

## **AI Agent Studio demo. New features in Release 25D.**

### **Agent Team of type “Workflow”. Steps.**

1. **Query Purchase Order, depending on Supplier field, if found.**
2. **Create a Payables invoice from the PO (only one line)**
3. **Generate Deep Link for the created invoice.**

### **Introduction/Goal.**

Release 25D is full of new features, Agent Teams are now of 3 types:

- Supervisor.
- Sequential.
- **Workflow. This document apply to this one.**

We will prepare a basic demo to show the steps **needed for learning purposes.**

Feel free to improve and add your own new features.

We will build our first prototype for Workflow Agent Team that includes:

- Incoming parameters (triggers).
- Variables, assigning from triggers.
- Assigning values from business objects responses to variables.
- Several Business Object Functions (based on Business Objects).
- “If conditions”.
- “Send eMail” nodes.
- Generate Deep Link to allow user to navigate to the Payables invoice just created.

**Disclaimer: this demo is for learning purposes, **only one line of purchase order** will be used to create the payables invoice.**

**Preparatory steps.**

We assume you have basic knowledge to build the business objects tools, to summarize steps.

Recommendation: you could review previous chapters where we detail how to accomplish these tasks.

**Build Business Object 1.**

Name: AA\_BO\_PURCHASE\_ORDER.

Description: get purchase order data.

Operation: GET.

Edit scenario - AA\_BO\_PURCHASE\_ORDER

Cancel

Done

Name

getPurchaseOrder

Description

get purchase order data

Operation Type

HTTP GET

Resource Path

/fscmRestApi/resources/11.13.18.05/purchaseOrders?onlyData=true&q=OrderNumber='{pOrderNumber}'&expand=lines

Resource path for scenario.

/fscmRestApi/resources/11.13.18.05/purchaseOrders?onlyData=true&q=OrderNumber='{pOrderNumber}'&expand=lines

**Parameters.**

Parameters and Business Object Fields

Add Parameter

Add Field

Add Field from Specification

Name	Data Type	Description	Is Parameter
pOrderNumber	string	purchase order parameter	true
POHeaderId	integer	Value that uniquely identifies the purchase order.	false
OrderNumber	string	Number that uniquely identifies the purchase order in the sold-to legal entity.	false
Status	string	Status of the purchase order relative to the purchase order life cycle.	false
ProcurementBU	string	Business unit that manages and owns the purchase order.	false
SupplierId	integer	Value that uniquely identifies the supplier.	false
Supplier	string	Supplier who fulfills the item.	false

Supplier	string	Supplier who furnishes the item.	false
SupplierSite	string	Location that the supplier uses to purchase the item.	false
BillToBU	string	Business unit that processes supplier invoices for the purchase order.	false
lines.LineNumber	number	Number that uniquely identifies the purchase order line.	false
lines.LineType	string	Type that indicates whether the purchase order line references an item or a service.	false
Description	string	Description of the purchase order.	false
Total	number	Ordered amount plus the exclusive tax amounts for the purchase order.	false
lines.Item	string	Abbreviation that uniquely identifies the item on the purchase order.	false
lines.Description	string	Description of the item that the purchase order references.	false
lines.Total	number	Ordered amount plus the exclusive tax amounts on the purchase order	false

## **Build Business Object 2.**

Name: AA\_BO\_SUPPLIER\_DATA.

Description: get supplier data.

Operation: GET.

**Edit businessobject - AA\_BO\_SUPPLIER\_DATA**
Cancel
Save

Family  
PRC

Product  
Other

Name  
AA\_BO\_SUPPLIER\_DATA

Code  
ORA\_PRC\_OTHER\_AABOSUPPLIERDAT

Resource Type  
Monolith resource

Resource Path  
/fscmRestApi/resources/11.13.18.05/suppliers

Description  
Get supplier details

Resource path for scenario.

```
/fscmRestApi/resources/11.13.18.05/suppliers?expand=DF&q=SupplierId='{pSupplierId}'&onlyData=true&fields=BusinessRelationshipCode,SupplierId,Supplier,SupplierNumber,TaxpayerCountryCode
```

## Business Object Functions



Add from Specification



Import

Name ↕	Description ↕	Resource Path ↕	Actions
getSupplierData	Get supplier details	/fscmRestApi/resources/11.13.18.05/suppliers?expand=DF&q=SupplierId='{pSupplierId}'&onlyData=true&fields=BusinessRelationshipCode,SupplierId,Supplier,SupplierNumber,TaxpayerCountryCode	

## Parameters and Business Object Fields

Add Parameter

Add Field

Add Field from Specification

Name ↕	Data Type ↕	Description ↕	Is Parameter ↕	Actions
pSupplierId	string	Supplier Id parameter	true	
SupplierNumber	string	Supplier Number	false	
Supplier	string	Supplier	false	
BusinessRelationshipCode	string	Business Relationship	false	
TaxpayerCountryCode	string	Taxpayer Country Code	false	
SupplierId	integer	Supplier Id	false	

## Example Usages



Add

Description ↕	Sample Payload ↕	Actions
Sample payload	{"pSupplierId":111}	

**Build Business Object 3.**

Here we will create a payables invoices with the minimum data.

Name: AA\_CREATE\_AP\_INV.

Description: Create payables invoice.

Create a new business object

Family  
PRC

Product  
Other

Name  
AA\_CREATE\_AP\_INV

Code  
ORA\_PRC\_OTHER\_AACREATEAPINV

Resource Type  
Monolith resource

Resource Path  
/fscmRestApi/resources/11.13.18.05/invoices

Description  
Create payables invoice

Business Object Functions

+

Add from Specification

Import

Name	Description	Resource Path	Actions
createApInvoice	Create payables invoice	/fscmRestApi/resources/11.13.18.05/invoices	

Scenario.

Edit scenario - AA\_CREATE\_AP\_INV

Name  
createApInvoice

Description  
Create payables invoice

Operation Type  
HTTP POST

Resource Path  
/fscmRestApi/resources/11.13.18.05/invoices

Operation Payload  
{  
 "InvoiceNumber": "{pInvoiceNumber}",  
 "InvoiceCurrency": "{pInvoiceCurrency}",  
 "InvoiceAmount": "{pInvoiceAmount}",  
 "InvoiceDate": "{pInvoiceDate}",  
 "BusinessUnit": "{pBusinessUnit}",  
 "Supplier": "{pSupplier}",  
 "SupplierSite": "{pSupplierSite}",  
 "Description": "{pDescription}",  
 "InvoiceLines": [

Parameters and Business Object Fields			
<div><button>Add Parameter</button><button>Add Field</button><button>Add Field from Specification</button></div>			
pInvoiceAmount	string	Invoice amount parameter	true
pInvoiceDate	string	Invoice date parameter	true
pBusinessUnit	string	Business Unit parameter	true
pSupplier	string	Supplier parameter	true
pSupplierSite	string	Supplier site parameter	true
pDescription	string	Invoice Description parameter	true
pLineNumber	string	Line number parameter	true
pLineAmount	string	Line amount parameter	true

Resource path:



/fscmRestApi/resources/11.13.18.05/invoices

Operation: POST.

Operation payload:

```
{
  "InvoiceNumber": "{pInvoiceNumber}",
  "InvoiceCurrency": "{pInvoiceCurrency}",
  "InvoiceAmount": "{pInvoiceAmount}",
  "InvoiceDate": "{pInvoiceDate}",
  "BusinessUnit": "{pBusinessUnit}",
  "Supplier": "{pSupplier}",
  "SupplierSite": "{pSupplierSite}",
  "Description": "{pDescription}",
  "invoiceLines": [
    {
      "LineNumber": "{pLineNumber}",
      "LineAmount": "{pLineAmount}"
    }
  ]
}
```

Example usage.

Example Usages		
<div><button>+ Add</button></div>		
Description ↕	Sample Payload ↕	Actions
Invoice creation	<pre>{   "InvoiceNumber": "DEMO_AI_FF_02",   "InvoiceCurrency": "USD",   "InvoiceAmount": 2212.75,   "InvoiceDate": "2019-02-01",   "BusinessUnit": "US1 Business Unit",   "Supplier": "ABC Consulting",   "SupplierSite": "ABC US1",   "Description": "Office Supplies",   "invoiceLines": [     {       "LineNumber": 1,       "LineAmount": 2112.75     }   ] }</pre>	<div></div>

```
{
  "InvoiceNumber": "DEMO_AI_FF_02",
  "InvoiceCurrency": "USD",
  "InvoiceAmount": 2212.75,
  "InvoiceDate": "2019-02-01",
  "BusinessUnit": "US1 Business Unit",
```

```
"Supplier": "ABC Consulting",
"SupplierSite": "ABC US1",
"Description": "Office Supplies",
"invoiceLines": [
  {
    "LineNumber": 1,
    "LineAmount": 2112.75
  }
]
}
```

**Deep link.**

This Deep link is in our demo instance, we will document the setup.

Edit deeplink - AP Invoice View Link

CancelSave

Family  
FIN

Product  
Other

Name  
AP Invoice View Link

Code  
ORA\_FIN\_OTHER\_APINVOICEVIEWLINK

Relative url  
/fscmUI/faces/deeplink?objType=AP\_VIEWINVOICE&action=VIEW&objKey=InvoiceId

Description  
A link allowing a user to view AP Invoice Details

Message  
Click {deepLink} for details on this invoice.

Parameter Name	Description	Data Type	Sample Value
InvoiceId	The Internal ID of the invoice	string	300000136616859

/fscmUI/faces/deeplink?objType=AP\_VIEWINVOICE&action=VIEW&objKey=InvoiceId={ InvoiceId}

**Tool for Deep Link.**

AP Invoice View Link

Tool Type  
Deep Link

Tool Name  
AP Invoice View Link

Tool Code  
AP\_INVOICE\_VIEW\_LINK

Family  
FIN

Product  
Other

Description  
A link to the invoice details based on the internal id of the invoice

Require human approval  
☐  

Enable if you want human approval before running the tool.

Deep link

AP Invoice View Link

Message

Click {deepLink} for details on this invoice.



## Worker Agent creation for Deep Link.

**AA\_AP\_INVO\_AGENT\_FOR\_DL**⌵  
Worker Agent

Agent Name  
AA\_AP\_INVO\_AGENT\_FOR\_DL

Agent Code  
AAPINVOAGENTFORDL

Family  
PRC

Product  
Other

Maximum Interactions  
10

Description  
This agent creates a deep link that takes users directly to a corresponding payables invoice.

Agent Persona and Role

ⓘ Editing the value changes this to a custom agent team.

Prompt  
You are an agent used to generate a deep link for requisition details by taking input parameter Invoiceld.  
  
Given an input of Invoiceld, construct a deep link using the "AP Invoice View Link" tool.  
  
The Invoice ID will be the input to you that is {{\$context.\$agents.\$self.\$input}}  
  
Once the deep link is ready, show the deep link in the output.

⊕ ⌵

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

Cancel

Update

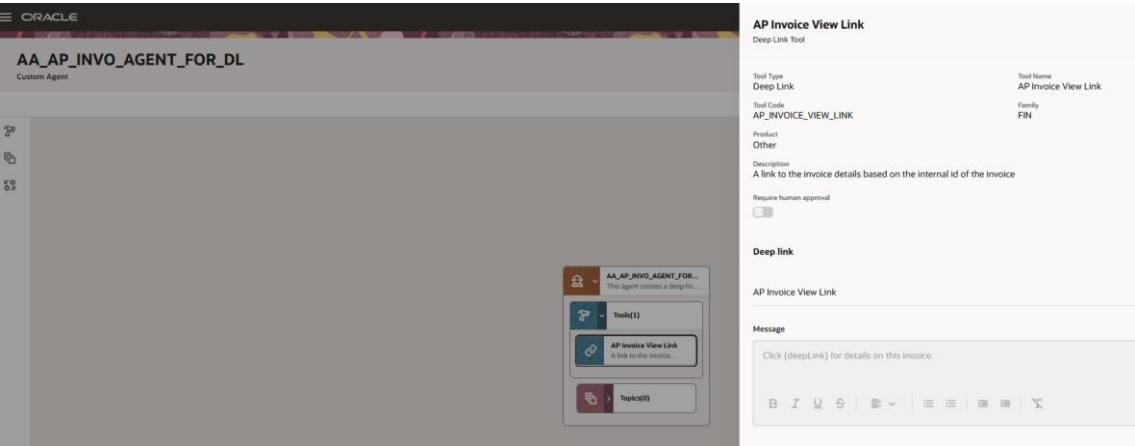
### Description.

This agent creates a deep link that takes users directly to a corresponding payables invoice.

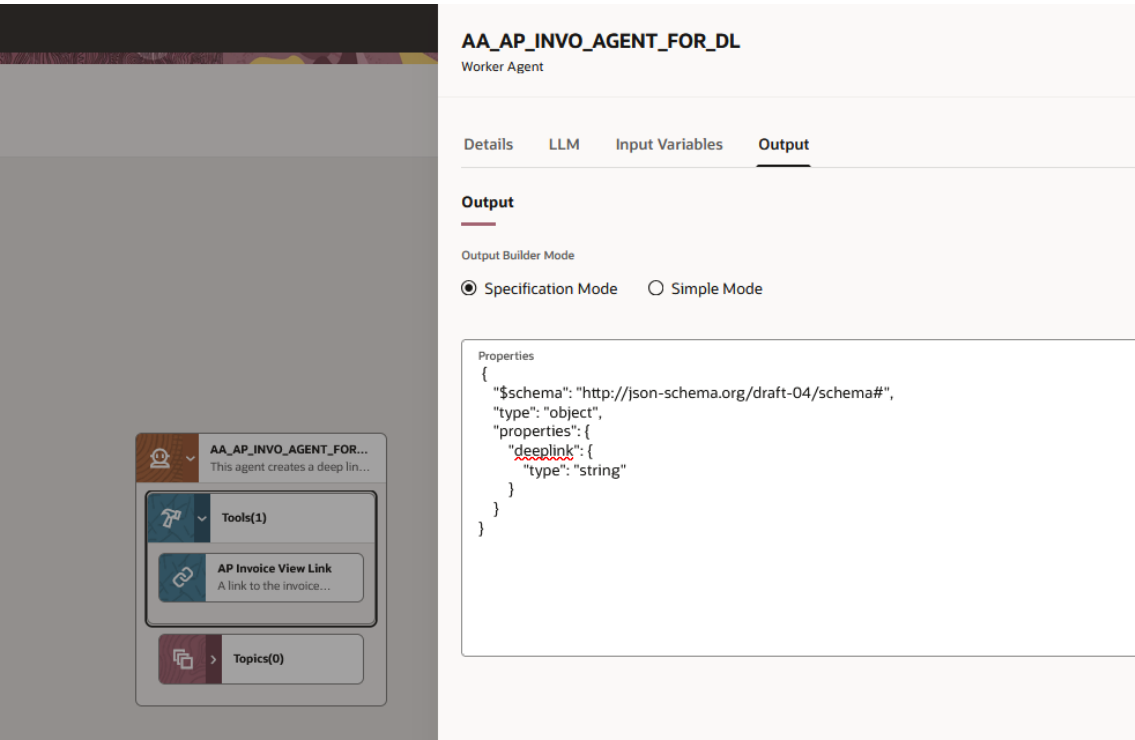
### Prompt.

You are an agent used to generate a deep link for requisition details by taking input parameter Invoiceld. Given an input of Invoiceld, construct a deep link using the "AP Invoice View Link" tool. The Invoice ID will be the input to you that is {{\$context.\$agents.\$self.\$input}} Once the deep link is ready, show the deep link in the output.

Include the Tool in the Agent.



Output.



Text for the Output.

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

Input Variables.

## AA\_AP\_INVO\_AGENT\_FOR\_DL

Worker Agent



Details LLM **Input Variables** Output

### Input Variables

+ Add

Name  
InvoiceId

Type  
Integer

Value



Type {{ to start seeing context-sensitive expressions.

Description  
Invoice Id

Cancel

Apply

**Steps to setup Agent Team.**

Create Agent Team of type Workflow.

Name: AA\_AT\_WF\_PO\_TO\_INV.

Description: Generate payables invoices from purchase orders for a specific list of suppliers

AA\_AT\_WF\_PO\_TO\_INV

Details

LLM

Security

Triggers

Variables

Error Handling

Agent Team Name

AA\_AT\_WF\_PO\_TO\_INV

Agent Team Code

AAATWFPOTOINV

Family

PRC

Product

Other

Type

Workflow

Maximum Interactions

Description

Generate payables invoices from purchase orders for a specific list of suppliers

Triggers tab.

AA\_AT\_WF\_PO\_TO\_INV

Details

LLM

Security

Triggers

Variables

Error Handling

Webhook

+ Add

pMailTo

string

pOrderNumber

string

Variables tab.

AA\_AT\_WF\_PO\_TO\_INV

DetailsLLMSecurityTriggersVariablesError Handling

Variables

varTaxpayerCountryCode

string

varBusinessRelationshipCode

string

varSuppld

integer

pOrderNumber

string

pMailTo

string

Error Handling tab.

AA\_AT\_WF\_PO\_TO\_INV

DetailsLLMSecurityTriggersVariablesError Handling

Email

Send an email when a workflow instance encounters a permanent error.

Recipients

{{context.\$variables.pMailTo}}

⊕ ▼

CC

⊕ ▼

Type {{ to start seeing context-sensitive expressions.

Email Subject

{{"Error: - " + context.\$variables.pOrderNumber}}

⊕ ▼

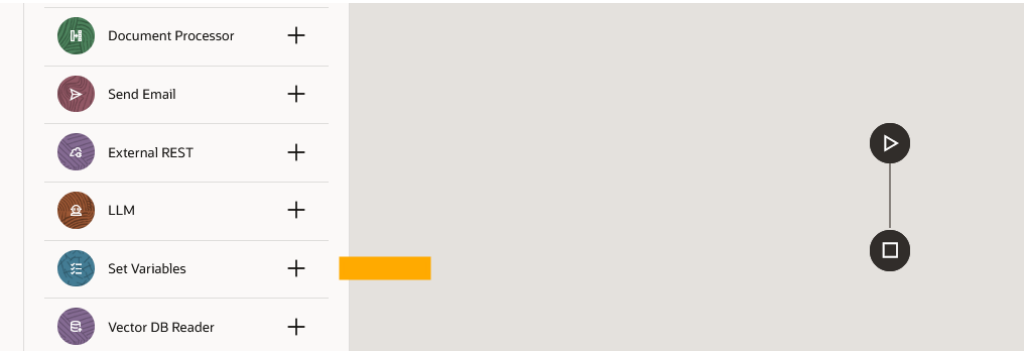
Email Template

{{"There was an error order number " + context.\$variables.pOrderNumber+"<br><details><summary><b>Details:</b></summary><br><b>Node:</b> "+ context.\$error.\$nodeCode+"<br><b>Error:</b> "+ context.\$error.\$errorMessage+"<br><b>Node Input:</b> "+JSON.stringify(context.\$nodes[context.\$error.\$nodeCode].input)+"</details>"]}}

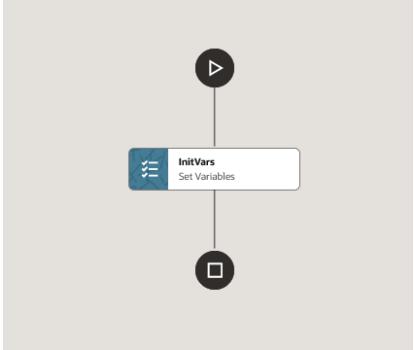
⊕ ▼

Set variables, we will assign values from “Triggers” data.

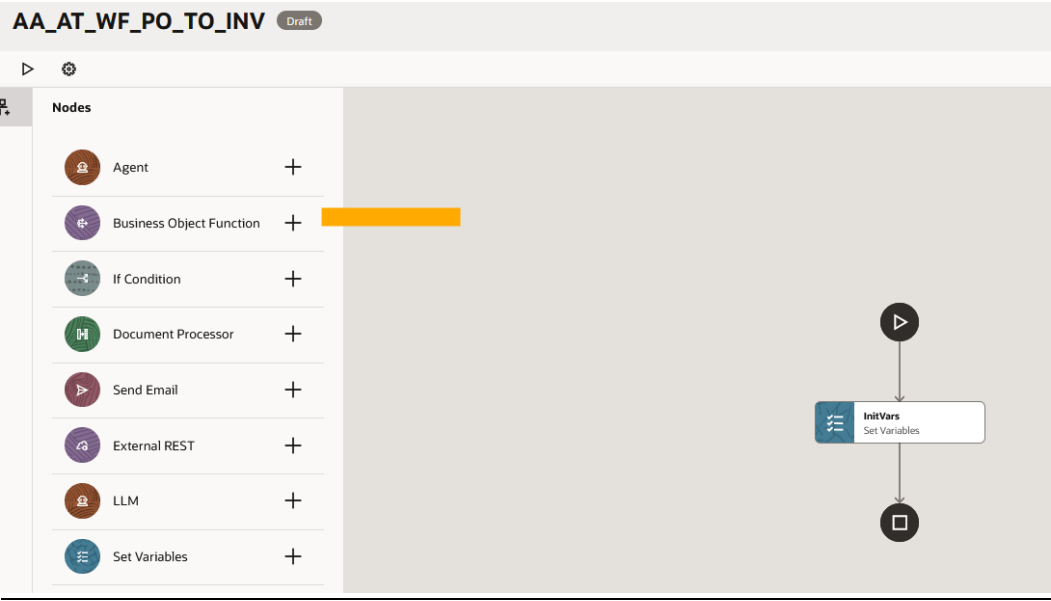
Select the right list as shown.



After the node is on canvas.

Node “set variables”on canvas.	Assign value to first variable.
	<div><div>InitVars</div><div>Set Variables</div><div><div>Name</div><div>InitVars</div></div><div><div>Variables</div><div><div>Name</div><div>pOrderNumber</div></div><div><div>Value</div><div>{{context.\$triggers.REST.\$input.pOrderNumber}}</div></div><div>Type ( to start seeing context-sensitive expressions.</div></div></div>

Now we have to read the Purchase Order using, so we need to include one of the Business Objects created above. The node is called “Bussiness Object Function”.



Name : BOF\_PURCHASE\_ORDER.

The form is titled 'BOF\_PURCHASE\_ORDER' and is identified as a 'Business Object Function'. It contains the following configuration fields:

- Name:** BOF\_PURCHASE\_ORDER
- Code:** BOFPURCHASEORDER
- Type:** Business Object Function
- Family:** PRC
- Product:** Other
- Business object:** AA\_BO\_PURCHASE\_ORDER
- Function:** getPurchaseOrder

**Parameters:**

Parameter Name	Parameter Type
pOrderNumber	string

**Output:**

Output Builder Mode: ☒ Specification Mode ☐ Simple Mode

**Properties:** {}

Here in parameters, we assign the variable that previously has been assigned in trigger by the user.

Parameters

Name

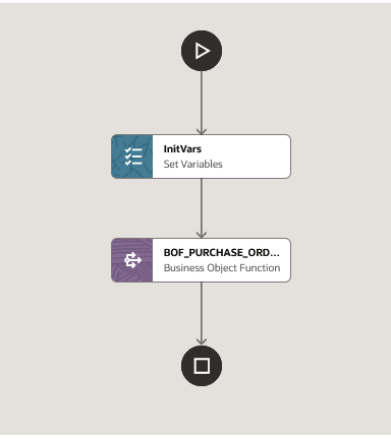
pOrderNumber

Type

String

Value

{{context.\$variables.pOrderNumber}}



**Output.**

In this step we have to tell the Agent team the structure of the output.

BOF\_PURCHASE\_ORDER

Business Object Function

Name

BOF\_PURCHASE\_ORDER

Code

BOFPURCHASEORDER

Type

Business Object Function

Family

PRC

Product

Other

Business object

AA\_BO\_PURCHASE\_ORDER

Function

getPurchaseOrder

Parameters

pOrderNumber

string

Output

Output Builder Mode

Specification Mode

Simple Mode

Properties

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "Internal_List1",
  "type": "object",
  "properties": {
    "Internal_List1": {
      "type": "array",
      "items": {
        "type": "object",
        "properties": {
          "tuna": "chier1"
        }
      }
    }
  }
}
```



## Text for Output.

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "Internal_List1",
  "type": "object",
  "properties": {
    "Internal_List1": {
      "type": "array",
      "items": {
        "type": "object",
        "properties": {
          "lines": {
            "type": "array",
            "items": {
              "type": "object",
              "properties": {
                "LineNumber": {
                  "type": "integer"
                },
                "Total": {
                  "type": "integer"
                },
                "LineType": {
                  "type": "integer"
                },
                "Description": {
                  "type": "integer"
                }
              }
            }
          },
          "POHeaderId": {
            "type": "integer"
          },
          "Total": {
            "type": "number"
          },
          "SupplierId": {
            "type": "integer"
          },
          "Supplier": {
            "type": "string"
          },
          "ProcurementBU": {
            "type": "string"
          },
          "Supplier": {
            "type": "string"
          },
          "CurrencyCode": {
            "type": "string"
          },
          "SupplierSite": {
            "type": "string"
          }
        }
      }
    }
  }
}
```

## Initial Tests.

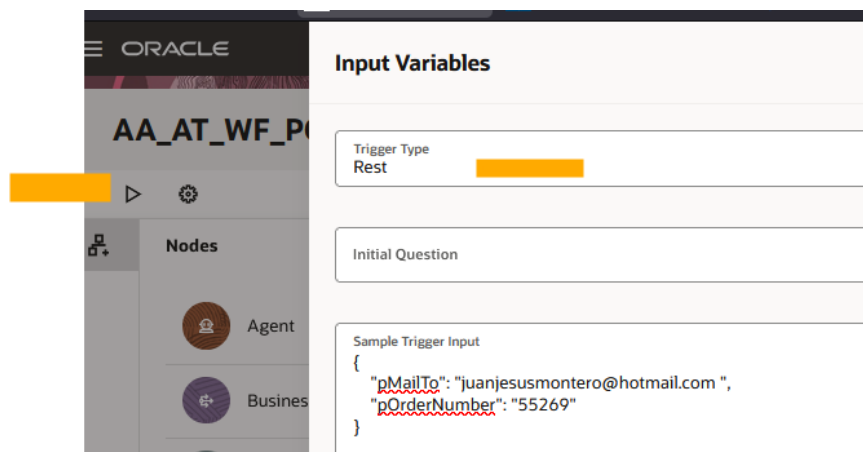
We have completed the demo step by step.

For testing, this data from Postman will be useful:

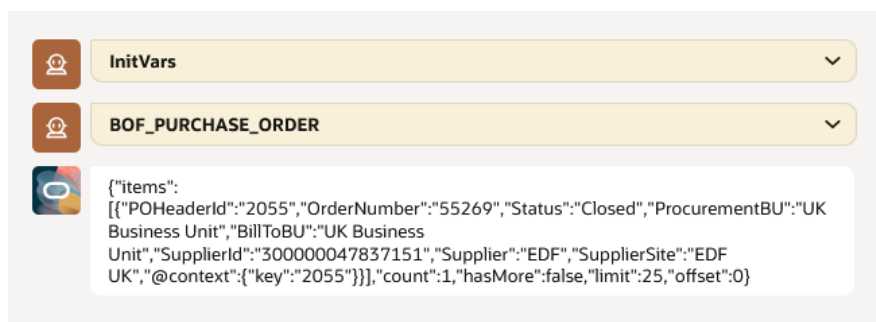
```
{
  "items": [
    {
      "POHeaderId": 2055,
      "OrderNumber": "55269",
      "Status": "Closed",
      "ProcurementBU": "UK Business Unit",
      "BillToBU": "UK Business Unit",
      "SupplierId": 300000047837151,
      "Supplier": "EDF",
      "SupplierSite": "EDF UK"
    },
    {
      "POHeaderId": 2144,
      "OrderNumber": "US165029"
    }
  ]
}
```

Our sample payload and how to run the Preview.

```
{
  "pMailTo": "juanjesusmontero@hotmail.com ",
  "pOrderNumber": "US165029"
}
```

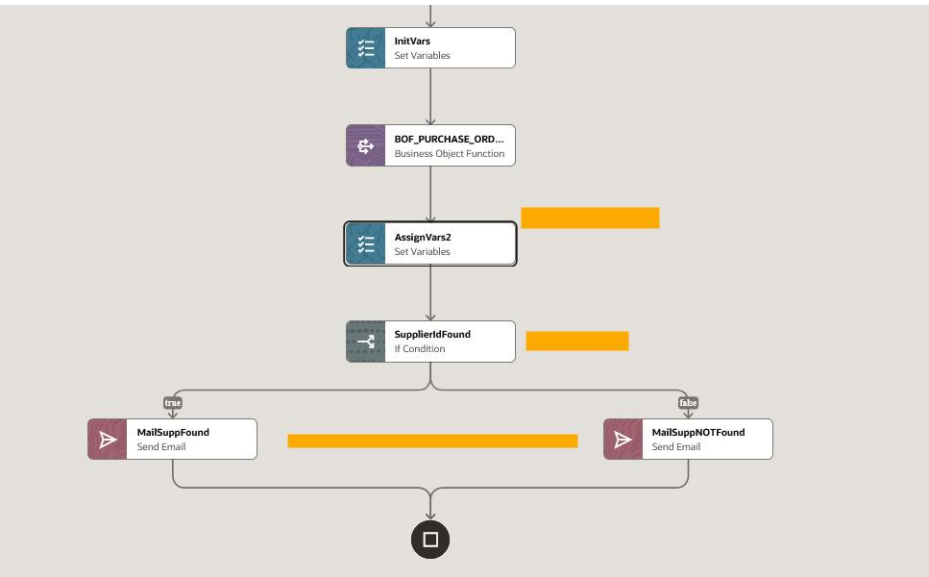


Response.



**Let us add more steps.**

Assign value in “AssignVars2” step to variable from result on Business Object BOF\_PURCHASE\_ORDER.



Select using this tool:

**BOF\_PURCHASE\_ORDER**  
Business Object Function

Name: BOF\_PURCHASE\_ORDER | Code: BOFPURCHASEORDER | Type: Business Object Function

Family: PRC | Product: Other | Business object: AA\_BO\_PURCHASE\_ORDER

Function: getPurchaseOrder

**Parameters**

Name: pOrderNumber | Type: String

Value: {{context.\$variables.pOrderNumber}}

**Output**

Output Builder Mode: ☒ Specification Mode ☐ Simple Mode

Context menu:

- INITVARS
- BOFPURCHASEORDER
- ASSIGNVARS2
- SUPPLIERIDFOUND
- MAILSUPPNOTFOUND
- BOFSUPPLIER
- SUPPLIERINCLUDEDINPROCESS
- ASSIGNVARS3
- BOFCREATEPINV
- AAAPINVOAGENTFORDLINAT

Input: BusinessRelationshipCo

Items[0]: SupplierId

Triggers: TaxpayerCountryCode

Variables: Supplier

Nodes: SupplierSite

**AssignVars2**  
Set Variables

Name: AssignVars2 | Code: ASSIGNVARS2

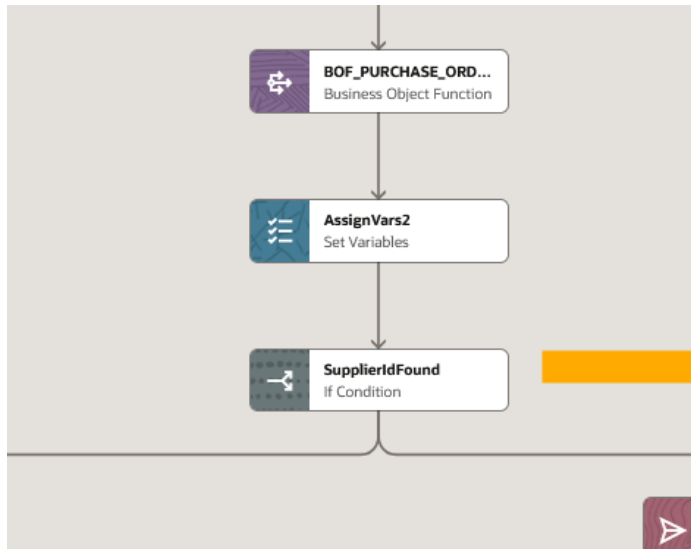
**Variables**

Name: varSuppld | Type: Integer

Value: {{context.\$nodes.BOPURCHASEORDER.\$output.items[0].SupplierId}}

```
{{context.$nodes.BOPURCHASEORDER.$output.items[0].SupplierId}}
```

We will now add "If condition".



**SupplierIdFound**  
If Condition

Name	Code	Type
SupplierIdFound	SUPPLIERIDFOUND	If Condition

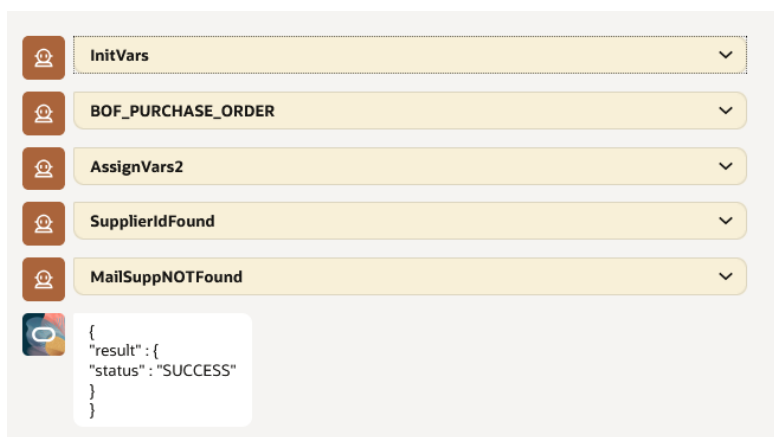
If Condition  
{{context.\$variables.varSupId+"aaa"!="aaa"}}

Type [ ] to start seeing context-sensitive expressions.

```
{{context.$variables.varSupId+"aaa"!="aaa"}}
```

Our payload for testing.

```
{
  "pMailTo": "juanjesusmontero@hotmail.com ",
  "pOrderNumber": "US165029"
}
```



Notice we receive the mail.

## We will add more steps to our Workflow.

Let us add another Business Object for Suppliers, to get “BusinessRelationshipCode” field.

**BOF\_SUPPLIER**  
Business Object Function

Name BOF_SUPPLIER	Code BOFSUPPLIER	Type Business Object Function
Family PRC	Product Other	Business object AA_BO_SUPPLIER_DATA
Function getSupplierData		

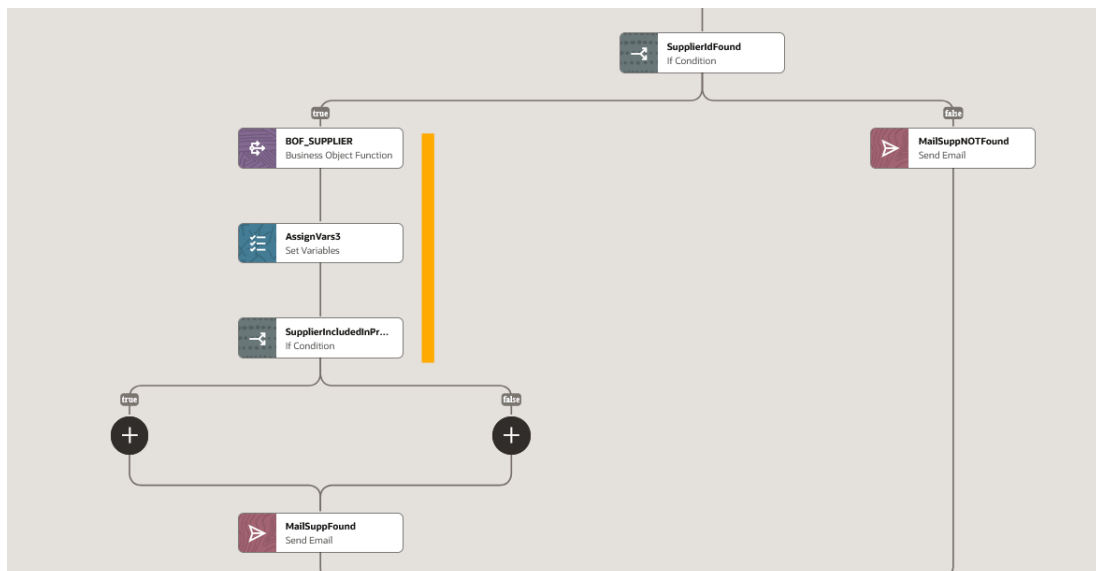
**Parameters**

Name pSupplierId	Type String
Value {{context.\$variables.varSupplierId}}	

Cancel Apply

After including the business object for Suppliers... now we will assign the variable “varBusinessRelationshipCode” and include a new “If condition”.

We will consider only suppliers with type= 'SPEND\_AUTHORIZED'



Assign variable value.

**AssignVars3**  
Set Variables

Name AssignVars3	Code ASSIGNVARS3
---------------------	---------------------

**Variables**

Name varBusinessRelationshipCode	Type string
Value {{context.\$nodes.BOFSUPPLIER.\$output.items[0].BusinessRelationshipCode}}	

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

```
{{context.$nodes.BOFSUPPLIER.$output.items[0].BusinessRelationshipCode}}
```

If condition.

**SupplierIncludedInProcess**  
If Condition

Name  
SupplierIncludedInProcess

Enter a unique name

Code  
SUPPLIERINCLUDEDINPROCESS

If Condition  
{{ \$context.\$variables.varBusinessRelationshipCode=='SPEND\_AUTHORIZED' }}

Type {{ to start seeing context-sensitive expressions.

`{{ $context.$variables.varBusinessRelationshipCode=='SPEND_AUTHORIZED' }}`

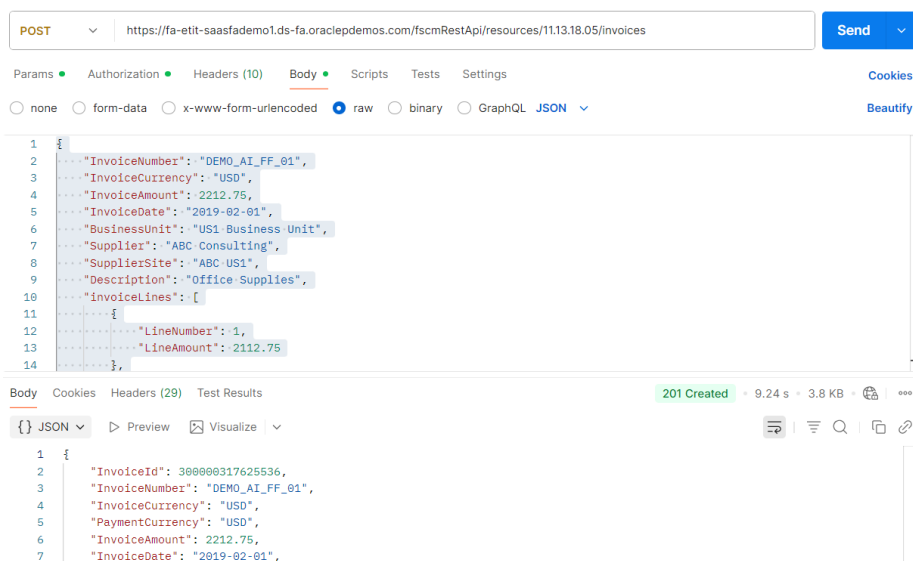
## New steps.

Now we will create a payables invoice with the information from the purchase order.

Investigate this REST API. You will need to make sure your user has the proper roles to get a successful POST operation.

Sample working payload.

```
{
  "InvoiceNumber": "DEMO_AI_FF_01",
  "InvoiceCurrency": "USD",
  "InvoiceAmount": 2212.75,
  "InvoiceDate": "2019-02-01",
  "BusinessUnit": "US1 Business Unit",
  "Supplier": "ABC Consulting",
  "SupplierSite": "ABC US1",
  "Description": "Office Supplies",
  "invoiceLines": [
    {
      "LineNumber": 1,
      "LineAmount": 2112.75
    },
    {
      "LineNumber": 2,
      "LineType": "Freight",
      "LineAmount": 100,
      "ProrateAcrossAllItemsFlag": true
    }
  ]
}
```



Payload.

```
{
  "InvoiceNumber": "{pInvoiceNumber}",
  "InvoiceCurrency": "{pInvoiceCurrency}",
  "InvoiceAmount": "{pInvoiceAmount}",
  "InvoiceDate": "{pInvoiceDate}",
  "BusinessUnit": "{pBusinessUnit}",
  "Supplier": "{pSupplier}",
  "SupplierSite": "{pSupplierSite}",
  "Description": "{pDescription}",
  "invoiceLines": [
    {
      "LineNumber": "{pLineNumber}",
      "LineAmount": "{pLineAmount}"
    }
  ]
}
```

**“Agent Team” more steps.**

New Business Object Function.

Name: BOF\_CREATE\_AP\_INV.

BO called: AA\_CREATE\_AP\_INV.

BOF\_CREATE\_AP\_INV

Business Object Function

Name

BOF\_CREATE\_AP\_INV

Code

BOFCREATEAPINV

Type

Business Object Function

Family

PRC

Product

Other

Business object

AA\_CREATE\_AP\_INV

Function

createApInvoice

Parameters

pInvoiceNumber	string		
pInvoiceCurrency	string		
pInvoiceAmount	string		
pInvoiceDate	string		
pBusinessUnit	string		
pSupplier	string		
pSupplierSite	string		

Disclaimer.

In this demo only one line from PO will be used to create the payables invoice.

One more advanced demo would be based on “Quote to Purchase Requisition Assistant” and “Sales Order Assistant” provided by Oracle IN 25D.

In next chapters we will try to overcome this.



Mapping.

Parameters

Name

pInvoiceNumber

Type

String

Value

{{'D-'+\$context.\$nodes.BOFPURCHASEORDER.\$output.items[0].POHeaderId}}

Type {{ to start seeing context-sensitive expressions.

{ { 'D-' + \$context.\$nodes.BOFPURCHASEORDER.\$output.items[0].POHeaderId } }

Note.

in our testing we are changing the prefix to avoid the “duplicate invoice” error.

{ { 'D-' + \$context.\$nodes.BOFPURCHASEORDER.\$output.items[0].POHeaderId } }

<div><div><div>Name</div><div>pInvoiceCurrency</div></div><div>Type</div><div></div></div> <div><div>Value</div><div>{{ \$context.\$nodes.BOFPURCHASEORDER.\$output.items[0].lines.items[0].CurrencyCode }}</div></div> <div>Type {{ to start seeing context-sensitive expressions.</div>
---

{{ \$context.\$nodes.BOFPURCHASEORDER.\$output.items[0].lines.items[0].CurrencyCode }}

Output.

**BOF\_CREATE\_AP\_INV**  
Business Object Function

Parameters

pDescription	string
pLineNumber	string
pLineAmount	string

Output

Output Builder Mode

☒ Specification Mode ☐ Simple Mode

Properties

```
{
  {
    "$schema": "http://json-schema.org/draft-04/schema#",
    "type": "object",
    "properties": {
      "InvoiceId": {
        "type": "number"
      }
    }
  }
}
```

```
{
  "$schema": "http://json-schema.org/draft-04/schema#",
  "type": "object",
  "properties": {
    "InvoiceId": {
      "type": "number"
    }
  }
}
```

A new test will generate a POST operation.

Notice we have created a very-very basic Payables invoice for learning purposes, feel free to include new fields in header and line.

BOF\_CREATE\_AP\_INV

Latency

8.56 seconds

Input

```
{
  "resource_path": "/fscmRestApi/resources/11.13.18.05/invoices",
  "serviceName": "FA",
  "body_template": {
    "InvoiceNumber": "D-300000296208759",
    "InvoiceCurrency": "USD",
    "InvoiceAmount": 1113.62,
    "InvoiceDate": "2025-01-06T17:40:03+00:00",
    "BusinessUnit": "US1 Business Unit",
    "Supplier": "Lee Supplies",
    "SupplierSite": "Lee US1",
    "invoiceLines": [
      {
        "LineNumber": 1,
        "LineAmount": 86.51
      }
    ]
  },
  "query_dict": {},
  "headers": {},
  "operation_type": "POST"
}
```


Output

```
{
  "responseStatus": 201,
  "response": {
    "InvoiceId": 30000317627649,
    "InvoiceNumber": "D-300000296208759",
    "InvoiceCurrency": "USD",
    "PaymentCurrency": "USD",
    "InvoiceAmount": 1113.62,
    "InvoiceDate": "2025-01-06",
    "BusinessUnit": "US1 Business Unit",
    "Supplier": "Lee Supplies",
    "SupplierNumber": 1252,
    "ProcurementBU": null
  }
}
```

Now in SaaS.

Search Results

Search: Invoice

Actions View      Detach

Validate

Approval

Post

Invoice Number	Invoice Date	Creation Date	Supplier or Party	Supplier Site	Unpaid Amount	Invoice Amount	Applied Prepayments	Invoice Type
D-300000296208759	1/6/25	10/13/25 10:5...	Lee Supplies	Lee US1	1,113.62 USD	1,113.62 USD	0.00 USD	Standard

Invoice: D-300000296208759

27 AI for Fusion cookbook

**More changes in “Agent Team” to include Deep Link.**

We will add the new agent created above in preparatory steps.

Name of the new node: AA\_AP\_INVO\_AGENT\_FOR\_DL\_IN\_AT.

AA\_AP\_INVO\_AGENT\_FOR\_DL\_IN\_AT

Agent

Details

LLM

Tools

Topics

Name

AA\_AP\_INVO\_AGENT\_FOR\_DL\_IN\_AT

Code

AAAPINVOAGENTFORDLINAT

Type

Agent

Family

PRC

Product

Other

Agent

AA\_AP\_INVO\_AGENT\_FOR\_DL

Input Variables

message

string

Invoiceld

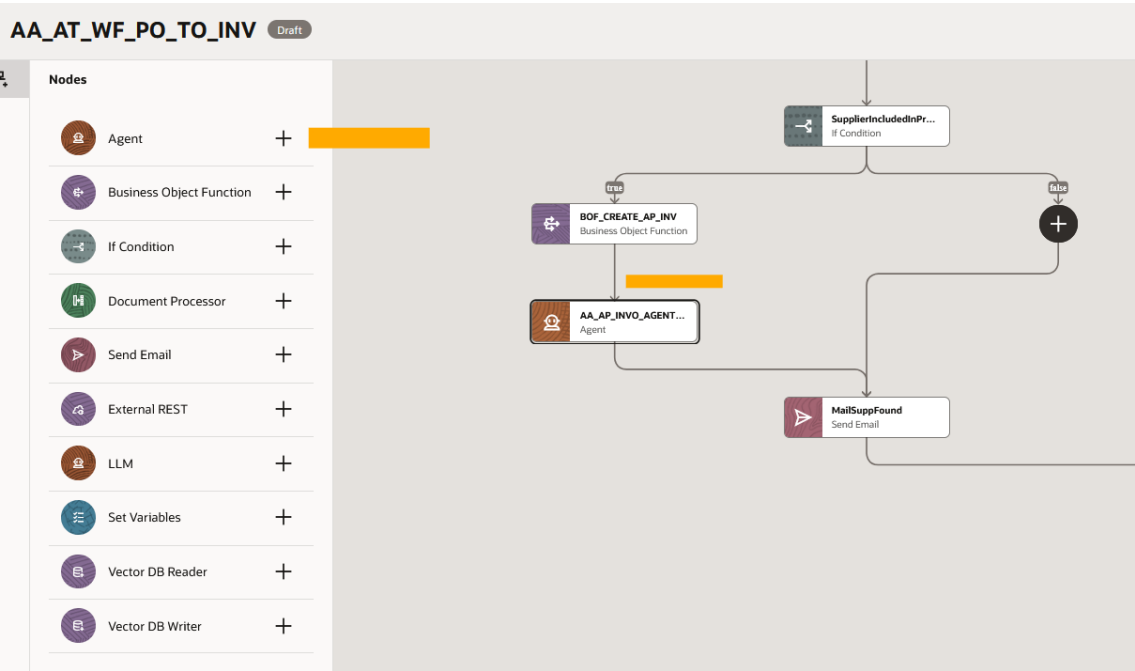
integer

Output

Cancel

Create

Select Agent = “AA\_AP\_INVO\_AGENT\_FOR\_DL”.



Then add value to parameter.

AA\_AP\_INVO\_AGENT\_FOR\_DL\_IN\_AT

Agent

Details

LLM

Tools

Topics

Name

AA\_AP\_INVO\_AGENT\_FOR\_DL\_IN\_AT

Code

AAAPINVOAGENTFORDLINAT

Family

PRC

Product

Other

Input Variables

message

string

Name

invoiceld

Type

Integer

Value

{{context.\$nodes.BOFCREATEAPINV.\$output.InvoiceId}}

Type {{ to start seeing context-sensitive expressions.

```
{{context.$nodes.BOFCREATEAPINV.$output.InvoiceId}}
```

**Testing.**

Our payload for testing.

```
{
  "pMailTo": "juanjesusmontero@hotmail.com ",
  "pOrderNumber": "US165029"
}
```

### AA\_AP\_INVO\_AGENT\_FOR\_DL\_IN\_AT

Input tokens	Output tokens	Total tokens	Latency
1841	258	2099	21.02 seconds

Input:

```
{"message": "hi", "InvoiceId": 300000317625851}
```

Output:

```
{
  "deeplink": "https://fa-etit-saasfademo1.ds-fa.oraclepdemos.com/fscmUI/faces/deeplink?objType=AP_VIEWINVOICE&action=VIEW&objKey=InvoiceId=300000317625851"
}
```

Context:

Context

Tools:

LLM Call(0)

AP Invoice View Link

LLM Call(1)

LLM Call(2)

```
{
  "deeplink": "here"
}
```

Ask Oracle

If we click on link generated we go here.

## Invoice Details : po9-300000296208759

Invoice Date	1/8/25	Invoice Amount
Invoice Type	Standard	Applied Prepayments
Supplier or Party	Lee Supplies	Unpaid Amount
Supplier Site	Lee US1	Holds 1
Address	5000 CARTER DR., LOS ANGELES, CA-90032	Notes

[Lines](#)
[Holds and Approvals](#)
[Payments](#)
[Installments](#)
[Distribution Details](#)

### Items

View

Line	Amount	Description
1	88.51	

Shipping and Handling

## **MailSuppFound. FOR FUTURE USE.**

Feel free to relocate and adapt.



**MailSuppFound**  
Send Email

Name MailSuppFound	Code MAILSUPPFOUND	Type Send Email
-----------------------	-----------------------	--------------------

Recipients  
{{\$context.\$variables.pMailTo}}

CC

Email Subject  
{"Purchase Order Data - " + \$context.\$nodes.BOPPURCHASEORDER.\$output.items[0].Supplier + ", " + \$context.\$nodes.BOPPURCHASEORDER.\$output.items[0].SupplierId}}

Email Template  
{{\$context.\$nodes.BOPPURCHASEORDER.\$output.items[0].SupplierId}}

### **Recipients:**

{{\$context.\$variables.pMailTo}}

### **Subject:**

{"Purchase Order Data - " + \$context.\$nodes.BOPPURCHASEORDER.\$output.items[0].Supplier + ", " + \$context.\$nodes.BOPPURCHASEORDER.\$output.items[0].SupplierId}}

### **Template:**

{{\$context.\$nodes.BOPPURCHASEORDER.\$output.items[0].SupplierId}}

## **Conclusion.**

We have built our first prototype for Workflow Agent Team that includes:

- Incoming parameters (triggers).
- Variables, assigning from triggers.
- Assigning values from business objects responses to variables.
- Several Business Object Functions (based on Business Objects).
- “If conditions”.
- “Send eMail” nodes.
- Generate Deep Link to allow user to navigate to the Payables invoice just created.