

AI Agent Studio demo.

Agent Team of type “Workflow”.

Scan-read PDF from SaaS invoice and generate JSON with LLM.

Introduction/Goal.

We will provide the steps to read a PDF file stored in Oracle ERP.

We will create a demo from scratch.

Flow.

1. Read invoice in parameter, assign to variable
2. Search invoice attachment using Business Object node.
3. Use LLM node to transform the PDF into JSON format and show.
4. Use a second LLM to convert Unit of Measure Name in JSON to UOM code.

Preparatory steps.

- Investigate the payables REST API before further steps.

First search invoice id with invoice number using this REST or a BI-Publisher query.

<https://fa-etit-saasfademo1.ds-fa.oraclepdemos.com/fscmRestApi/resources/11.13.18.05/invoices/?q=InvoiceNumber='D3-300000296208759'&fields=InvoiceId&onlyData=true>

GET https://fa-etit-saasfademo1.ds-fa.oraclepdemos.com/fscmRestApi/resources/11.13.18.05/invoices/?q=InvoiceNumber='D3-300000296208759'&fields=InvoiceId&onlyData=true

Key	Value	Description
q	InvoiceNumber='D3-300000296208759'	
fields	InvoiceId	
onlyData	true	

Body Cookies Headers (28) Test Results 200 OK • 739 ms • 1.0

```
{
  "items": [
    {
      "InvoiceId": 300000317626637
    }
  ],
  "count": 1,
  "hasMore": false,
}
```

Then search for attachments.

<https://fa-etit-saasfademo1.ds-fa.oraclepdemos.com/fscmRestApi/resources/11.13.18.05/invoices/300000296208759/child/attachments>

GET
https://fa-etit-saasfademo1.ds-fa.oraclepdemos.com:443/fscmRestApi/resources/11.13.18.05/invoices/3000000317626637/ch...
Send

Parameters
Authorization
Headers (10)
Body
Scripts
Tests
Settings
Cookies

Query Params

Key	Value	Description	Bulk Edit
fields	ItemNumber		

Body
Cookies
Headers (28)
Test Results

200 OK
720 ms
2.66 KB

JSON
Preview
Visualize

```

32  "Type": "File",
33  "links": [
34    {
35      "rel": "self",
36      "href": "https://fa-etit-saasfademo1.ds-fa.oraclepdemos.com:443/fscmRestApi/resources/11.13.18.05/invoices/3000000317626637/child/attachments/00020000000EACED00057708000110D9445D78CC0000000EACED00057708000110D9445D78CB",
37      "name": "attachments",
38      "kind": "item"
39    },
40    {
41      "rel": "canonical",
42      "href": "https://fa-etit-saasfademo1.ds-fa.oraclepdemos.com:443/fscmRestApi/resources/11.13.18.05/invoices/3000000317626637/child/attachments/00020000000EACED00057708000110D9445D78CC0000000EACED00057708000110D9445D78CB",
43      "name": "attachments",
44      "kind": "item"
45    }
46  ]

```

<https://fa-etit-saasfademo1.ds-fa.oraclepdemos.com:443/fscmRestApi/resources/11.13.18.05/invoices/300000317626637/child/attachments/00020000000EACED00057708000110D9445D78CC0000000EACED00057708000110D9445D78CB/enclosure/FileContents>

2 AI for Fusion Cookbook

- **Prepare the Payables Invoice with PDF attachment.**

We will play with invoice: “D3-300000296208759”.

Notice the attachment we have added manually (provided for demo purposes).

Manage Invoices ? Done

Search Results **D3-300000296208759**

Invoice Details

Not validated Actions Save Save and Close Cancel

Invoice Date 1/6/25 Invoice Amount 1,113.82 USD Business Unit US1 Business Unit

Invoice Type Standard Applied Prepayments 0.00 USD Payment Business Unit US1 Business Unit

Supplier or Party Lee Supplies Unpaid Amount 1,113.82 USD Payment Terms Immediate

Supplier Site Lee US1 Payment Currency USD

Address 5000 CARTER DR., LOS ANGELES, CA-90032 Holds 1 Attachments PO_US165029_0.pdf + X

Notes

Lines Holds and Approvals Payments Installments Distribution Details

Approval and Notification History

View [Icons] Detail

Workflow Type	Line	Action	Action Date	Approver	Reviewed Amount	Comments	Hold Reason
No approval or notification history.							

Holds ?

View + X [Icons] Detail Release Holds

Samples from PDF.

Purchase Order US165029

Purchase Order US165029

Supplier Details:

Company Lee Supplies
 Contact Ryan Lee
 Address 5000 CARTER DR.
 LOS ANGELES, CA 90032 LOS ANGELES

Submit your response to:

Company US1 Legal Entity
 Contact Calvin Roth
 Address 500 ORACLE PKWY
 REDWOOD CITY, CA 94065 SAN MATEO
 Phone 1-773-675-5336
 Fax
 E-mail CALVIN.ROTH_daadjb@oraclepdemos.com

This document has important legal consequences. The information contained in this document is proprietary of US1 Legal Entity. It shall not be used, reproduced, or disclosed to others without the express and written consent of US1 Legal Entity.

Bill To **US1 Business Unit**
411 University Street
SEATTLE, WA 98101 King
UNITED STATES

Ship To

Notes USD = US Dollar

Customer Account Number	Supplier Number	Payment Terms	Freight Terms	FOB	Shipping Method
	1252	Net 30	Buyer freight	pays Origin	
Confirm To			Deliver To Contact		
Calvin Roth			Calvin Roth		

Line	Item	Price	Quantity	UOM	Ordered	Taxable
1	Black Laser Printer Toner Cartridge	79.00		Ea		
	Supplier Item CMC04413					
	This line references Document (Blanket Purchase Agreement) 52236.					
		Promised	1	Ea	79.00	<input checked="" type="checkbox"/>

- **Business Object 1.**

Name: AP Get Invoice Attachment

Description: Retrieve the invoice attachment for a single invoice

Create a new business object

Family: FIN

Name: AP Get Invoice Attachment

Resource Type: Monolith resource

Product: Other

Code: ORA_FIN_OTHER_APGETINVOICEATT

Resource Path: /fscmRestApi/resources/11.13.18.05/invoices

Description: Retrieve the invoice attachment for a single invoice

Business Object Functions

+ Add from Specification Import

Name	Description	Resource Path	Actions
		/fscmRestApi/resources/11.13.18.05/invoices/	

URL from Oracle reference doc.

/fscmRestApi/resources/11.13.18.05/invoices/{invoicesUniqID}/child/attachments/{attachmentsUniqID}

Sample URL to get the attachment content.

https://fa-etit-saasfademo1.ds-fa.oraclepdemos.com:443/fscmRestApi/resources/11.13.18.05/invoices/300000317626637/child/attachments/00020000000EACED00057708000110D9445D78CC0000000EACED00057708000110D9445D78CB/enclosure/FileContents

Edit scenario - AP Get Invoice Attachment

Name: GetAttachmentFromInvoice

Description: Get a single Invoice Based on an Invoice Number

Operation Type: HTTP GET

Resource Path: /fscmRestApi/resources/11.13.18.05/invoices/{pInvoiceId}/child/attachments/{pAttachmentsUniqID}/enclosure/FileContents

Headers

Resource Path:

/fscmRestApi/resources/11.13.18.05/invoices/{pInvoiceId}/child/attachments/{pAttachmentsUniqID}/enclosure/FileContents

In this demo, the second parameter will be provided by the user.

Example usage.

Example Usages

+ Add

Description ↕	Sample Payload ↕	Actions
Retrieve Invoice attachment for invoice id "999" and Attachment Unique Id "ABCDE"	{"pInvoiceId":"0001","pAttachmentsUniqID":"ABCD"}	 

Retrieve Invoice attachment for invoice id "999" and Attachment Unique Id "ABCDE"	{ "pInvoiceId":"0001" , "pAttachmentsUniqID" : "ABCD" }
---	--

- **Business Object 2.**

Name: Get UOM2.

Edit businessobject - Get UOM2
Cancel
Save

Family
SCM

Product
SCM Foundation

Name
Get UOM2

Code
ORA_SCM_SCMFOUNDAT_GETUOM2

Resource Type
Monolith resource

Resource Path
/fscmRestApi/resources/11.13.18.05/unitsOfMeasure

Description
Returns a list of units of measure.

Resource path:

/fscmRestApi/resources/11.13.18.05/unitsOfMeasure?limit={pLimit}&onlyData=true&fields=UOM, UOMCode

Edit scenario - Get UOM2
Cancel
Done









Name
GetActiveUOM

Description
Returns the set of UOM

Operation Type
HTTP GET

Resource Path
/fscmRestApi/resources/11.13.18.05/unitsOfMeasure?limit={pLimit}&onlyData=true&fields=UOM,UOMCode

Parameters and Example Usage.

Parameters and Business Object Fields				
<div> Add Parameter Add Field Add Field from Specification </div>				
Name	Data Type	Description	Is Parameter	Actions
pLimit	number	Number of records to retrieve	true	 
UOMCode	string	UOM Code	false	 
UOM	string	UOM Name	false	 
Example Usages				
<div> + Add </div>				
Description	Sample Payload		Actions	
number of records	{ "pLimit": "10" }		 	

Agent Team steps.

Name: AA_READ_PDF_AND_SHOW.

Description: Read PDF in payables invoice attachment and show data in JSON format.

AA_READ_PDF_AND_SHOW

Details

LLM

Security

Triggers

Variables

Error Handling

Agent Team Name

AA_READ_PDF_AND_SHOW

Agent Team Code

AAREADPDFANDSHOW

Family

FIN

Product

Other

Type

Workflow

Maximum Interactions

Description

Read PDF and show content in JSON format

LLM tab.

AA_READ_PDF_AND_SHOW

Details

LLM

Security

Triggers

Variables

Error Handling

Provider

GPT-5 mini

Triggers tab.

AA_READ_PDF_AND_SHOW

Details

LLM

Security

Triggers

Variables

Error Handling

Webhook

+ Add

pAttachmentsUniqID

string

pInvoiceId

string

Variables tab.

AA_READ_PDF_AND_SHOW

Details

LLM

Security

Triggers

Variables

Error Handling

Variables

varAttachmentsUniqID

string

varInvoiceld

string

+ Add

Add the node to “Set Variables”.

Agent

Business Object Function

If Condition

Document Processor

Send Email

External REST

LLM

Set Variables

Vector DB Reader

Vector DB Writer

Now assign variables values from triggers.

InitVars

Set Variables

Name

InitVars

Code

INITVARS

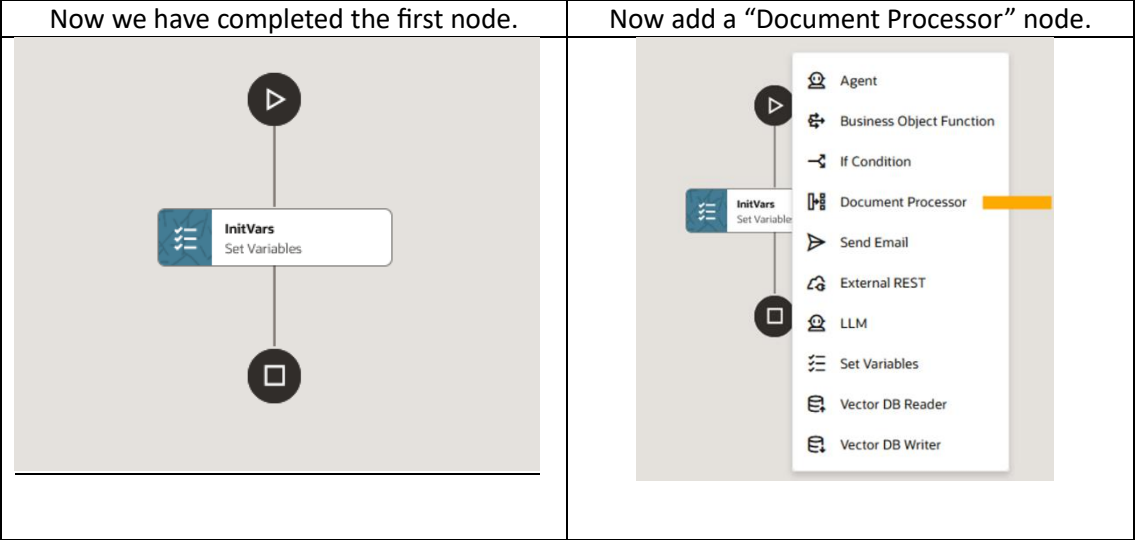
Variables

varAttachmentsUniqID

string

varInvoiceld

string



Name: ReadPDF.

Select business object: AP Get Invoice Attachment.

ReadPDF

Document Processor

Name

ReadPDF

Code

READPDF

Type

Document Processor

Family

FIN

Product

Other

Business object

AP Get Invoice Attachment

GetAttachmentFromInvoice

Parameters

pInvoiceId

string

pAttachmentsUniqID

string

Output

Output Specification

```
{
  "$schema": "http://json-schema.org/draft-04/schema#",
  "type": "object",
  "properties": {
    "text": {
      "type": "string"
    }
  },
  "required": [
    "text"
  ]
}
```

Assign parameters.

Parameters

Name pInvoiceId	Type String
--------------------	----------------

Value
{{context.\$variables.varInvoiceId}}

Type {{ to start seeing context-sensitive expressions.

Cancel Apply

Cancel Update

Parameters

pInvoiceId
string

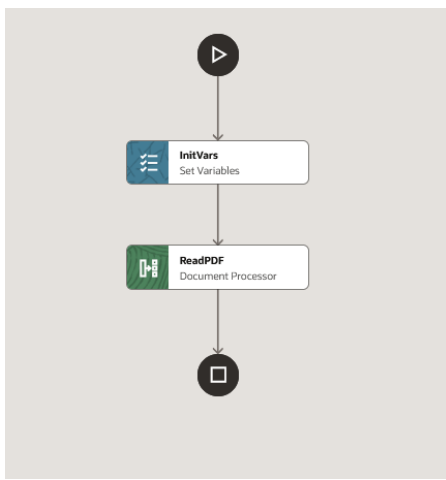
Name pAttachmentsUniqID	Type String
----------------------------	----------------

Value
{{context.\$variables.varAttachmentsUniqID}}

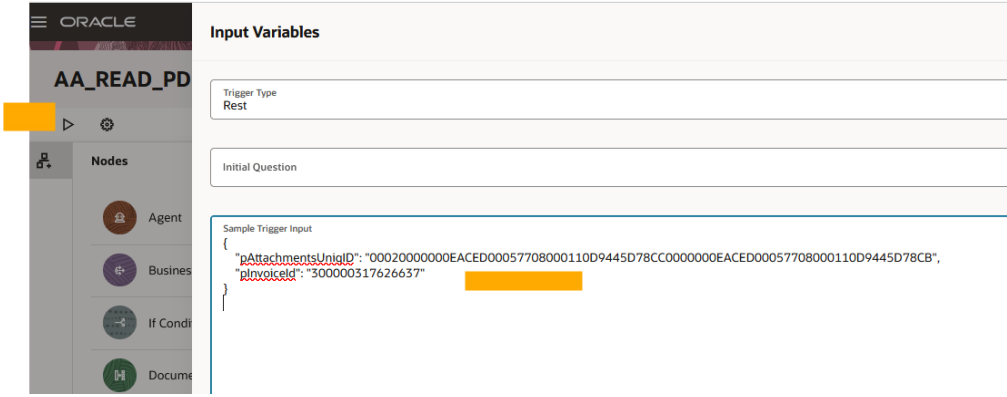
Type {{ to start seeing context-sensitive expressions.

Cancel Apply

Now our canvas looks like this.



Initial test.



ORACLE

AA_READ_PD

Nodes

- Agent
- Business
- If Condition
- Document

Input Variables

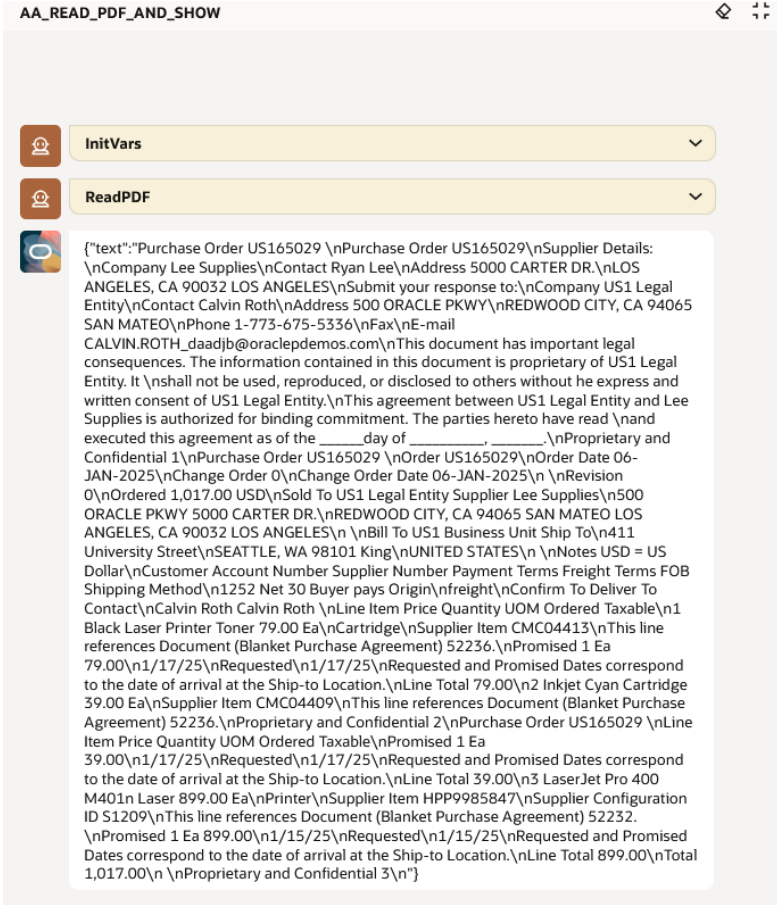
Trigger Type
Rest

Initial Question

Sample Trigger Input

```
{
  "pAttachmentsUniqID": "0002000000EACED00057708000110D9445D78CC000000EACED00057708000110D9445D78CB",
  "pInvoiceId": "300000317626637"
}
```

```
{
  "pAttachmentsUniqID":
"0002000000EACED00057708000110D9445D78CC000000EACED00057708000110D9445D78CB",
  "pInvoiceId": "300000317626637"
}
```



AA_READ_PDF_AND_SHOW

InitVars

ReadPDF

{ "text": "Purchase Order US165029 \nPurchase Order US165029\nSupplier Details:
\nCompany Lee Supplies\nContact Ryan Lee\nAddress 5000 CARTER DR.\nLOS ANGELES, CA 90032 LOS ANGELES\nSubmit your response to:\nCompany US1 Legal Entity\nContact Calvin Roth\nAddress 500 ORACLE PKWY\nREDWOOD CITY, CA 94065 SAN MATEO\nPhone 1-773-675-5336\nFax\nE-mail CALVIN.ROTH_daadjb@oraclepdemos.com\nThis document has important legal consequences. The information contained in this document is proprietary of US1 Legal Entity. It shall not be used, reproduced, or disclosed to others without the express and written consent of US1 Legal Entity.\nThis agreement between US1 Legal Entity and Lee Supplies is authorized for binding commitment. The parties hereto have read and executed this agreement as of the ____ day of _____, _____. \nProprietary and Confidential 1\nPurchase Order US165029 \nOrder US165029\nOrder Date 06-JAN-2025\nChange Order 0\nChange Order Date 06-JAN-2025\n\nRevision 0\nOrdered 1,017.00 USD\nSold To US1 Legal Entity Supplier Lee Supplies\n500 ORACLE PKWY 5000 CARTER DR.\nREDWOOD CITY, CA 94065 SAN MATEO LOS ANGELES, CA 90032 LOS ANGELES\n\nBill To US1 Business Unit Ship To\n411 University Street\nSEATTLE, WA 98101 King\nUNITED STATES\n\nNotes USD = US Dollar\nCustomer Account Number Supplier Number Payment Terms Freight Terms FOB Shipping Method\n1252 Net 30 Buyer pays Origin\nfreight\nConfirm To Deliver To Contact\nCalvin Roth Calvin Roth \nLine Item Price Quantity UOM Ordered Taxable\n1 Black Laser Printer Toner 79.00 Ea\nCartridge\nSupplier Item CMC04413\nThis line references Document (Blanket Purchase Agreement) 52236.\nPromised 1 Ea 79.00\n1/17/25\nRequested\n1/17/25\nRequested and Promised Dates correspond to the date of arrival at the Ship-to Location.\nLine Total 79.00\n2 Inkjet Cyan Cartridge 39.00 Ea\nSupplier Item CMC04409\nThis line references Document (Blanket Purchase Agreement) 52236.\nProprietary and Confidential 2\nPurchase Order US165029 \nLine Item Price Quantity UOM Ordered Taxable\nPromised 1 Ea 39.00\n1/17/25\nRequested\n1/17/25\nRequested and Promised Dates correspond to the date of arrival at the Ship-to Location.\nLine Total 39.00\n3 LaserJet Pro 400 M401n Laser 899.00 Ea\nPrinter\nSupplier Item HPP985847\nSupplier Configuration ID S1209\nThis line references Document (Blanket Purchase Agreement) 52232. \nPromised 1 Ea 899.00\n1/15/25\nRequested\n1/15/25\nRequested and Promised Dates correspond to the date of arrival at the Ship-to Location.\nLine Total 899.00\nTotal 1,017.00\n\nProprietary and Confidential 3\n"

Notice the JSON output provides a long string in the field text, which is good for an initial testing but not very useful.

Changes Part 1. First LLM.

This will be our “Prompt”.

DEMO_LLM_1
LLM

Name DEMO_LLM_1	Code DEMOLL1	Type LLM
--------------------	-----------------	-------------

Prompt

EXTRACTION CHALLENGE:
You're analyzing the following document with varied formats. `{{context.$nodes.READPDF.$output.text}}`

The document consists of header information and line information.
a. Header information can appear anywhere in the document and in any format.
b. Line information can appear in different structures:

COMPREHENSIVE EXTRACTION STRATEGY:
1. Scan the ENTIRE document, not just the top portion
2. Look for supplier information in all possible locations
4. Pay attention to indentation and formatting that indicates hierarchical relationships
5. Look for totals and subtotals to verify your extraction accuracy
6. Do not add any items that are not mentioned in the quotation document

Type `{{` to start seeing context-sensitive expressions.

Temperature
DEMO

Type `{{` to start seeing context-sensitive expressions.

```
### EXTRACTION CHALLENGE:
You're analyzing the following document with varied formats.
{{context.$nodes.READPDF.$output.text}}

The document consists of header information and line information.
a. Header information can appear anywhere in the document and in any format.
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### COMPREHENSIVE EXTRACTION STRATEGY:
1. Scan the ENTIRE document, not just the top portion
2. Look for supplier information in all possible locations
4. Pay attention to indentation and formatting that indicates hierarchical relationships
5. Look for totals and subtotals to verify your extraction accuracy
6. Do not add any items that are not mentioned in the quotation document
```

And the Output.

Note: we have used the one from “Quote to PR” example for learning purposes and save time.

DEMO_LLM_1

LLM

Name

DEMO_LLM_1

Code

DEMOLL1

Type

LLM

Prompt

EXTRACTION CHALLENGE:

Type ([to start seeing context-sensitive expressions.

Temperature

DEMO

Type ([to start seeing context-sensitive expressions.

Output

Output Builder Mode

☒ Specification Mode

☐ Simple Mode

Properties

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "object",
  "properties": {
    "header": {
      "type": "object",
      "properties": {
        "PreparerId": { "type": "string" },
        "RequisitionDescription": { "type": "string" },
        "SupplierNameFromDocument": { "type": "string" },
        "NormalizedSupplierName": { "type": "string" },
        "SupplierContactEmail": { "type": "string", "format": "email" },
        "SupplierContact": { "type": "string" },
        "SupplierContactPhone": { "type": "string" },
        "SupplierContactFax": { "type": "string" },
        "SupplierSite": { "type": "string" },
        "SupplierContactEmailDomain": { "type": "string" },
        "CurrencyCode": { "type": "string" },

```

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "object",
  "properties": {
    "header": {
      "type": "object",
      "properties": {
        "PreparerId": { "type": "string" },
        "RequisitionDescription": { "type": "string" },
        "SupplierNameFromDocument": { "type": "string" },
        "NormalizedSupplierName": { "type": "string" },
        "SupplierContactEmail": { "type": "string", "format": "email" },
        "SupplierContact": { "type": "string" },
        "SupplierContactPhone": { "type": "string" },
        "SupplierContactFax": { "type": "string" },
        "SupplierSite": { "type": "string" },
        "SupplierContactEmailDomain": { "type": "string" },
        "CurrencyCode": { "type": "string" },
        "QuotationNumber": { "type": "string" },
        "Date": { "type": "string" },
        "AttachmentFileName": { "type": "string" },
        "AttachmentCategoryName": { "type": "string" },
        "AttachmentAsyncTrackerId": { "type": "string" }
      },
      "required": [
        "PreparerId",
        "RequisitionDescription",
        "SupplierNameFromDocument",
        "NormalizedSupplierName",
        "SupplierContactEmail",
        "SupplierContact",
        "SupplierContactPhone",
        "SupplierContactFax",
        "SupplierSite",
        "SupplierContactEmailDomain",
        "CurrencyCode",
        "AttachmentFileName",
        "AttachmentAsyncTrackerId"
      ]
    },
    "lines": {
      "type": "array",
      "items": {
        "type": "object",
        "properties": {

```

```

    "LineNumber": { "type": "string" },
    "ItemDescription": { "type": "string" },
    "SupplierItemNumber": { "type": "string" },
    "Quantity": { "type": "number" },
    "UOM": { "type": "string" },
    "Price": { "type": "number" },
    "LineType": { "type": "string" },
    "ManufacturerName": { "type": "string" },
    "ManufacturerPartNumber": { "type": "string" }
  },
  "required": [
    "LineNumber",
    "ItemDescription",
    "Price",
    "LineType"
  ]
},
},
},
"required": ["header", "lines"]
}

```

Testing.

This is the result of our test

AA_READ_PDF_AND_SHOW

"SupplierSite": "5000 CARTER DR., LOS ANGELES, CA 90032",
"SupplierContactEmailDomain": "",
"CurrencyCode": "USD",
"QuotationNumber": "US165029",
"Date": "06-JAN-2025",
"AttachmentFileName": "",
"AttachmentCategoryName": "",
"AttachmentAsyncTrackerId": ""
},
"lines": [
{
"LineNumber": "1",
"ItemDescription": "Black Laser Printer Toner Cartridge",
"SupplierItemNumber": "CMC04413",
"Quantity": 1,
"UOM": "Ea",
"Price": 79.0,
"LineType": "Standard",
"ManufacturerName": "",
"ManufacturerPartNumber": ""
},
{
"LineNumber": "2",
"ItemDescription": "Inkjet Cyan Cartridge",
"SupplierItemNumber": "CMC04409",
"Quantity": 1,
"UOM": "Ea",
"Price": 39.0,
"LineType": "Standard",
"ManufacturerName": "",
"ManufacturerPartNumber": ""
},
{
"LineNumber": "3",
"ItemDescription": "LaserJet Pro 400 M401n Laser Printer",
"SupplierItemNumber": "HPP9985847",
"Quantity": 1,
"UOM": "Ea",
"Price": 899.0,
"LineType": "Standard",
"ManufacturerName": "",
"ManufacturerPartNumber": "S1209"
}
]
}

These are samples from PDF.

Purchase Order US165029

Order	US165029
Order Date	06-JAN-2025
Change Order	0
Change Order Date	06-JAN-2025
Revision	0
Ordered	1,017.00 USD

Sold To

US1 Legal Entity
500 ORACLE PKWY
REDWOOD CITY, CA 94065 SAN MATEO

Supplier

Lee Supplies
5000 CARTER DR.
LOS ANGELES, CA 90032 LOS ANGELES

Bill To

US1 Business Unit
411 University Street
SEATTLE, WA 98101 King
UNITED STATES

Ship To

Line	Item	Price	Quantity	UOM	Ordered	Taxable
1	Black Laser Printer Toner Cartridge Supplier Item CMC04413 This line references Document (Blanket Purchase Agreement) 52236. <div><div>Promised 1/17/25 Requested 1/17/25</div><div>Requested and Promised Dates correspond to the date of arrival at the Ship-to Location.</div></div>	79.00	1	Ea	79.00	<input checked="" type="checkbox"/>
Line Total					79.00	
2	Inkjet Cyan Cartridge Supplier Item CMC04409 This line references Document (Blanket Purchase Agreement) 52236. <div></div>	39.00		Ea		2
3	LaserJet Pro 400 M401n Laser Printer Supplier Item HPP9985847 Supplier Configuration ID S1209 This line references Document (Blanket Purchase Agreement) 52232. <div><div>Promised 1/15/25 Requested 1/15/25</div><div>Requested and Promised Dates correspond to the date of arrival at the Ship-to Location.</div></div>	899.00	1	Ea	899.00	<input checked="" type="checkbox"/>
Line Total					899.00	
Total					1,017.00	

It doesn't look perfect, but LLM seems able to get a lot of information.
 Feel free to refine the "Prompt" and apply conditions in the for your learning.

Changes Part 2. Second LLM.

We will change the resulting payload from previous step; we will update the UOM name with UOM code in the resulting JSON payload.

- In Agent Team, we will add new Business Object Function using “Get UOM2”.

Name: BOF_UOM.

BOF_UOM
Business Object Function

Name
BOF_UOM

Code
BOFUOM

Type
Business Object Function

Family
SCM

Product
SCM Foundation



Business object
Get UOM2

Function
GetActiveUOM

Parameters

pLimit

string



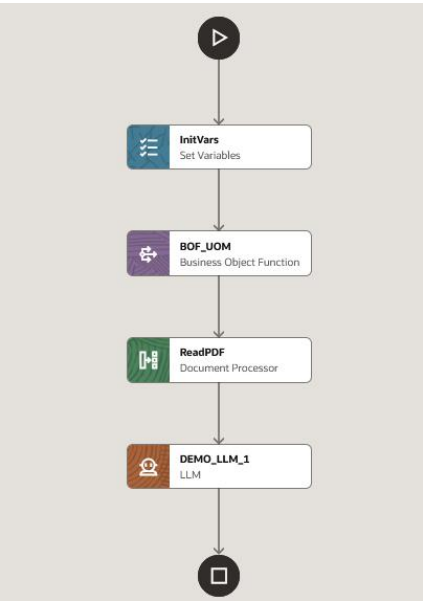
Parameter

Limit=250

Output

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "InternalUOMList",
  "type": "object",
  "properties": {
    "internal_uom_list": {
      "type": "array",
      "items": {
        "type": "object",
        "properties": {
          "UOMCode": {
            "type": "string"
          },
          "UOM": {
            "type": "string"
          },
          "Description": {
            "type": "string"
          },
          "UOMClassName": {
            "type": "string"
          }
        }
      },
      "required": ["UOMCode", "UOM", "Description", "UOMClassName"]
    }
  },
  "required": ["internal_uom_list"]
}
```


Overview.



- We will add a new LLM node in Agent Team.

Name: DEMO_LLM_2.

DEMO_LLM_2

LLM

Name

DEMO_LLM_2

Code

DEMOLL2

Type

LLM

Prompt

You are a buyer creating a purchase requisition.

Each Unit of Measure must be mapped to a valid UOMCode from the internal system's list.

TASK:

For each line in `{{context.$nodes.DEMOLL1.$output}}`, update the UOM field so that it matches the UOMCode of one of the entries in the internal UOM list: `{{context.$nodes.BOF_UOM.$output.internal_uom_list}}`.

STRICT RULES:

- You MUST ONLY assign a UOMCode from the internal UOM list.
- DO NOT invent new UOM codes or use any UOMs not explicitly present in the list—even if the UOM is missing from the list.
- If the UOM is unavailable in the internal list, select the most semantically appropriate or closest available UOMCode. NEVER output a UOM value that does not exist in the internal list.
- Reference the item description to determine the closest match if an exact match does not exist.
- Output ONLY the JSON array of updated line items, with each UOM field containing a value from the internal UOM list. Do not include any additional text or explanation.

Type `{{` to start seeing context-sensitive expressions.

Temperature

0.0

Type `{{` to start seeing context-sensitive expressions.

Output

Output Builder Mode

☒ Specification Mode

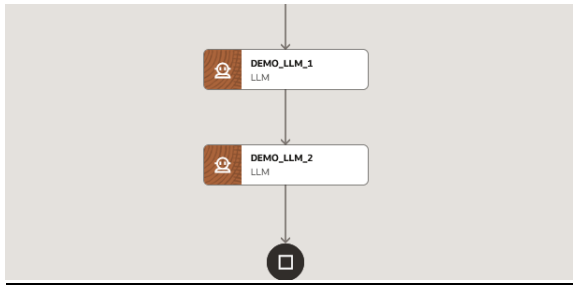
☐ Simple Mode

Properties

{

Cancel

Update



Prompt.

You are a buyer creating a purchase requisition.

Each Unit of Measure must be mapped to a valid UOMCode from the internal system's list.

TASK:

For each line in `{{context.$nodes.DEMOLLM1.$output}}`, update the UOM field so that it matches the UOMCode of one of the entries in the internal UOM list: `{{context.$nodes.BOF_UOM.$output.internal_uom_list}}`.

STRICT RULES:

- You MUST ONLY assign a UOMCode from the internal UOM list.
- DO NOT invent new UOM codes or use any UOMs not explicitly present in the list—even if the UOM is missing from the list.
- If the UOM is unavailable in the internal list, select the most semantically appropriate or closest available UOMCode. NEVER output a UOM value that does not exist in the internal list.
- Reference the item description to determine the closest match if an exact match does not exist.
- Output ONLY the JSON array of updated line items, with each UOM field containing a value from the internal UOM list. Do not include any additional text or explanation.

Temperature.

0.0

Output.

Notice UOMcode.

```

{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "object",
  "properties": {
    "header": {
      "type": "object",
      "properties": {
        "PreparerId": { "type": "string" },
        "RequisitionDescription": { "type": "string" },
        "SupplierNameFromDocument": { "type": "string" },
        "NormalizedSupplierName": { "type": "string" },
        "SupplierContactEmail": { "type": "string", "format": "email" },
        "SupplierContact": { "type": "string" },
        "SupplierContactPhone": { "type": "string" },
        "SupplierContactFax": { "type": "string" },
        "SupplierSite": { "type": "string" },
        "SupplierContactEmailDomain": { "type": "string" },
        "CurrencyCode": { "type": "string" },
        "QuotationNumber": { "type": "string" },
        "Date": { "type": "string" },
        "AttachmentFileName": { "type": "string" },
        "AttachmentCategoryName": { "type": "string" },
        "AttachmentAsyncTrackerId": { "type": "string" }
      },
      "required": [
        "PreparerId",
        "RequisitionDescription",

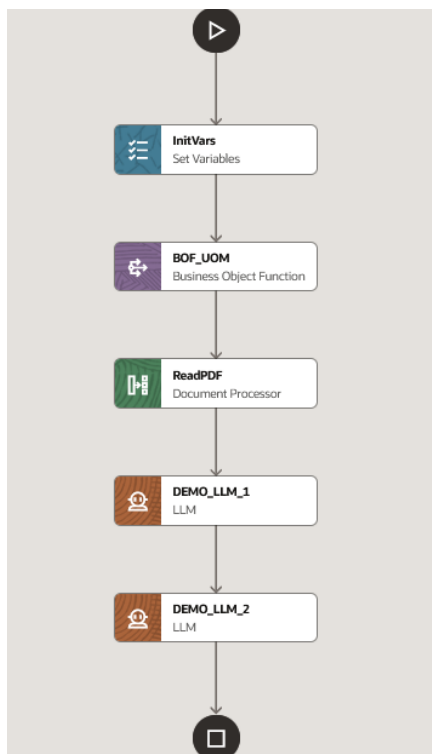
```

```

        "SupplierNameFromDocument",
        "NormalizedSupplierName",
        "SupplierContactEmail",
        "SupplierContact",
        "SupplierContactPhone",
        "SupplierContactFax",
        "SupplierSite",
        "SupplierContactEmailDomain",
        "CurrencyCode",
        "AttachmentFileName",
        "AttachmentAsyncTrackerId"
    ]
},
"lines": {
    "type": "array",
    "items": {
        "type": "object",
        "properties": {
            "LineNumber": { "type": "string" },
            "ItemDescription": { "type": "string" },
            "SupplierItemNumber": { "type": "string" },
            "Quantity": { "type": "number" },
            "UOMCode": { "type": "string" },
            "Price": { "type": "number" },
            "LineType": { "type": "string" },
            "ManufacturerName": { "type": "string" },
            "ManufacturerPartNumber": { "type": "string" }
        },
        "required": [
            "LineNumber",
            "ItemDescription",
            "Price",
            "LineType"
        ]
    }
}
},
"required": ["header", "lines"]
}

```

General overview.



Testing.

Payload.

```
{
  "pAttachmentsUniqID":
    "00020000000EACED00057708000110D9445D78CC0000000EACED00057708000110D9445D78CB",
  "pInvoiceId": "300000317626637"
}
```

Notice the change from previous version.

We now have the “calculated” code for UOM instead of UOM name.

Before	After
<div>AA_READ_PDF_AND_SHOW</div> <pre>{ "SupplierSite": "5000 CARTER DR., LOS ANGELES, CA 90032", "SupplierContactEmailDomain": "", "CurrencyCode": "USD", "QuotationNumber": "US165029", "Date": "06-JAN-2025", "AttachmentFileName": "", "AttachmentCategoryName": "", "AttachmentAsyncTrackerId": "" }, "lines": [{ "LineNumber": "1", "ItemDescription": "Black Laser Printer Toner Cartridge", "SupplierItemNumber": "CMC04413", "Quantity": 1, "UOM": "Ea", "Price": 79.0, "LineType": "Standard", "ManufacturerName": "", "ManufacturerPartNumber": "" }, { "LineNumber": "2", "ItemDescription": "Inkjet Cyan Cartridge", "SupplierItemNumber": "CMC04409", "Quantity": 1, "UOM": "Ea", "Price": 39.0, "LineType": "Standard", "ManufacturerName": "", "ManufacturerPartNumber": "" }, { "LineNumber": "3", "ItemDescription": "LaserJet Pro 400 M401n Laser Printer", "SupplierItemNumber": "HPP9985847", "Quantity": 1, "UOM": "Ea", "Price": 899.0, "LineType": "Standard", "ManufacturerName": "", "ManufacturerPartNumber": "S1209" }] }</pre>	<div>AA_READ_PDF_AND_SHOW</div> <pre>{ "SupplierContactEmail": "", "SupplierContact": "Ryan Lee", "SupplierContactPhone": "", "SupplierContactFax": "", "SupplierSite": "5000 CARTER DR., LOS ANGELES, CA 90032 LOS ANGELES", "SupplierContactEmailDomain": "", "CurrencyCode": "USD", "QuotationNumber": "US165029", "Date": "2025-01-06", "AttachmentFileName": "", "AttachmentCategoryName": "", "AttachmentAsyncTrackerId": "" }, "lines": [{ "LineNumber": "1", "ItemDescription": "Black Laser Printer Toner Cartridge", "SupplierItemNumber": "CMC04413", "Quantity": 1, "UOMCode": "EA", "Price": 79, "LineType": "Goods", "ManufacturerName": "", "ManufacturerPartNumber": "" }, { "LineNumber": "2", "ItemDescription": "Inkjet Cyan Cartridge", "SupplierItemNumber": "CMC04409", "Quantity": 1, "UOMCode": "EA", "Price": 39, "LineType": "Goods", "ManufacturerName": "", "ManufacturerPartNumber": "" }, { "LineNumber": "3", "ItemDescription": "LaserJet Pro 400 M401n Laser Printer", "SupplierItemNumber": "HPP9985847", "Quantity": 1, "UOMCode": "EA", "Price": 899, "LineType": "Goods", "ManufacturerName": "", "ManufacturerPartNumber": "S1209" }] }</pre>

Conclusion.

We are able to read a PDF file and transform into JSON.

With proper adaptations the resulting JSON payload could be used to create, update business objects, etc.

Note regarding the “Ids” used in this demo.

Of course, users don’t know “invoice id” and the second parameter to retrieve the file content of the attachment.

The purpose of this demo is to show how to retrieve and extract information from PDF, to make it simpler we work with “ids”.

To find the invoice id you could follow our previous chapter “AI_Fusion_Agent 25D_Workflow.pdf” in which we tell how to find the “purchase orderd id” from the “purchase order number”.

For second parameter a OIC integration of type REST API could be an option as to get the long string is not very straightforward.

Technical

Code example	Comments
PO_US165029_0.pdf	PDF sample to read-scan. Feel free to use yours for testing.