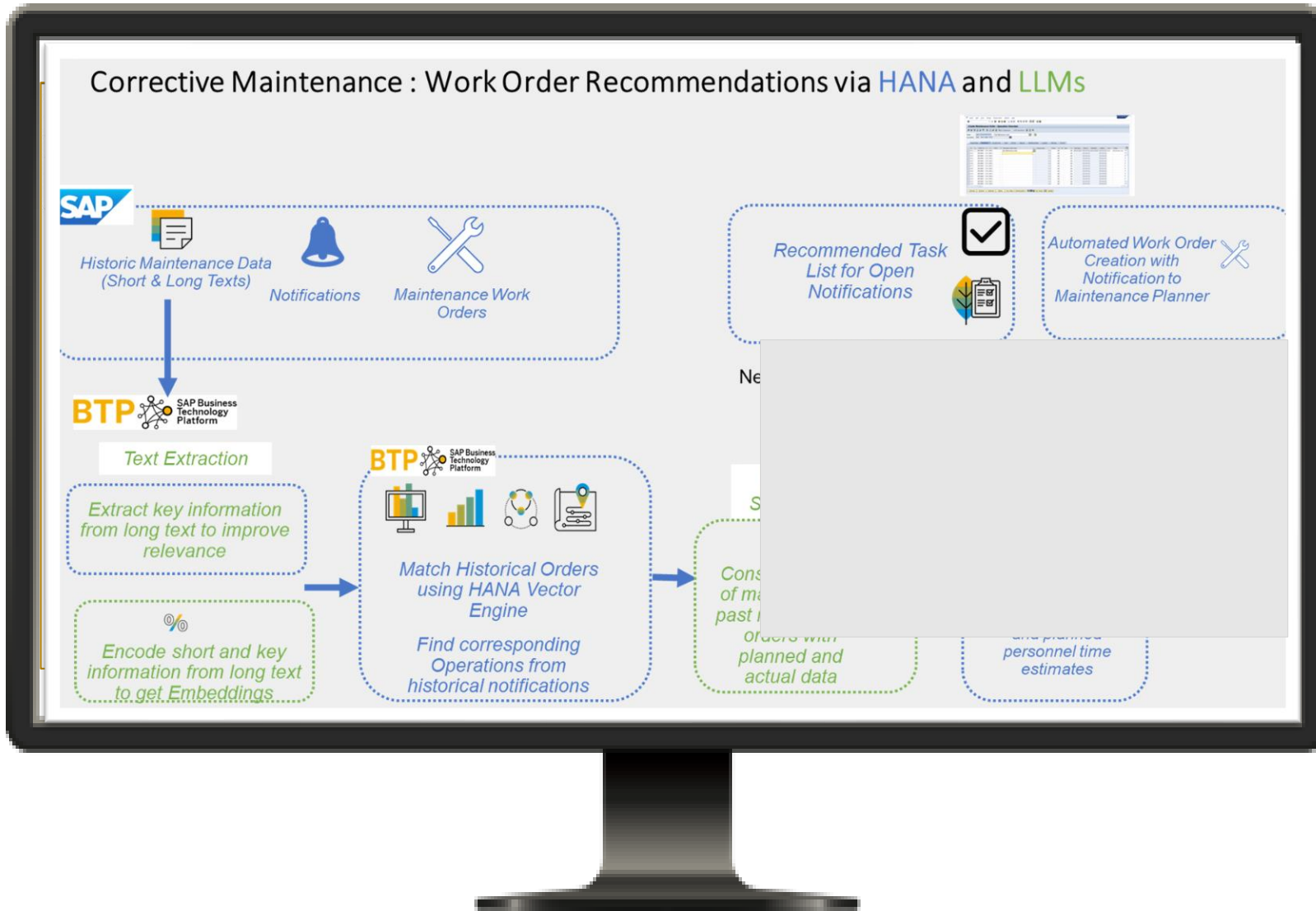




SAP Business Technology Platform – Use Cases

Pinaki Ray, Sr. Director Business Technology Platform
08.05.2024

AI Assisted Corrective Maintenance from Notification to WO Creation



Business Challenge

Maintenance Planners frequently need to create consistent Work Orders in response to Notifications. To streamline the process the planners need assistance from a template structures which best fits the current open notification



Solution

SAP Generative AI Hub LLM Services for similarity matching for long text and documents

SAP HANA Vector DB for scoring text embeddings

In-app extensions for Work Order selection with recommended templates based on historic planned and actual data

SAP Build Process Automation for orchestrating work order creation and notification to users

SAP Signavio for monitoring and triggering execution flows



Benefits and Value

Improved Process Efficiency for automatable Work Orders

Consistent Notification Handling between Planners for Time and Material Estimates

Reduced Manual Effort and Errors

SAP Business Technology Platform

SAP Change PM Notification: Corrective Maint.

Notification: 10000863 M1 Lub oil dirty

Notific. Status: NOPR YTT

Order:

Reference Object

Functional loc.: 1010-CWS-WCS-CWCP1 Cooling Water Circulation Pump#01

Equipment: 210100091 Cooling Water Circulation Pump

Assembly:

Subject

Coding: 1QMSTP LBR Problem notification

Description: Lub oil dirty

Subject Long Text:

06.10.2023 11:34:17 UTC (BIN31)

change lube oil and rectify overspeed trip.

As found condition: Lube oil dirty

Actions taken during RM: adv troubleshooting

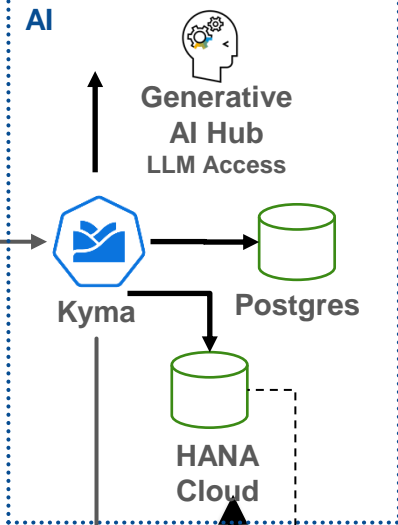
Responsibilities

Planner Group: 920 / 1010 PM-Planner Mech.

Main WorkCtr: BES-0100 / 1010 Mechanics

Automation

workflow



GenAI Score >= 95%



GenAI Score < 95%

User Feedback



1

Create new work order with user selected list recommended by AI



Data Replication

1

New notification
New notification created and released in ERP

2

Event trigger
New workflow starts when notification was released in the ERP system

3

AI
Use GenAI to find orders for similar past notifications and summarize a list of operations to use in a new order

4

Selection form
List of operations and components sent to planner to select the relevant ones for this order. Collect user feedback for AI results

5

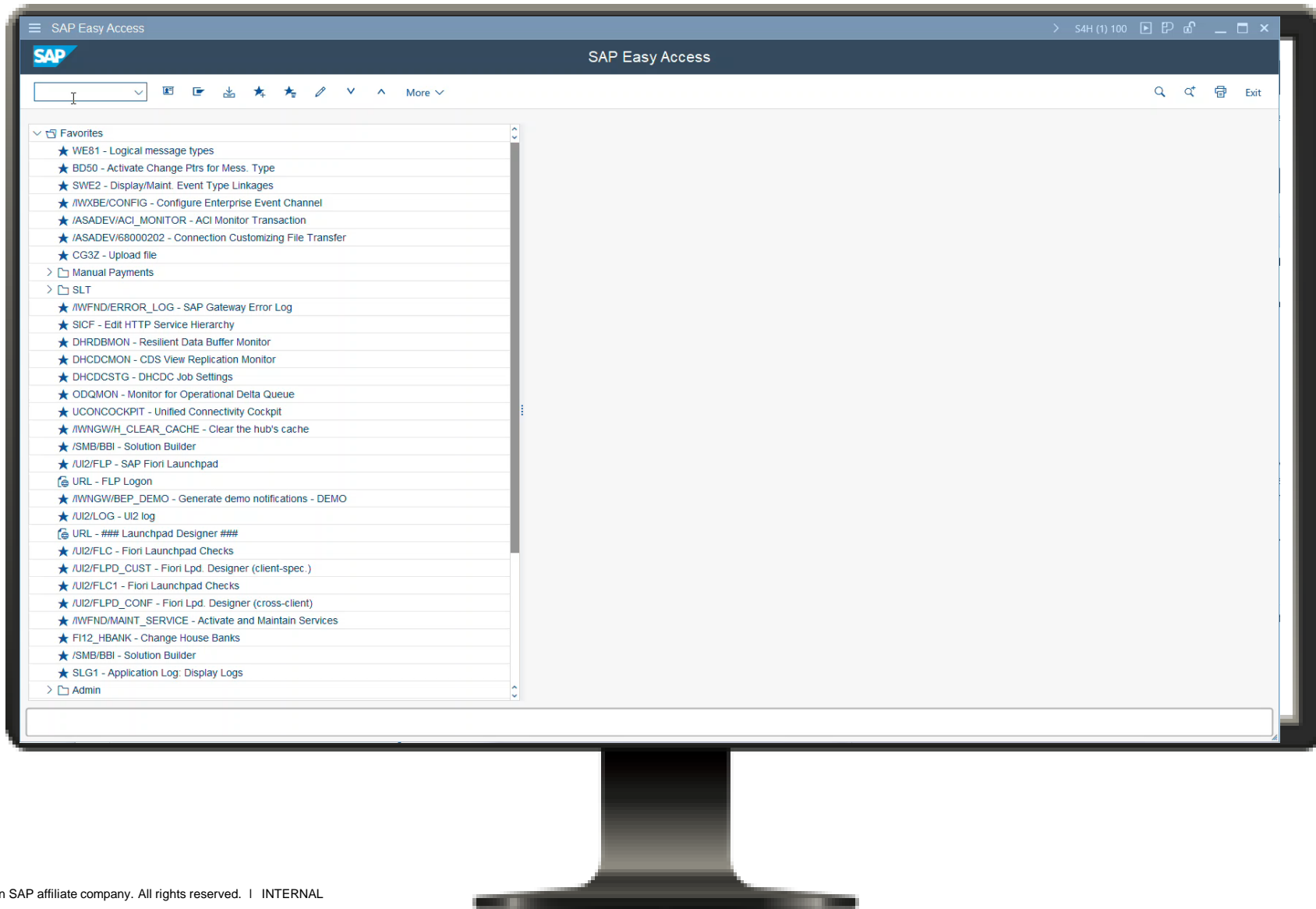
SAP ERP automation
Work order automatically created in the ERP system

6

Notification Email
Notify the planner that new work order was created or link to ERP Transaction for WO

SAP ERP

AI Assisted Corrective Maintenance from Notification to WO Creation



[Content Discovery](#)

Automated Accounting Advisor | Challenge

Accounting teams need to ensure accurate recording of business transactions while dealing with capacity limits, high time pressure and non-standard transactions



CHALLENGE



Accounting teams manage precise recording of company transactions.



Correct posting (e.g. account and document type) is crucial, but requires knowledge.



Month-end close deadlines impose additional stress which can lead to errors.

Automated Accounting Advisor | Solution – Functionality

The 'Automated Accounting Advisor' uses company-specific accounting guidelines and GenerativeAI to provide fast posting proposals to accountants, while keeping the “human in the loop”



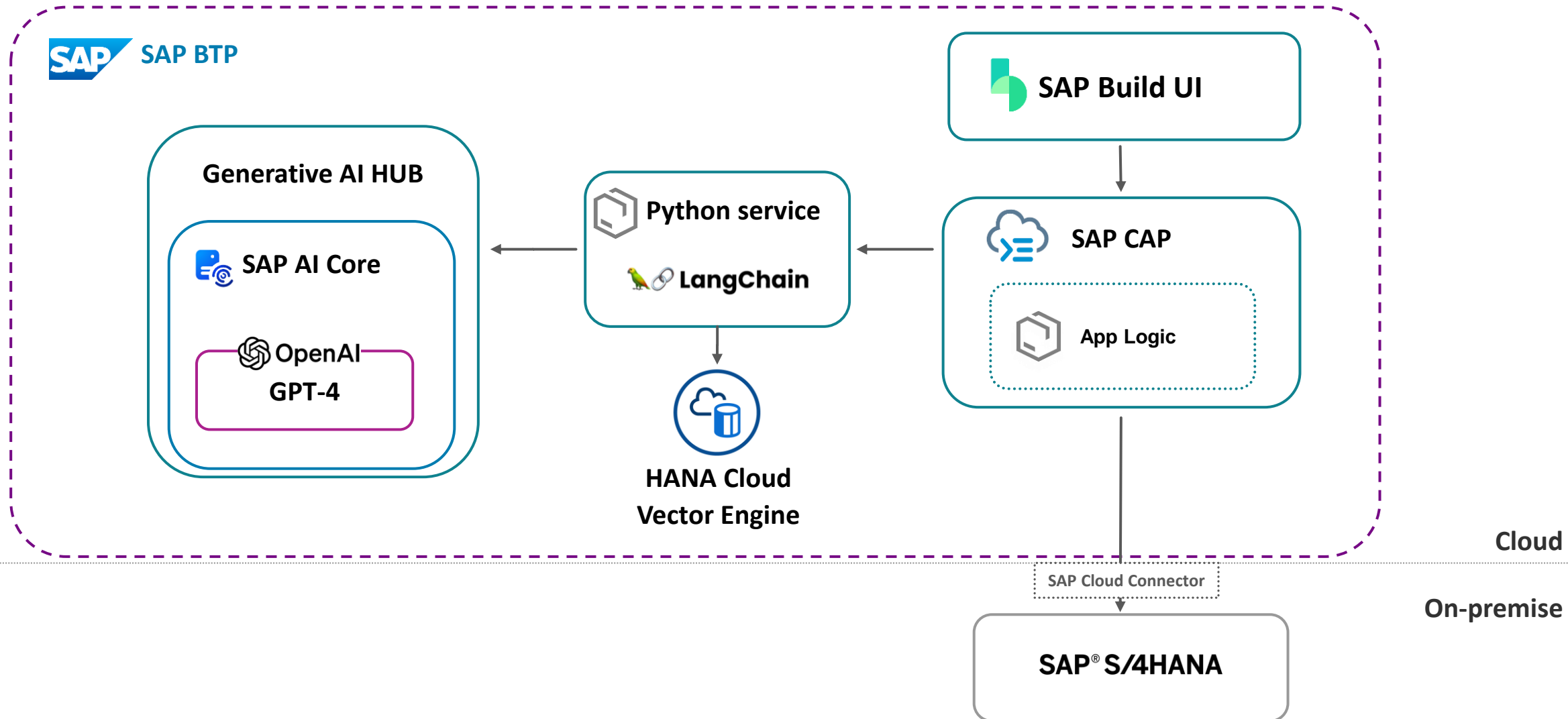
SOLUTION

"Automated Accounting Advisor"

- ✓ provides user-friendly chat interface
- ✓ matches transaction description with organization's accounting manual
- ✓ offers curated proposal for posting parameters of the business transaction
- ✓ after final review, can update the ERP system automatically

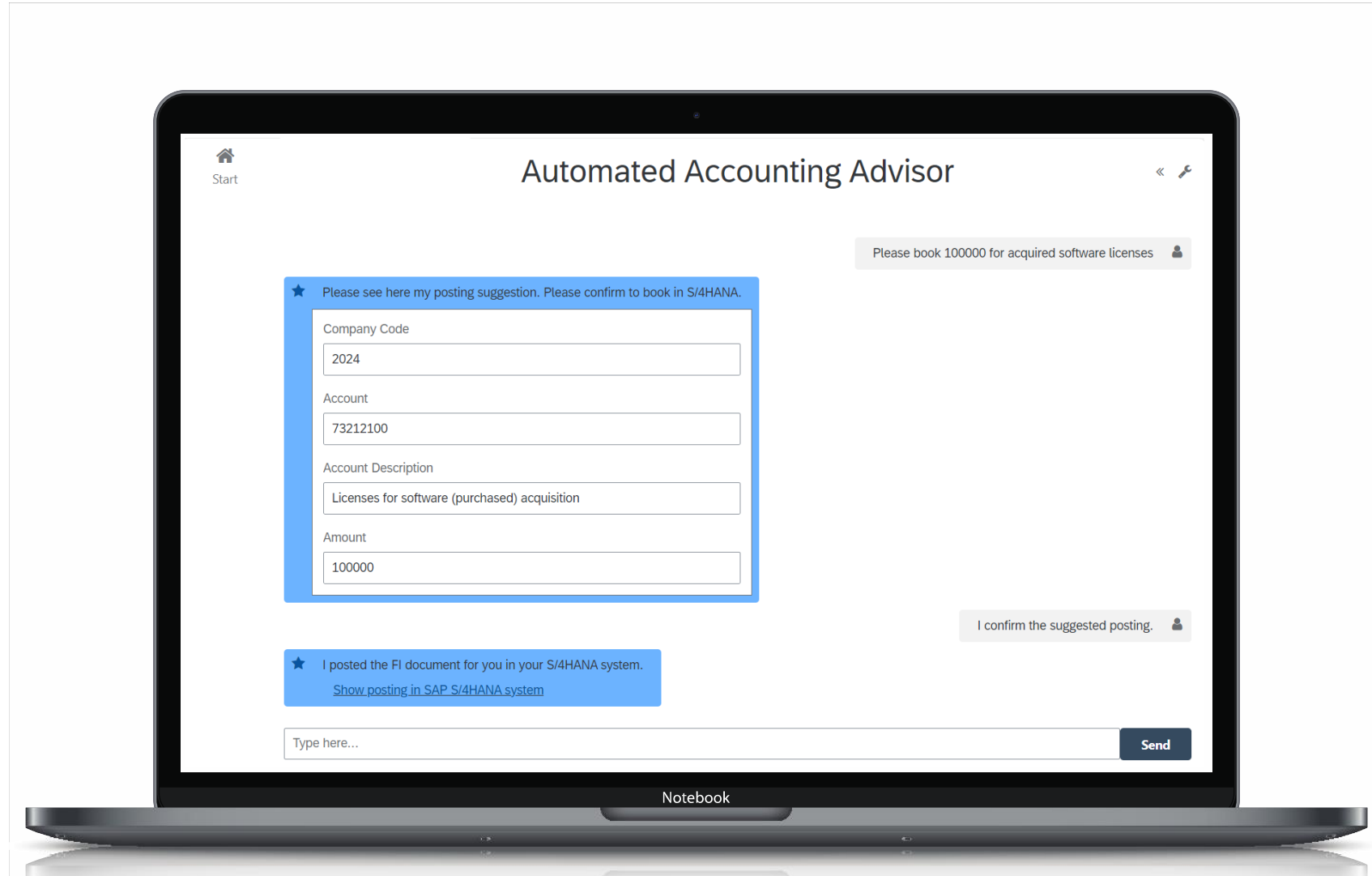
Automated Accounting Advisor | Solution – Architecture

Our architecture combines the latest SAP stack to transform natural language dialog and company-specific sources into S/4-compatible posting proposals.



Automated Accounting Advisor | Prototype demonstration

Now let's watch the 'Automated Accounting Advisor' in action!



Miele

Home

News & To-Do

Wed, 03 Jun 2020

Miele-Museum in Gütersloh zählt zu beliebtesten Museen Deutschlands - Neue Westfälische

Miele-Museum in Gütersloh zählt zu beliebtesten Museen Deutschlands - Neue Westfälische

"Miele" - Google News

Tickets Assigned To Me

2

My High Priority Tickets

0

Tickets Escalated To...

0

Unassigned Tickets

1

My Tasks

You're Up-to-Date. No overdue tasks today.

All Tickets

My Queue

2

My Team Queue

4

Get Appointments

Service Agent requests free Slots from FSM

Misto

Home

Live Activity Center

Customer Hub
Christian Günther

Ticket
10050 - Washing machin...

1

Your entries have been saved.

10050 - Washing machine requires fix...

Christian Günther

Subject
Washing machine requires fixing

Type
Service Request

Contract
-

Work Progress
Open

Priority
Normal

Overview

Interactions

Solution Finder

Surveys

Activities

Items

Related Items

Document Flow

Skills

Attachments

Changes

Timeline

GENIUS SEARCH

Items (1)

Line

Product

Description

Work Progress

Planned Quantity

Actual Quantity

Actual Start

Actual End

Action

10

REPAIR

Repair

Open

2 Hour(s)

1 Selected

K < 1 / 1 > |

General Data

Notes

Skill

Processing
Billing Request

Requested Start
20.06.2020 02:00

Actual Start
-

Coverage
-

Service Technician
-

Contract Restriction
-

Product Category
Wages and salaries

Requested End
20.06.2020 04:00

Actual End
-

Invoicing Method
Time and Material

Contract
-

Contract Item
-

+

✎

↺

Action

Escalate

Add Note

Set as Irrelevant

Assign to Me

Finish Work

Capture Signature

Generate Summary

Copy

Release For Scheduling

Get Next Ticket

Release To FSM

Check Consistency

Status
Open

Appointment Search

Start Date
20.06.2020 02:00 CET

End Date
20.06.2020 04:00 CET

Duration
2 Hour(s)

Get Appointments

Available Slots (5)

Noa Weisenfeld

Start Date Time:
20.06.2020 01:00 CET

End Date Time:
20.06.2020 03:00 CET

Driving Minutes (From):
1 Minute(s)

Driving Minutes (To):
1 Minute(s)

Pick SLOT:

✓

Ressource:
Noa Weisenfeld

Start Date Time:
20.06.2020 02:00 CET

End Date Time:
20.06.2020 04:00 CET

Driving Minutes (From):
1 Minute(s)

Driving Minutes (To):
1 Minute(s)

Pick SLOT:

✓

10050 - Washing machine requires fix...

Christian Günther    |   +

Subject
Washing machine requires fixing

Type
Service Request

Priority


Normal

Status
Open

Contract

Work Progress
Open

Overview Interactions Solution Finder Surveys Activities **Items** Related Items Document Flow Skills Attachments Changes Timeline GENIUS SEARCH

 Items (1)

✓	Line	Product	Description	Work Progress	Planned Quantity	Actual Quantity	Actual Start	Actual End	Action
✓	10	REPAIR	Repair	Open	2 Hour(s)				

✓

1 Selected

⏪

<

1

/ 1

>

⏩

General Data	Notes	Skill
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Processing Billing Request

Requested Start
20.06.2020 02:00

Actual Start
-

Coverage

Service Technician

Contract Restriction

Product Category
Wages and salaries

Requested End
20.06.2020 04:00

Actual End
-

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Time and Material

Contract

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[Get Appointments](#)

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Ressource:
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Start Date Time:
20.06.2020 02:00 CET

End Date Time:
20.06.2020 04:00 CET

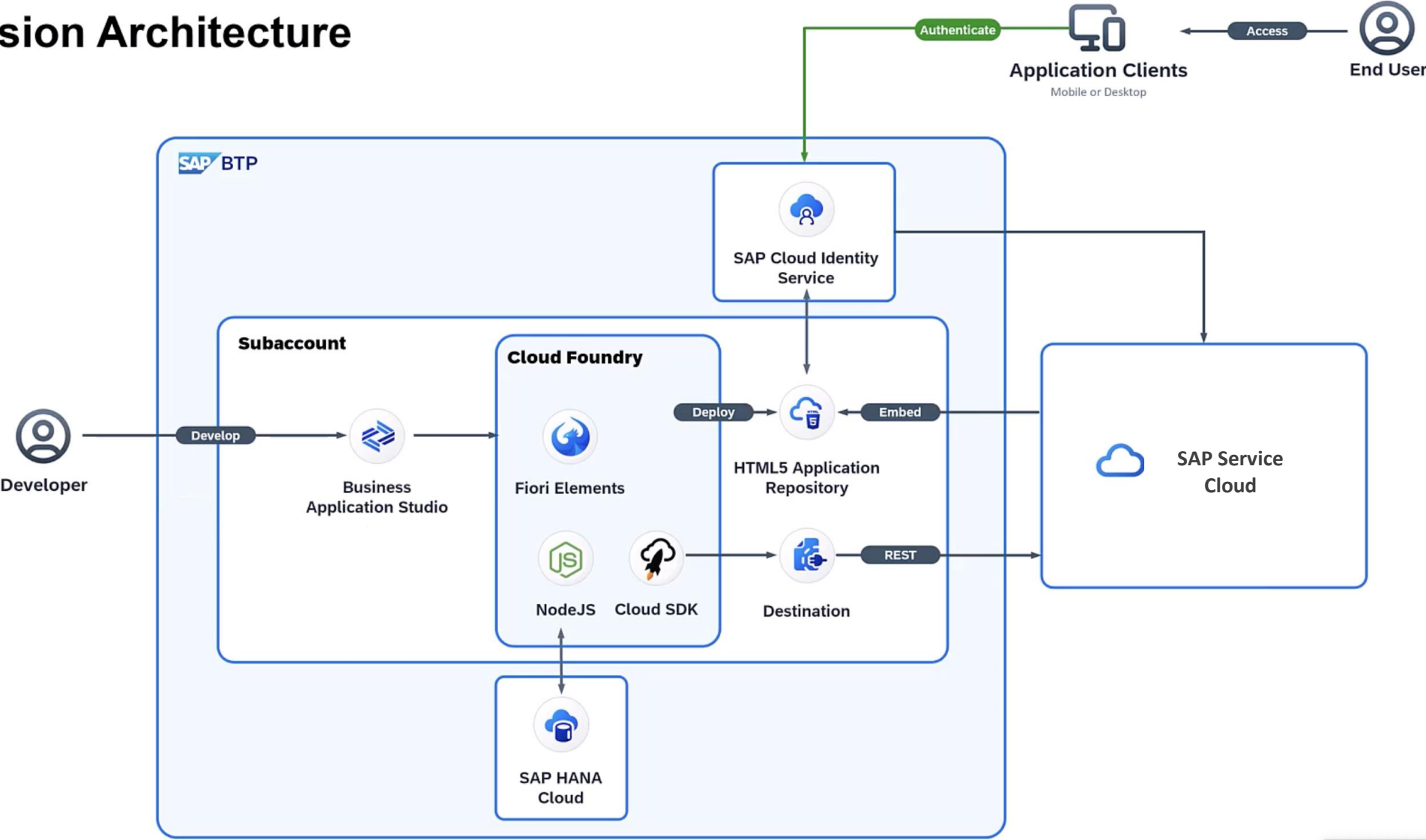
Driving Minutes (From):
1 Minute(s)

Driving Minutes (To):
1 Minute(s)

Pick SLOT:

- Escalate
- Add Note
- Set as Irrelevant
- Assign to Me
- Finish Work
- Capture Signature
- Generate Summary
- Copy
- Release For Scheduling
- Get Next Ticket
- Release To FSM
- Check Consistency

Extension Architecture



Adding Risk Details to Opportunity in Sales Cloud

Home

Guided Selling

Opportunity

Selling Super Pump Eco 11i

116 • IN PROCESS

Arral Energy DE

Opportunity

0

Overview

Timeline

€100,000

Expected Value

Adrian Chase

Owner

Pipeline

Forecast Category

Nov 30, 2023

Close Date

90 days

In Identify Opportunity Phase

Insights

No Results found

Days to Close

89 days ago

Status Change

0

Expected Value Change

€100,000

Times Closing Date Changed

2

Engagement

Opportunity | 116

Selling Super Pump Eco 11i

89 days past close date

Identify Oppor...

Qualify Opportunity

General

Geo Location

Changes

S4 Order

Project

Risks

Here are a few things you could do to accelerate the deal

You are ready to proceed.

Progress

Appointment on Init

Dec 9, 2023

Activities (0)

There are no activities

Latest Note

Edit Tabs

General

Geo Location

Changes

S4 Order

Project

Risks

Apply

Cancel

Search

Change Project Main Layout End Session

Opportunity | 116
Selling Super Pump Eco 11i

89 days past close date

Identify Oppor... Qualify Opportunity

General Geo Location Changes S4 Order Project Risks

Here are a few things you could do to accelerate the deal

You are ready to proceed. Progress

Appointment on Init
Dec 9, 2023

Activities (0)

There are no activities

Latest Note

Edit Tabs

- General
- Geo Location
- Changes
- S4 Order
- Project
- Risks

Apply Cancel

Search

Home Guided Selling

Opportunity | 116
Selling Super Pump Eco 11i

89 days past close date

Identify Oppor... Qualify Opportunity

General Geo Location Changes S4 Order Project Risks

Price-Sensitive Opportunity Draft

General Information Risks

Display ID: 409 Status: Open

Description: Price-Sensitive Opportunity Employee: Adrian Chase

Risks

Title	Mitigation	Priority*	Impact
<input type="checkbox"/> Quality not adequate	review third party contractors to ease service...	High	20,000
<input type="checkbox"/> Lower Consumption rate	investigate source of shipment request and r...	Me...	100,000
<input type="checkbox"/> Product feature Failure	review shipment procedure and stop deliver...	Low	5,000
<input type="checkbox"/> Strong competition	Find out their weakness	High	3,000

Steven Gary
Barbara Elliston
Jenny Summers
Adrian Chase
Mohan Kumar
Boris Graph
Mary Fox
Sara Davis
Maxwell Jannet
Robyn Gray
Connie Whitley
Eddie Smoke
Sara Davis
Pedro Borras
Liza Franklin

Home Guided Selling

Opportunity | 116
Selling Super Pump Eco 11i

89 days past close date

Identify Oppor... Qualify Opportunity

General Geo Location Changes S4 Order Project Risks

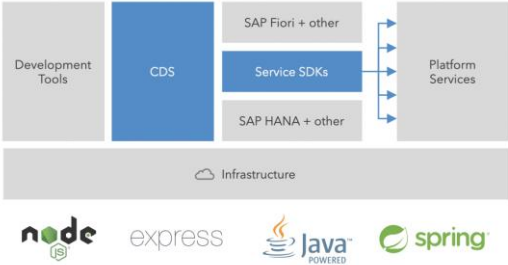
Price-Sensitive Opportunity Edit Delete

General Information Risks

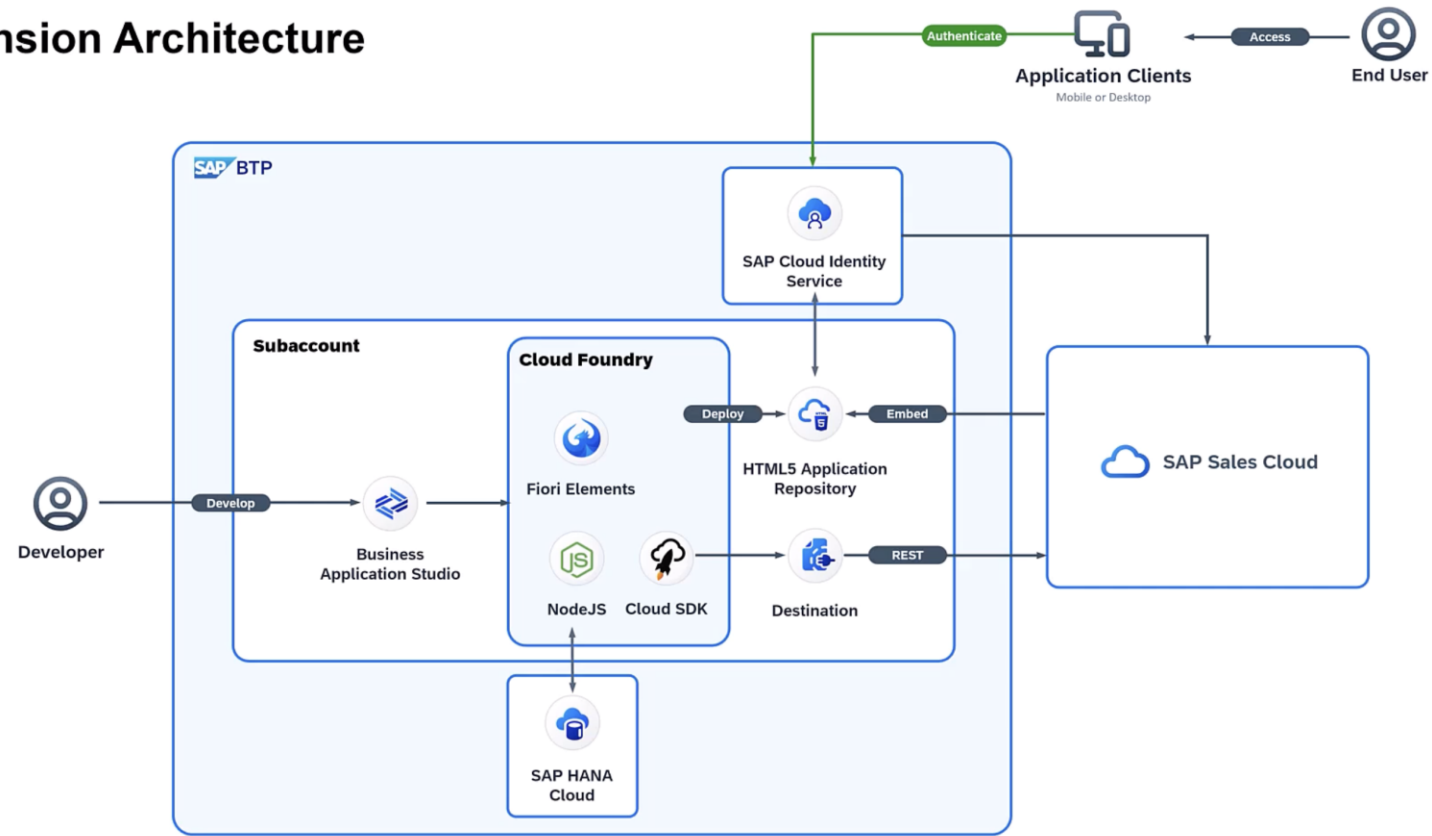
Risks

Title	Mitigation	Priority	Impact	Employee
Quality not adequate	review third party contractors to ease service delivery challenges	High	20,000	Steven Gary
Lower Consumption rate	investigate source of shipment request and revoke authorization	Medium	100,000	Steven Gary
Product feature Failure	review shipment procedure and stop delivery until further notice	Low	5,000	Steven Gary

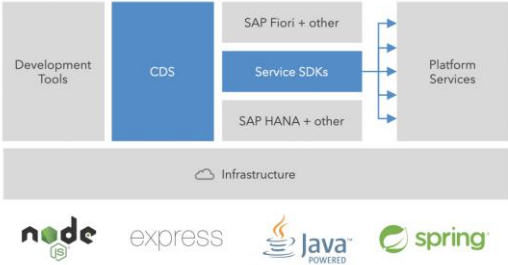
Extension Architecture



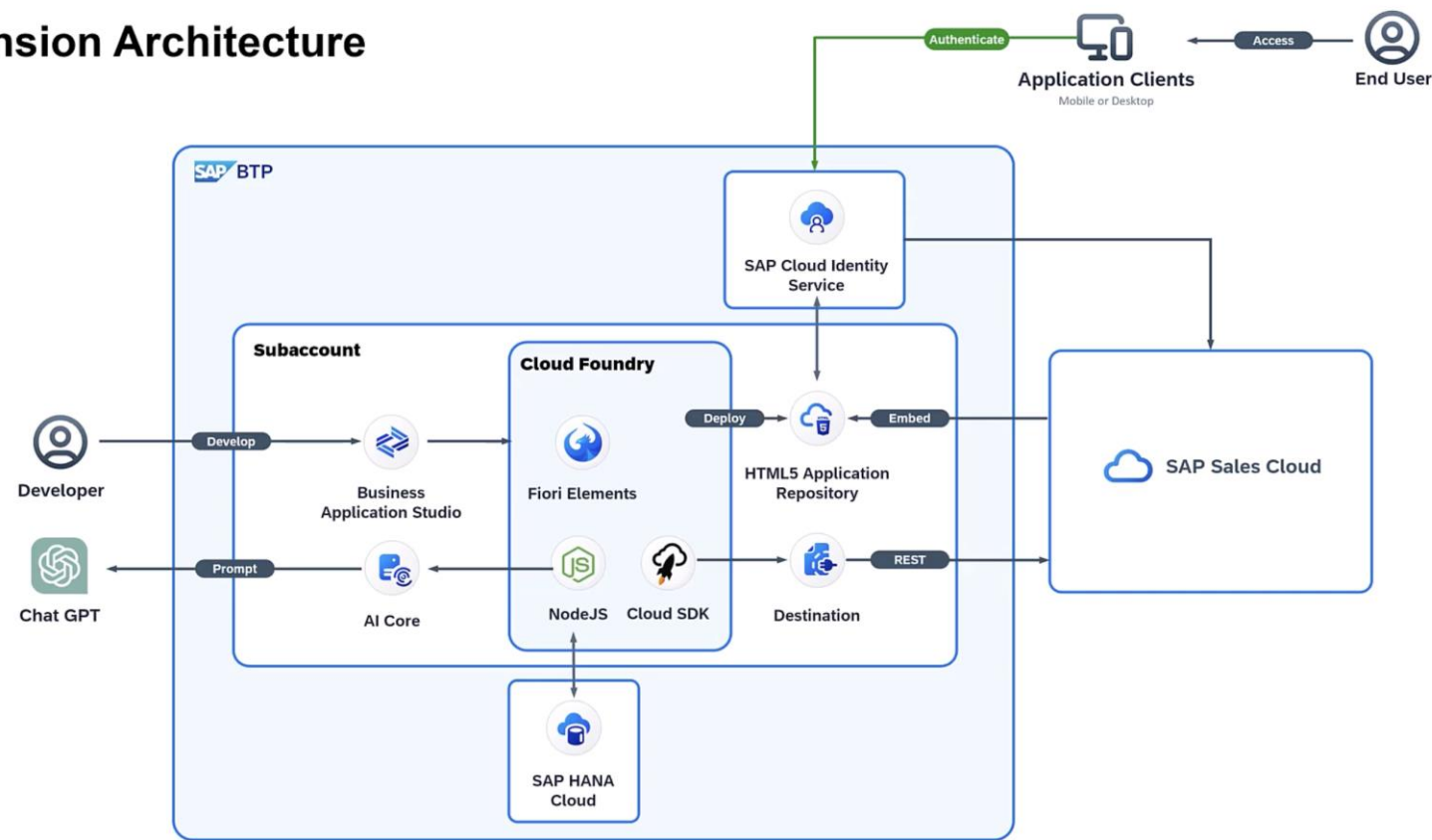
Extension Architecture



Extension Architecture



Extension Architecture



Thank you.

Pinaki Ray

Sr. Director BTP, SAP
Pinaki.ray@sap.com

