# REST Integration  (In Pega)

**An Article By Amardeep**

What is REST service in PEGA?
PEGA
API
REST
GET
POST
PUT
DELETE
An Article By Amardeep Srivastava

Outcome: We will be leveraging the REST integration in Pega to Fetch the table records .

Prerequisite :There should be one data type available with records.

## What is REST ?What does it do ?

**REST service in PEGA** is a way to **expose Pega functionality to external systems** so that other applications can **send requests to Pega and get responses** using **HTTP methods**.

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### 🔷 What is a REST Service in PEGA?

A **REST Service** in Pega allows **external applications** (like Java, .NET, mobile apps, Postman, etc.) to **call Pega** using standard REST protocols such as:

- **GET**
- **POST**
- **PUT**
- **DELETE**

Pega processes the request, executes the configured logic (Activity / Data Transform), and returns a **JSON or XML response**.

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### 🔷 Why REST Service is used in PEGA?

- To **integrate Pega with external systems**

- To **expose case creation, updates, or data retrieval**
- To support **microservices architecture**
- Lightweight and **faster than SOAP**

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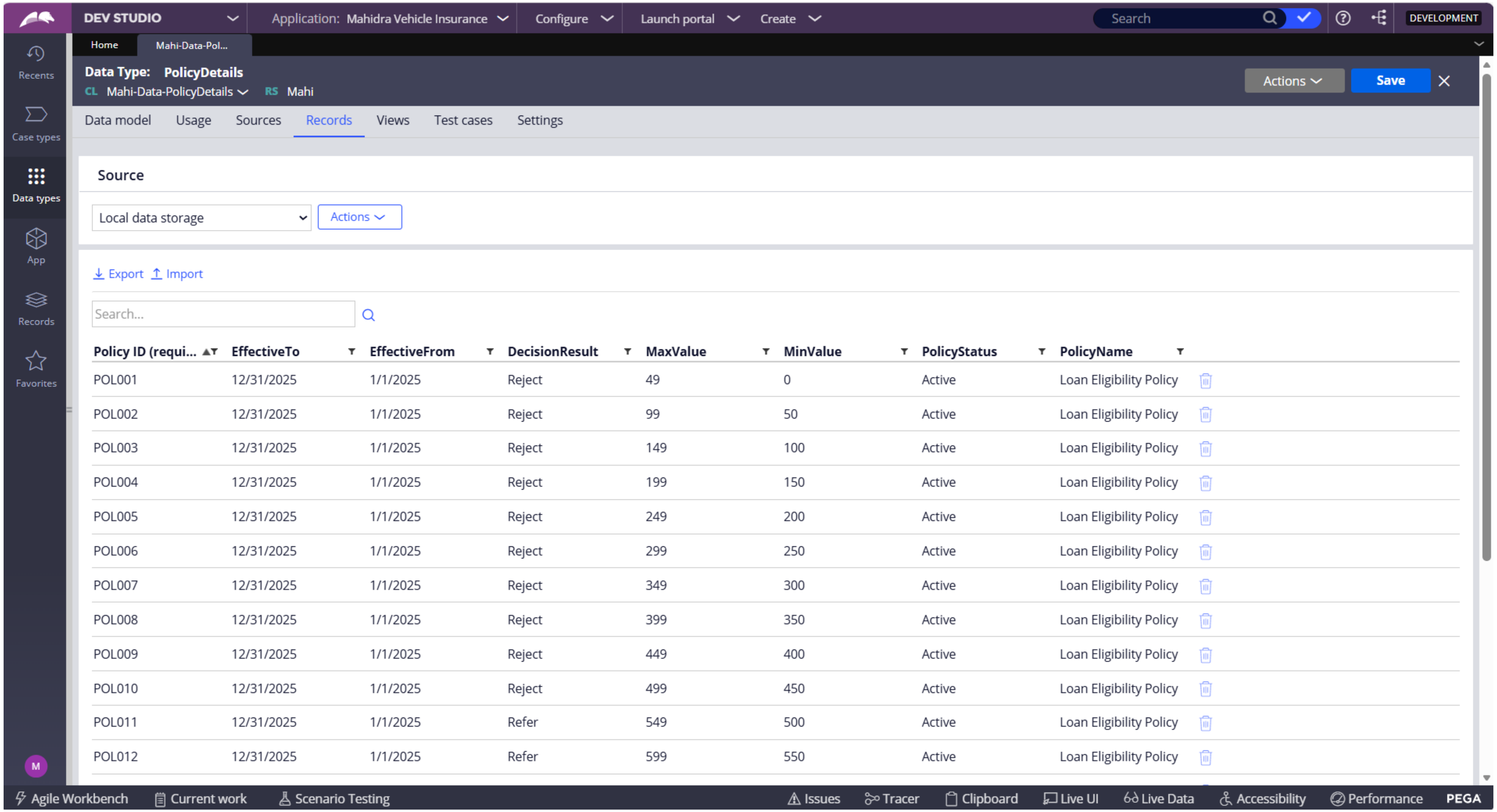
### 🔷 Key Components of REST Service in PEGA

1. **Service Package**
   - Security & access control
   - Authentication (Basic, OAuth 2.0)
2. **Service REST Rule**
   - Defines endpoint URL
   - HTTP method (GET/POST/etc.)
   - Request & response mapping
3. **Request Data Transform**
   - Maps incoming JSON/XML → Pega properties
4. **Processing Logic**
   - Activity / Case creation / Data page
5. **Response Data Transform**
   - Maps Pega data → JSON/XML response

## Let’s Start The Hands On :



Data Type: PolicyDetails

CL Mahi-Data-PolicyDetails RS Mahi

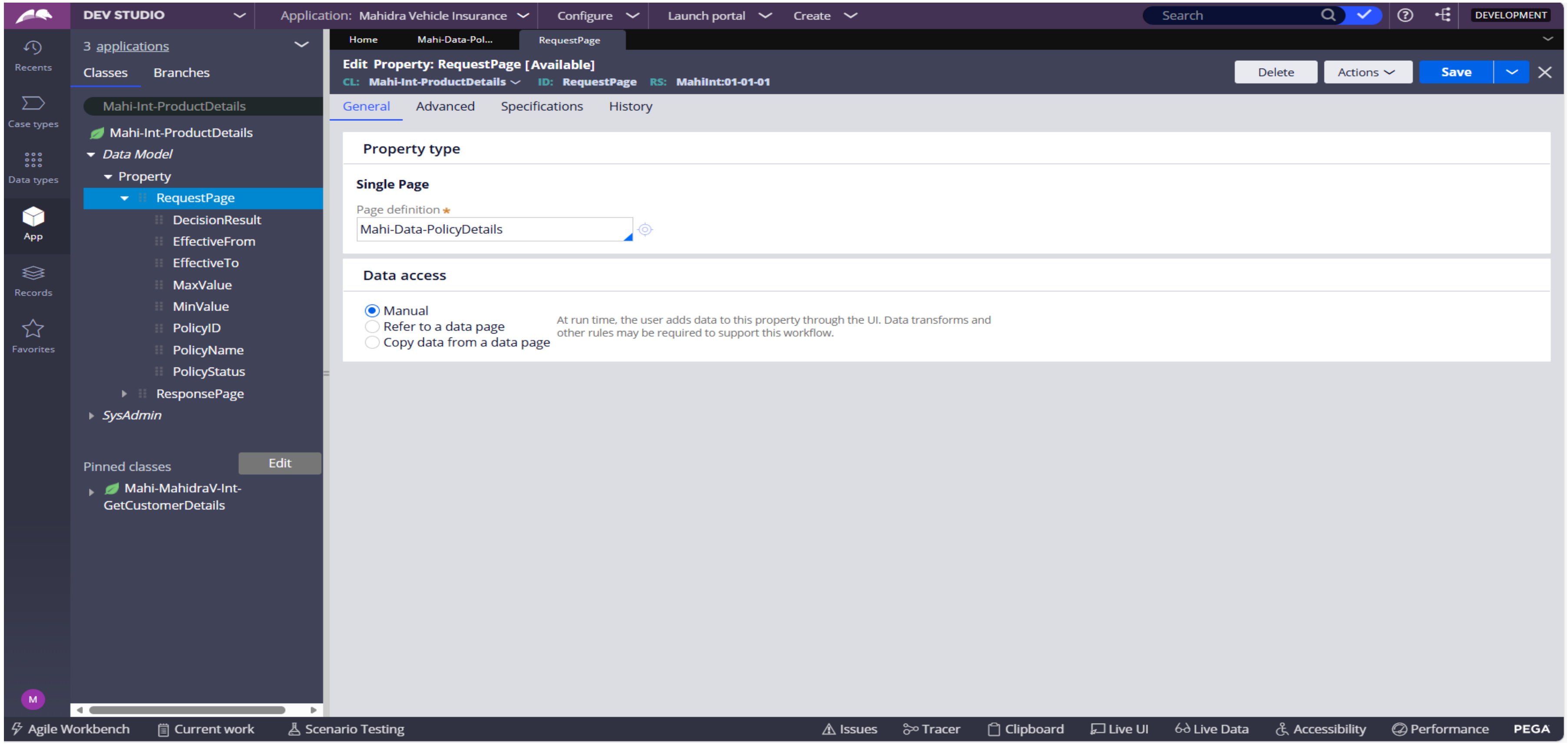
Local data storage

| Policy ID (requi... | EffectiveTo | EffectiveFrom | DecisionResult | MaxValue | MinValue | PolicyStatus | PolicyName |
|---|---|---|---|---|---|---|---|
| POL001 | 12/31/2025 | 1/1/2025 | Reject | 49 | 0 | Active | Loan Eligibility Policy |
| POL002 | 12/31/2025 | 1/1/2025 | Reject | 99 | 50 | Active | Loan Eligibility Policy |
| POL003 | 12/31/2025 | 1/1/2025 | Reject | 149 | 100 | Active | Loan Eligibility Policy |
| POL004 | 12/31/2025 | 1/1/2025 | Reject | 199 | 150 | Active | Loan Eligibility Policy |
| POL005 | 12/31/2025 | 1/1/2025 | Reject | 249 | 200 | Active | Loan Eligibility Policy |
| POL006 | 12/31/2025 | 1/1/2025 | Reject | 299 | 250 | Active | Loan Eligibility Policy |
| POL007 | 12/31/2025 | 1/1/2025 | Reject | 349 | 300 | Active | Loan Eligibility Policy |
| POL008 | 12/31/2025 | 1/1/2025 | Reject | 399 | 350 | Active | Loan Eligibility Policy |
| POL009 | 12/31/2025 | 1/1/2025 | Reject | 449 | 400 | Active | Loan Eligibility Policy |
| POL010 | 12/31/2025 | 1/1/2025 | Reject | 499 | 450 | Active | Loan Eligibility Policy |
| POL011 | 12/31/2025 | 1/1/2025 | Refer | 549 | 500 | Active | Loan Eligibility Policy |
| POL012 | 12/31/2025 | 1/1/2025 | Refer | 599 | 550 | Active | Loan Eligibility Policy |

This is the Policy Details we will be fetching on the basis of Policy Id. So when end user is requesting for the Policy details upon providing the Policy id then Pega should provide the records associated with That id.

Implementation:Create the page property for Request and Response as shown and refer to the Data class.

Note:This Request and Response Page should be created under the context of Integration class.



Edit Property: RequestPage [Available]

CL: Mahi-Int-ProductDetails ID: RequestPage RS: MahiInt:01-01-01

Property type

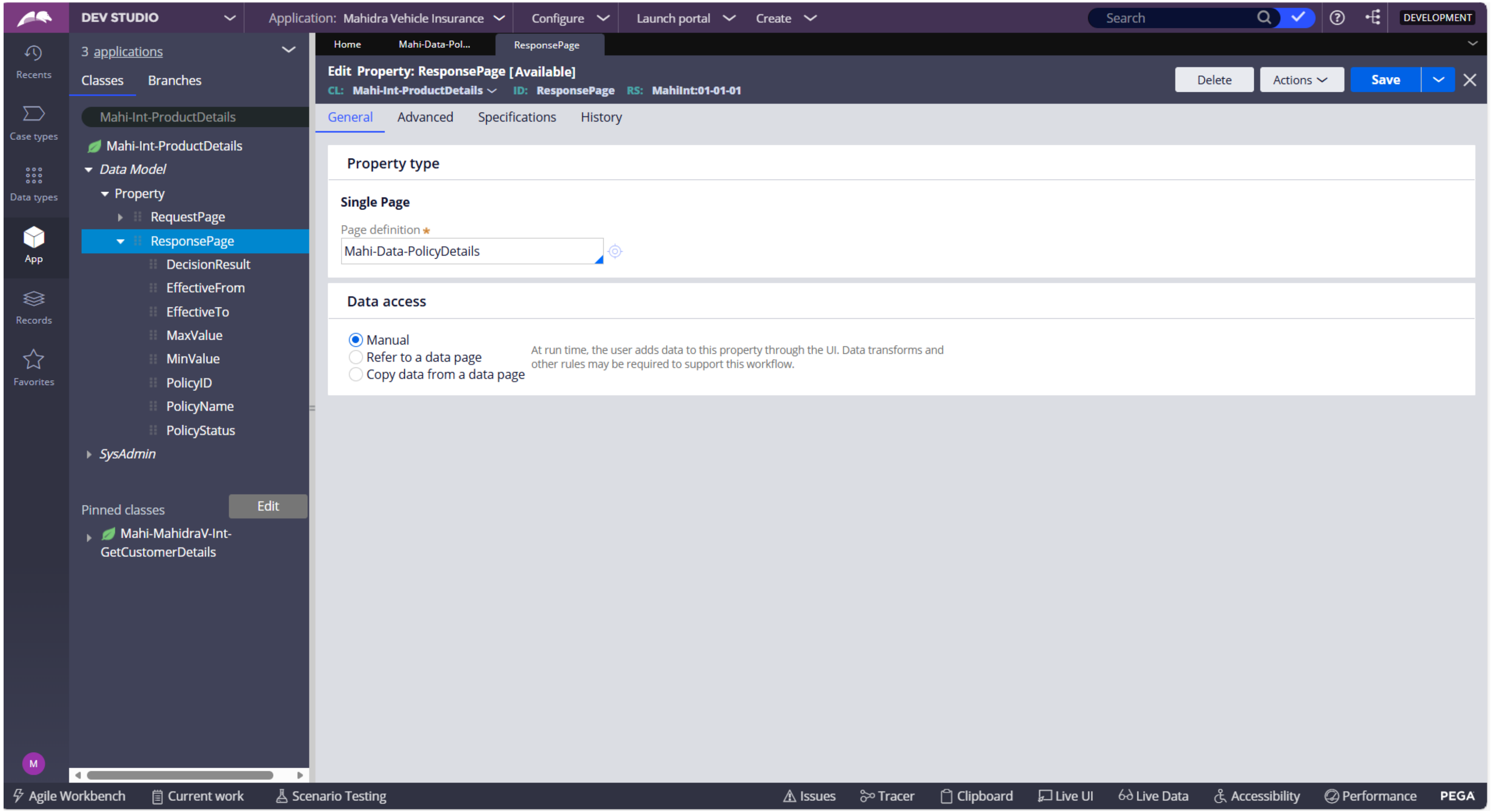
Single Page

Page definition *: Mahi-Data-PolicyDetails

Data access

● Manual
○ Refer to a data page
○ Copy data from a data page

At run time, the user adds data to this property through the UI. Data transforms and other rules may be required to support this workflow.



Edit Property: ResponsePage [Available]

CL: Mahi-Int-ProductDetails ID: ResponsePage RS: MahiInt:01-01-01

Property type

Single Page

Page definition *

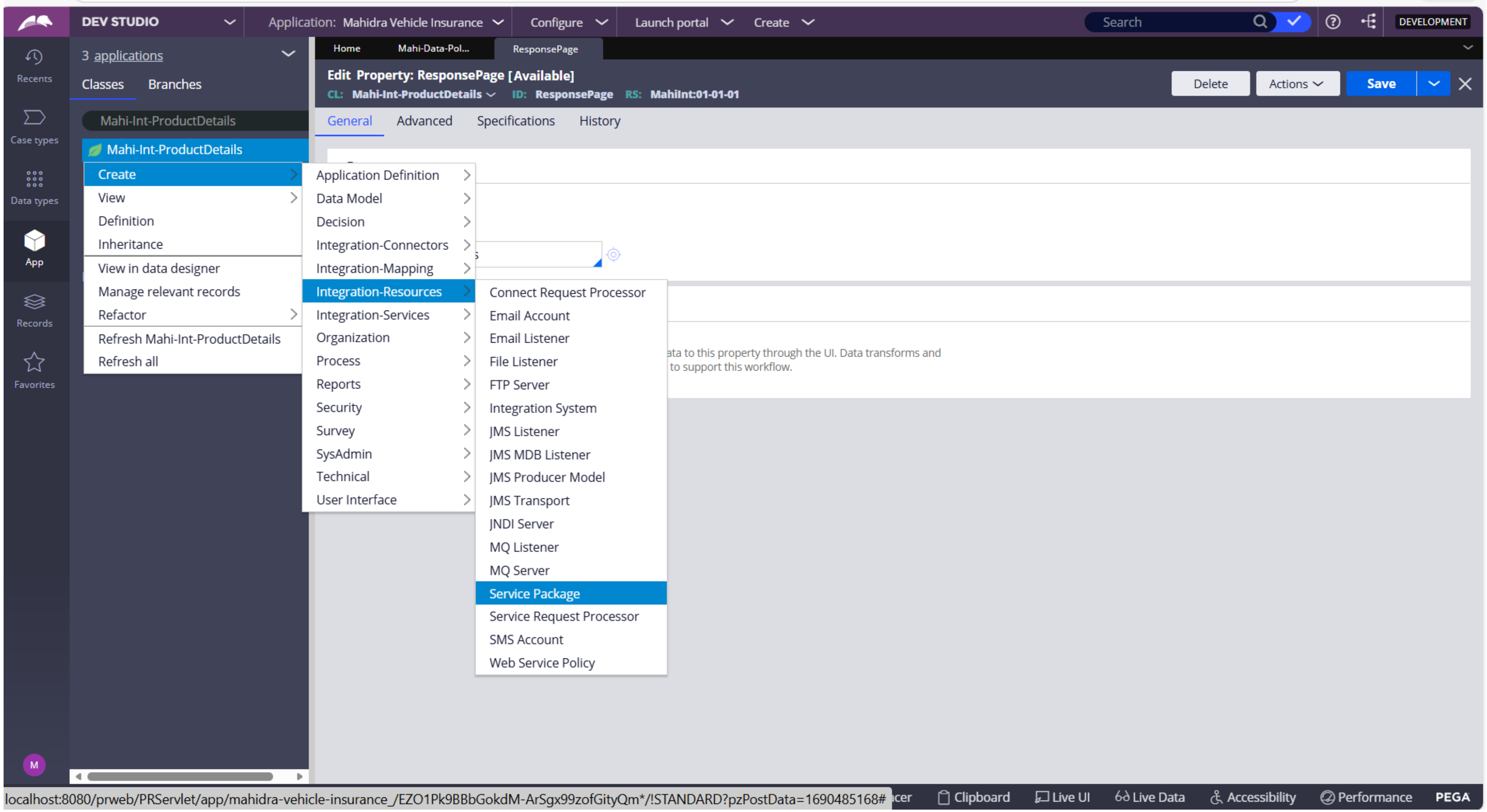
Mahi-Data-PolicyDetails

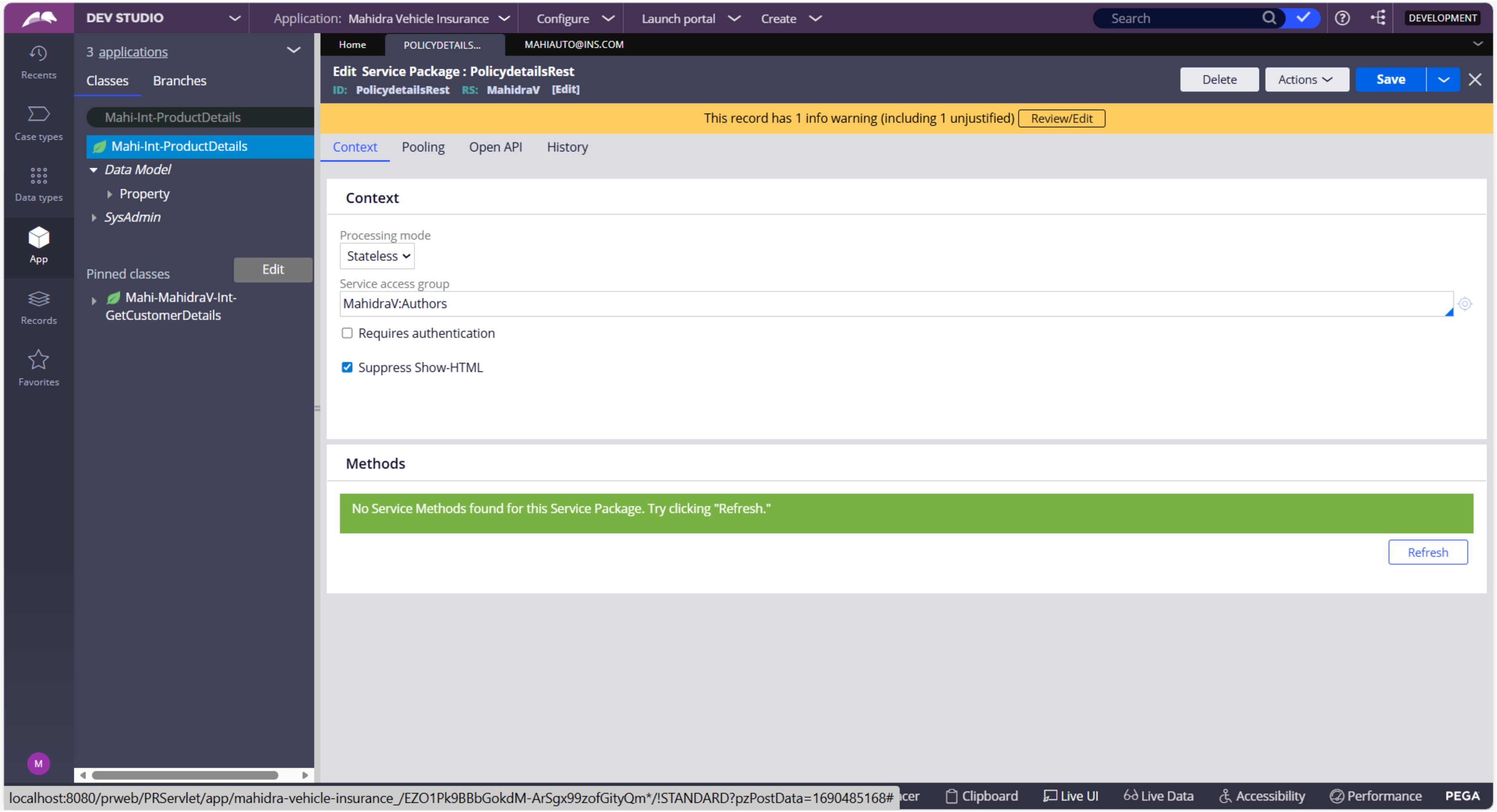
Data access

● Manual
○ Refer to a data page
○ Copy data from a data page

At run time, the user adds data to this property through the UI. Data transforms and other rules may be required to support this workflow.

Now Lets create the Service Package rule rule by following this navigation :





Edit Service Package : PolicydetailsRest

ID: PolicydetailsRest RS: MahidraV [Edit]

This record has 1 info warning (including 1 unjustified) Review/Edit

Context

Processing mode: Stateless

Service access group: MahidraV:Authors

☐ Requires authentication

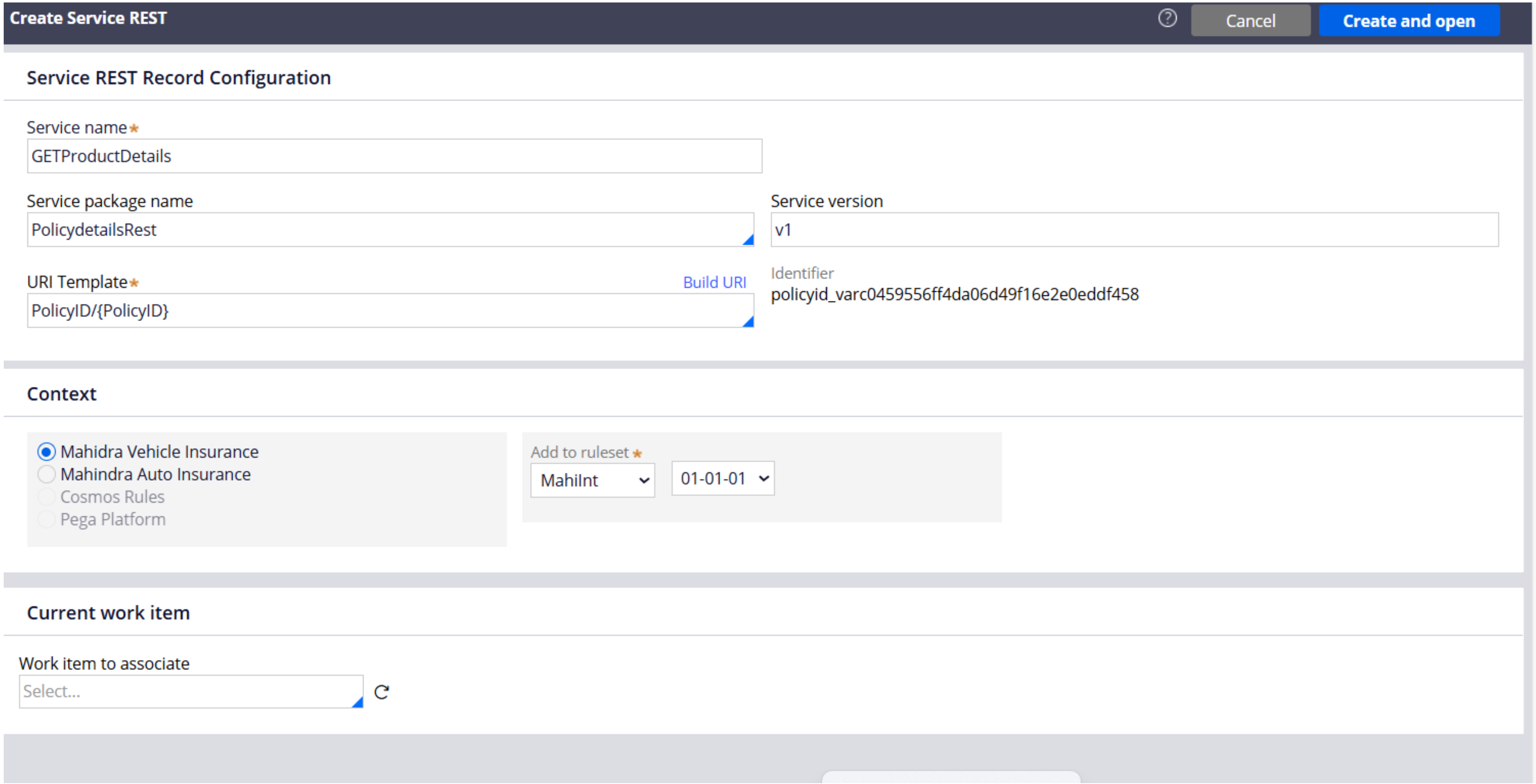
☑ Suppress Show-HTML

Methods

No Service Methods found for this Service Package. Try clicking "Refresh."

localhost:8080/prweb/PRServlet/app/mahidra-vehicle-insurance_/EZO1Pk9BBbGokdM-ArSgx99zofGityQm*/!STANDARD?pzPostData=1690485168#

Lets create the REST Service through wizard:



Service REST Record Configuration

Service name*
GETProductDetails

Service package name
PolicydetailsRest

Service version
v1

URI Template*
Build URI
PolicyID/{PolicyID}

Identifier
policyid_varc0459556ff4da06d49f16e2e0eddf458

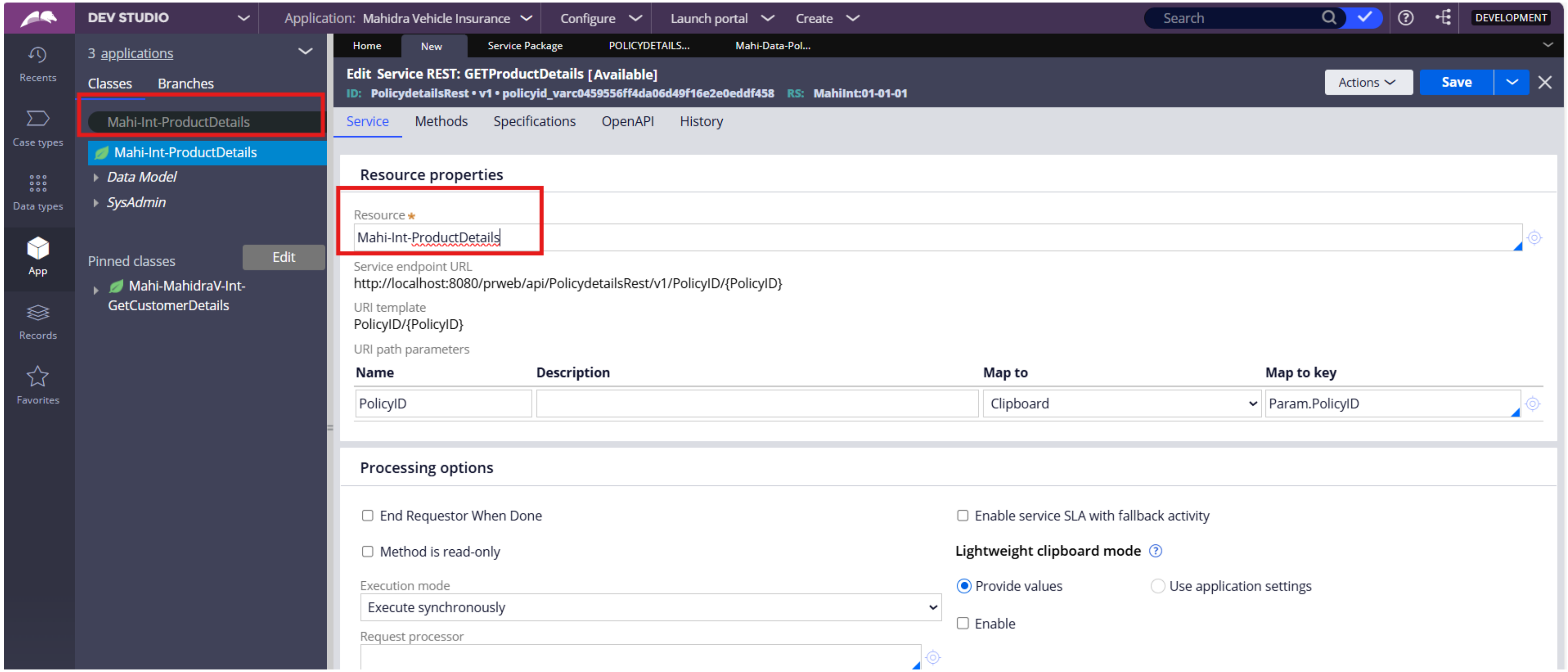
Context

● Mahidra Vehicle Insurance
○ Mahindra Auto Insurance
○ Cosmos Rules
○ Pega Platform

Add to ruleset*
MahiInt
01-01-01

Current work item

Work item to associate
Select...



**Edit Service REST: GETProductDetails [Available]**

ID: PolicydetailsRest • v1 • policyid_varc0459556ff4da06d49f16e2e0eddf458 RS: MahiInt:01-01-01

**Resource properties**

Resource *
Mahi-Int-ProductDetails

Service endpoint URL
http://localhost:8080/prweb/api/PolicydetailsRest/v1/PolicyID/{PolicyID}

URI template
PolicyID/{PolicyID}

URI path parameters

| Name | Description | Map to | Map to key |
|---|---|---|---|
| PolicyID | | Clipboard | Param.PolicyID |

**Processing options**

☐ End Requestor When Done

☐ Method is read-only

Execution mode
Execute synchronously

Request processor

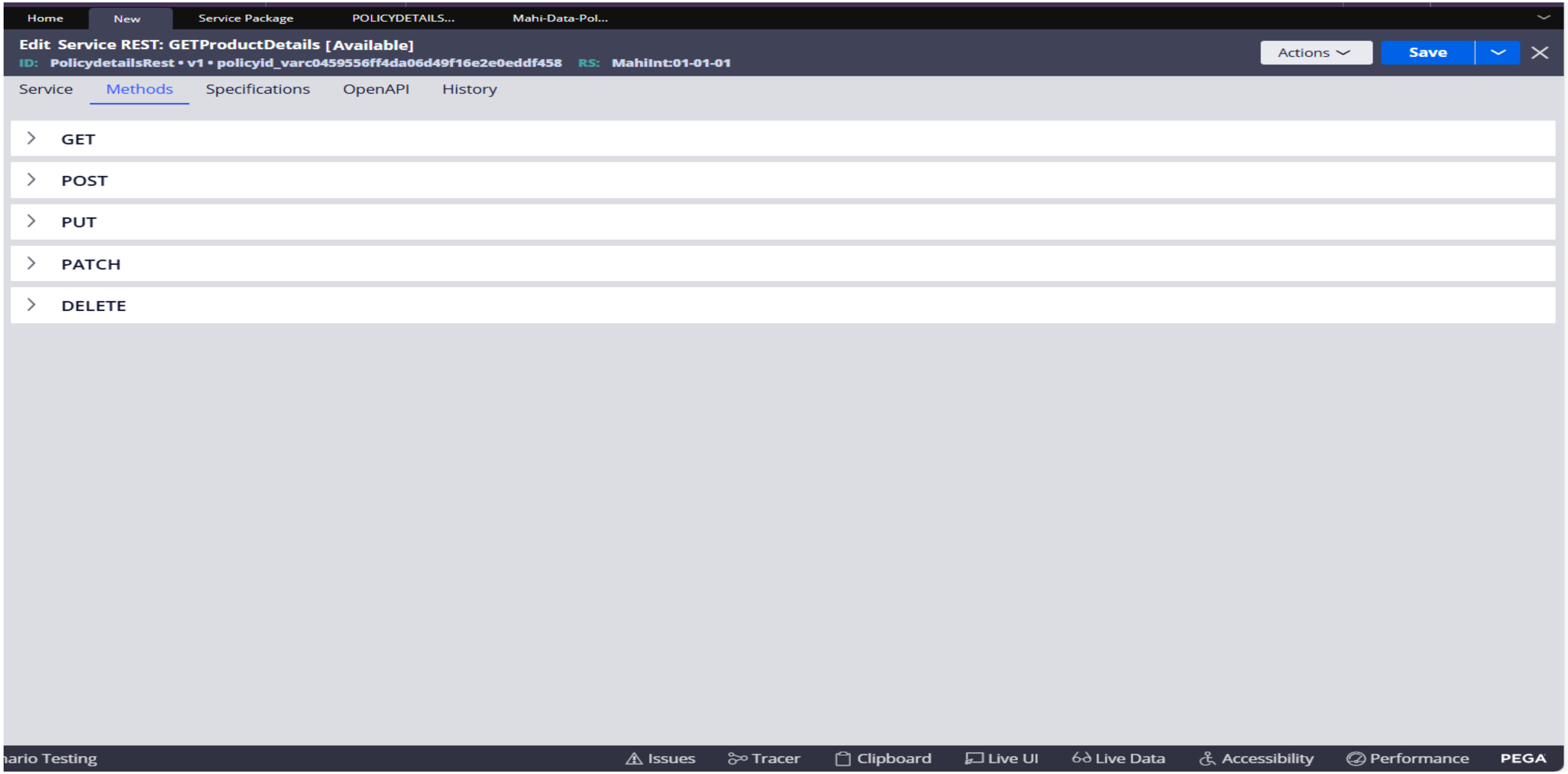
☐ Enable service SLA with fallback activity

**Lightweight clipboard mode**

● Provide values ○ Use application settings

☐ Enable

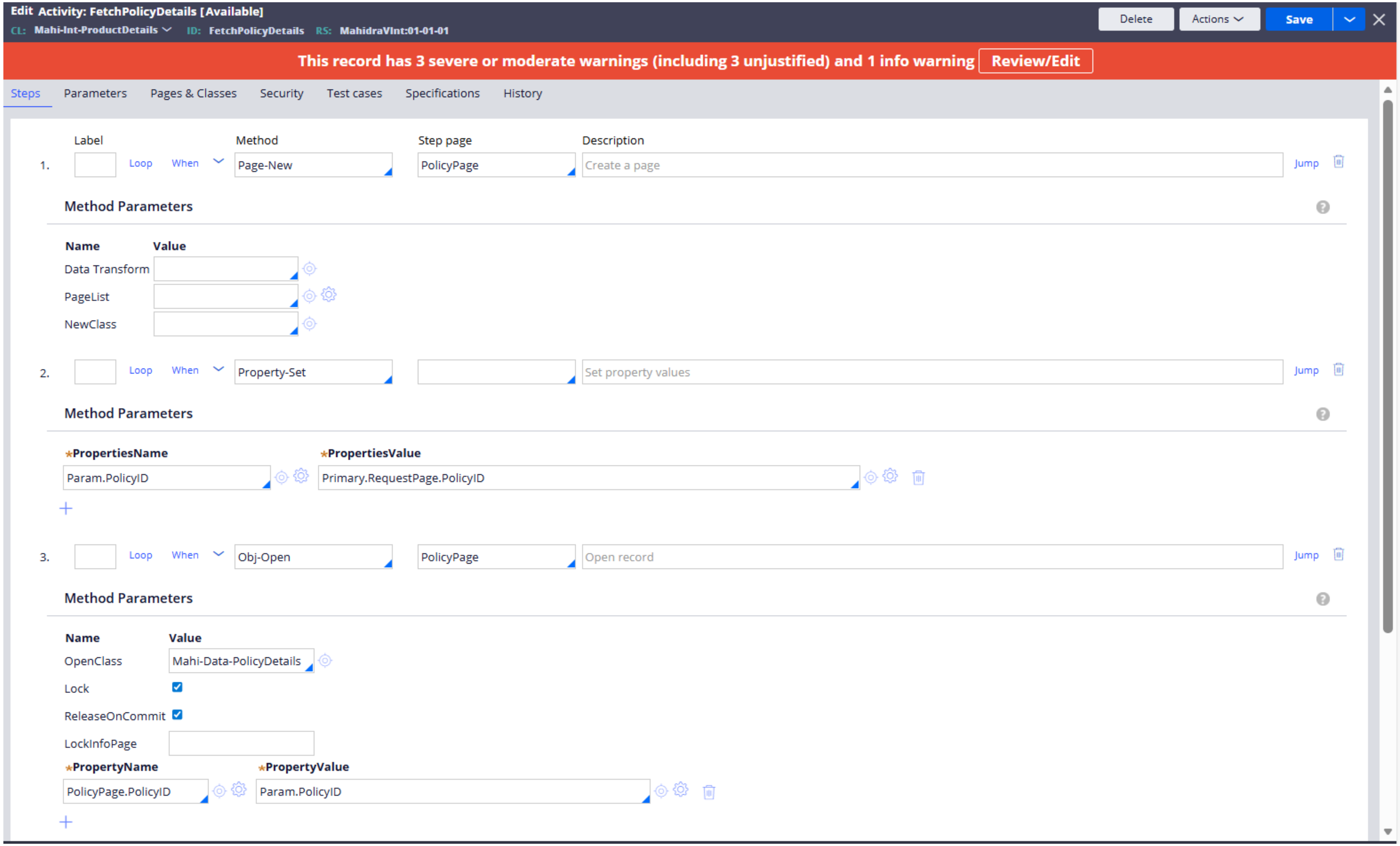
As of now we are only fetching the records so we will creating everything (Activity etc )under  this .



Edit Service REST: GETProductDetails [Available]

ID: PolicydetailsRest • v1 • policyid_varc0459556ff4da06d49f16e2e0eddf458 RS: MahiInt:01-01-01

Next : Lets Create  an activity



Edit Activity: FetchPolicyDetails [Available]

CL: Mahi-Int-ProductDetails ID: FetchPolicyDetails RS: MahidraVInt:01-01-01

This record has 3 severe or moderate warnings (including 3 unjustified) and 1 info warning

| | Label | | | Method | Step page | Description | |
|---|---|---|---|---|---|---|---|
| 1. | | Loop | When | Page-New | PolicyPage | Create a page | Jump |

Method Parameters

| Name | Value |
|---|---|
| Data Transform | |
| PageList | |
| NewClass | |

| | Label | | | Method | Step page | Description | |
|---|---|---|---|---|---|---|---|
| 2. | | Loop | When | Property-Set | | Set property values | Jump |

Method Parameters

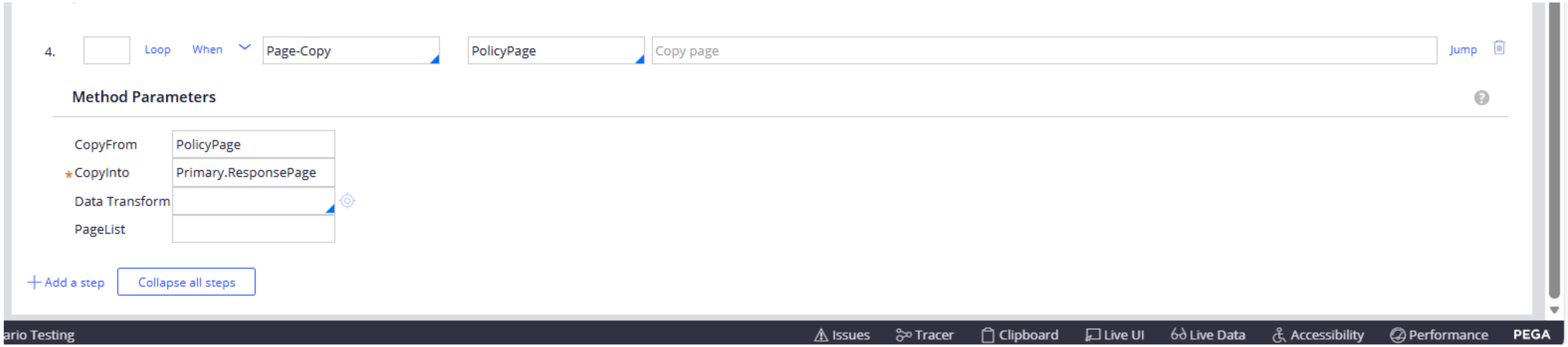
| *PropertiesName | *PropertiesValue |
|---|---|
| Param.PolicyID | Primary.RequestPage.PolicyID |

| | Label | | | Method | Step page | Description | |
|---|---|---|---|---|---|---|---|
| 3. | | Loop | When | Obj-Open | PolicyPage | Open record | Jump |

Method Parameters

| Name | Value |
|---|---|
| OpenClass | Mahi-Data-PolicyDetails |
| Lock | ☑ |
| ReleaseOnCommit | ☑ |
| LockInfoPage | |

| *PropertyName | *PropertyValue |
|---|---|
| PolicyPage.PolicyID | Param.PolicyID |



4. Loop When Page-Copy PolicyPage Copy page

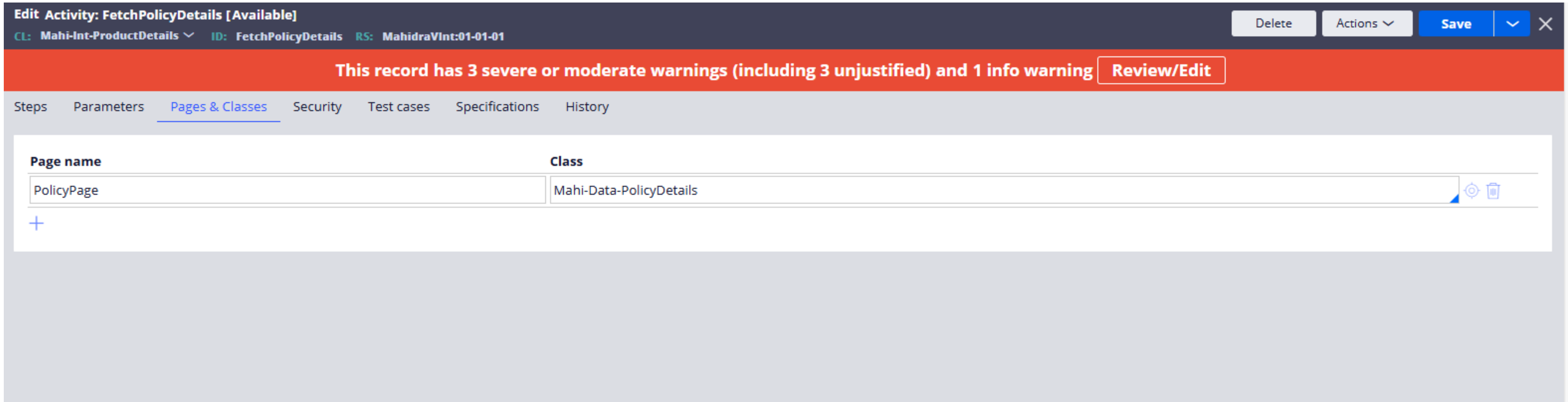
Method Parameters

CopyFrom: PolicyPage

*CopyInto: Primary.ResponsePage

Data Transform:

PageList:



Edit Activity: FetchPolicyDetails [Available]

CL: Mahi-Int-ProductDetails ID: FetchPolicyDetails RS: MahidraVInt:01-01-01

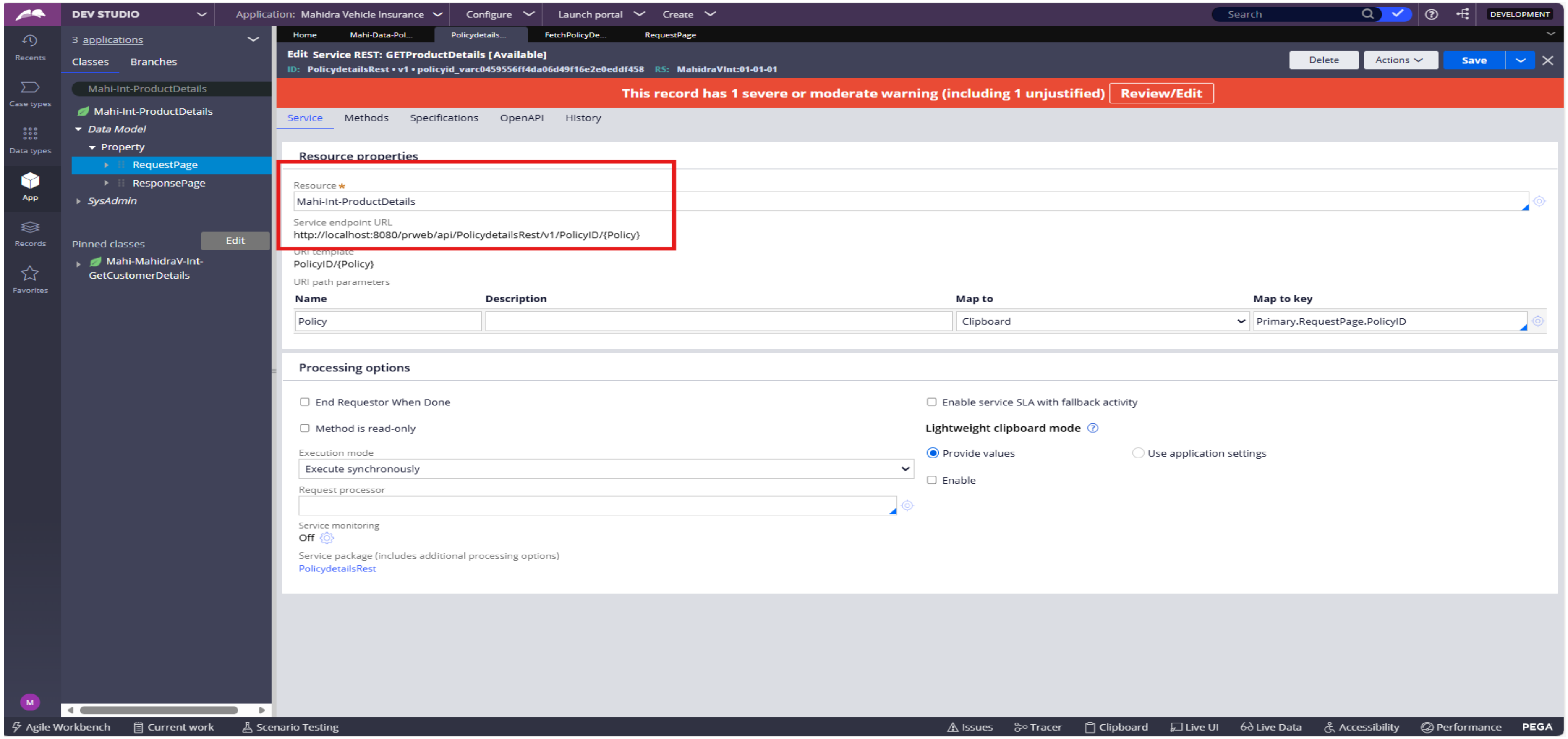
This record has 3 severe or moderate warnings (including 3 unjustified) and 1 info warning

| Page name | Class |
|---|---|
| PolicyPage | Mahi-Data-PolicyDetails |

Testing Part :

One should have postman tool to Test other than Pega platform environment.

Copy the Url from the Service package / Service : "http://localhost:8080/prweb/api/PolicydetailsRest/v1/PolicyID/{Policy}"



Edit Service REST: GETProductDetails [Available]

ID: PolicydetailsRest • v1 • policyid_varc0459556ff4da06d49f16e2e0eddf458 RS: MahidraVInt:01-01-01

This record has 1 severe or moderate warning (including 1 unjustified)

Resource properties

Resource *
Mahi-Int-ProductDetails

Service endpoint URL
http://localhost:8080/prweb/api/PolicydetailsRest/v1/PolicyID/{Policy}

URI template
PolicyID/{Policy}

URI path parameters

| Name | Description | Map to | Map to key |
|---|---|---|---|
| Policy | | Clipboard | Primary.RequestPage.PolicyID |

Processing options

☐ End Requestor When Done

☐ Method is read-only

Execution mode
Execute synchronously

Request processor

Service monitoring
Off

Service package (includes additional processing options)
PolicydetailsRest

☐ Enable service SLA with fallback activity

Lightweight clipboard mode

● Provide values ○ Use application settings

☐ Enable

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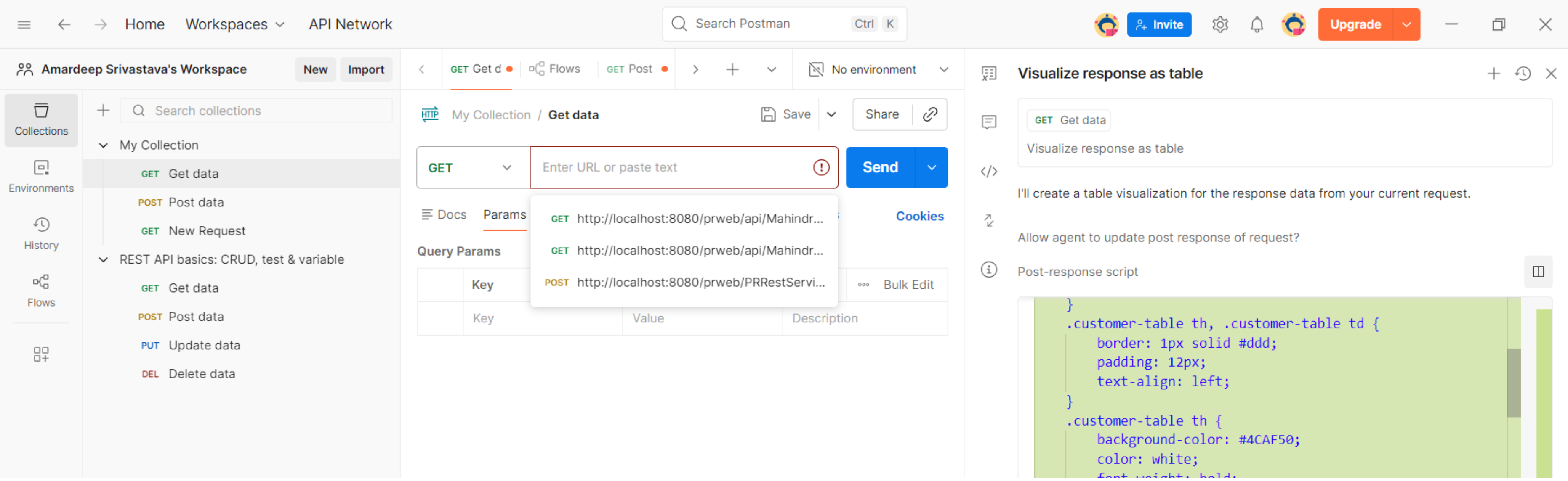
Open the PostMan Tool: Pass valid key :  http://localhost:8080/prweb/api/PolicydetailsRest/v1/PolicyID/{key }

http://localhost:8080/prweb/api/PolicydetailsRest/v1/PolicyID/{ POL010}



GET http://localhost:8080/prweb/api/Mahindr...

GET http://localhost:8080/prweb/api/Mahindr...

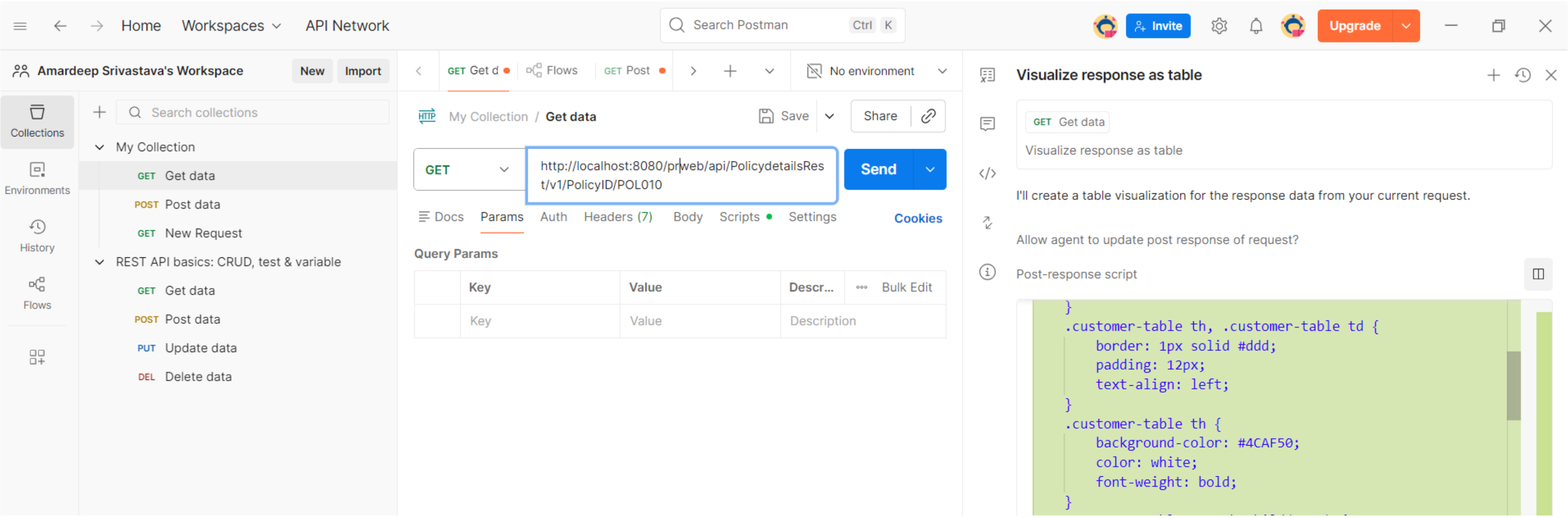
POST http://localhost:8080/prweb/PRRestServi...

Visualize response as table

I'll create a table visualization for the response data from your current request.

Allow agent to update post response of request?

```
    }
    .customer-table th, .customer-table td {
        border: 1px solid #ddd;
        padding: 12px;
        text-align: left;
    }
    .customer-table th {
        background-color: #4CAF50;
        color: white;
        font-weight: bold;
```



GET http://localhost:8080/prweb/api/PolicydetailsRest/v1/PolicyID/POL010

| Key | Value | Descr... |
|---|---|---|
| Key | Value | Description |

Visualize response as table

I'll create a table visualization for the response data from your current request.

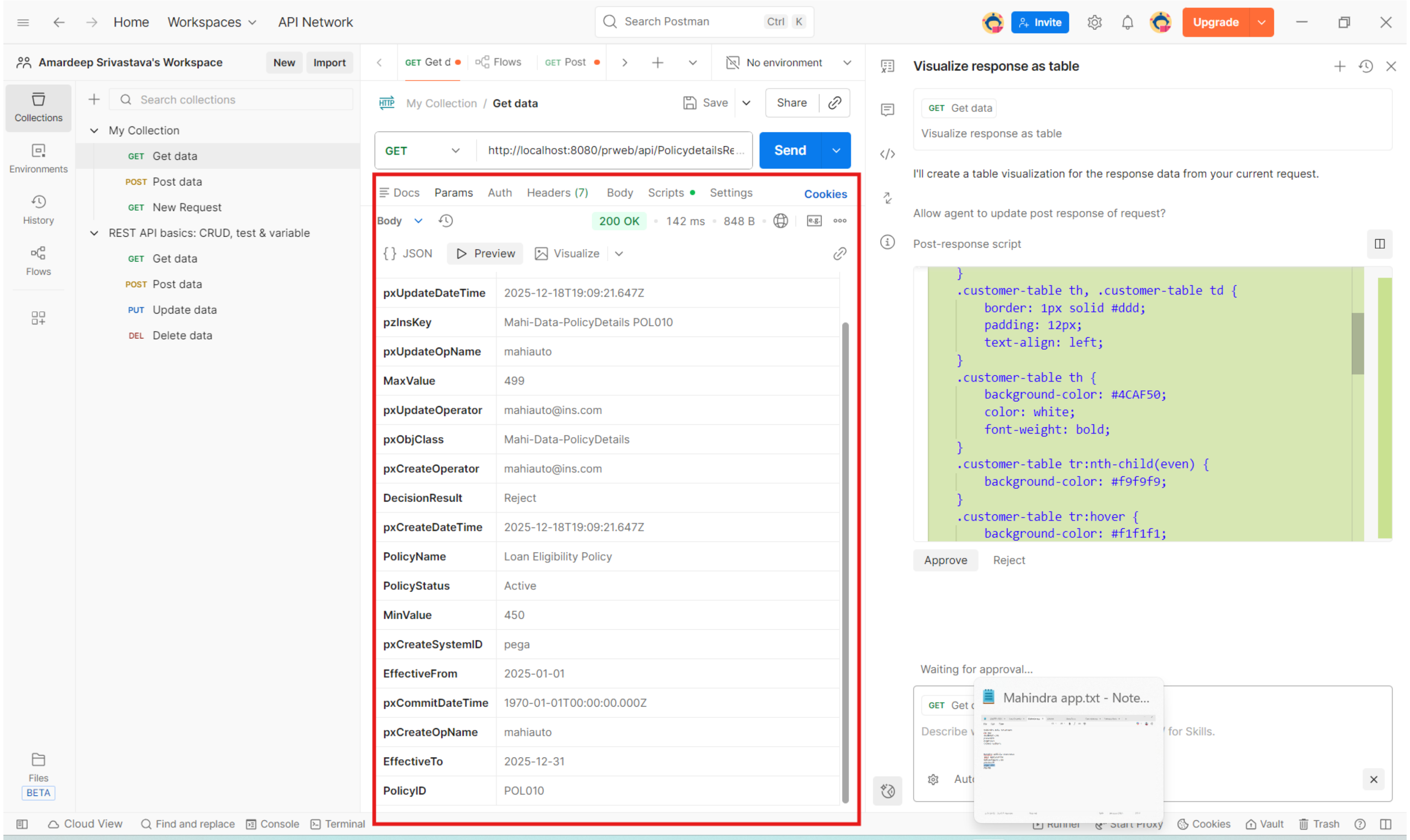
Allow agent to update post response of request?

Post-response script

```
}
.customer-table th, .customer-table td {
    border: 1px solid #ddd;
    padding: 12px;
    text-align: left;
}
.customer-table th {
    background-color: #4CAF50;
    color: white;
    font-weight: bold;
}
```

Hit send .

Bingo!!We Got the result.



| | |
|---|---|
| pxUpdateDateTime | 2025-12-18T19:09:21.647Z |
| pzInsKey | Mahi-Data-PolicyDetails POL010 |
| pxUpdateOpName | mahiauto |
| MaxValue | 499 |
| pxUpdateOperator | mahiauto@ins.com |
| pxObjClass | Mahi-Data-PolicyDetails |
| pxCreateOperator | mahiauto@ins.com |
| DecisionResult | Reject |
| pxCreateDateTime | 2025-12-18T19:09:21.647Z |
| PolicyName | Loan Eligibility Policy |
| PolicyStatus | Active |
| MinValue | 450 |
| pxCreateSystemID | pega |
| EffectiveFrom | 2025-01-01 |
| pxCommitDateTime | 1970-01-01T00:00:00.000Z |
| pxCreateOpName | mahiauto |
| EffectiveTo | 2025-12-31 |
| PolicyID | POL010 |

GET Get data

Visualize response as table

I'll create a table visualization for the response data from your current request.

Allow agent to update post response of request?

Post-response script

```
    }
    .customer-table th, .customer-table td {
        border: 1px solid #ddd;
        padding: 12px;
        text-align: left;
    }
    .customer-table th {
        background-color: #4CAF50;
        color: white;
        font-weight: bold;
    }
    .customer-table tr:nth-child(even) {
        background-color: #f9f9f9;
    }
    .customer-table tr:hover {
        background-color: #f1f1f1;
```

Approve    Reject

Waiting for approval...

GET Get d

Describe v [illegible] for Skills.

Auto

Json:

```
{
    "pxUpdateSystemID": "pega",
    "pxSaveDateTime": "1970-01-01T00:00:00.000Z",
    "pxUpdateDateTime": "2025-12-18T19:09:21.647Z",
    "pzInsKey": "Mahi-Data-PolicyDetails POL010",
    "pxUpdateOpName": "mahiauto",
    "MaxValue": 499,
    "pxUpdateOperator": "mahiauto@ins.com",
    "pxObjClass": "Mahi-Data-PolicyDetails",
    "pxCreateOperator": "mahiauto@ins.com",
    "DecisionResult": "Reject",
    "pxCreateDateTime": "2025-12-18T19:09:21.647Z",
    "PolicyName": "Loan Eligibility Policy",
    "PolicyStatus": "Active",
    "MinValue": 450,
    "pxCreateSystemID": "pega",
    "EffectiveFrom": "2025-01-01",
    "pxCommitDateTime": "1970-01-01T00:00:00.000Z",

    "pxCreateOpName": "mahiauto",

    "EffectiveTo": "2025-12-31",

    "PolicyID": "POL010"

}
```

.

**Hope  you all like this article it takes lot of effort to create these type of documents please share and follow me and give like and tell your thoughts in comment please.**

PEGA REST SERVICE
PEGA
BUSTED!!
REST
An Article By Amardeep Srivastava