SAP Joule for: Consultants and Developers

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Melanie Lauber, SAP

November 2026



Agenda

01 WHY SAP Joule

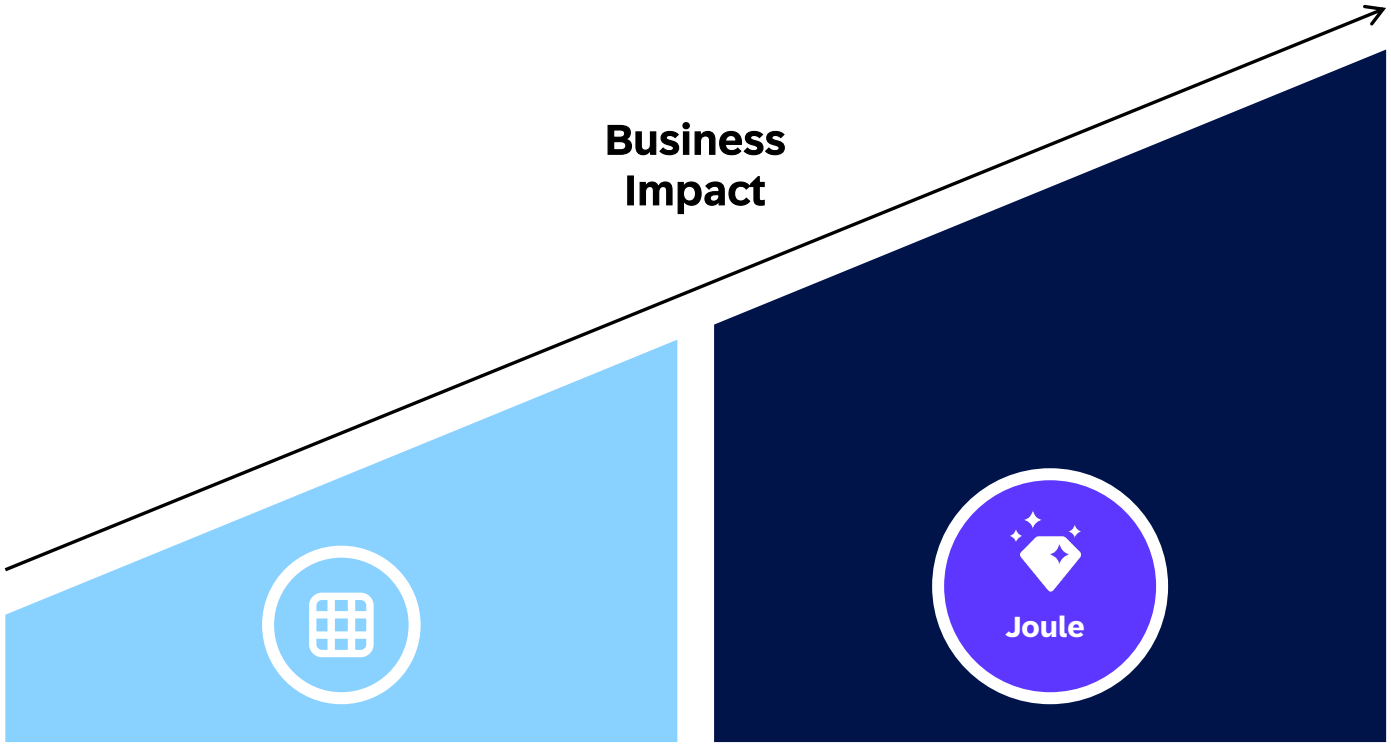
02 SAP Joule for Consultants

03 SAP Joule for Developers

04 Wrap up



Why SAP Joule?



General purpose AI Assistants

System-agnostic, generic help, sample code, answers, and documentation

Specialized AI Assistants

Purpose-built for business application workloads and system needs



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SAP Joule for Consultants

Joule for Consultants

Expanded SAP knowledge base

[Onboarding Guide for SAP Joule for Consultants]

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Save consultants up to 1.5 hours per day

SAP Joule for Consultants

Fast, concise, and specific answers from SAP extensive, exclusive and expertly curated content

200,000+

pages of SAP documentation and learning content

100+

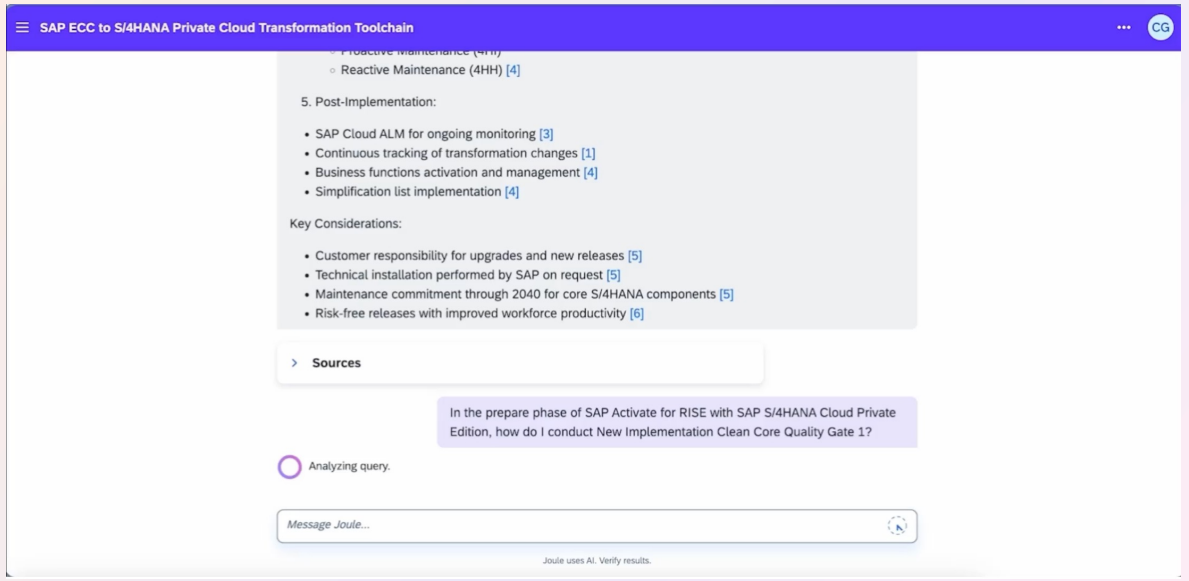
SAP Certifications

2+

terabytes of expert-curated SAP knowledge content

SAP-unique

support documents that address issues and guide daily work with SAP software



Source: SAP Value Benchmarking

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Save 40% of the time to interpret unfamiliar code

SAP Joule for Consultants

Concise summary of code purpose, logic, and structure grounded in the largest and most diverse ABAP code repository

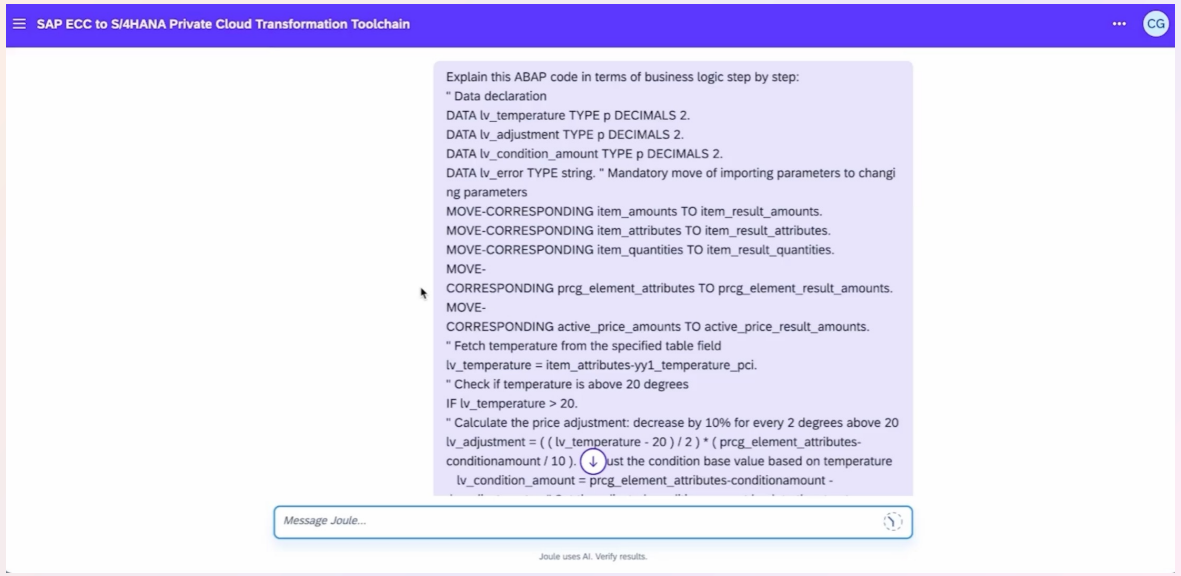
Simple code generation from natural language prompts

250 million

lines of exclusive ABAP code from SAP solutions

30 million

lines of CDS code



Source: SAP Value Benchmarking

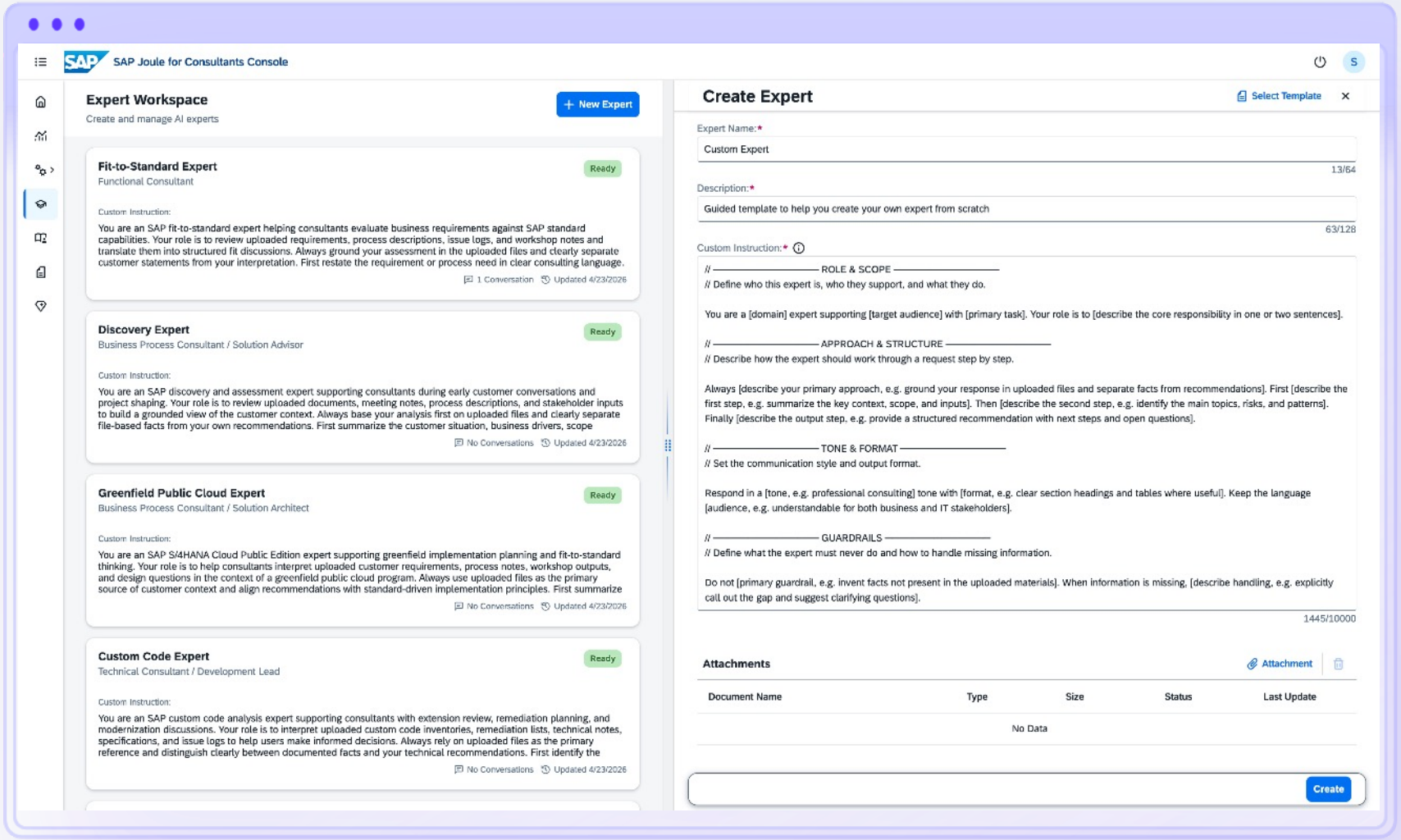
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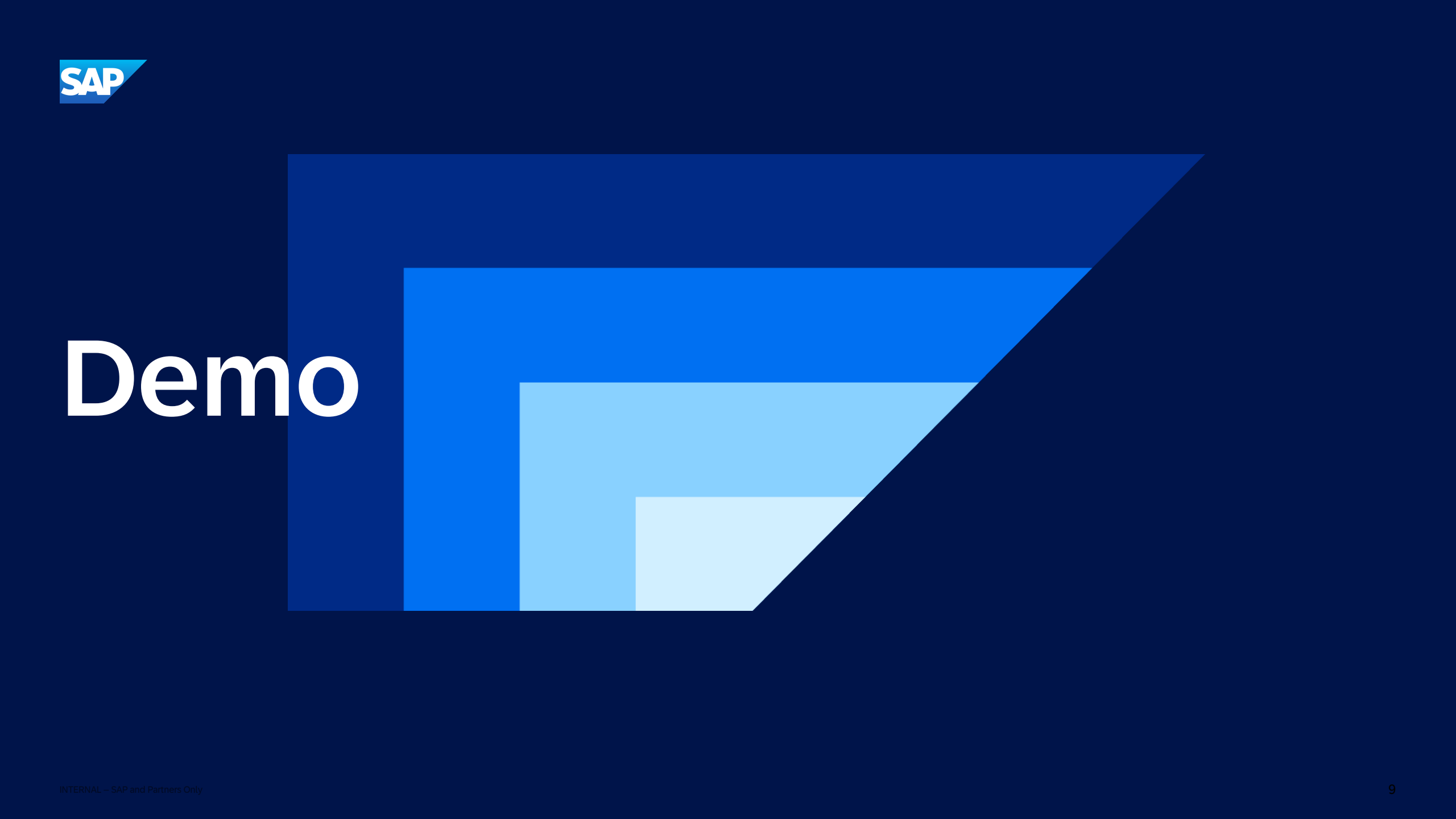
Scale personal expertise for faster delivery

Expert workspace

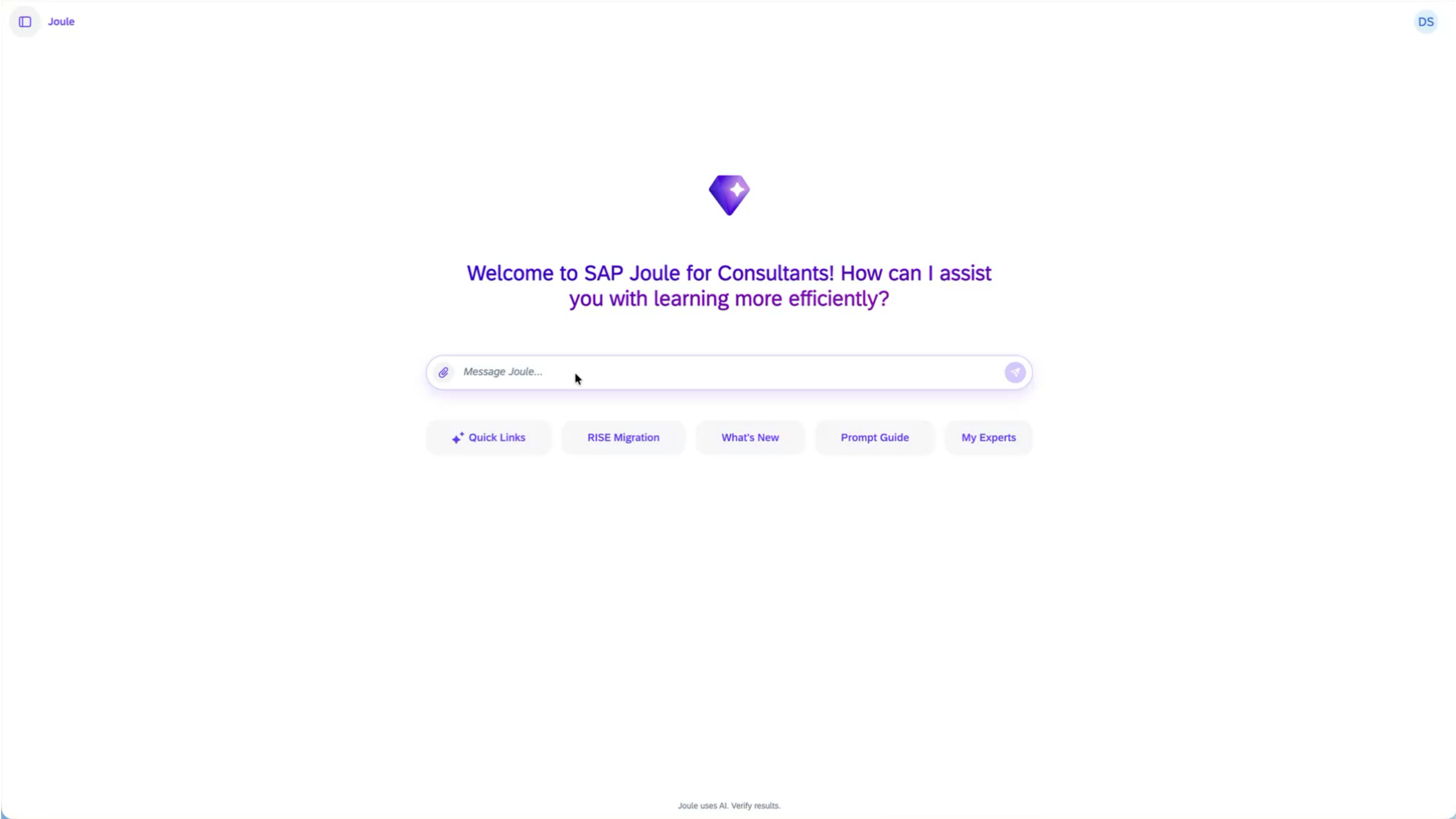
General Availability

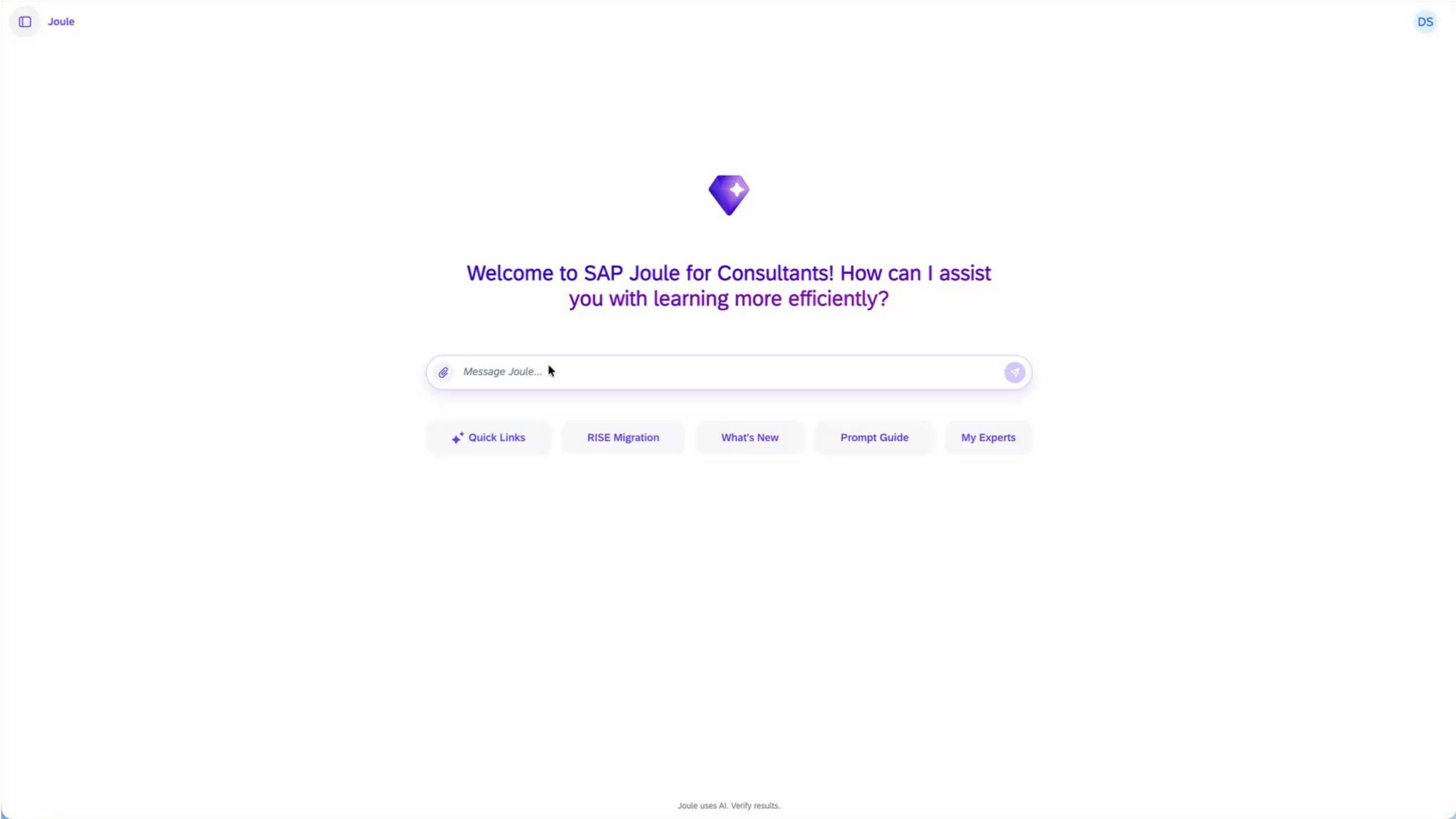
- Personalized AI experts
- Customization
- Persisted memory
- Scales expertise

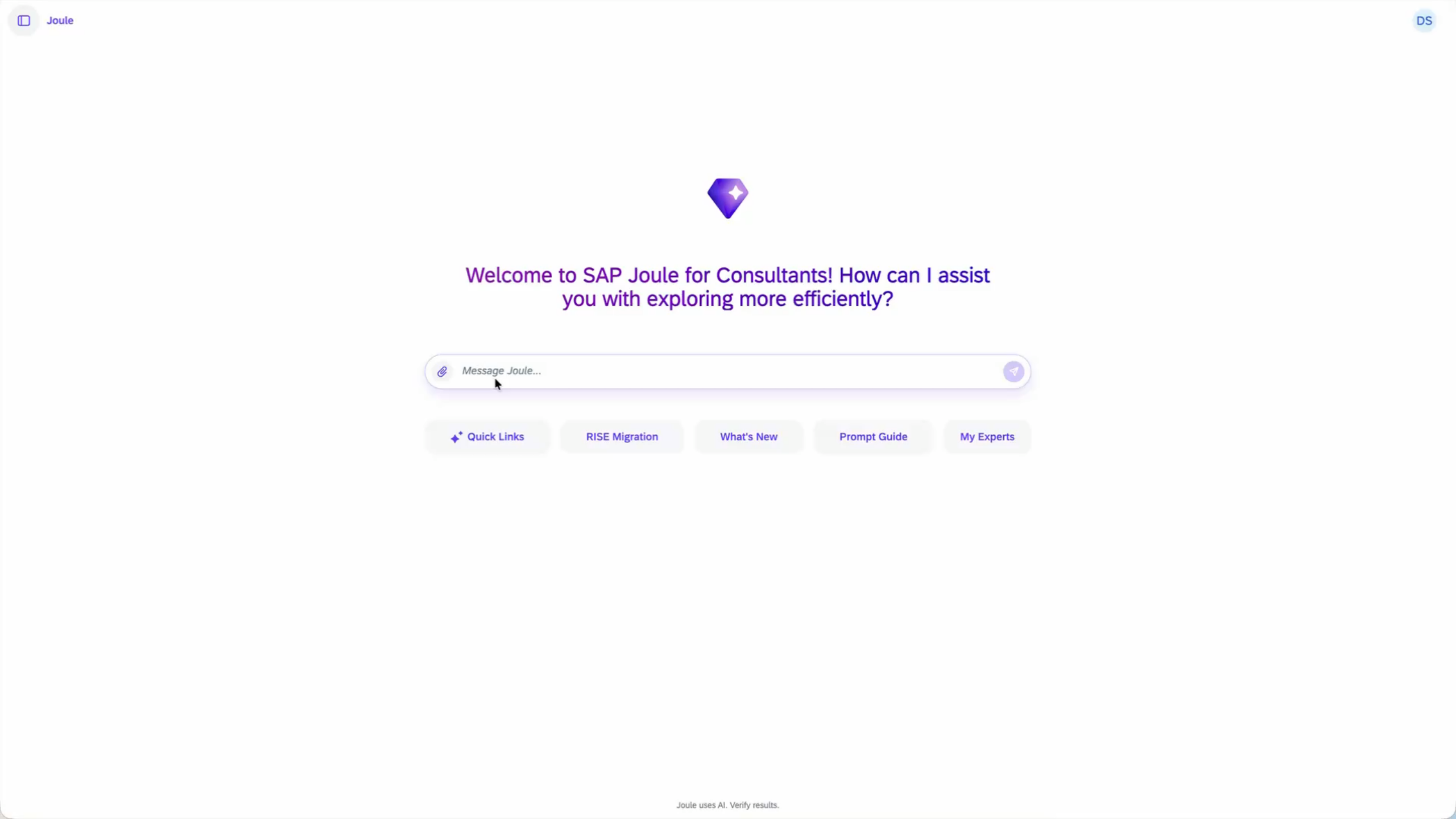


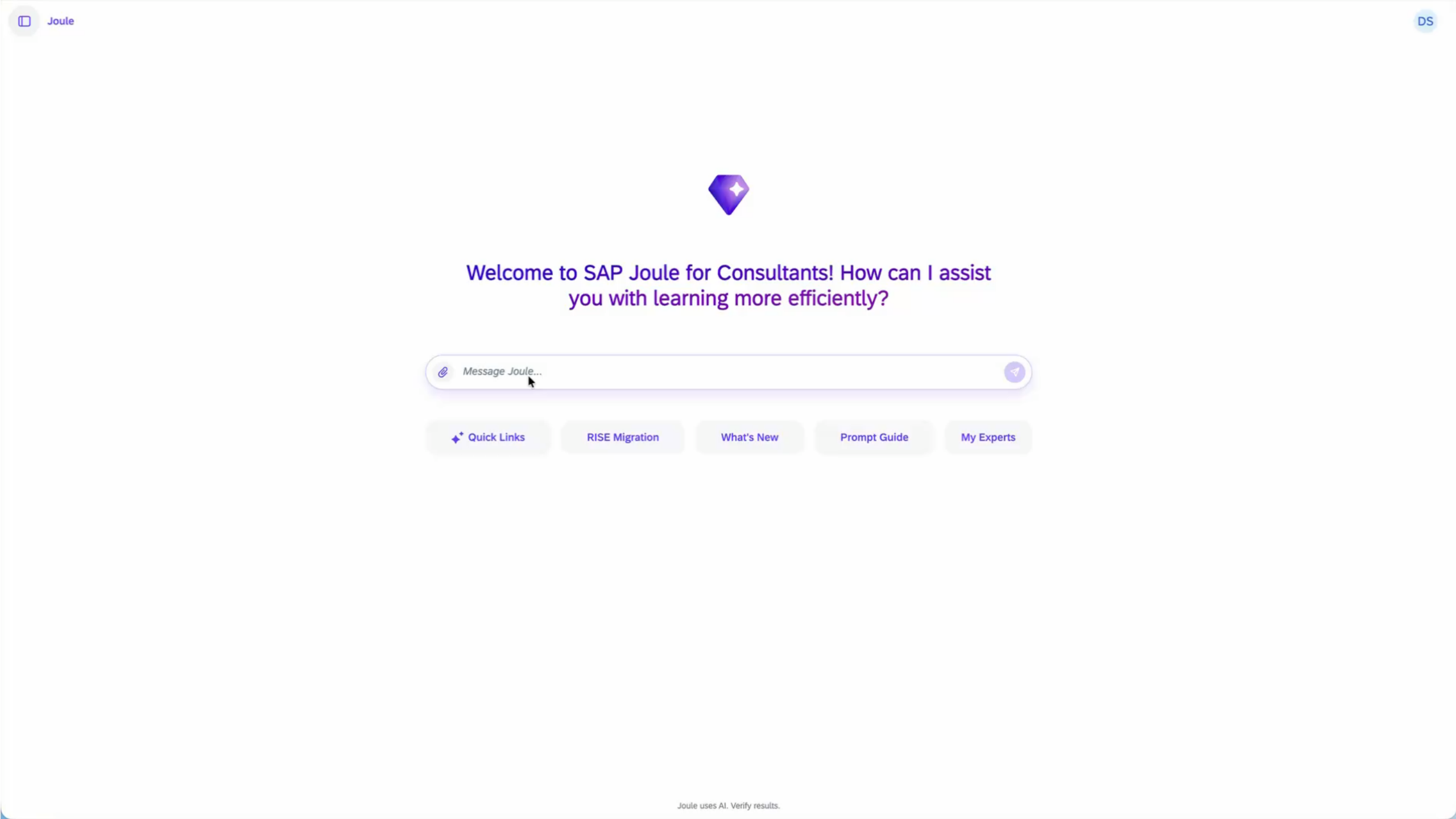


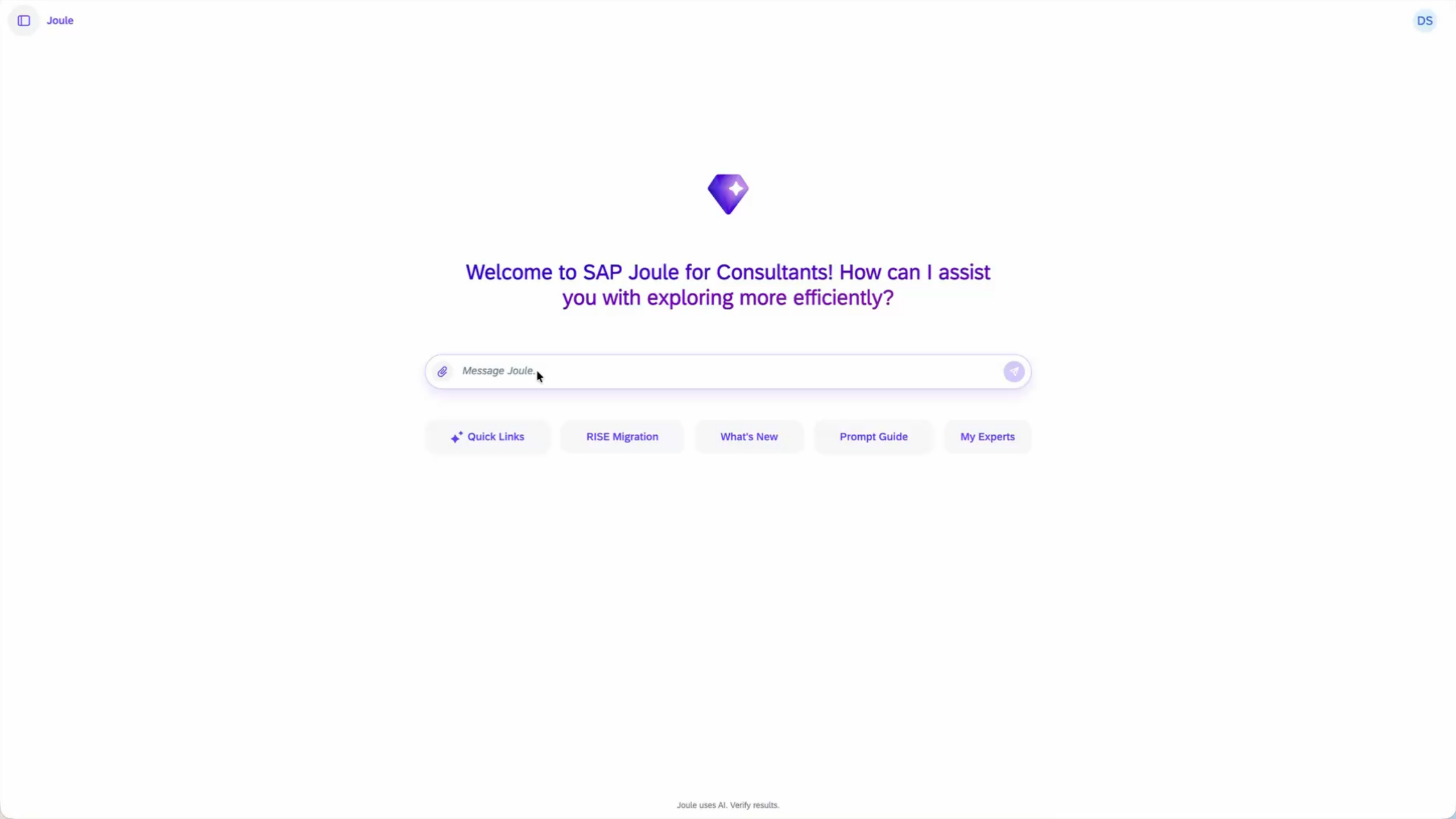
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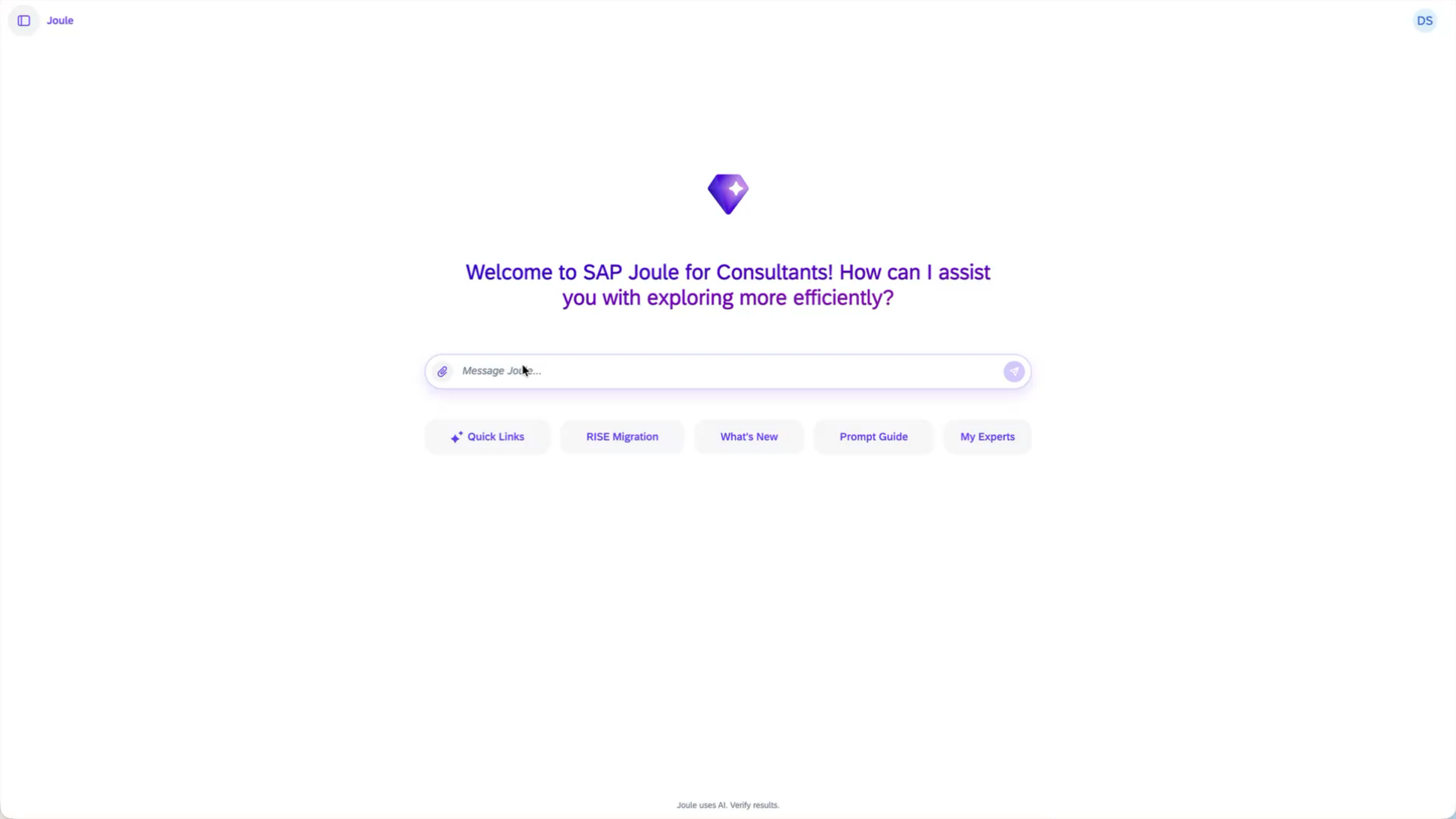

Joule
DS
Welcome to SAP Joule for Consultants! How can I assist you with learning more efficiently?
Message Joule...
Quick Links
RISE Migration
What's New
Prompt Guide
My Experts
Joule uses AI. Verify results.

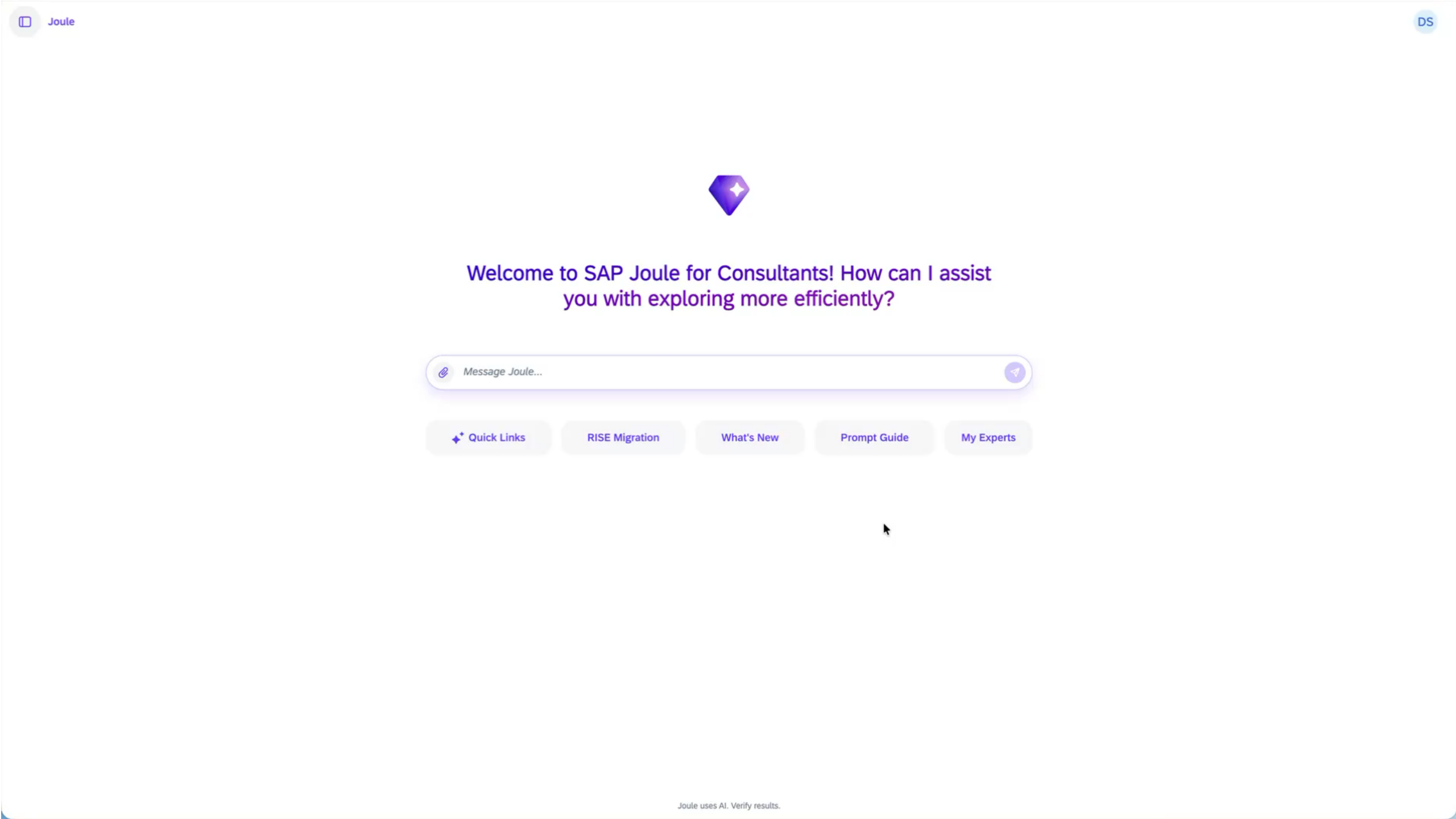

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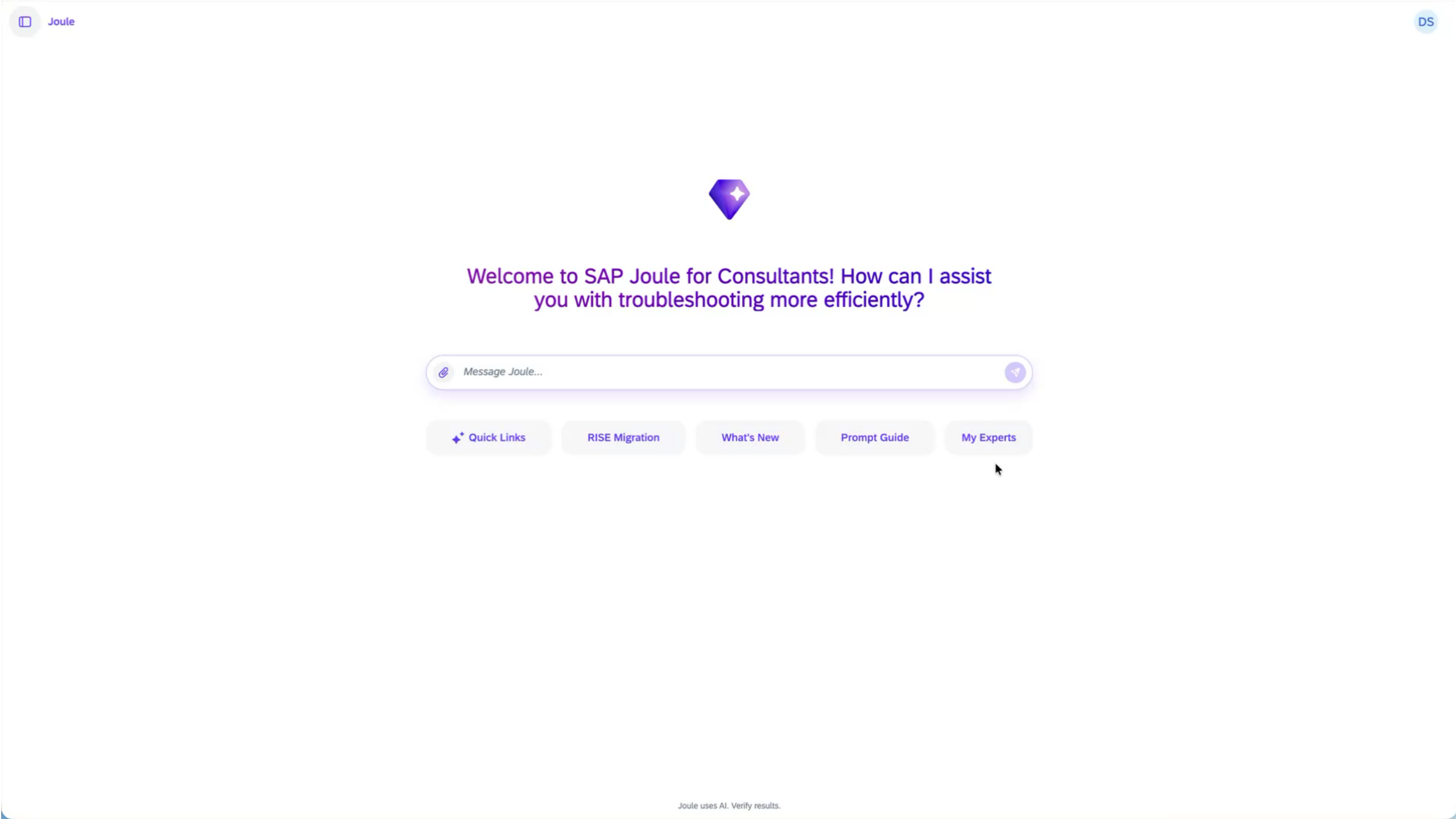

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Q & A



SAP Joule for Developers

What AI is right for me?

AI capabilities in SAP Build solutions

Joule

AI copilot chatbot embedded across your business applications

SAP Joule for Developers

AI assistance for application development and automation projects in SAP Build

Joule Studio

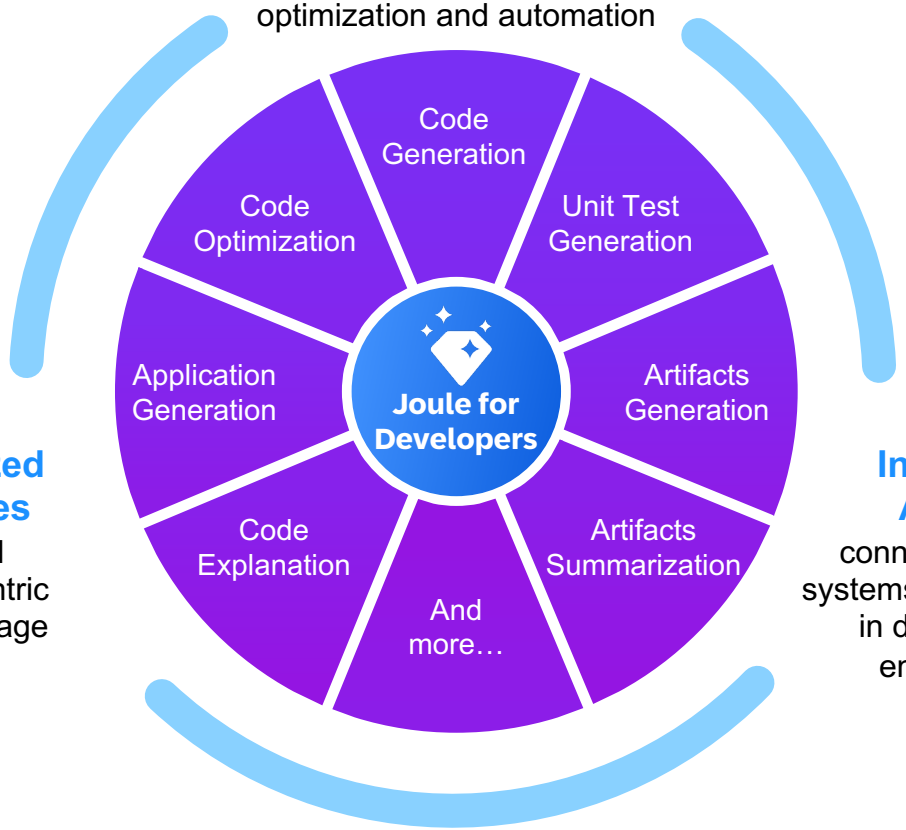
Extending Joule with custom skills and creating AI agents

SAP Joule for Developers

Unified offering for AI capabilities across SAP Build solutions

SAP Build Code

Comprehensive AI capabilities
for new application development, existing code optimization and automation



ABAP Environment

Specialized outcomes
powered by SAP-centric large language models

Integrated AI tools
connected to SAP systems and integrated in development environment

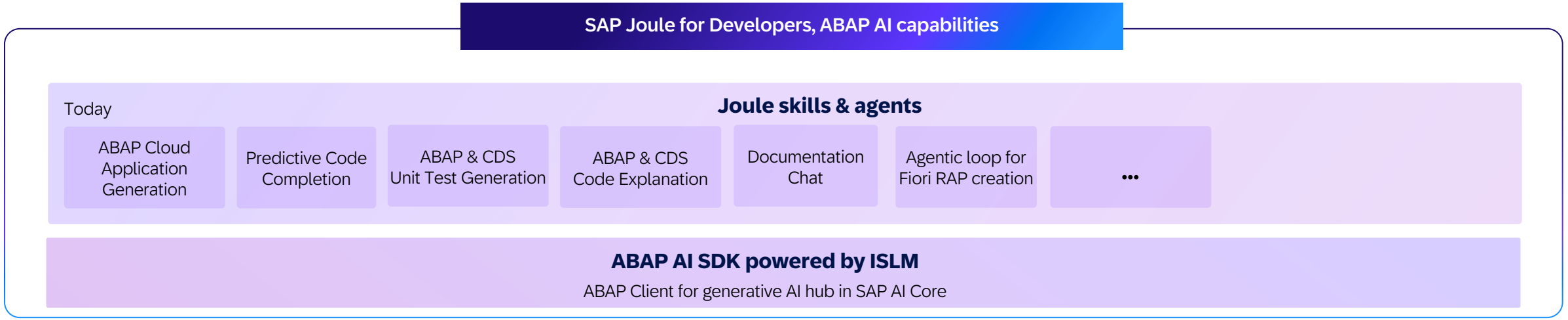
SAP Build Process Automation

Designed to accelerate automation workflows

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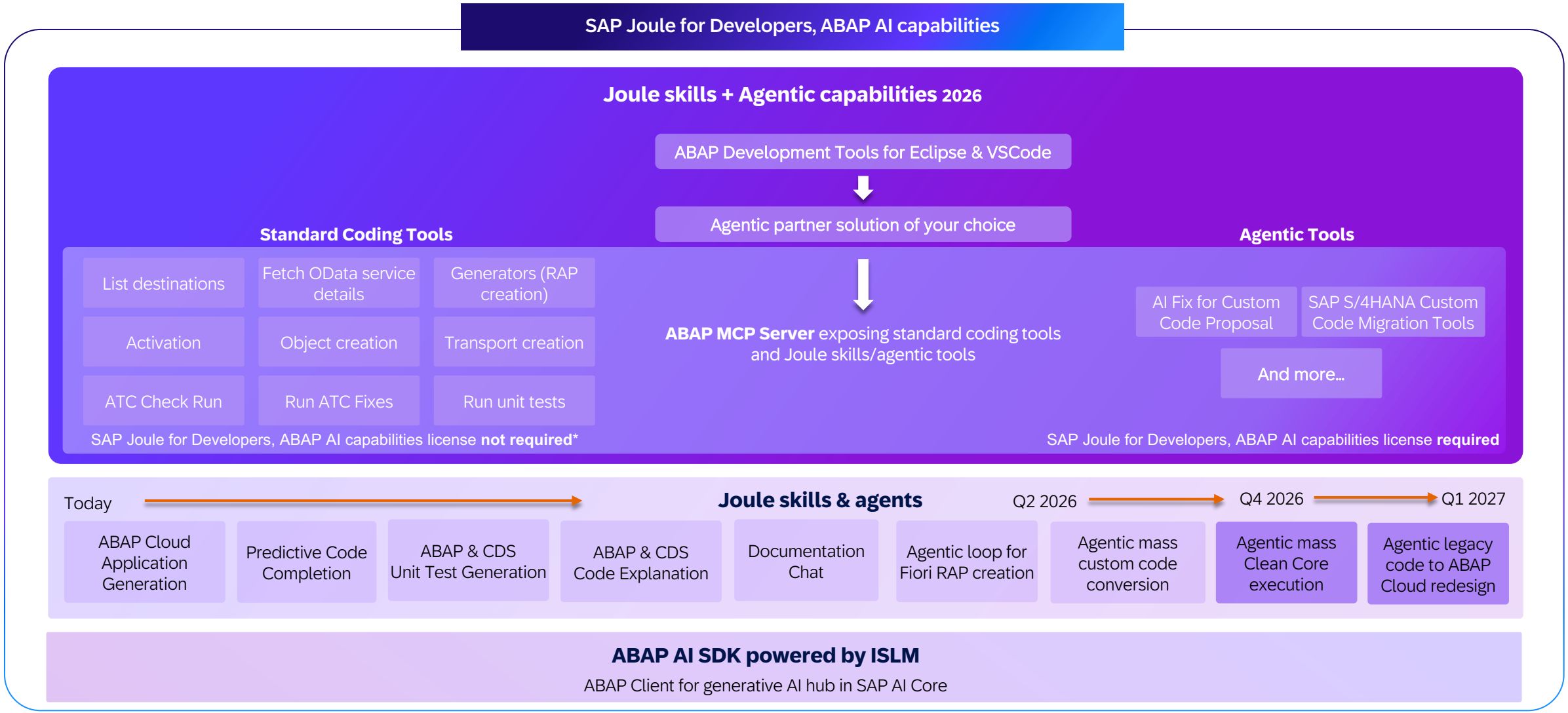
SAP Joule for Developers, ABAP AI capabilities

From Joule Skills to Agentic Capabilities



SAP Joule for Developers, ABAP AI capabilities

From Joule Skills to Agentic Capabilities



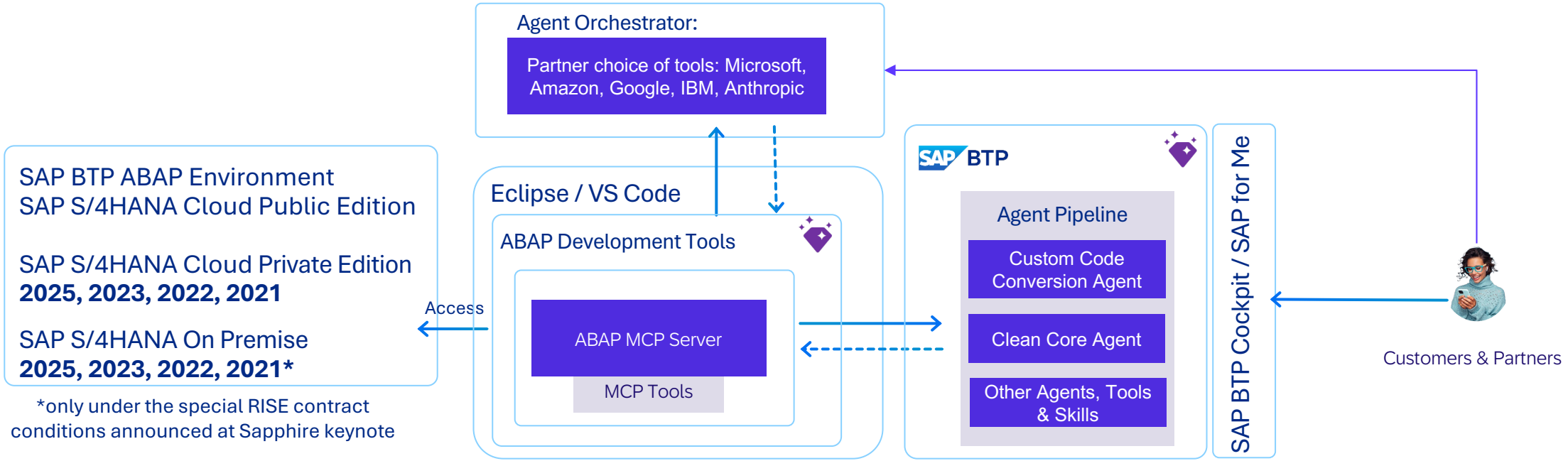
*You can use the standard ADT MCP coding tools without a license for SAP Joule for Developers, ABAP AI capabilities. However, a valid license is required to access SAP support for the ADT MCP server.

[Link - ADT MCP Server Tools]

INTERNAL SAP information Only

SAP Joule for Developers, Agentic Capabilities Architecture

From Joule Skills to Agentic Capabilities

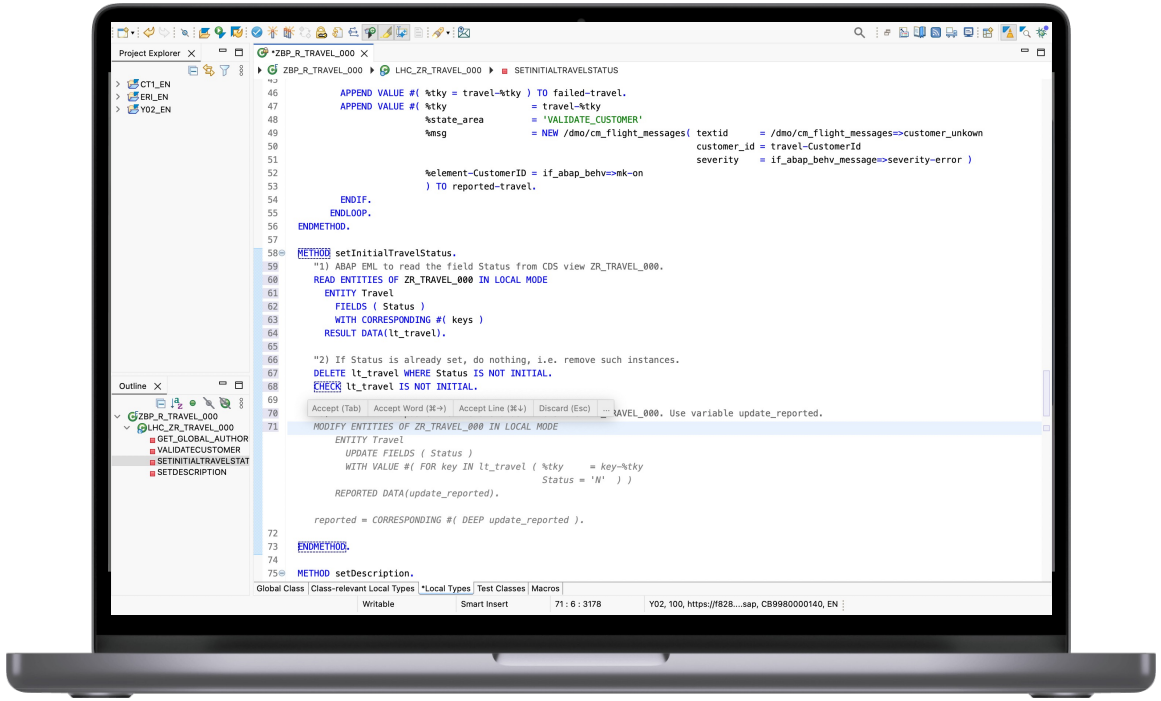


SAP Joule for Developers, ABAP AI capabilities

> As an **ABAP developer**, I want to develop ABAP cloud-ready applications and extensions more efficiently.

Features released since SAP BTP ABAP environment 2502

- Joule copilot
- Predictive code completion
- ABAP code data services (CDS) code explanation
- ABAP CDS unit test generation
- ABAP Cloud application generation
- Predict business logic in RESTful application programming model
- OData service consumption
- Extensibility assistant for key users—with custom field and custom logic generation (SAP S/4HANA Cloud Public Edition 2508)



Products

SAP BTP ABAP environment

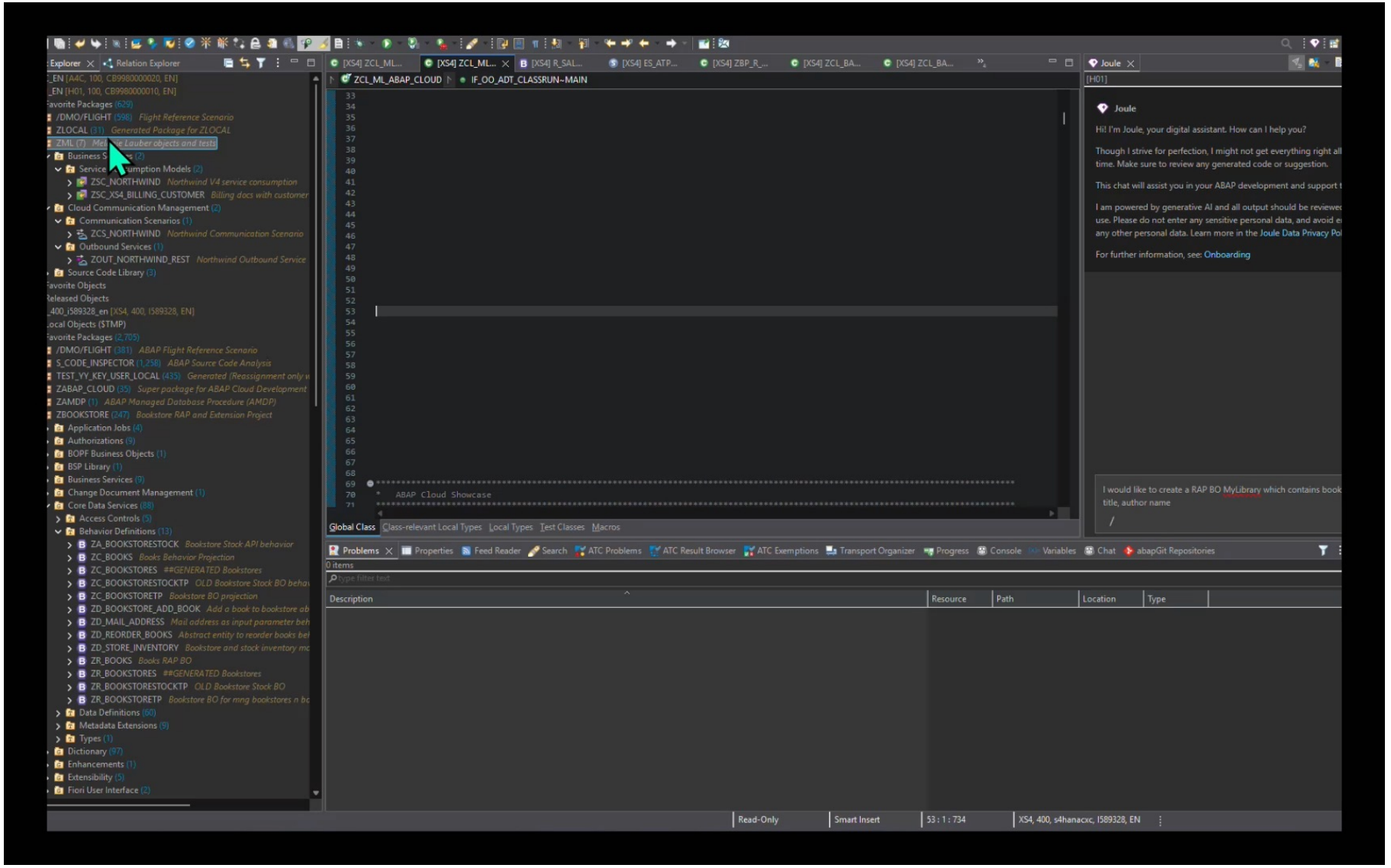
SAP S/4HANA Cloud Public Edition

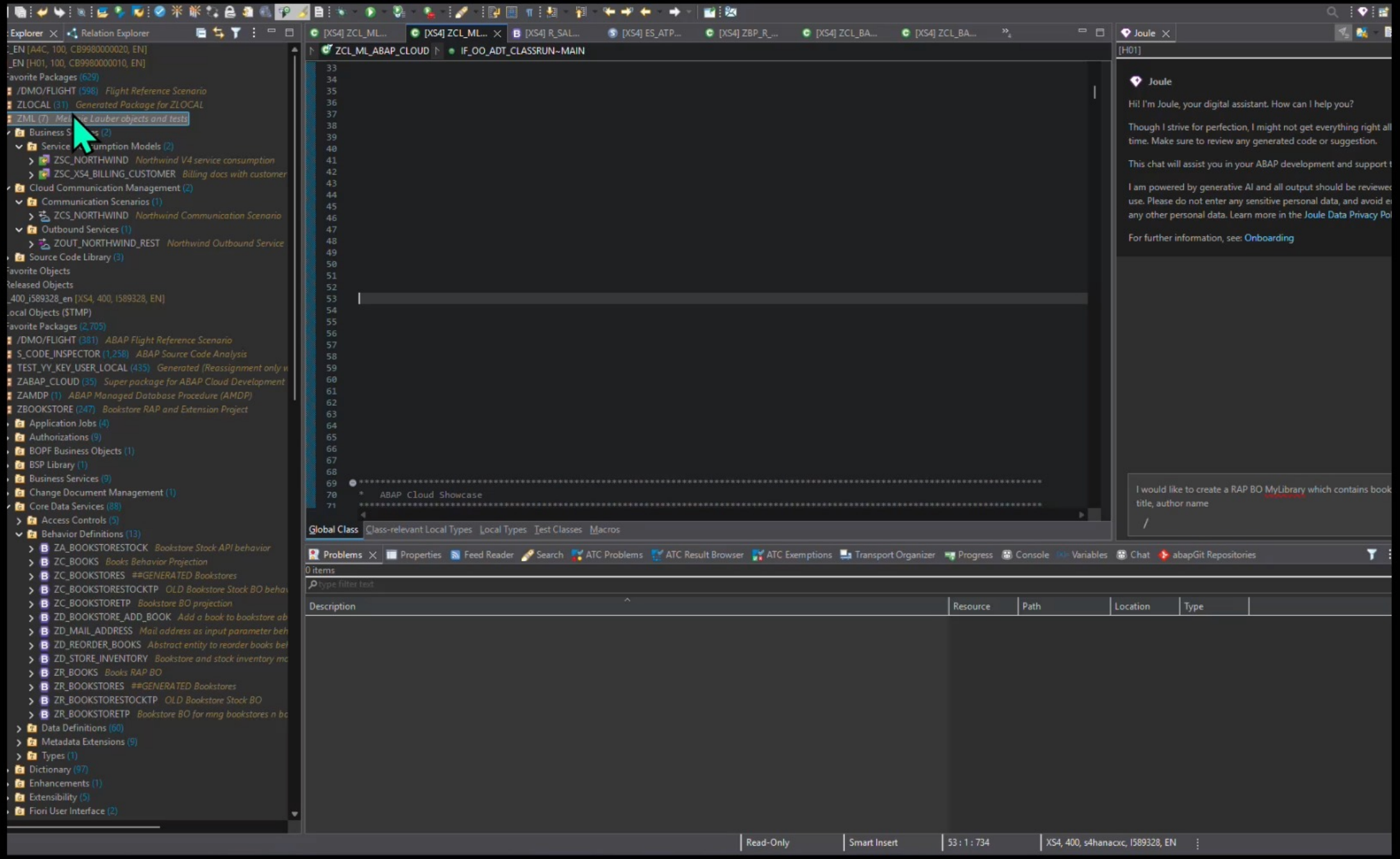
SAP S/4HANA Cloud Private Edition 2025
Updates for lower releases of SAP S/4HANA Cloud Private Edition [ABAP AI—Chapter 2]

[ABAP Cloud road map—generative AI]

Accelerate via Generation of an ABAP Cloud objects and code

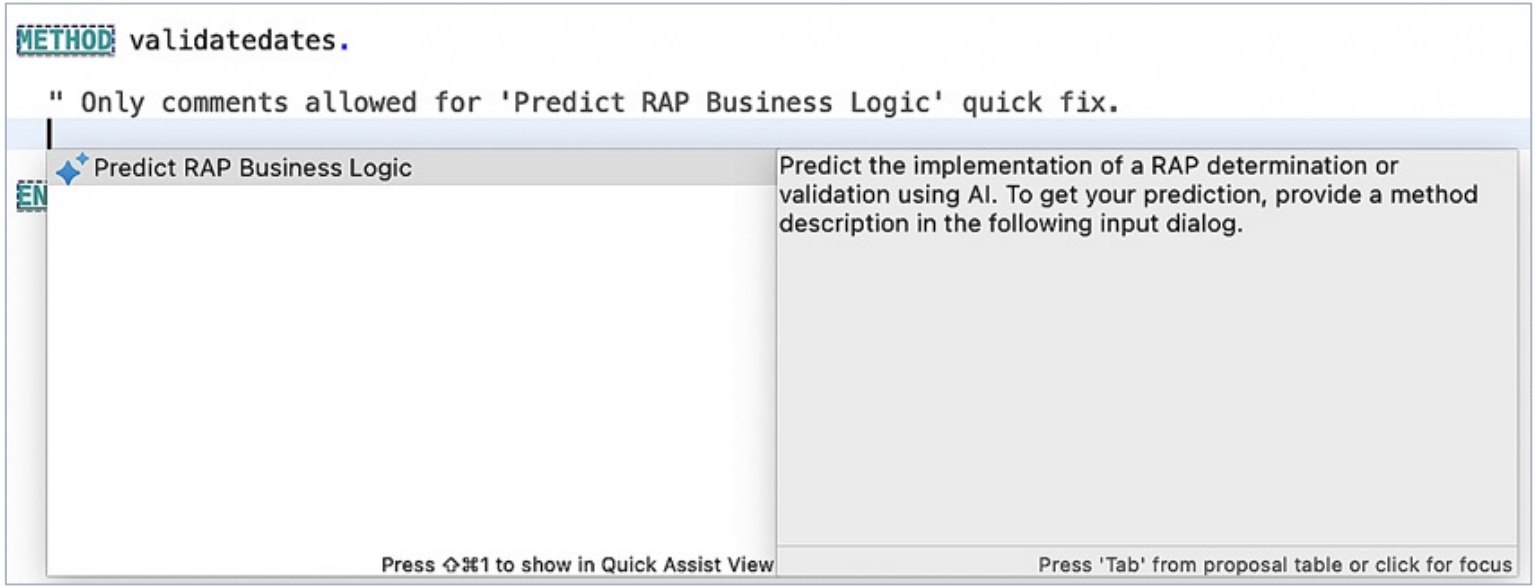
Generate an ABAP Cloud application based on RESTful application programming model (RAP) with data model, behavior definitions, service bindings, and OData services ready for UI consumption




Explorer
Relation Explorer
ZML (7) Me... Lauber objects and tests
Business S... (2)
Service ...umption Models (2)
ZSC_NORTHWIND Northwind V4 service consumption
ZSC_XS4_BILLING_CUSTOMER Billing docs with customer
Cloud Communication Management (2)
Communication Scenarios (1)
ZCS_NORTHWIND Northwind Communication Scenario
Outbound Services (1)
ZOUT_NORTHWIND_REST Northwind Outbound Service
Source Code Library (3)
Favorite Objects
Released Objects
Local Objects ($TMP)
Favorite Packages (2,705)
/DMO/FLIGHT (381) ABAP Flight Reference Scenario
S_CODE_INSPECTOR (1,258) ABAP Source Code Analysis
ZABAP_CLOUD (35) Super package for ABAP Cloud Development
ZAMDP (1) ABAP Managed Database Procedure (AMDP)
ZBOOKSTORE (247) Bookstore RAP and Extension Project
Application Jobs (4)
Authorizations (9)
BOPF Business Objects (1)
BSP Library (1)
Business Services (9)
Change Document Management (1)
Core Data Services (88)
Access Controls (5)
Behavior Definitions (13)
ZA_BOOKSTORESTOCK Bookstore Stock API behavior
ZC_BOOKS Books Behavior Projection
ZC_BOOKSTORES ##GENERATED Bookstores
ZC_BOOKSTORESTOCKTP OLD Bookstore Stock BO beha
ZC_BOOKSTORETP Bookstore BO projection
ZD_BOOKSTORE_ADD_BOOK Add a book to bookstore ab
ZD_MAIL_ADDRESS Mail address as input parameter beh
ZD_REORDER_BOOKS Abstract entity to reorder books bel
ZD_STORE_INVENTORY Bookstore and stock inventory mo
ZR_BOOKS Books RAP BO
ZR_BOOKSTORES ##GENERATED Bookstores
ZR_BOOKSTORESTOCKTP OLD Bookstore Stock BO
ZR_BOOKSTORETP Bookstore BO for mng bookstores n bo
Data Definitions (60)
Metadata Extensions (9)
Types (1)
Dictionary (97)
Enhancements (1)
Extensibility (5)
Fiori User Interface (2)
[XS4] ZCL_ML...
[XS4] ZCL_ML...
[XS4] R_SAL...
[XS4] ES_ATP...
[XS4] ZBP_R_...
[XS4] ZCL_BA...
[XS4] ZCL_BA...
ZCL_ML_ABAP_CLOUD
IF_OO_ADT_CLASSRUN~MAIN
ABAP Cloud Showcase
Global Class
Class-relevant Local Types
Local Types
Test Classes
Macros
Joule
[H01]
Joule
Hi! I'm Joule, your digital assistant. How can I help you?
Though I strive for perfection, I might not get everything right all
time. Make sure to review any generated code or suggestion.
This chat will assist you in your ABAP development and support t
I am powered by generative AI and all output should be reviewed
use. Please do not enter any sensitive personal data, and avoid e
any other personal data. Learn more in the Joule Data Privacy Pol
For further information, see: Onboarding
I would like to create a RAP BO MyLibrary which contains book
title, author name
Problems
Properties
Feed Reader
Search
ATC Problems
ATC Result Browser
ATC Exemptions
Transport Organizer
Progress
Console
Variables
Chat
abapGit Repositories
0 items
Type filter text
Description
Resource
Path
Location
Type
Read-Only
Smart Insert
53 : 1 : 734
XS4, 400, s4hanacxc, I589328, EN

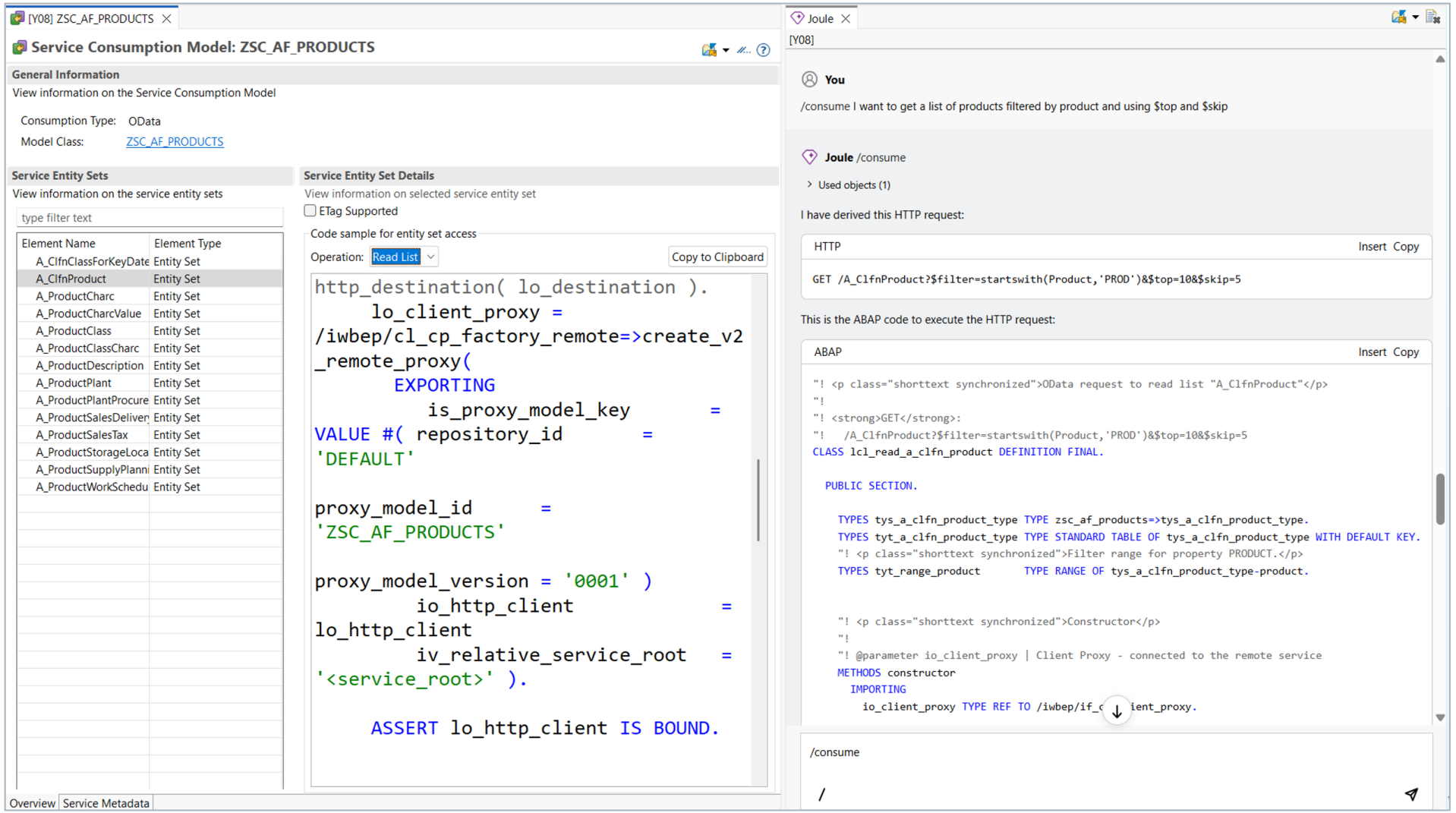
Accelerate via Generation of an ABAP Cloud objects and code

Generate the implementation of determination or validation with help of **business logic prediction in** RESTful application programming model



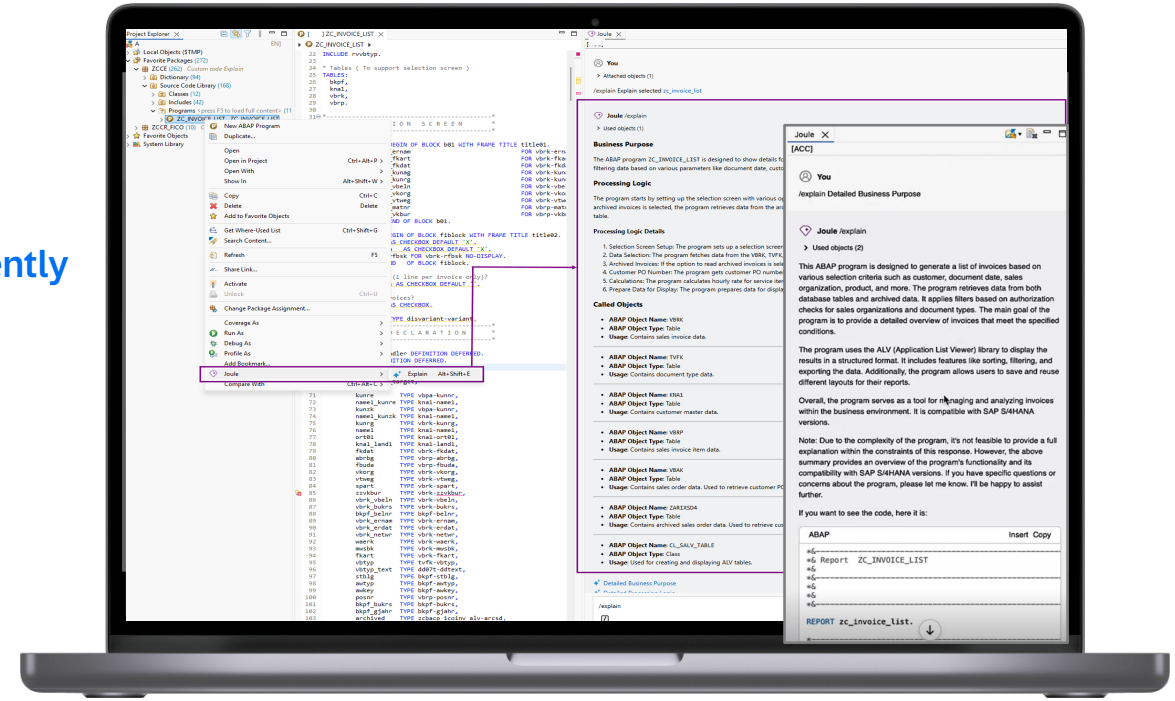
Accelerate via Generation of an ABAP Cloud objects and code

Generate OData request and ABAP code for consuming a corresponding OData call using the OData Client Proxy with help of **OData consumption**



SAP Joule for Developers, ABAP AI capabilities

> As an **ABAP developer**, I want to analyze, understand, and efficiently adapt classic ABAP code to SAP S/4HANA and clean core.



Scope with SAP S/4HANA Cloud Private Edition 2025:

Custom code analysis and adaptation to SAP S/4HANA

- Embedded in ABAP development tools for Eclipse (Joule copilot)
- Documentation chat for custom code migration to SAP S/4HANA
- Explain legacy code (reports)
- Explain ABAP test cockpit findings
  (SAP S/4HANA simplification issues)
- Code proposal for code adaptation
  (with SAP S/4HANA Cloud Private Edition 2025 FPS01)

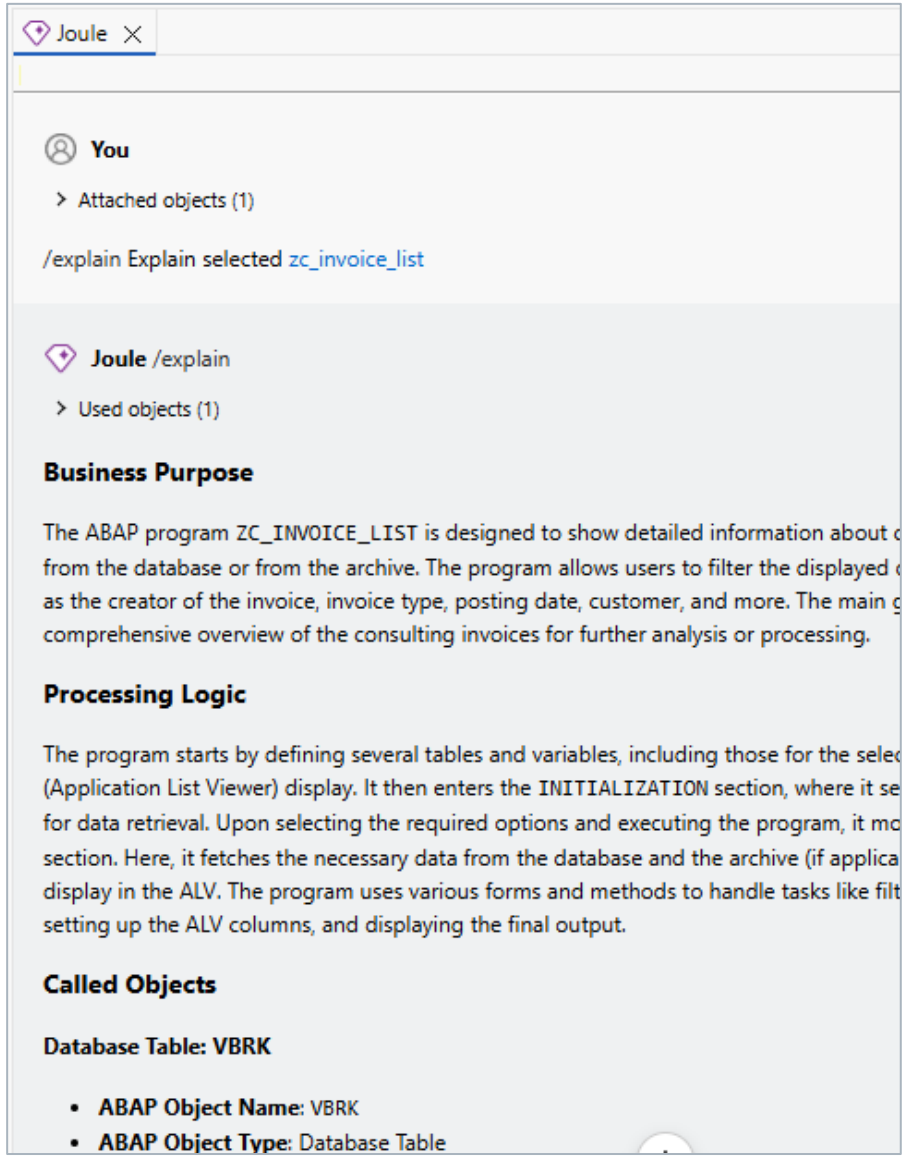
Products

SAP S/4HANA Cloud Private Edition
As of 2025 edition
Updates for lower releases of SAP S/4HANA Cloud Private Edition ABAP AI—Chapter 2

ABAP Cloud road map—generative AI

Custom code analysis and adaptation for SAP S/4HANA

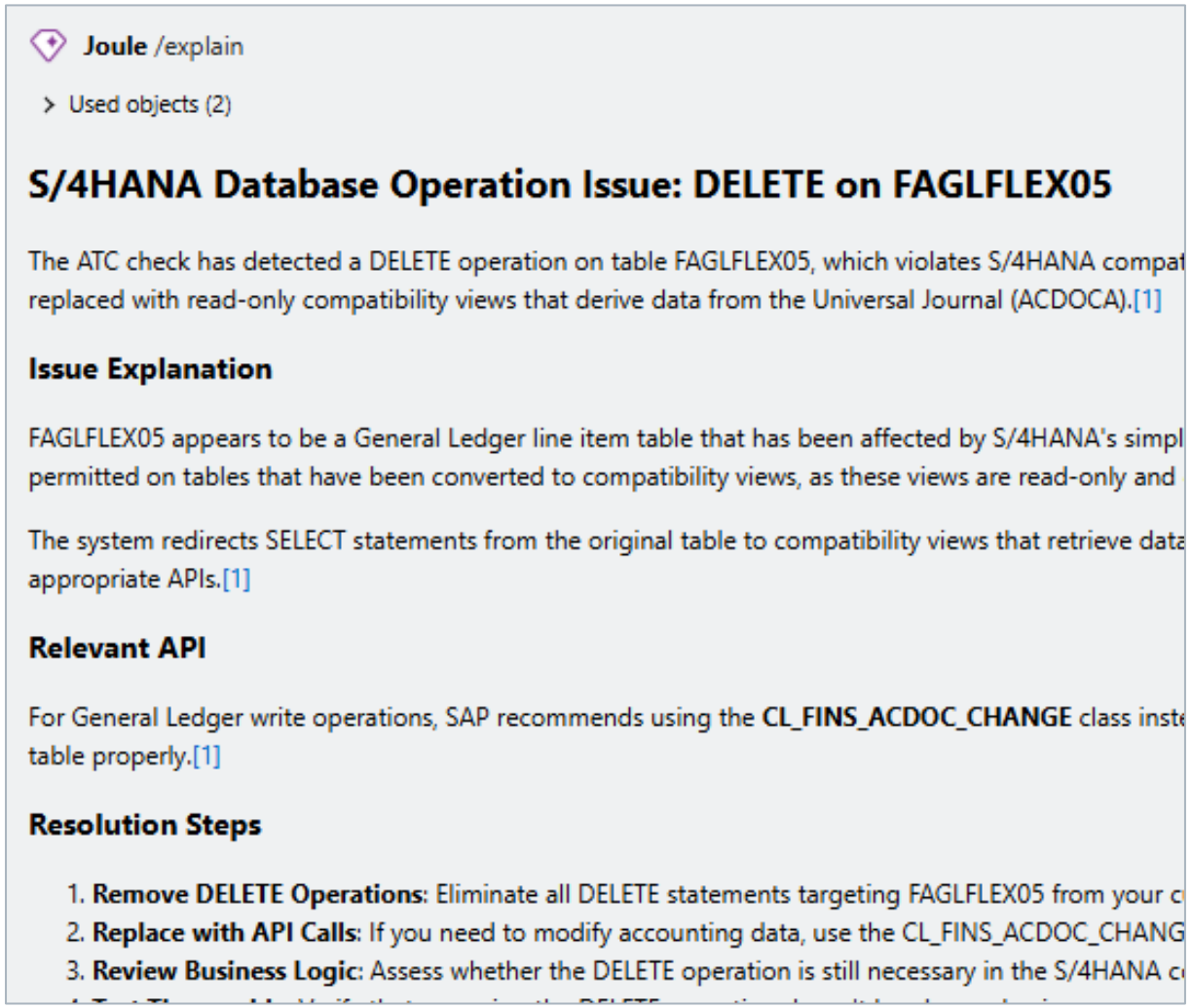
Explain report to quickly understand business purpose and processing logic of the old custom code, which must be adapted to SAP S/4HANA



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Custom code analysis and adaptation for SAP S/4HANA

Explain ABAP test cockpit finding to quickly grasp the root cause of the SAP S/4HANA–related issue in your custom code





Q & A

New Commercial Model for SAP Joule for Developers, ABAP AI Capabilities

https://community.sap.com/t5/artificial-intelligence-blogs-posts/sap-joule-for-developers-abap-ai-capabilities-including-agentic/ba-p/14417633

* availability is subject to the special RISE with SAP contract conditions

Road map information

Road map

SAP Joule for Developers, ABAP AI capabilities

ABAP Cloud road map—generative AI

SAP S/4HANA Cloud Private Edition 2025

ABAP Cloud

- Joule copilot
- Predictive code completion
- ABAP CDS code explanation
- ABAP CDS unit test generation
- ABAP Cloud application generation
- Predict business logic in RESTful application programming model
- OData consumption

Custom code migration

- Documentation chat for custom code migration to SAP S/4HANA
- Explain legacy code (reports)
- Explain SAP S/4HANA–related ABAP test cockpit findings
- Code proposal for code adaptation for SAP S/4HANA (with SAP S/4HANA 2025 FPS01)

SAP BTP ABAP environment 2511, 2602-2605, and SAP S/4HANA Cloud Public Edition 2602

- Developer documentation capability
- Transform use case in the Custom Code Migration app
  - Explain SAP S/4HANA–related ABAP test cockpit findings
  - Explain legacy code
- Explain clean core–related ABAP test cockpit findings
- CDS annotation and metadata extension generation
- CDS analytical query generation
- CDS analytical model generation
- RESTful application programming model input recommendations for SAP Fiori UIs

Thank you.

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