



Leading the **Integration** Revolution

Your business problems have changed.
Why hasn't your integration solution?



ADEPTIA

Using Adeptia

Use Case : RESTful Web Service in JSON

Use Case highlights

In this use case we will go through following steps:

1. Publish an orchestration as a RESTful Web Service
2. Client requests an account profile by passing accountid parameter
3. Orchestration gets the Account profile by querying a backend database
4. Web Service responds back with Account profile in JSON format
5. View the status and the run-time logs in the Process Monitoring

Design methodology

Design

Design a high level process flow

Configure

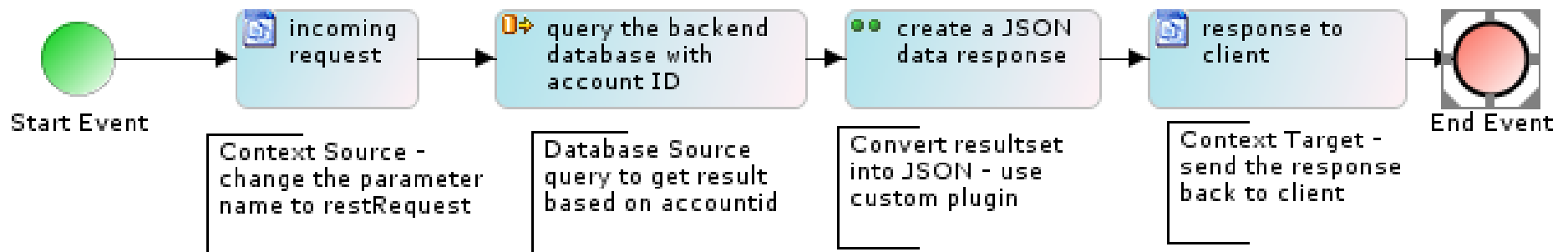
Configure all the activities in the process flow

Deploy

Publish as RESTful API

Design: Process Flow

Please refer to the Use Case video describing how to build this process flow



Configure – Database Schema

Go to Develop > Services > Schema > Database

Services > Schema > Database ✓

Delete Refresh + Create New Quick Search

Name	Description	Owner	Project Name	Modified	Action
UseCase_AccountMaster_Schema	Account Master db schema	demouser	UseCase_JSON_...	01/26/1...	☰

Database Schema: UseCase_AccountMaster_Schema

The parameterized query
Receives the parameter value
from the REST request

Name* UseCase_AccountMaster_Schema

Description* Account Master db schema

Select Database Info* AccountMaster_Database

Create New

Definition Mode* Import XSD File Table Name

XSD File Browse...

Table Name dbo.[assetallocation] Browse Tables

SQL Query
SELECT * FROM dbo.[assetallocation] WHERE accountid =
\$\$accountid\$\$ ✓

Configure – Database Source

Go to Develop > Services > Source > Database

Services > Source > Database

Delete + Create New Quick Search

Name	Description	Owner	Project Name	Modified	Action
<input type="checkbox"/> UseCase_Account_Master_DB	source to get Account profile	demouser	UseCase_JSON_...	01/26/1...	☰

Select the Database Info
And the Schema.

Name* UseCase_Account_Master_DB X

Description* source to get Account profile

Database Info* AccountMaster_Database ✓

Schema Name* UseCase_AccountMaster_Schema ✓

Configure – Custom Plugin

Go to Develop > Services > Extensions > Custom Plugin

Services > Extensions > Custom Plugin ✓

Delete + Create New Quick Search

<input type="checkbox"/>	Name	Description	Owner	Project Name	Modified	Action
<input type="checkbox"/>	CP_XML_to_JSON	XML to JSON code	demouser	UseCase_JSON_...	01/26/1...	☰

Copy and paste the code attached for this Use Case in the forum.

Name* CP_XML_to_JSON

Description* XML to JSON code

Character Set Encoding* ISO-8859-1
Refresh

Variables

#	Name	Type	Default Value
1		Plain Text	
2		Plain Text	
3		Plain Text	
4		Plain Text	

Number of Rows 1 at Position 5 Add Row Remove Row

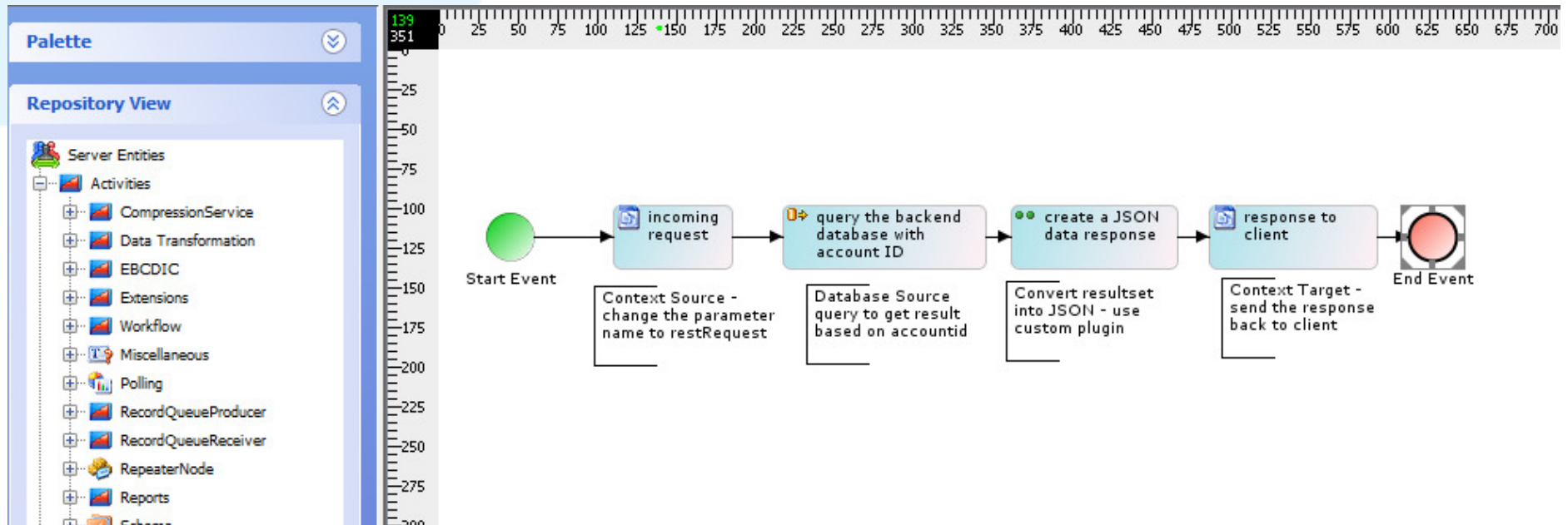
Hide Script

```
import org.json.XML;
import java.io.*;
import org.json.JSONObject;
import org.json.XML;
import com.adeptia.indigo.services.ServiceException;
```


Configure – Process Flow

Attach the activities as shown in the video.

For the JSON custom plugin, right click and use Multiple Stream option to map the 'default' stream to Context Target.



Deploy – Publish as RESTful Web Service

Go to Develop > Services > Web Services > Provider

Services > Web Services > Provider ✓

Synchronize Delete + Create New Quick Search

Name	Description	Owner	Style	WSDL	Project Name	Modified	Action
allocation	allocation data for account id	demo...	REST ✓	View	UseCase_JS...	01/26...	☰

Name* allocation

Description* allocation data for account id

Character Set Encoding* ISO-8859-1 Refresh

Publish Type SOAP REST

Resource End Path* /account ✓

Process Flow Name* UseCase_JSON_Web_Service ✓

#	Name	Value	Style
1			Query
2			Query
3			Query
4			Query

No. of Rows 1 at Position 5 Add Row Remove Row

Add Method ✓

#	Method Type	Action
1	GET ✓	Edit Delete

Method Type* Get

#	Name	Default Value	Style
1	accountid ✓	na	Query
2			Query
3			Query
4			Query

Method Parameter

No. of Rows 1 at Position 5 Add Row Remove Row

Presentation

Type	Media Type	Status Code	Variable Name
RESPONSE	application/json ✓		restResponse
FAULT	application/text		restFault

Method parameter name should be same as the one given in the Database Schema Query.

Project: View and manage activities for this use case

Projects

List of activities included in project "UseCase_JSON_Web_Service" ✓

◀ Back Move ↻ Quick Search

<input type="checkbox"/>	Name	Description	Owner	Modified
[-] Custom Plugin (1)				
<input type="checkbox"/>	CP_XML_to_JSON	XML to JSON code	demouser	01/26/14 11:50
[-] Database Info (1)				
<input type="checkbox"/>	AccountMaster_Database	sql server connection	demouser	01/26/14 11:45
[-] Database Schema (1)				
<input type="checkbox"/>	UseCase_AccountMaster_Sch...	Account Master db schema	demouser	01/26/14 11:48
[-] Database Source (1)				
<input type="checkbox"/>	UseCase_Account_Master_DB	source to get Account profile	demouser	01/26/14 11:48
[-] Process Flow (1)				
<input type="checkbox"/>	UseCase_JSON_Web_Service	orchestration that will provid...	demouser	01/26/14 12:22
[-] Web Service Provider (1)				
<input type="checkbox"/>	allocation	allocation data for account id	demouser	01/26/14 11:57

Leading the
Integration
Revolution

Your business problems have changed.
Why hasn't your integration solution?

Thank You!



ADEPTIA