

**AI Agent Studio. 26A.**

**Agent Team “Quote to Purchase Requisition Chat Assistant”.**

**Got this Agent Team to work+some changes applied+PDF demo file provided.**

**Introduction/Goals.**

We will try to get these goals:

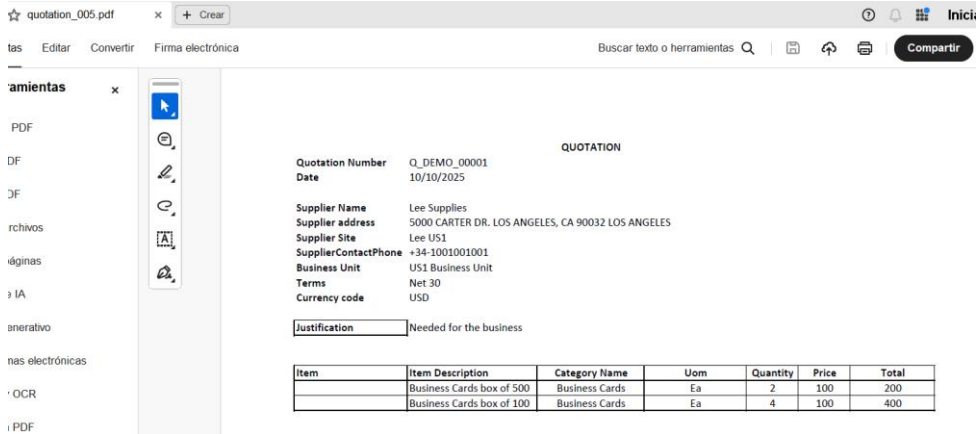
- Get the Agent Team flow working from start to finish.
- Create a working PDF sample (provided).
- Understand the new feature “upload file” in chat.
- Understand how every node is built (this part will be up to you opening the provided original template and analyzing it).
- Make changes, as our users could ask for new requirements, we should be able to make adaptations.

**Preparatory steps.**

1. Build an excel file with data to be used as Quotation Document.

		QUOTATION				
Quotation Number	Q_DEMO_00001					
Date	10/10/2025					
Supplier Name	Lee Supplies					
Supplier address	5000 CARTER DR. LOS ANGELES, CA 90032 LOS ANGELES					
Supplier Site	Lee US1					
SupplierContactPhone	+34-1001001001					
Business Unit	US1 Business Unit					
Terms	Net 30					
Currency code	USD					
Justification	Needed for the business					
Item	Item Description	Category Name	Uom	Quantity	Price	Total
	Business Cards box of 500	Business Cards	Ea	2	100	200
	Business Cards box of 100	Business Cards	Ea	4	100	400

2. Save as PDF. It will be our file for testing.



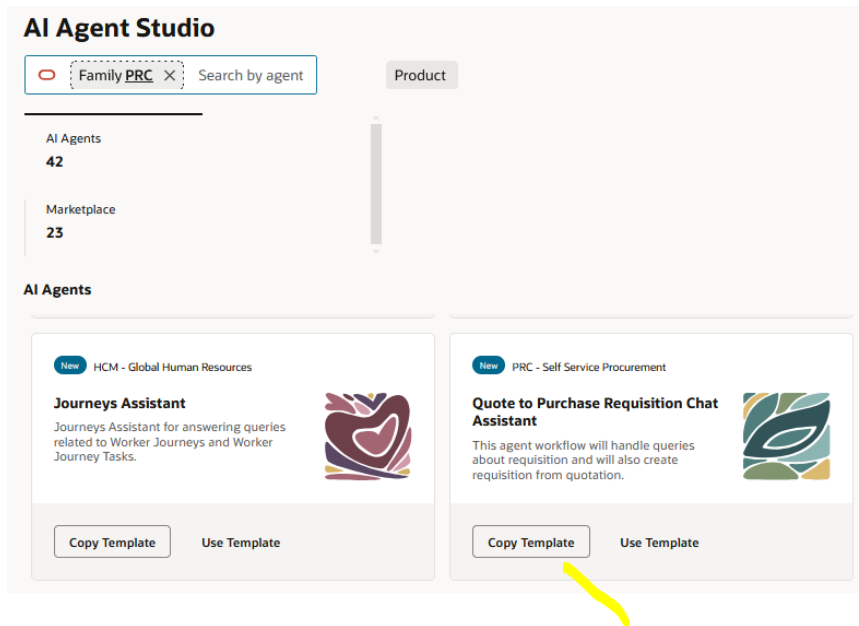
As you can see, some “trial and error” was needed.

~BROMIUM	01/11/2025 18:01	Carpeta de archivos	
invoice_sample_1.pdf	08/01/2026 11:48	Documento Adob...	86 KB
invoice_sample_2.pdf	08/01/2026 11:48	Documento Adob...	86 KB
invoice_sample_3.pdf	08/01/2026 11:48	Documento Adob...	86 KB
invoice_sample_4.pdf	08/01/2026 11:48	Documento Adob...	86 KB
invoice_sample_5.pdf	08/01/2026 11:48	Documento Adob...	86 KB
invoice_sample_6.pdf	08/01/2026 11:48	Documento Adob...	86 KB
Nuevo Hoja de cálculo de Microsoft Exce...	14/01/2026 11:13	Hoja de cálculo d...	9 KB
PO_US165029_0.pdf	15/10/2025 7:39	Documento Adob...	87 KB
PO_US165029_1.pdf	15/10/2025 7:39	Documento Adob...	87 KB
PO_US165029_2.pdf	15/10/2025 7:39	Documento Adob...	87 KB
PO_US165029_3.pdf	15/10/2025 7:39	Documento Adob...	87 KB
PO_US165029_4.pdf	15/10/2025 7:39	Documento Adob...	87 KB
PO_US165029_5.pdf	15/10/2025 7:39	Documento Adob...	87 KB
quotation_001.pdf	14/01/2026 11:53	Documento Adob...	92 KB
quotation_001.xlsx	14/01/2026 12:09	Hoja de cálculo d...	11 KB
quotation_1.pdf	08/01/2026 11:48	Documento Adob...	86 KB
quotation_002.pdf	14/01/2026 12:10	Documento Adob...	89 KB
quotation_002.xlsx	14/01/2026 12:10	Hoja de cálculo d...	11 KB
quotation_003.pdf	14/01/2026 14:40	Documento Adob...	90 KB
quotation_003.xlsx	14/01/2026 14:40	Hoja de cálculo d...	11 KB
quotation_004.pdf	15/01/2026 15:41	Documento Adob...	90 KB
quotation_004.xlsx	16/01/2026 20:17	Hoja de cálculo d...	11 KB
quotation_005.pdf	16/01/2026 20:18	Documento Adob...	95 KB
quotation_005.xlsx	16/01/2026 20:17	Hoja de cálculo d...	11 KB

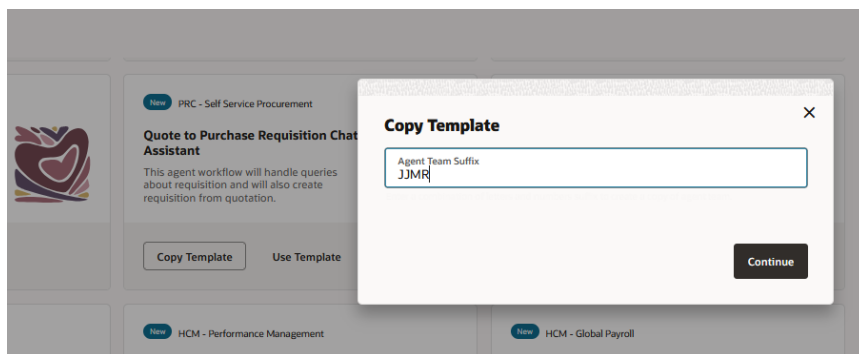
### Steps/changes applied.

1. Select template and make your copy.

Filter, select and copy.

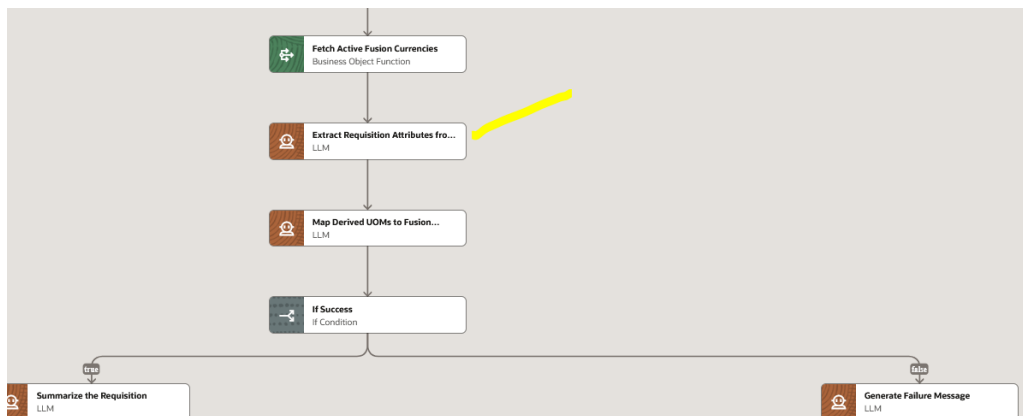


Add your prefix.



Next, we will provide the changes applied to get the template working and other changes for learning purposes.

2. Navigate to node "Extract Requisition Attributes from Supplier Quotation".



## Extract Requisition Attributes from Supplier Quotation

LLM

Name  
Extract Requisition Attributes from Supplier Quotation

Code  
EXTRACT\_REQUISITION\_ATTRIBUTES\_FROM\_SUPPLIER\_QUOTATION

Prompt

### EXTRACTION CHALLENGE:  
You're analyzing the following supplier quotation document with varied formats. {{\$context.\$nodes.FILE\_PROCESSOR.\$output.fileText}}

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:  
- Formal tables with borders  
- Invisible tables (aligned text without visible borders)

### Changes in Prompt.

Added by us for learning purposes.

These are the attributes for the header:

1. PreparerId: {{\$context.\$nodes.GET\_ACTIVE\_REQUISITION\_PREFERENCE.\$output.items[0].PersonId}}
2. Description: Provide summary of the document and include the quotation number and company issuing the quotation. It must not exceed 240 characters.
3. SupplierName: Name of the company issuing the supplier quotation document. This is the company providing the goods or services. Look for this information only in the "Vendor," "From," or company information next to the quotation title or logo text. Never extract names or addresses from sections labeled "Customer," "Client," "Bill To," "Ship To," or company name is the supplier, leave SupplierName blank and do not extract any supplier-related fields in either header or line information.
4. NormalizedSupplierName: Please create a shortened, standardized version of this supplier name by:
  - Removing corporate designations (LLC, Inc, Corp, Corporation, Ltd, Limited, etc.)
  - Removing subsidiary indicators (A division of, A subsidiary of, etc.)
  - Removing regional identifiers (North America, USA, etc.) unless they are critical to identify the company
  - Standardizing common abbreviations (Intl -> International, Mfg -> Manufacturing)
  - Keeping the core business name that would be recognizable
5. SupplierContact: Name of the supplier contact. It must not exceed 80 characters.
6. SupplierContactEmail: contact email address of the company issuing the document.
7. SupplierContactEmailDomain: Extract the email domain from supplier contact email if it is not from the public email domain. Otherwise, set this to null.
8. SupplierSite: Location of the supplier associated with the quotation. This may refer to the supplier's physical address, branch, or facility responsible for fulfilling the order.
9. SupplierContactPhone: Phone number of the company issuing the document.
10. SupplierContactFax: Fax number of the company issuing the document.
11. CurrencyCode: Steps to find currency match:
  - Look for Currency field and Currency symbol from the quotation document
  - If currency is not explicitly defined, determine the country from the supplier address and use the local currency of that country.
  - Find the matching entry from the list of internal currencies {{\$context.\$nodes.FETCH\_ACTIVE\_FUSION\_CURRENCIES.\$output}}
12. QuotationNumber: A unique identifier assigned to the supplier's quotation.
13. AttachmentFileName: {{\$context.\$nodes.FILE\_PROCESSOR.\$output.fileName}}
14. Justification: Justification from the quotation document.

### Text:

14. Justification: Justification from the quotation document.

Added by us for learning purposes.

6. Quantity: If the quantity is not provided, default to 1. Quantity must not be null for goods and rate based services line type.
7. Unit Price: Number that identifies unit price of the item. It may be labeled as "Price", "Unit Price", "Customer price" or "Rate". Extract the numeric value regardless of whether the currency symbol is present.
8. ManufacturerName: Manufacturer name of the item. Extract ManufacturerName by carefully identifying manufacturer information based on the item description or explicitly labeled fields.
9. ManufacturerPartNumber: Manufacturer part number. Only populate this if ManufacturerName is also present for that line.
10. CurrencyCode: default to "USD".
11. RequesterId: {{\$context.\$nodes.GET\_ACTIVE\_REQUISITION\_PREFERENCE.\$output.items[0].RequesterId}}
12. DestinationTypeCode: {{\$context.\$nodes.GET\_ACTIVE\_REQUISITION\_PREFERENCE.\$output.items[0].DestinationTypeCode}}
13. DestinationOrganizationId: {{\$context.\$nodes.GET\_ACTIVE\_REQUISITION\_PREFERENCE.\$output.items[0].DestinationOrganizationId}}
14. DeliverToLocationId: {{\$context.\$nodes.GET\_ACTIVE\_REQUISITION\_PREFERENCE.\$output.items[0].DeliverToLocationId}}

Type {} to start seeing context-sensitive expressions.

Output

### Text.

10. CurrencyCode: default to "USD".
11. RequesterId: {{\$context.\$nodes.GET\_ACTIVE\_REQUISITION\_PREFERENCE.\$output.items[0].RequesterId}}
12. DestinationTypeCode: {{\$context.\$nodes.GET\_ACTIVE\_REQUISITION\_PREFERENCE.\$output.items[0].DestinationTypeCode}}
13. DestinationOrganizationId: {{\$context.\$nodes.GET\_ACTIVE\_REQUISITION\_PREFERENCE.\$output.items[0].DestinationOrganizationId}}
14. DeliverToLocationId: {{\$context.\$nodes.GET\_ACTIVE\_REQUISITION\_PREFERENCE.\$output.items[0].DeliverToLocationId}}

## Changes in Output.

Output

Output Builder Mode

☒ Specification Mode ☐ Simple Mode

Properties

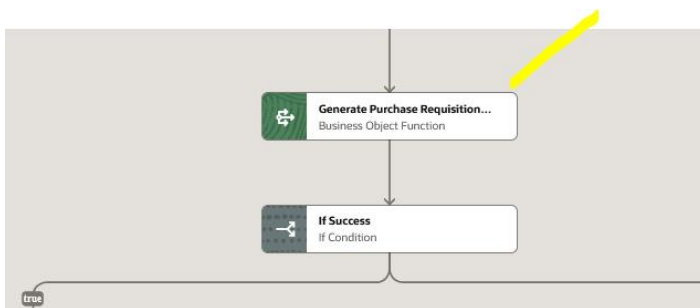
```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "object",
  "properties": {
    "header": {
      "type": "object",
      "properties": {
        "PreparerId": { "type": "string" },
        "RequisitionDescription": { "type": "string" },
        "SupplierNameFromDocument": { "type": "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" },
        "QuotationNumber": { "type": "string" },
        "Date": { "type": "string" },
        "Justification": { "type": "string" },
        "AttachmentFileName": { "type": "string" }
      }
    },
    "required": [
      "PreparerId",
      "RequisitionDescription",
      "SupplierNameFromDocument",
      "NormalizedSupplierName",
      "SupplierContactEmail",
      "SupplierContact",
      "SupplierContactPhone",
      "SupplierContactFax",
      "SupplierSite",
      "SupplierContactEmailDomain",
      "CurrencyCode",
      "AttachmentFileName"
    ]
  },
  "lines": {
    "type": "array",
    "items": {
      "type": "object",
      "properties": {
        "LineNumber": { "type": "string" },
        "CurrencyCode": { "type": "string" },
        "RequesterId": { "type": "string" },
        "DestinationTypeCode": { "type": "string" },
        "DestinationOrganizationId": { "type": "string" },
        "DeliverToLocationId": { "type": "string" },
        "CategoryName": { "type": "string" },
        "ItemDescription": { "type": "string" }
      }
    }
  }
}
```

```

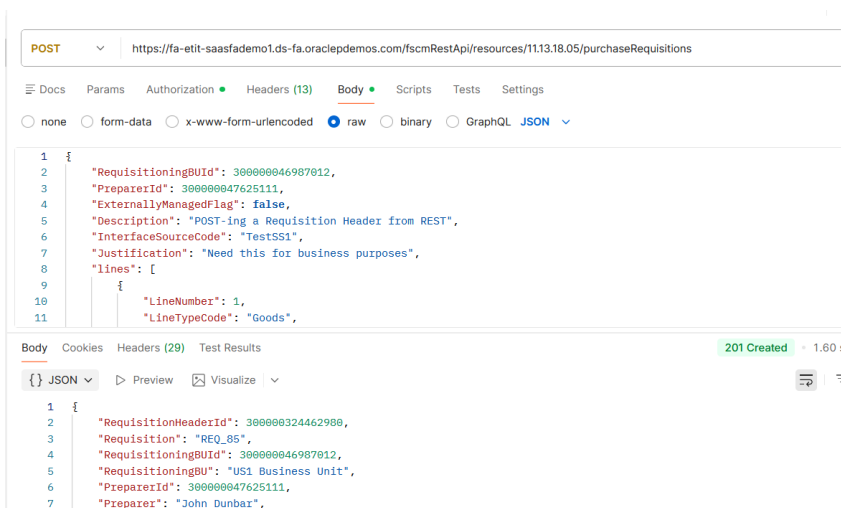
    "SupplierItemNumber": { "type": "string" },
    "Quantity": { "type": "number" },
    "UOM": { "type": "string" },
    "Price": { "type": "number" },
    "LineTypeCode": { "type": "string" },
    "ManufacturerName": { "type": "string" },
    "ManufacturerPartNumber": { "type": "string" }
  },
  "required":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

```

3. We have removed this node.



Reason: after many tests getting errors related to Category of the item, we have decided to have more control, generating our detailed payload and using the normal POST for purchase requisitions.



This drives us to make some changes in below nodes.

This removed node generated payload using this REST.

Business Object Functions			
+ Add			
Name	Description	Resource Path	Actions
generate_payload_for_creation_lang	Generates a payload for purchase requisition creation	/fscmRestApi/resources/11.13.18.05/purchaseRequisitions/action/generatePayloadForCreation	⊗
generate_payload_for_creation	Generates a payload for purchase requisition creation	/fscmRestApi/resources/11.13.18.05/purchaseRequisitions/action/generatePayloadForCreation	⊗

After removing, some renaming in next nodes are required.

#### 4. New Business Object.

Name: AA\_CREATE\_PURCHASE\_REQ.

Description: Create purchase requisition from PDF.

### Edit businessobject - AA\_CREATE\_PURCHASE\_REQ

Have questions about building better AI agents?  
Get expert guidance on designing, optimizing, and scaling high-performance AI agents.

Family  
PRC

Product  
Self Service Procurement

Name  
AA\_CREATE\_PURCHASE\_REQ

Code  
ORA\_PRC\_SSP\_AACREATEPURCHASEREQ

Resource Type  
Monolith resource

Resource Path  
/fscmRestApi/resources/11.13.18.05/purchaseRequisitions

Oracle Data Source Application

Description  
Create purchase requisition from PDF.

#### Business Object Functions

+ Add from Specification
Import

Name	Description	Resource Path	Actions
create_purchase_requisition	Create purchase requisition	/fscmRestApi/resources/11.13.18.05/purchaseRequisitions	✎ 📄 🗑

Function-scenario.

Name: create\_purchase\_requisition

Operation type: POST.

Description: Create purchase requisition

Edit scenario - AA\_CREATE\_PURCHASE\_REQ

Name

create\_purchase\_requisition

Description

Create purchase requisition

Operation Type

HTTP POST

Resource Path

/fscmRestApi/resources/11.13.18.05/purchaseRequisitions

Use native authentication Header

☐

Operation Payload

```
{
  "RequisitioningBUID": {pRequisitioningBUID},
  "PreparerId": {pPreparerId},
  "ExternallyManagedFlag": false,
  "Description": "POST-ing a Requisition Header from REST",
  "InterfaceSourceCode": "TestSS1",
  "Justification": {pJustification},
  "lines": {pLines}
}
```

Operation Payload.

```
{
  "RequisitioningBUID": {pRequisitioningBUID},
  "PreparerId": {pPreparerId},
  "ExternallyManagedFlag": false,
  "Description": "POST-ing a Requisition Header from REST",
  "InterfaceSourceCode": "TestSS1",
  "Justification": "{pJustification}",
  "lines": {pLines}
}
```

Parameters.

Parameters and Business Object Fields

Add Parameter

Add Field

Add Field from Specification

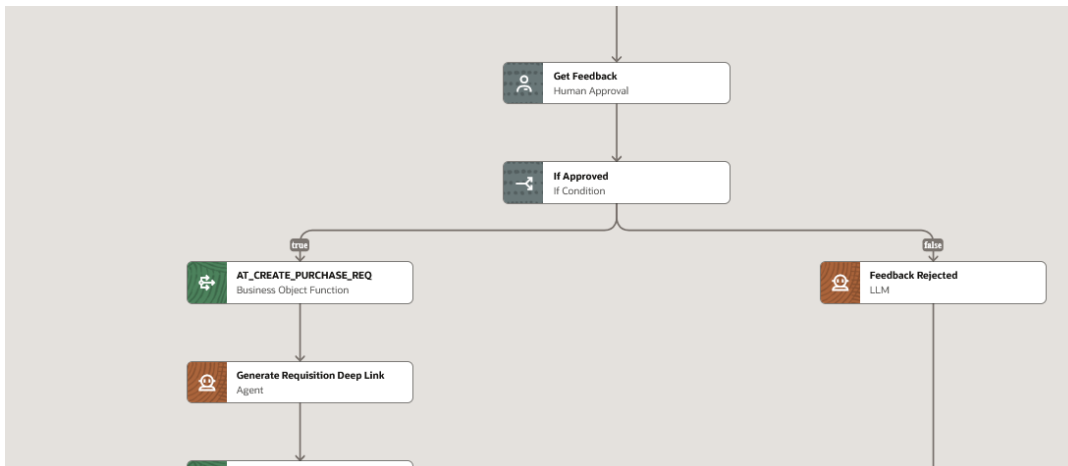
Name	Data Type	Description	Is Parameter
pRequisitioningBUID	string	pRequisitioningBUID	true
pPreparerId	string	pPreparerId	true
pJustification	string	pJustification	true
pLines	string	pLines	true

5. Business Object Function.

Added here.

Name: AT\_CREATE\_PURCHASE\_REQ.





Detail.

**AT\_CREATE\_PURCHASE\_REQ**  
Business Object Function

Name: AT\_CREATE\_PURCHASE\_REQ Code: ATCREATEPURCHASEREQ Error Handler: ▼

Family: PRC Product: Self Service Procurement Business object: AA\_CREATE\_PURCHASE\_REQ ▼

Function: create\_purchase\_requsition ▼

**Parameters**

Parameter	Type	Actions
pRequisitioningBUIId	string	<span>✎</span> <span>✕</span>
pPreparerId	string	<span>✎</span> <span>✕</span>
pJustification	string	<span>✎</span> <span>✕</span>
pLines	string	<span>✎</span> <span>✕</span>

**Output**

Output Builder Mode

☒ Specification Mode ☐ Simple Mode

Properties: {}

Parameters:

**Parameters**

Name: pRequisitioningBUIId

Value: `{{ $context.$nodes.GET_ACTIVE_REQUISITION_PREFERENCE.$output.items[0].RequisitioningBUIId }}`

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

```

{{ $context.$nodes.GET_ACTIVE_REQUISITION_PREFERENCE.$output.items[0].RequisitioningBUIId
}}

```

**Parameters**

pRequisitioningBUID

---

Name	pPreparerId
------	-------------

---

Value	{{context.nodes.EXTRACT_REQUISITION_ATTRIBUTES_FROM_SUPPLIER_QUOTATION.\$output.header.PreparerId}}
-------	---

Type {{ to start seeing context-sensitive expressions.

```
{{context.nodes.EXTRACT_REQUISITION_ATTRIBUTES_FROM_SUPPLIER_QUOTATION.$output.header.PreparerId}}
```

**Parameters**

pRequisitioningBUID

---

pPreparerId

---

Name	pLines
------	--------

---

Value	{{context.nodes.EXTRACT_REQUISITION_ATTRIBUTES_FROM_SUPPLIER_QUOTATION.\$output.lines}}
-------	---

Type {{ to start seeing context-sensitive expressions.

```
{{context.nodes.EXTRACT_REQUISITION_ATTRIBUTES_FROM_SUPPLIER_QUOTATION.$output.lines}}
```

**Parameters**

pRequisitioningBUID

---

pPreparerId

---

Name	pJustification
------	----------------

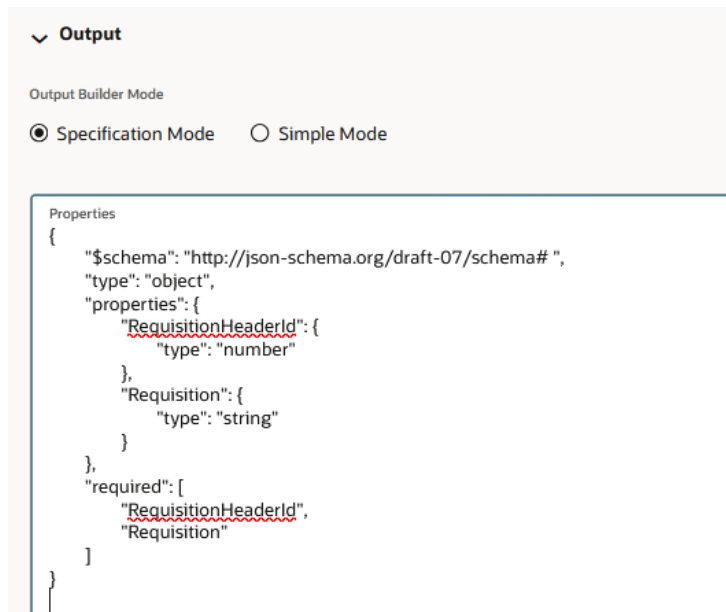
---

Value	{{context.nodes.EXTRACT_REQUISITION_ATTRIBUTES_FROM_SUPPLIER_QUOTATION.\$output.header.Justification}}
-------	--

Type {{ to start seeing context-sensitive expressions.

```
{{context.nodes.EXTRACT_REQUISITION_ATTRIBUTES_FROM_SUPPLIER_QUOTATION.$output.header.Justification}}
```

Output.



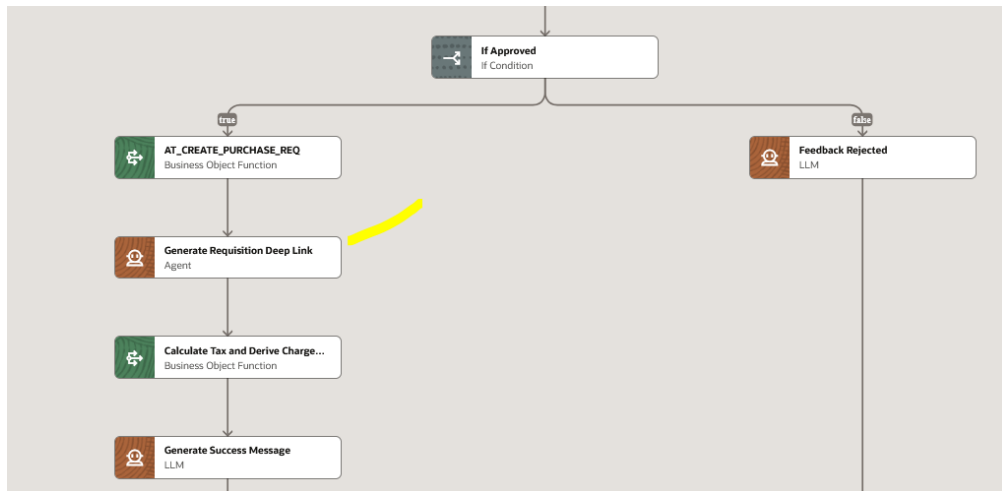
```
{
  "$schema": "http://json-schema.org/draft-07/schema# ",
  "type": "object",
  "properties": {
    "RequisitionHeaderId": {
      "type": "number"
    },
    "Requisition": {
      "type": "string"
    }
  },
  "required": [
    "RequisitionHeaderId",
    "Requisition"
  ]
}
```

Note.

In case of new/remove/rename parameters (my case for learning purposes), you will need to remove and then add Business Object in Agent Team to refresh parameters.

Afterwards, you will need to redo the mappings.

6. Generate Requisition Deep Link.



Changes.

### Input Variables

Name	message
Value	{{"Create a deeplink for requisition " + \$context.\$nodes.ATCREATEPURCHASEREQ.\$output.Requisition}}

### Input Variables

message

Name	RequisitionHeaderId
Value	{{ \$context.\$nodes.ATCREATEPURCHASEREQ.\$output.RequisitionHeaderId }}

Type {{ to start seeing context-sensitive expressions.

## 7. Calculate Tax and Derive Charge Account.

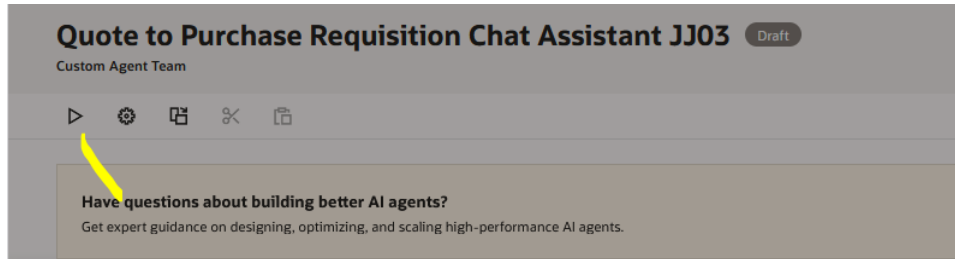
We have removed this node for simplicity.

Feel free to make adaptations to get it working.

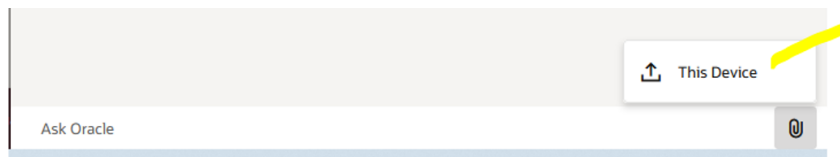
## Test.

Note: as several “trial and error” actions has been required, some id’s in screenshots does not match, this does not affect the explanation.

Click on here to start the test:



Afterwards, click on here to upload file from your laptop:

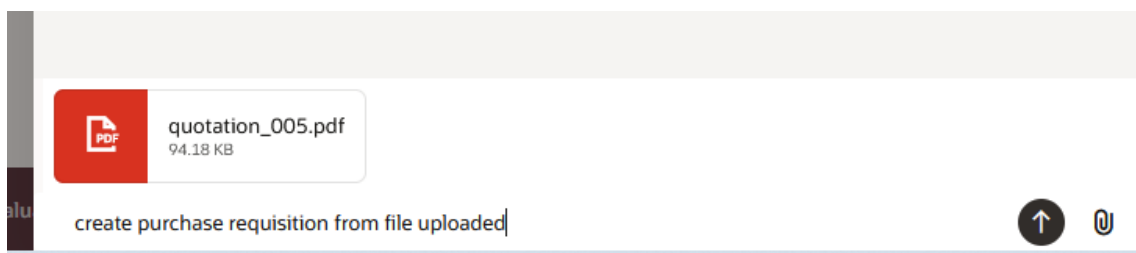


Select PDF file (provided in GitHub, see below).

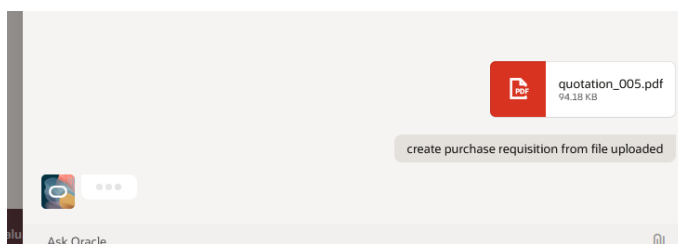
quotation_003.pdf	14/01/2026 14:40	Documento Adob...	90 KB
quotation_003.xlsx	14/01/2026 14:40	Hoja de cálculo d...	11 KB
quotation_004.pdf	15/01/2026 15:41	Documento Adob...	90 KB
quotation_004.xlsx	16/01/2026 20:17	Hoja de cálculo d...	11 KB
quotation_005.pdf	16/01/2026 20:18	Documento Adob...	95 KB
quotation_005.xlsx	16/01/2026 20:17	Hoja de cálculo d...	11 KB

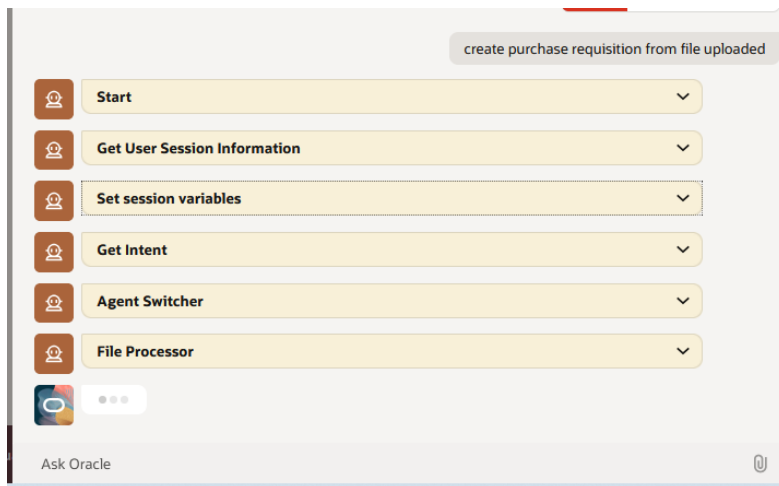
Type this text and Press enter.

“Please, create purchase requisition from file uploaded”.

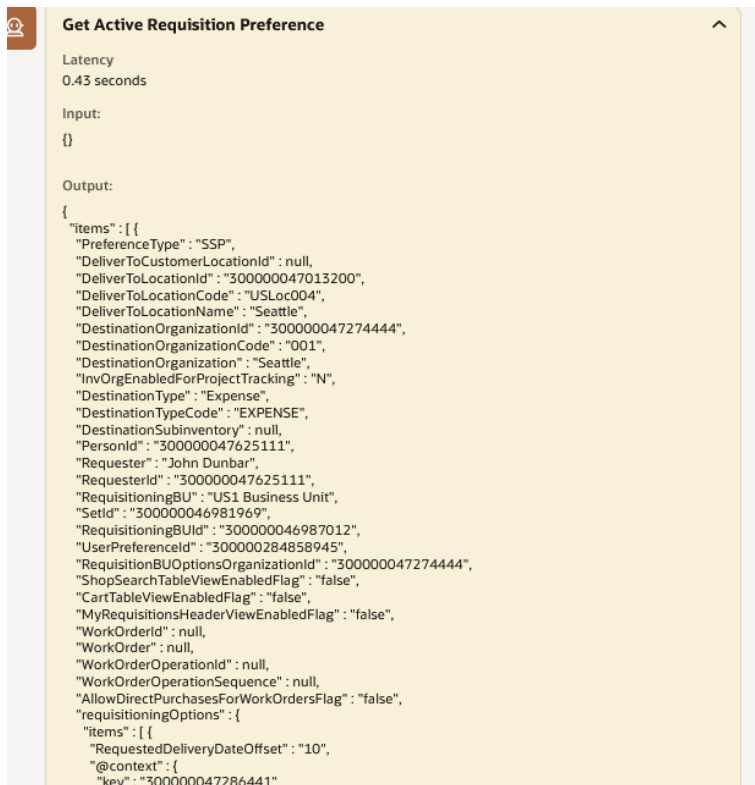


It will take a while to run all the nodes before the “human” node that ask for “Approve”.

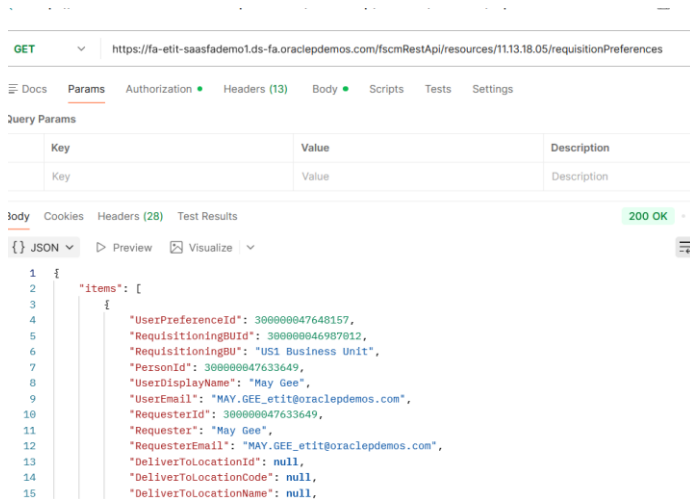




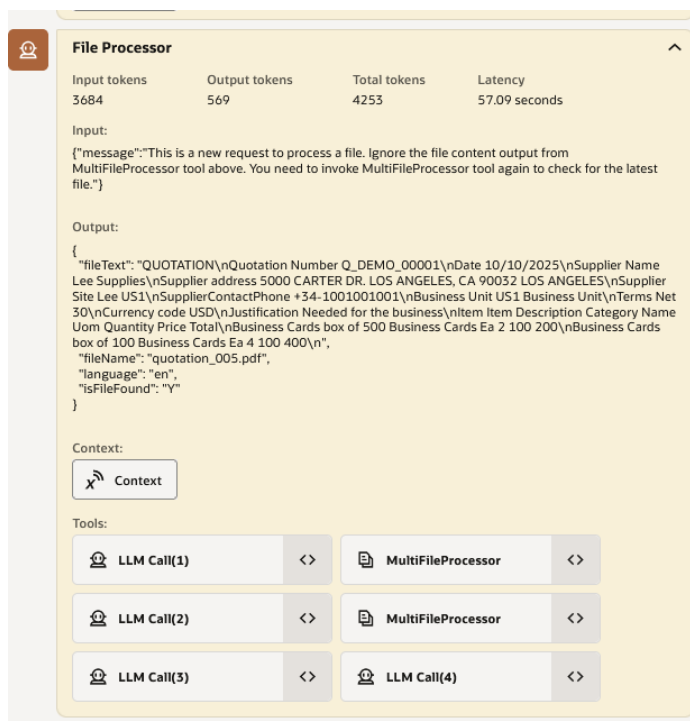
This node is quite important as it provides many fields to fill the payload (described in Prompt).



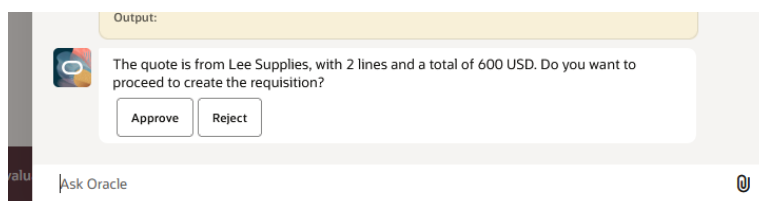
Based in this REST API.



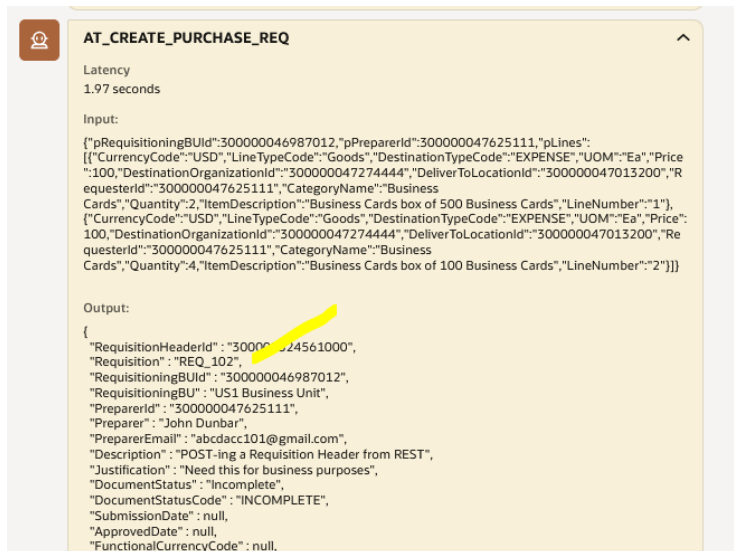
This node is the one that does the magic of reading the file.



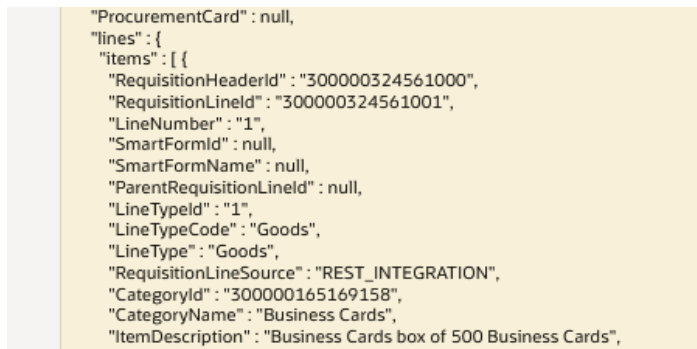
Before calling the Creation node the user will have to “Approve”.



Header part.



Line 1 part.

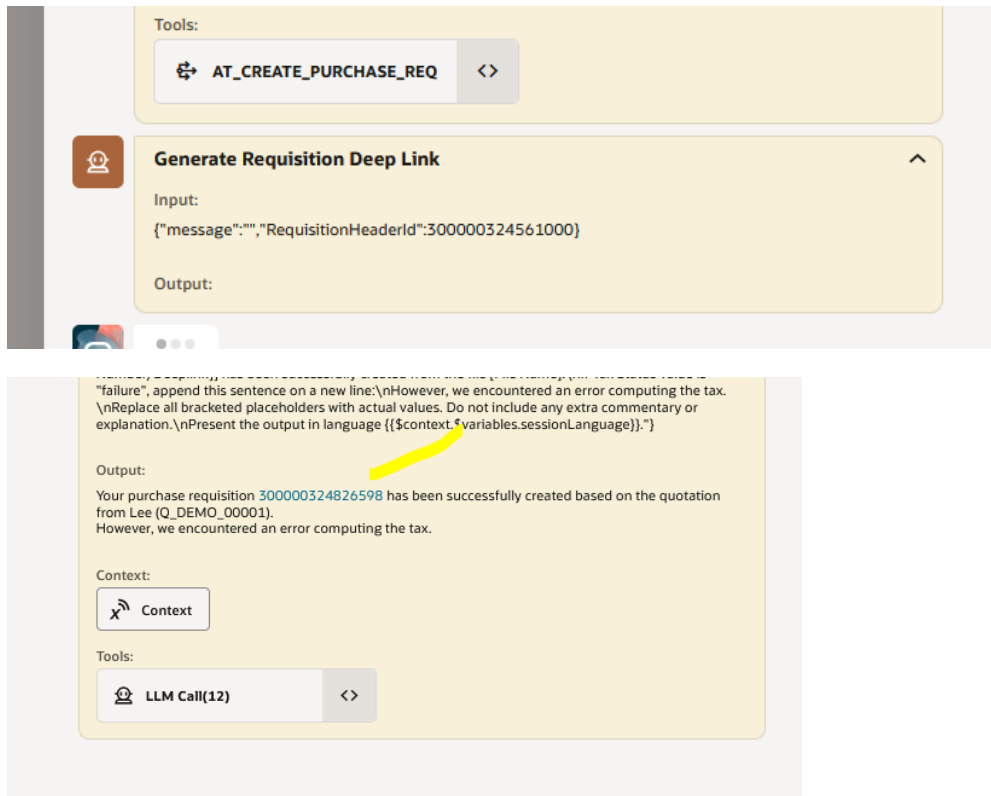


Line 2 part.



In our tests, It takes a while to generate the deep link.

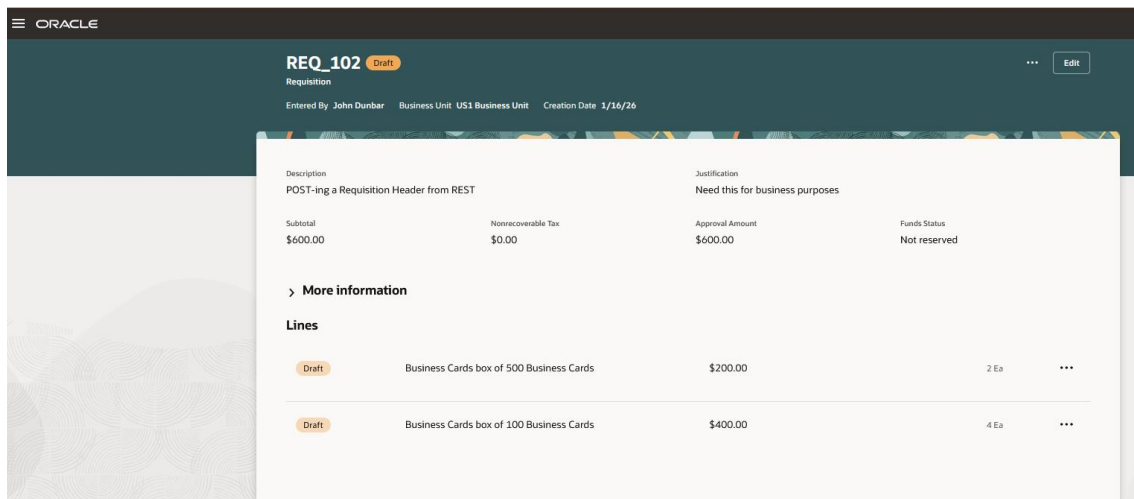




Sample of URL generated for deeplink.

<https://fa-etit-saasfademo1.ds-fa.oraclepdemos.com/fscmUI/redwood/procurement/requisitions/tabbar/shopping/requisitiondetails?requisitionHeaderId=300000324561000>

We would get this:



Line 1.

Business Cards box of 500 Business Cards			
Requisition REQ_102			
<b>Line</b>			
Line 1	Status Draft	Line Type Goods	Category Business Cards
Quantity 2 Ea	Price \$100.00	Line Amount \$200.00	Funds Status Not reserved
<b>Source</b>			
Source Type Supplier	Agreement Type	Agreement	Agreement Line
Supplier	Supplier Site	Supplier Contact	Additional Contact Email
Negotiated No	Negotiation Required No	Buyer	Purchase Order
Negotiation			
<b>Delivery</b>			
Requester John Dunbar	Requested Delivery Date	Destination Type Expense	Deliver-to Location Type Internal
Deliver-to Location Seattle	Deliver-to Address 411 University St, Seattle, WA 98101, King, United States		Urgent No
<b>Additional information</b>			
Attribute Value			

Line 2.

Business Cards box of 100 Business Cards			
Requisition REQ_102			
<b>Line</b>			
Line 2	Status Draft	Line Type Goods	Category Business Cards
Quantity 4 Ea	Price \$100.00	Line Amount \$400.00	Funds Status Not reserved
<b>Source</b>			
Source Type Supplier	Agreement Type	Agreement	Agreement Line
Supplier	Supplier Site	Supplier Contact	Additional Contact Email
Negotiated No	Negotiation Required No	Buyer	Purchase Order
Negotiation			
<b>Delivery</b>			
Requester John Dunbar	Requested Delivery Date	Destination Type Expense	Deliver-to Location Type Internal
Deliver-to Location Seattle	Deliver-to Address 411 University St, Seattle, WA 98101, King, United States		Urgent No
<b>Additional information</b>			
Attribute Value			

**Conclusion.**

We have achieved these goals:

- Get the Agent Team flow working from start to finish.
- Create a working PDF sample (provided).
- Understand the new feature “upload file” in chat.
- Understand how every node is built (this part will be up to you opening the provided original template and analyzing it).
- Make changes, as our users could ask for new requirements, we should be able to make adaptations.

Technical

Code example	Comments
quotation_005.xlsx	To be used as reference.
quotation_005.pdf	To be used as reference.
QUOTE_TO_PURCHASE_REQUISITION_CHAT_ASSISTANT_JJ04.json	To be used as reference.