Databases

Full-Lifecycle
Be agile and continuously change
Automated software lifecycle



CI/CD, Monitoring,
User Feedback, Governance

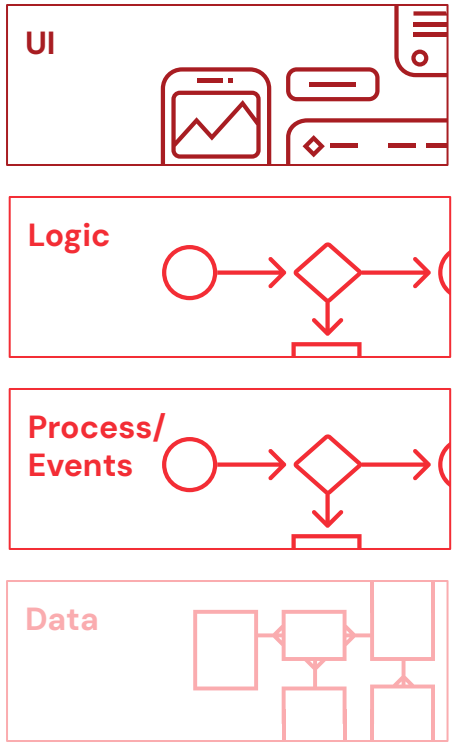
Experiences
Reach all touchpoints
Widest range of digital experiences



Scale | Security | Performance | Flexible Deployment

OUTSYSTEMS PLATFORM OVERVIEW

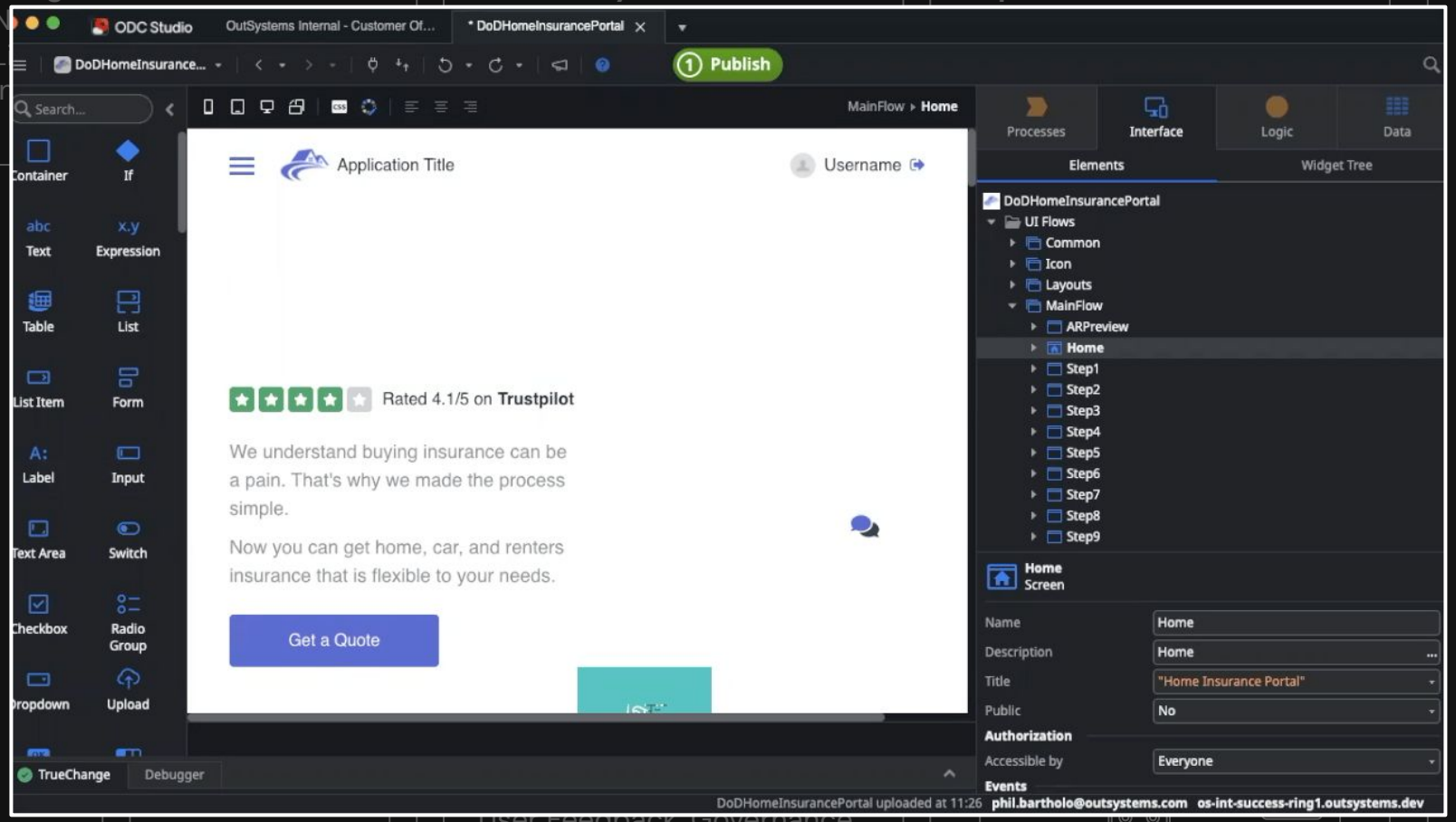
Full-Stack
Empower Developers
Extend reach outside IT



Integrate & Extend

Full-Lifecycle

Experiences



User Feedback, Governance

Scale | Security | Performance | Flexible Deployment

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PLATFORM OVERVIEW

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outside IT

Integrate & Extend
Never start from scratch
Limitless and easy integration

open-source components

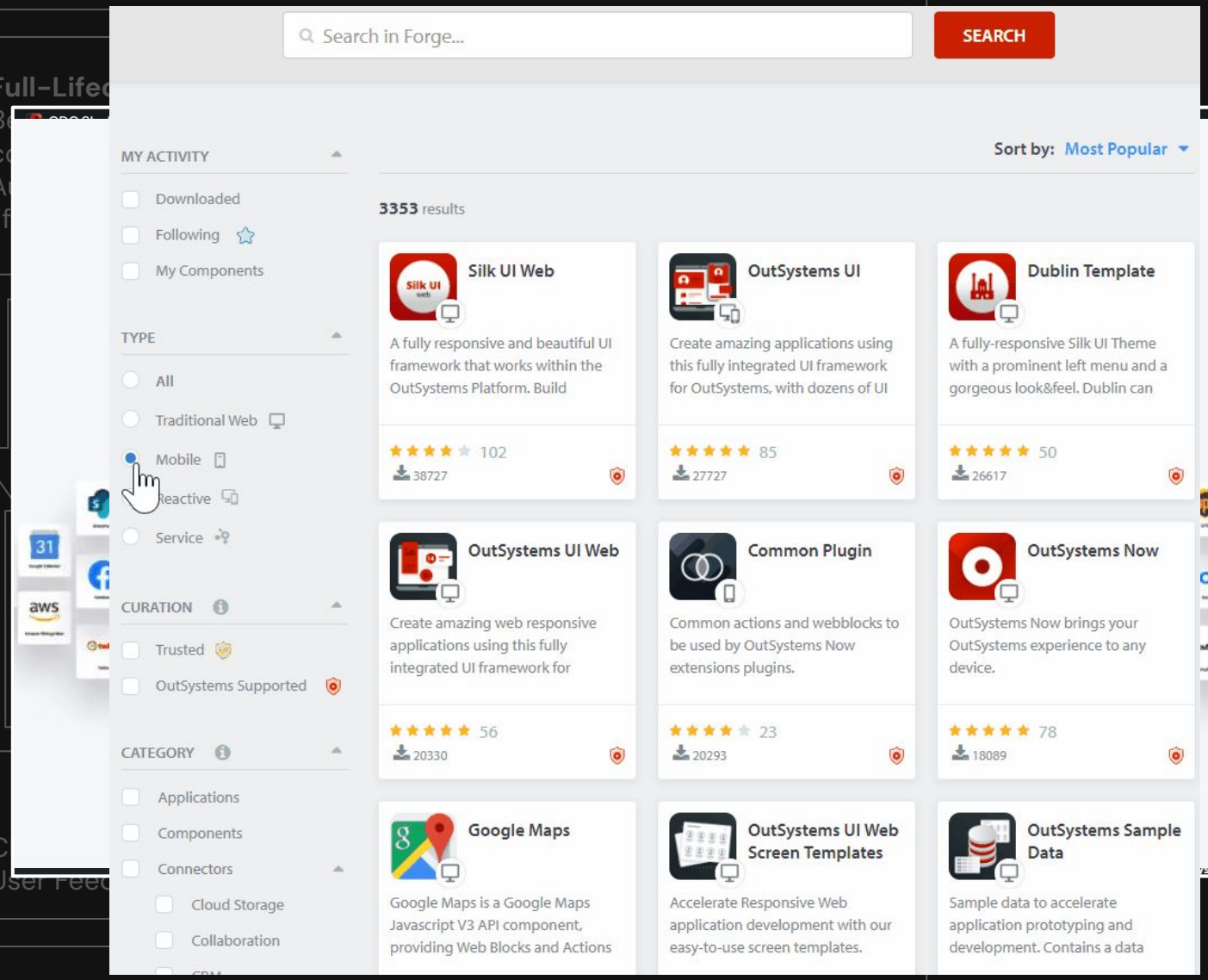
REST, OpenAPI

Cloud Services

Enterprise Systems

Databases

Full-Life



Scale | Security | Performance | Flexible Deployment

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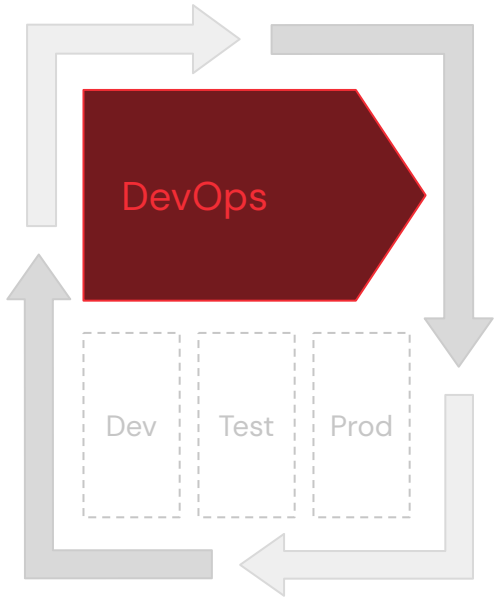
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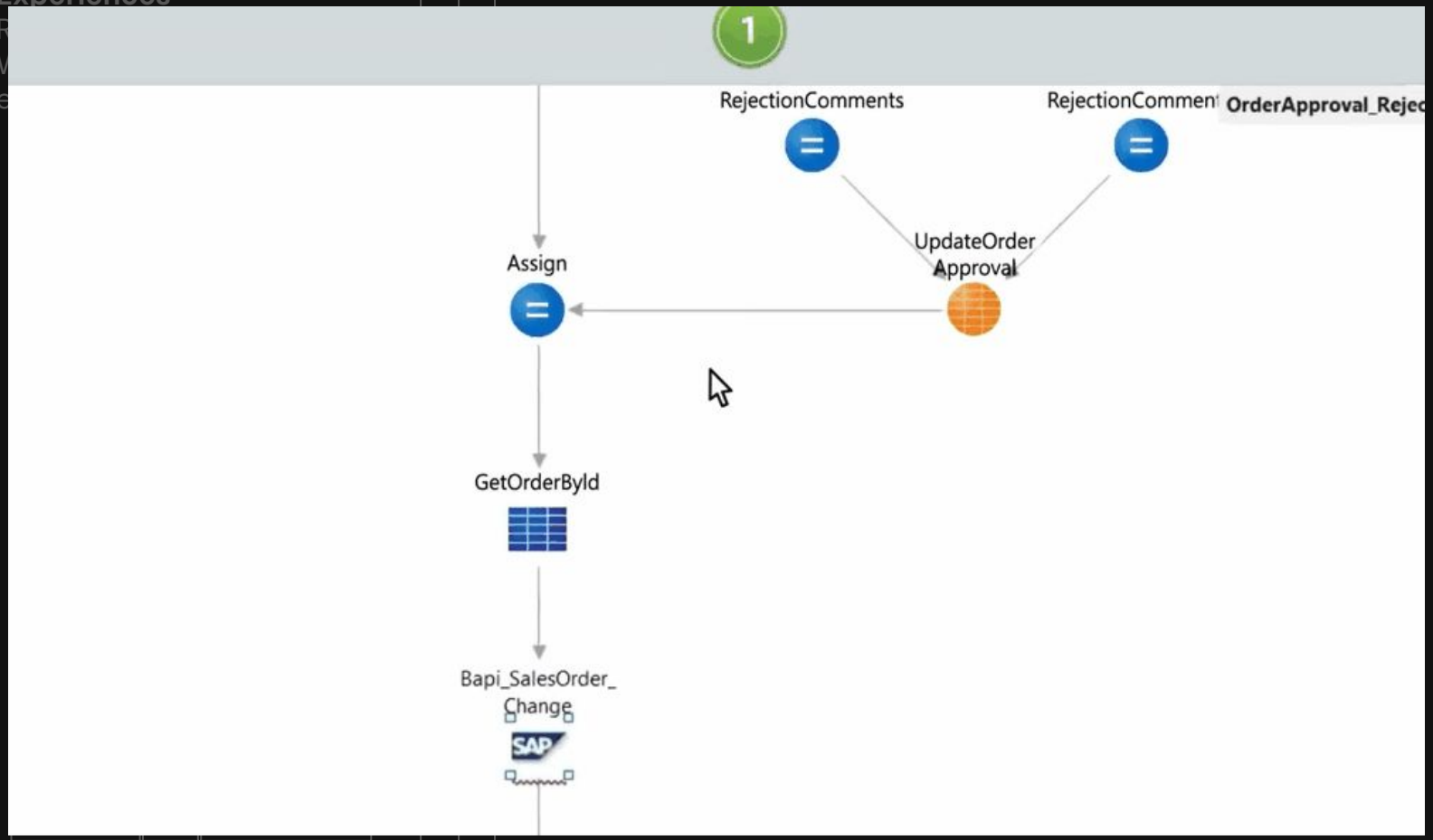
tabases

Full-Lifecycle
Be agile and
continuously change
Automated software
lifecycle



CI/CD, Monitoring,
User Feedback, Governance

Experiences



Scale | Security | Performance | Flexible Deployment

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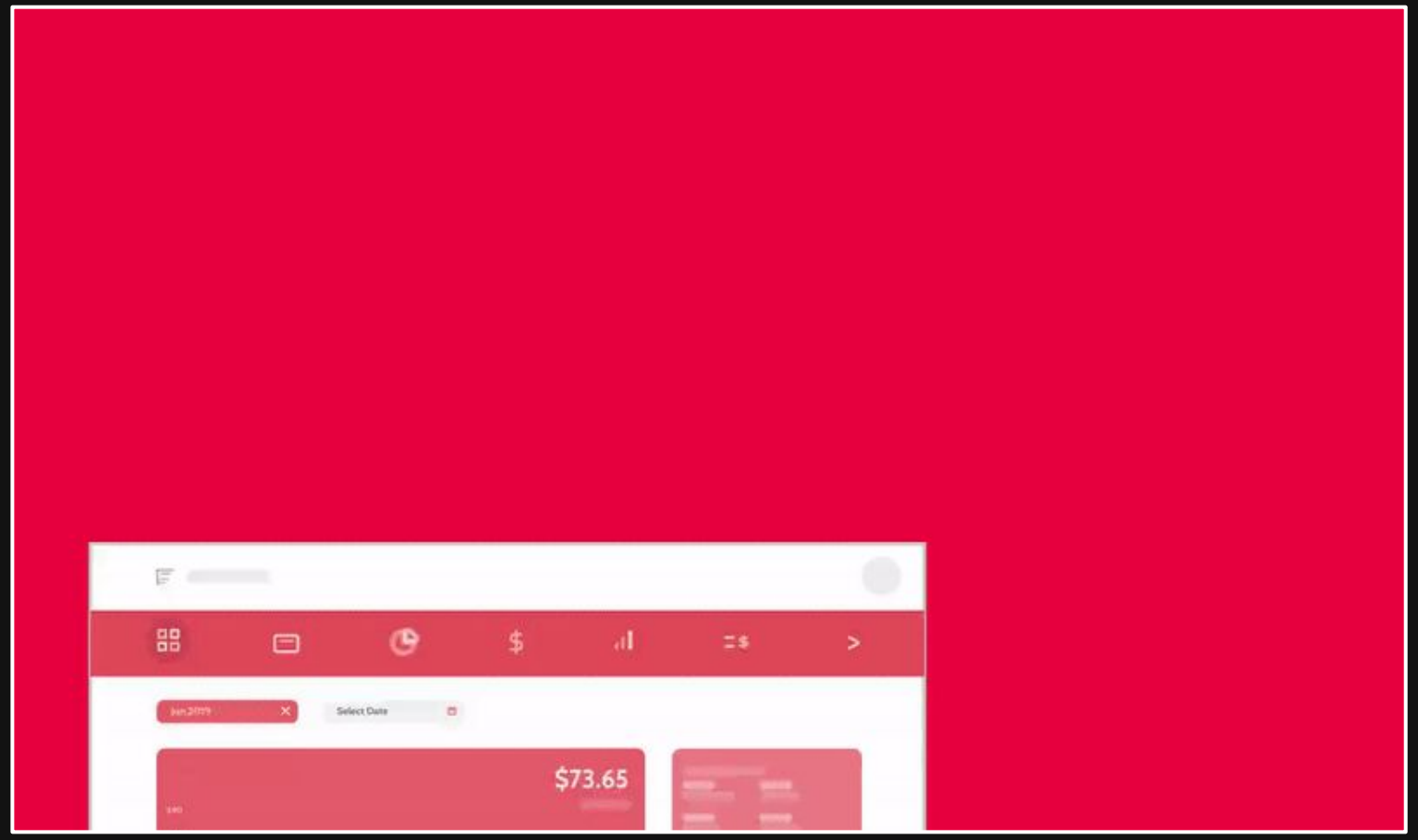
Experiences
Reach all touchpoints
Widest range of digital experiences

Web, Mobile

APIs, Web Services

Chat, Voice, SMS, Email

ty | Performance | Flexible Deployment



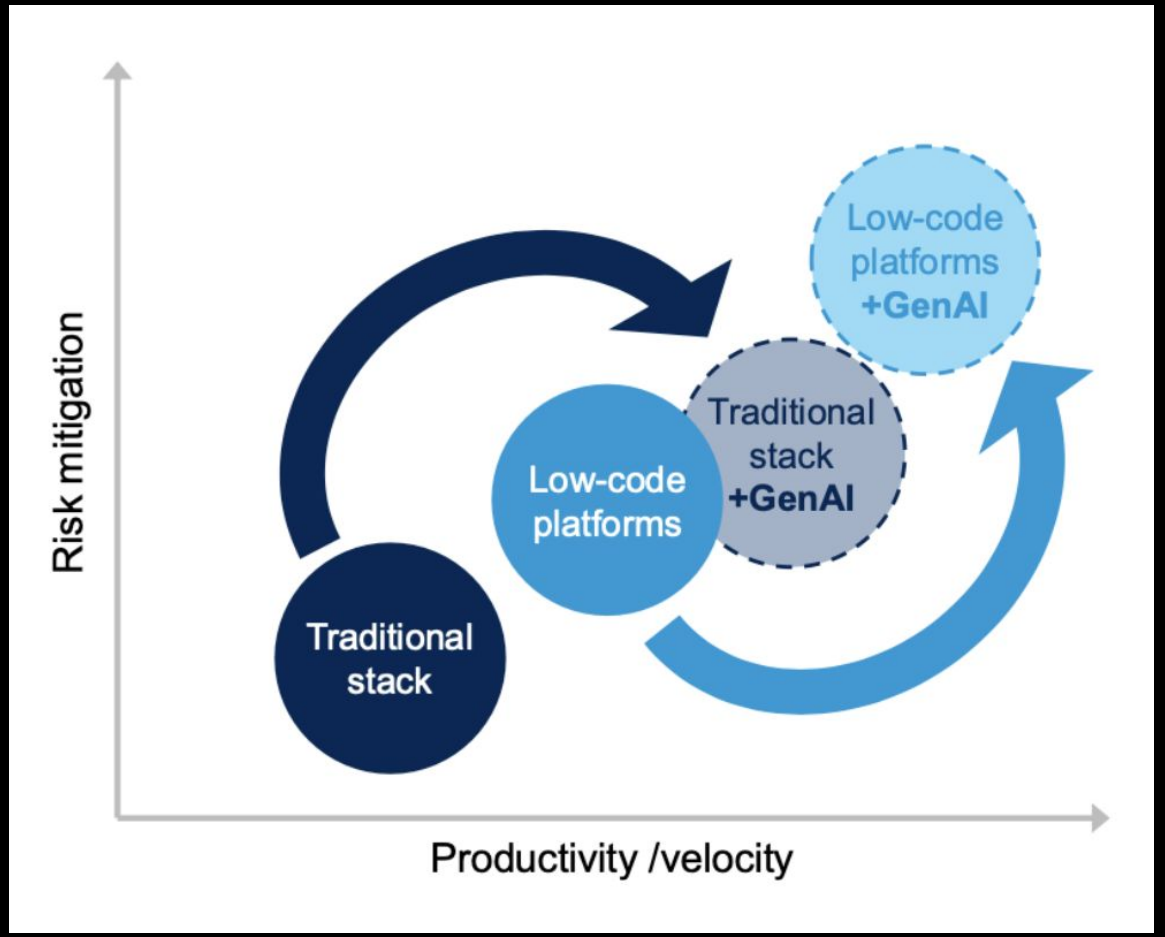
OutSystems SDLC & Productivity

Design	Develop	Test	Deploy	Maintain
Design tool plugins (Figma, Sketch, Adobe XD)	Full Stack Visual Development	BDD Test Automation	Built-In Deployment	Single release asset
OutSystems UI	Integration and Extensibility	External Testing Tools Integration	Impact and Dependencies Analysis	Short lived changes / trunk
LiveStyle Guide	5000+ component in OutSystems Forge	SAST Tool Integration	Rollback option	Platform Support
	Visual Debugger		External Devops Tools Integration	Scaling Support
	Code Version Control			Platform No Lock-In
	True Change			
	Impact Analysis			
생산성 증대	2 - 6x	2 - 3x	2 - 4x	2 - 4x

Gartner: Low-Code Platform + GenAI

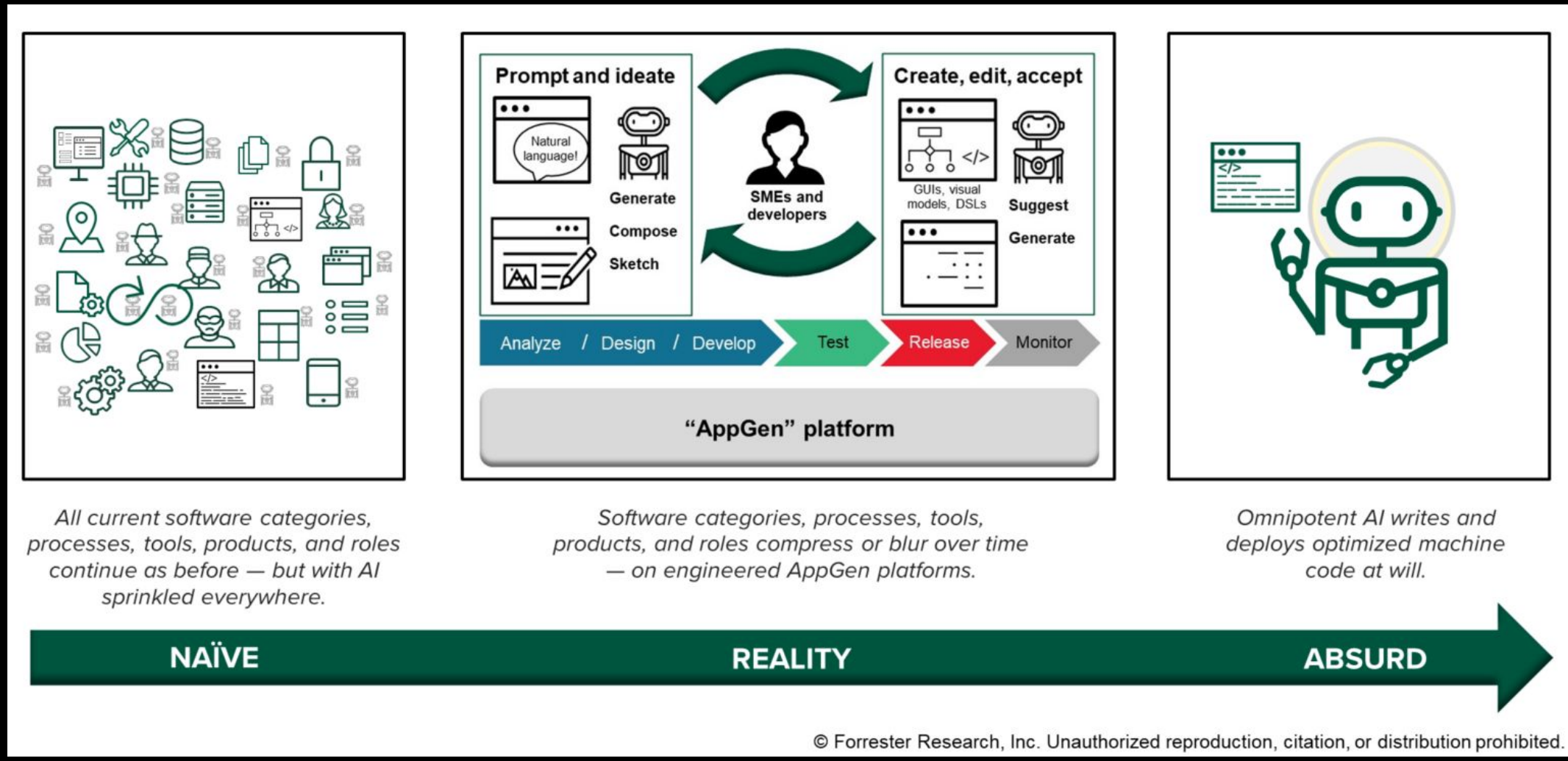
"Low-code platforms that embrace GenAI will **outperform traditional development with coding assistants.**"

"생성형 AI를 수용하는 로우코드 플랫폼은 코딩 어시스턴트를 사용하는 전통적인 개발 방식보다 더 뛰어난 성능을 보일 것입니다."



Source: Gartner, 2025 CIO Agenda: Top Priorities and Technology Plans in the United States, August 2024

Forrester: Application Generation Platform

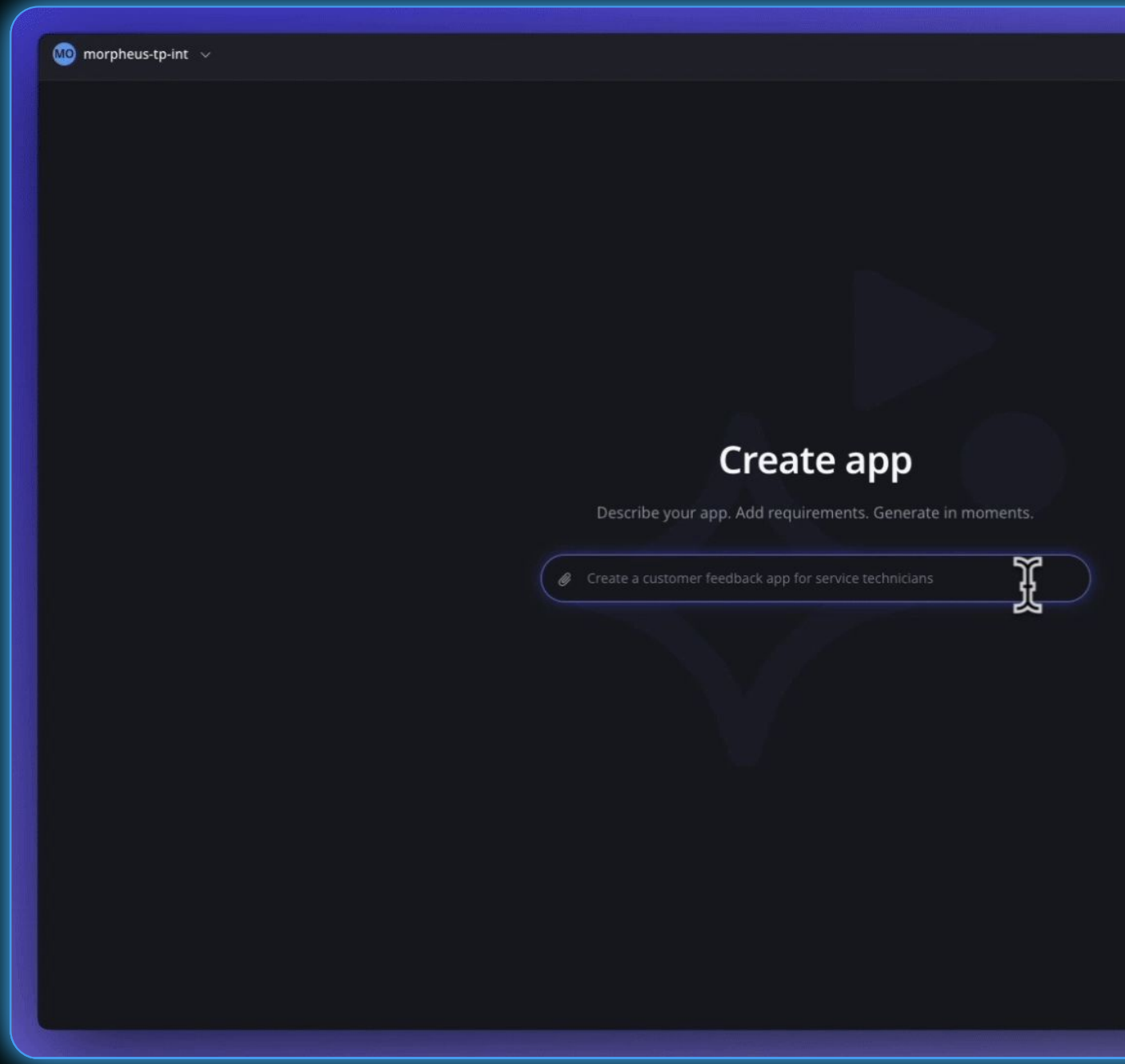


Source: Forrester, "The Rise Of Application Generation Platforms", 2024

OutSystems,

Leader
not just in
Low-Code,

but in
AI App Generation

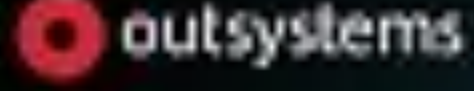




OutSystems/
Mentor

OutSystems Mentor: Your AI partner for app generation

View Introductory Video on YouTube (01:32):
https://www.youtube.com/watch?v=SaQK3YUi_CI
View Full Presentation and Demo on YouTube (50:47):
https://www.youtube.com/watch?v=_zKXubaSD_Y



OutSystems Mentor

AI-powered Digital Worker for the entire SDLC(Software Development Life Cycle)

Discovery and design
Transforms your ideas into an MVP in minutes.

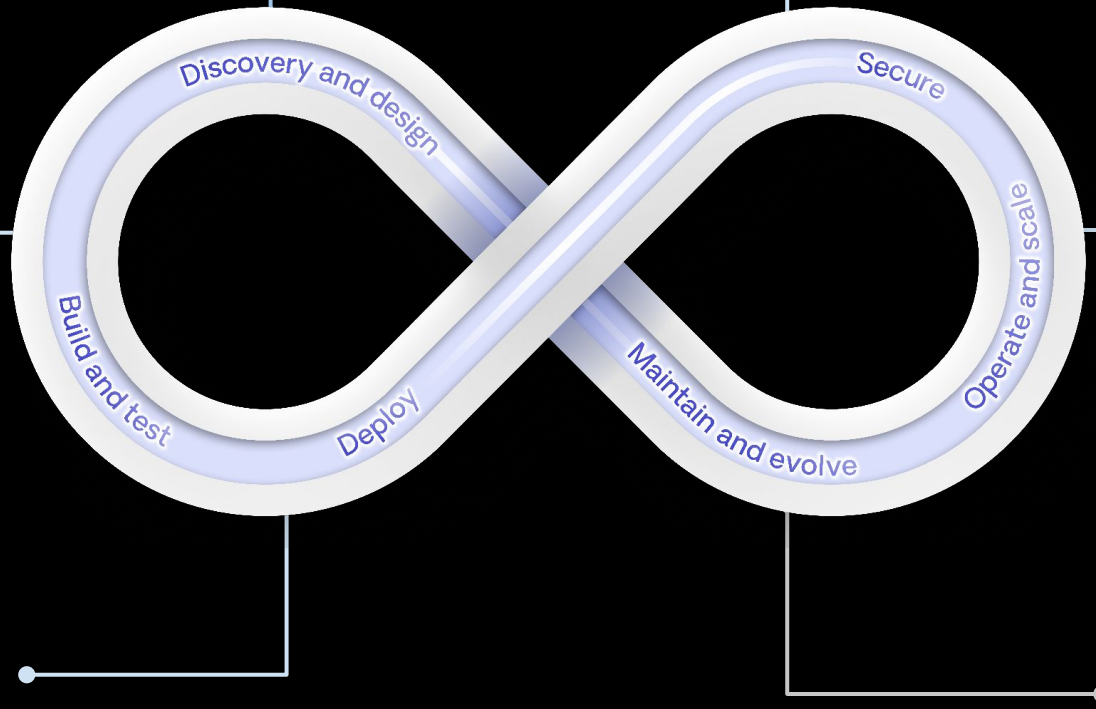
아이디어를 수분 내 MVP로 전환

Build and test
Optimize the initial MVP with contextual AI suggestions.

컨텍스트어웨어 AI 기반 MVP 최정화

Deploy
Automate repetitive tasks in code review process. Deploy with automated governance.

반복적인 코드리뷰 프로세스 및 배포 자동화



Secure
AI-driven code analysis flags potential security vulnerabilities.

AI기반 코드 분석으로 잠제 보안 취약점 탐지

Operate and scale
AI-driven code analysis ensure code meet critical architectural and performance standards.

AI기반 코드 분석으로 주요 아키텍쳐 및 성능 기준 준수 보장

Maintain and evolve
AI-driven code analysis Identifies inefficiencies to reduce technical debt improve long-term maintainability.

AI기반 코드 분석으로 기술부채를 관리하고 장기적인 유지보수성 개선

How does Mentor work alongside IT teams?



Generate

a full-stack, scalable app using GenAI

ZERO CODING



Iterate

and evolve your apps using AI-powered suggestions

ZERO EFFORT

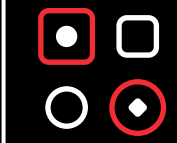


Validate

and maintain apps using AI-powered reviews

ZERO CRITICAL BUGS & TECH DEBT

Mentor Key Capabilities



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a full-stack, scalable app using GenAI

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Mentor/

App Generator

App definition in a prompt

프롬프트 기반 앱 정의

- Describe your app's use case and its requirements

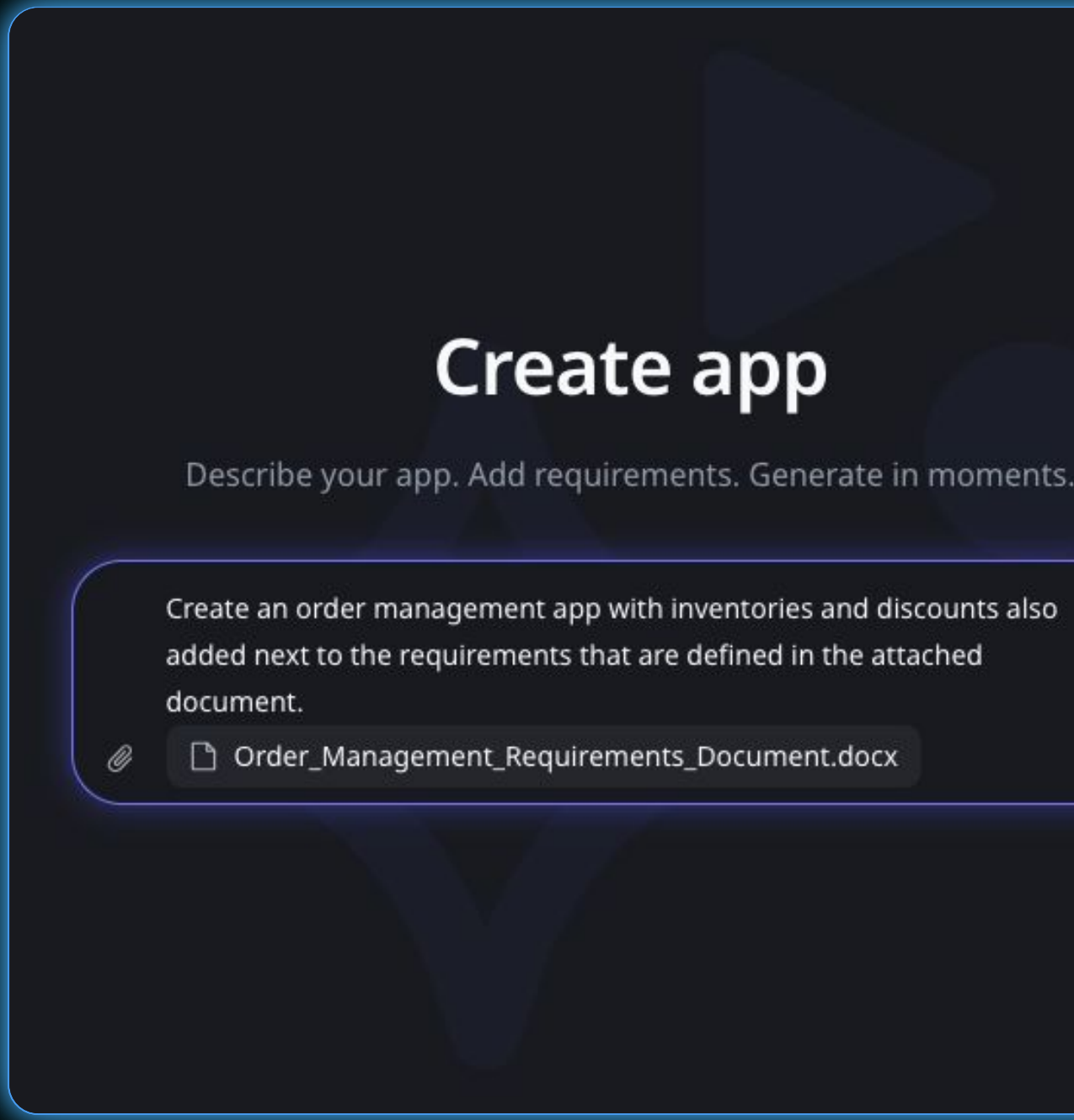
  앱 유스케이스 및 요구사항 입력

- Get a customizable structure for your app after Mentor interprets your prompt

  Mentor는 프롬프트 분석 후 커스터마이즈 가능한 앱 제공

- Set your parameters and Mentor generates an initial version in just a few minutes.

  파라미터 입력하면 Mentor는 몇분 이내 최초 앱 생성



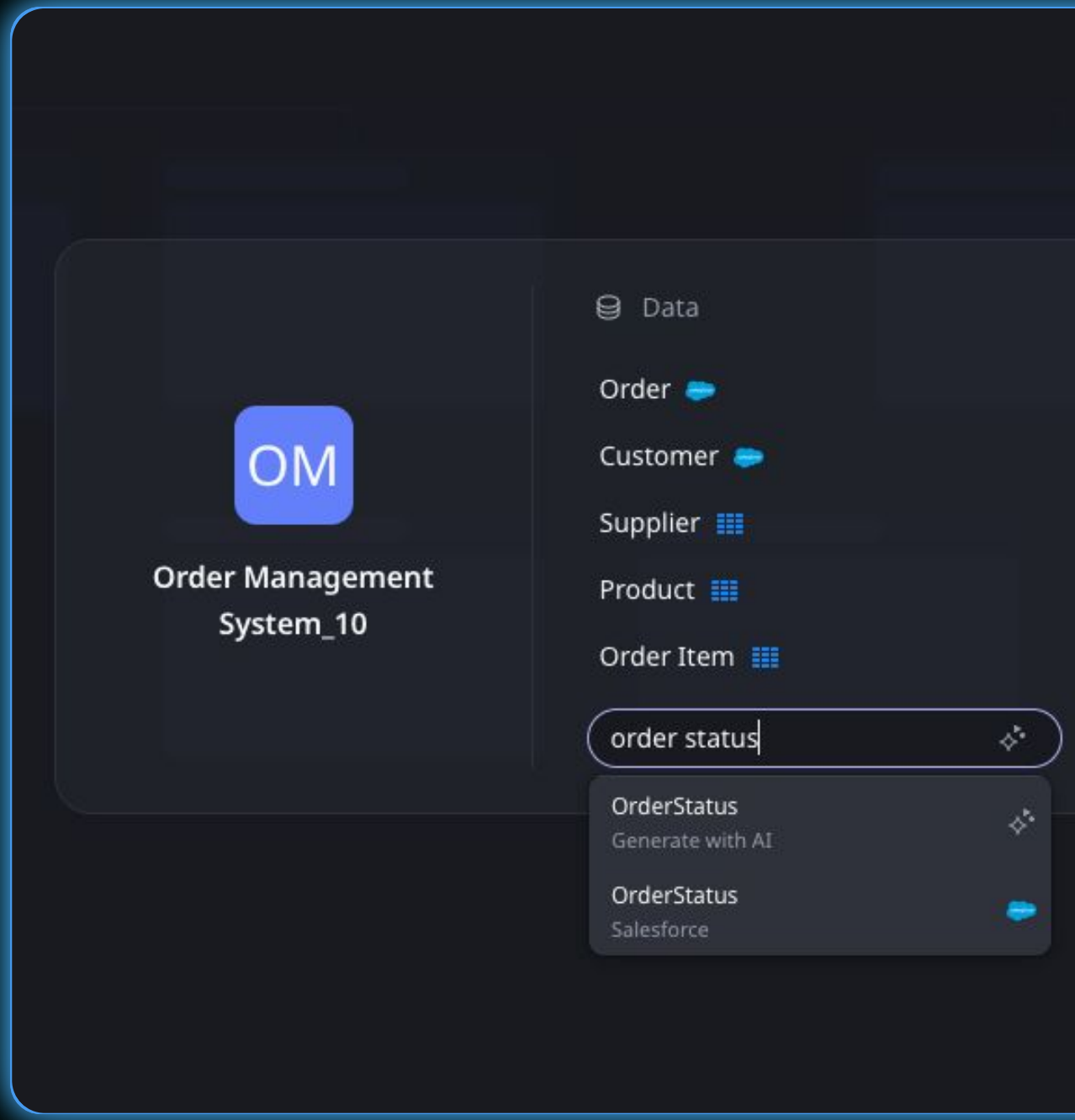
Mentor/

App Generator

Contextual data and grounding
데이터 및 기반 컨텍스트

Uses RAG framework to get additional context from:
RAG 프레임워크를 통해 다음항목으로 부터 추가 컨텍스트 조회 가능

- External data connections to systems like SAP and Salesforce through ODC
  SAP 및 Salesforce 같은 외부 시스템 데이터
- Existing OutSystems application components and factory theme
  기존 OutSystems 앱 및 컴포넌트
- Uploaded requirement document
  업로드된 요구사항 명세서

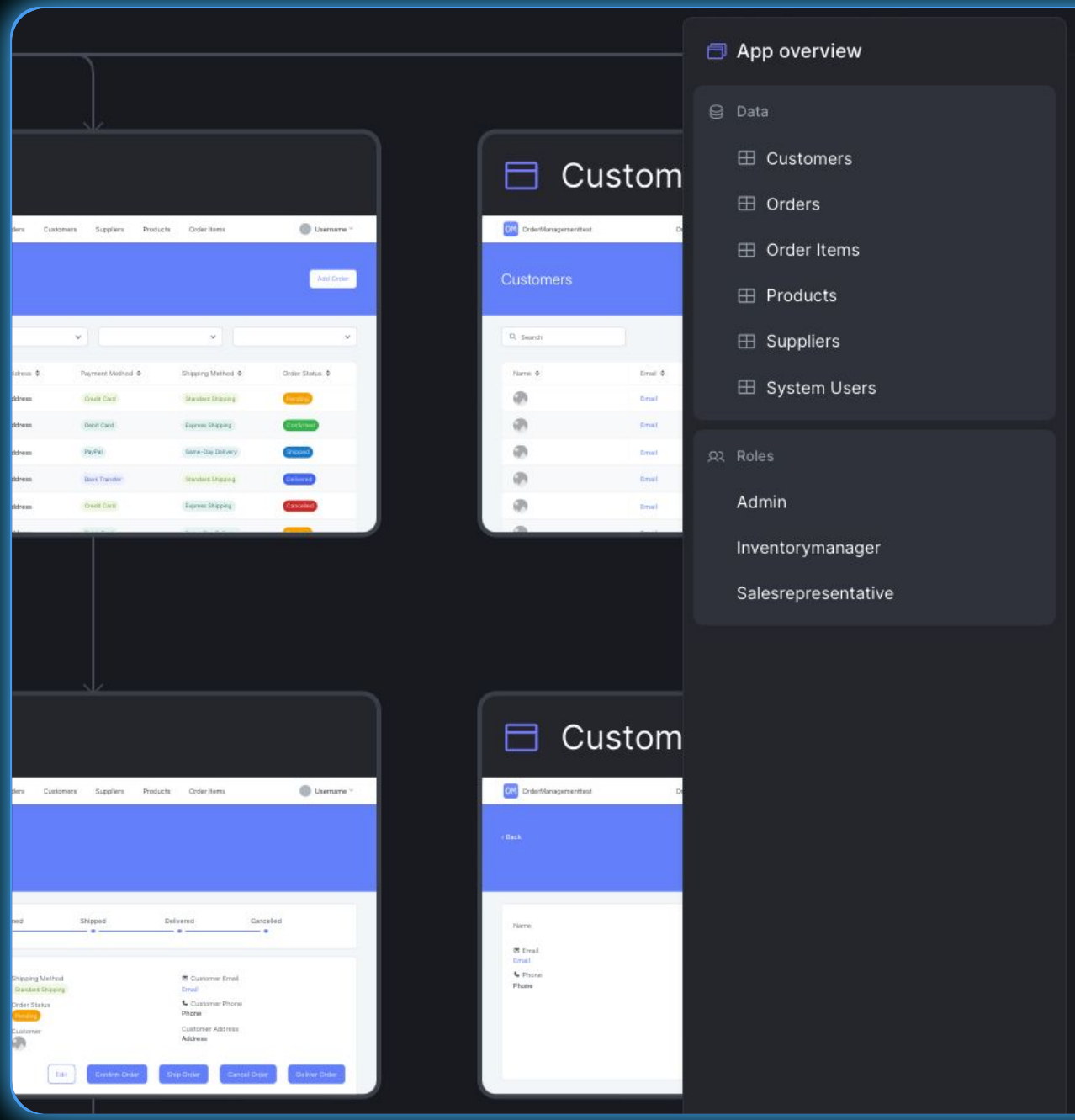


Mentor/

App Generator

Your full-stack app, delivered
풀스택 앱 생성 및 제공

- **Data model and entities (DB 데이터 모델)**
- **Screens (화면)**
- **Back-end Logic (백엔드 로직)**
- **Workflows (워크플로우)**
- **Roles and data rules (역할 및 데이터 규칙)**
- **Simple dashboards (대시보드)**
- **Data import and exports (데이터 입/출력)**
- **Sample data (샘플 데이터)**
- **Simple theme (기본 테마)**



Mentor Key Capabilities



Generate

a full-stack, scalable app using GenAI

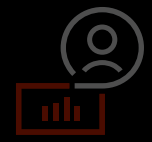
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and maintain apps using AI-powered reviews

ZERO CRITICAL BUGS & TECH DEBT

Mentor/

App Editor

Effortless refinement

손쉬운 개선

- App overview displays data model

  데이터모델을 포함한 앱 오버뷰

- True-to-life displays of the screens include generated sample data

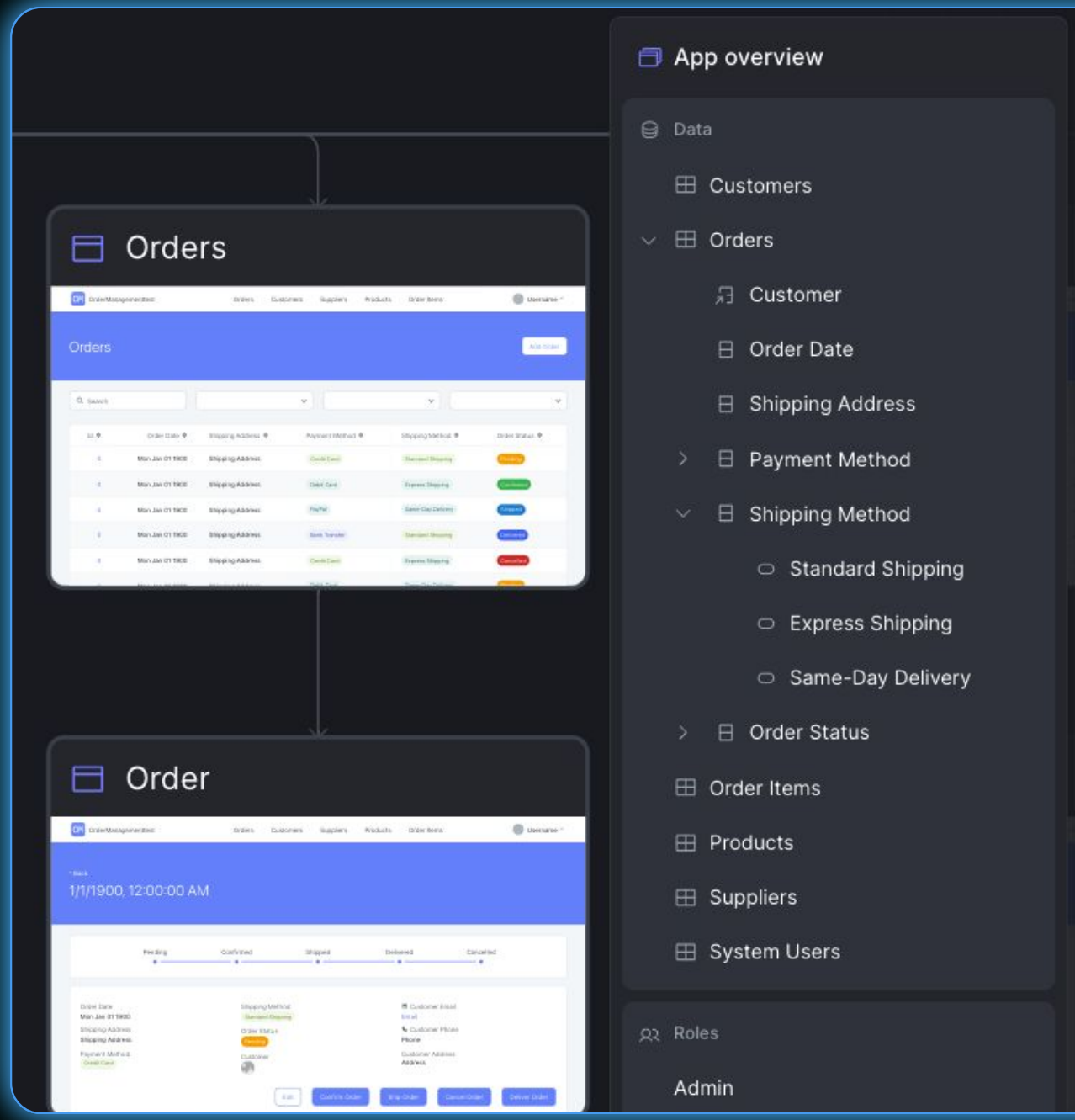
  샘플데이터를 활용한 실 화면

- Suggestions are applied and immediately visible on the screens with data

  바로 반영되고 데이터까지 확인가능한 수정

- Additional refinements can be made in ODC Studio

  더 세부/수동 작업은 ODC Studio에서 직접 개발



Mentor/

App Editor

App suggestions from AI

AI기반 앱 수정 제안

- Adding objects (creates entities and screens)

  테이블 및 화면 추가

- Modifying data models and visuals

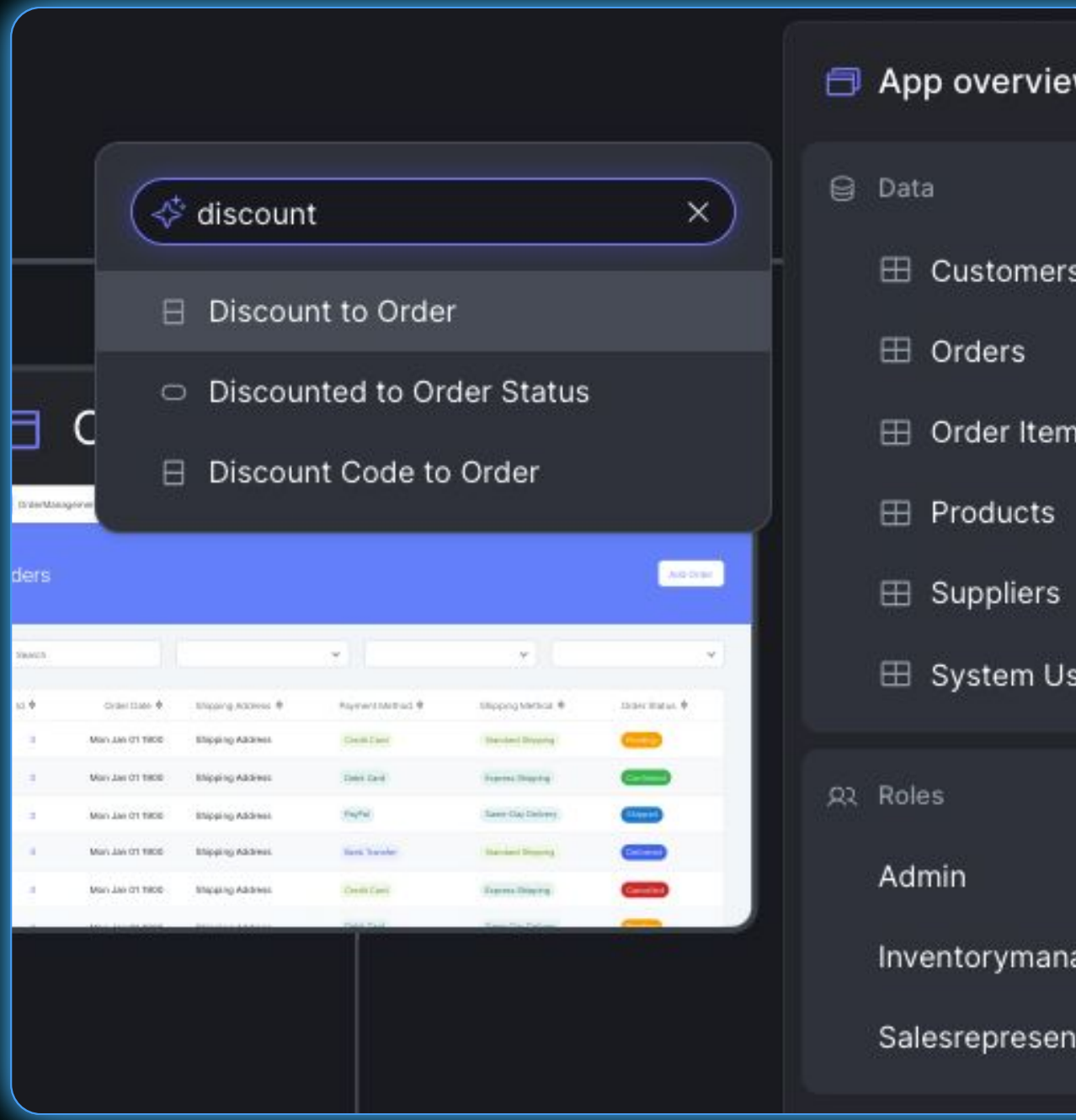
  데이터 모델 및 화면 수정

- Managing static entity lists

  스태틱 엔티티 목록 관리

- Updating security roles

  사용자 역할 수정



Mentor Key Capabilities



Generate

a full-stack, scalable app using GenAI

ZERO CODING



Iterate

and evolve your apps using AI-powered suggestions

ZERO EFFORT



Validate

and maintain apps using AI-powered reviews

ZERO CRITICAL BUGS & TECH DEBT

Mentor/

Code Quality

AI-assisted technical debt management

AI기반 기술부채 관리

- In-depth Code analysis ensures excellence in architecture, security, performance, and maintainability

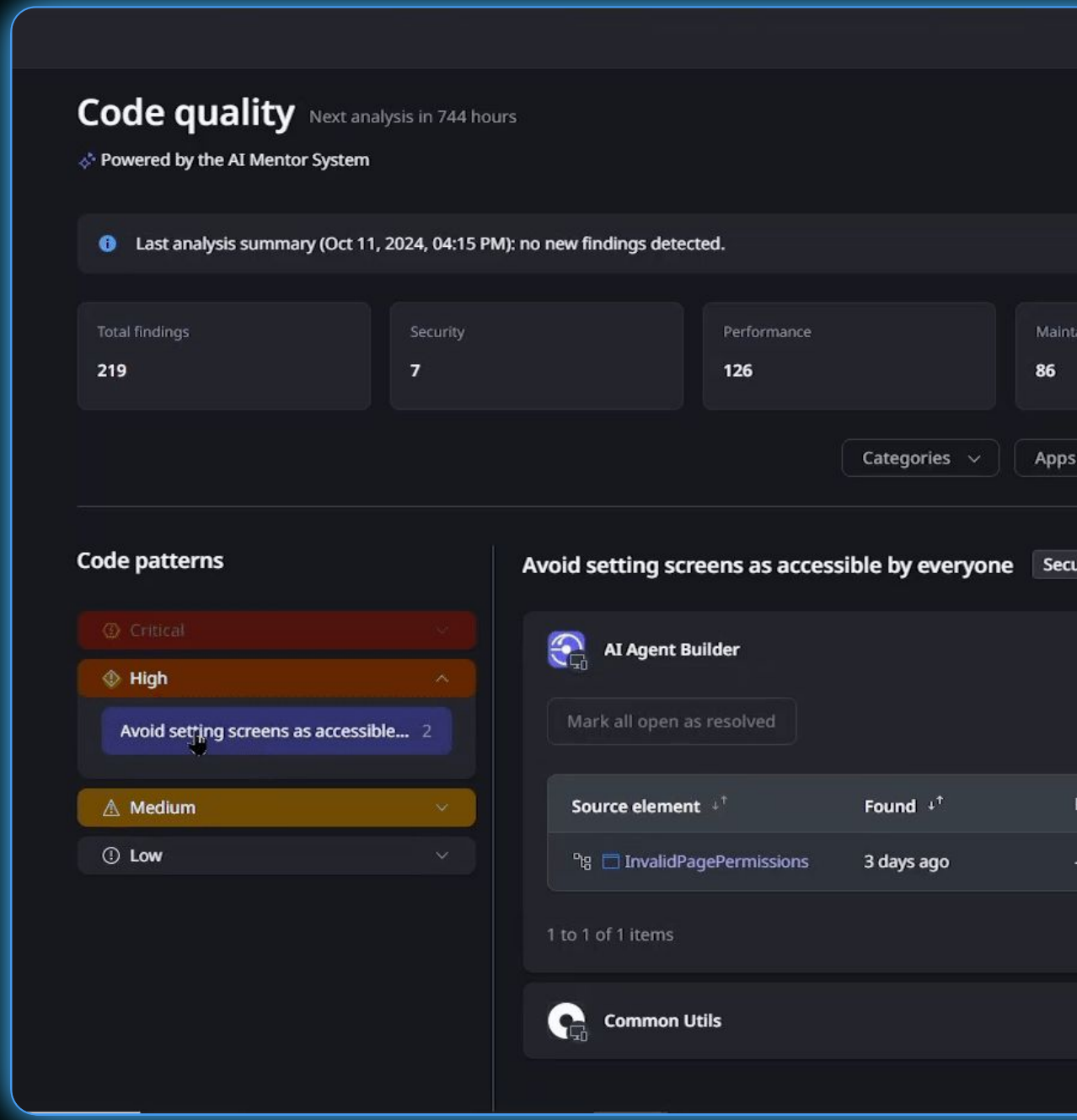
  심층 코드 분석이 아키텍처, 보안, 성능, 유지보수성 보장

- Automated code reviews proactively detects issues and provides fixes

  자동화된 코드리뷰로 선제적으로 기술부채 탐지 및 해결책 제안

- Collaborate with your team on fixes

  해결책 관리 프레임워크



Mentor/

AI Agent Builder

Build and embed AI Agents

AI Agent 빌드 및 기능 임베드

- Select LLM model and input instructions

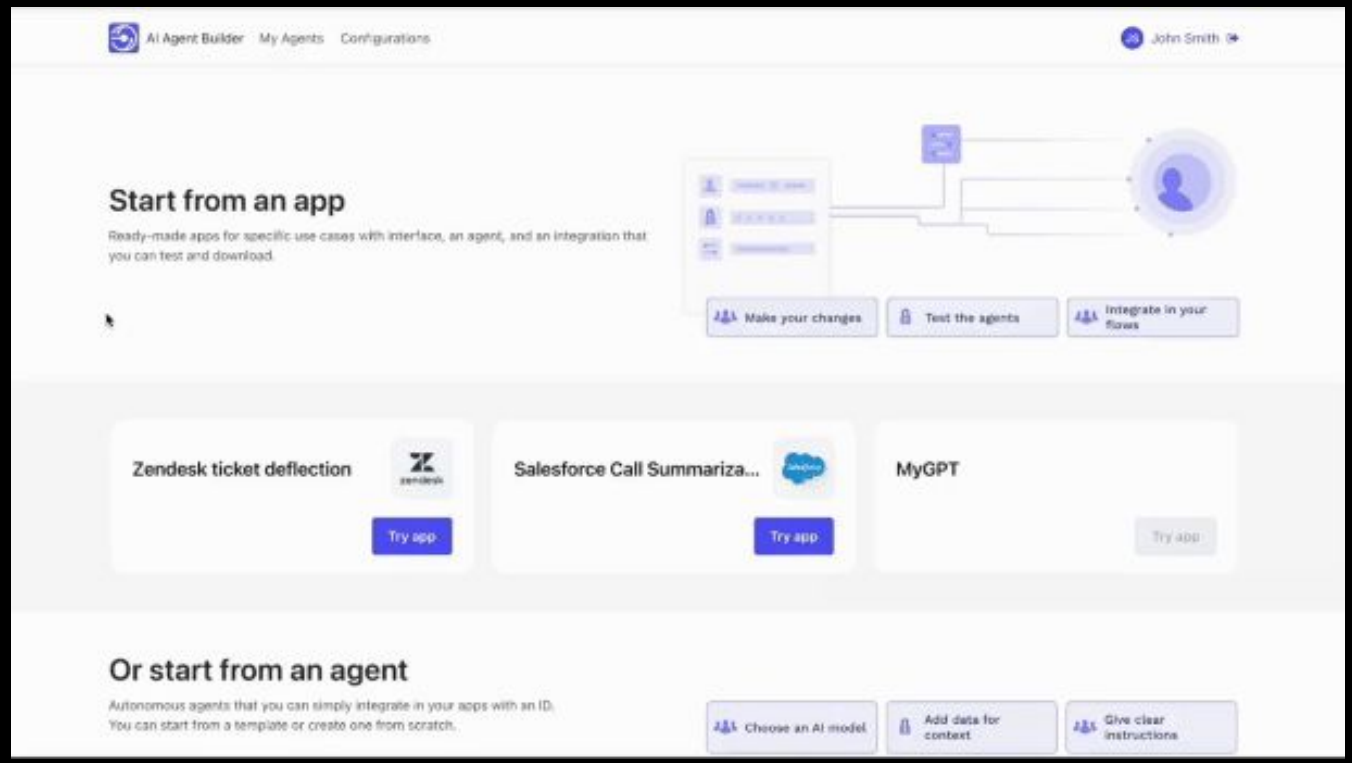
  LLM모델 선택 및 기본 지시사항 입력

- Azure OpenAI, Amazon Bedrock, or custom proprietary LLM via API endpoints

  API 엔드포인트연동으로 다양한 LLM 연동 가능

- Select custom data source for RAG

  RAG 사용을 위해 커스텀 데이터소스 선택가능



The future of Software Development is outsystems