

Service SOAP In Pega

An Article By Amardeep



Hello All ,In todays Article We are going to see how we can create SOAP Service In Pega
So lets Get Started!!

Let's Explore this document With step by step approach by end of this article one
should be able to create SOAP Service In Pega By their Own.

What are we going to achieve?

- ⇒ There is one table with key as Policy ID. When user gives request to PEGA and provide the Policy Id ,system will respond all the details such as Policy Name status etc.
- ⇒ Here is the snapshot of Table created.

Data Type: PolicyDetails

CL Mahi-Data-PolicyDetails RS Mahi

Actions Save

Data model Usage Sources **Records** Views Test cases Settings

Source

Local data storage Actions

Export Import

Search...

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
POL013	12/31/2025	1/1/2025	Refer	649	600	Active	Loan Eligibility Policy
POL014	12/31/2025	1/1/2025	Refer	699	650	Active	Loan Eligibility Policy
POL015	12/31/2025	1/1/2025	Approve	749	700	Active	Loan Eligibility Policy

Lets Get in into the picture .

Create a Class which is inheriting from Div-Int Class.(Open question for the one who is following document Try to find Why we are following this structure and when you have answer draft the answer in comment box)

Step I. Create a class as is :

Edit Class: Mahi-MahidraV-Int-Getpolicydetails

ID: Mahi-MahidraV-Int-Getpolicydetails RS: MahidraV-Int

Delete Actions Save

General External Mapping Advanced History

Select class type: Abstract

Settings

Created in version: 01-01-01

Class inheritance

☒ Find by name first (Pattern)

Parent class (Directed): Mahi-MahidraV-Int

Step II.Create one Request Page and Response Page as a single page type which will refer to Data Class.(Open Question: Why ? Please answer in comment box)

Edit Property: PolicyRequestPage [Available]
CL: Mahi-MahidraV-Int-Getpolicydetails ID: PolicyRequestPage RS: MahidraVInt:01-01-01
Delete Actions Save

General Advanced Specifications History

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: PolicyResponsePage [Available]
CL: Mahi-MahidraV-Int-Getpolicydetails ID: PolicyResponsePage RS: MahidraVInt:01-01-01
Delete Actions Save

General Advanced Specifications History

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.

Structure :

DEV STUDIO
Application: Mahidra Vehicle Insurance
Configure Launch portal Create
Search
DEVELOPMENT

3 applications
Classes Branches

Mahi-MahidraV-Int-Getpolicydetails
Mahi-MahidraV-Int-Getpolicydetails
Data Model
Property
PolicyRequestPage
DecisionResult
EffectiveFrom
EffectiveTo
MaxValue
MinValue
PolicyID
PolicyName
PolicyStatus
PolicyResponsePage
DecisionResult
EffectiveFrom
EffectiveTo
MaxValue
MinValue
PolicyID
PolicyName
PolicyStatus
SysAdmin
Edit

Home
A new version is available for update. View Details for version 8.7.6
Hide this until the next release
Read more on Pega Community

Guardrail warnings (last 7 days)

View all warnings Refresh

	Severe	Moderate	Informational
Introduced by you	3	5	3
Introduced by team	3	5	3

Security status

Refresh

0 out of 39

security tasks completed

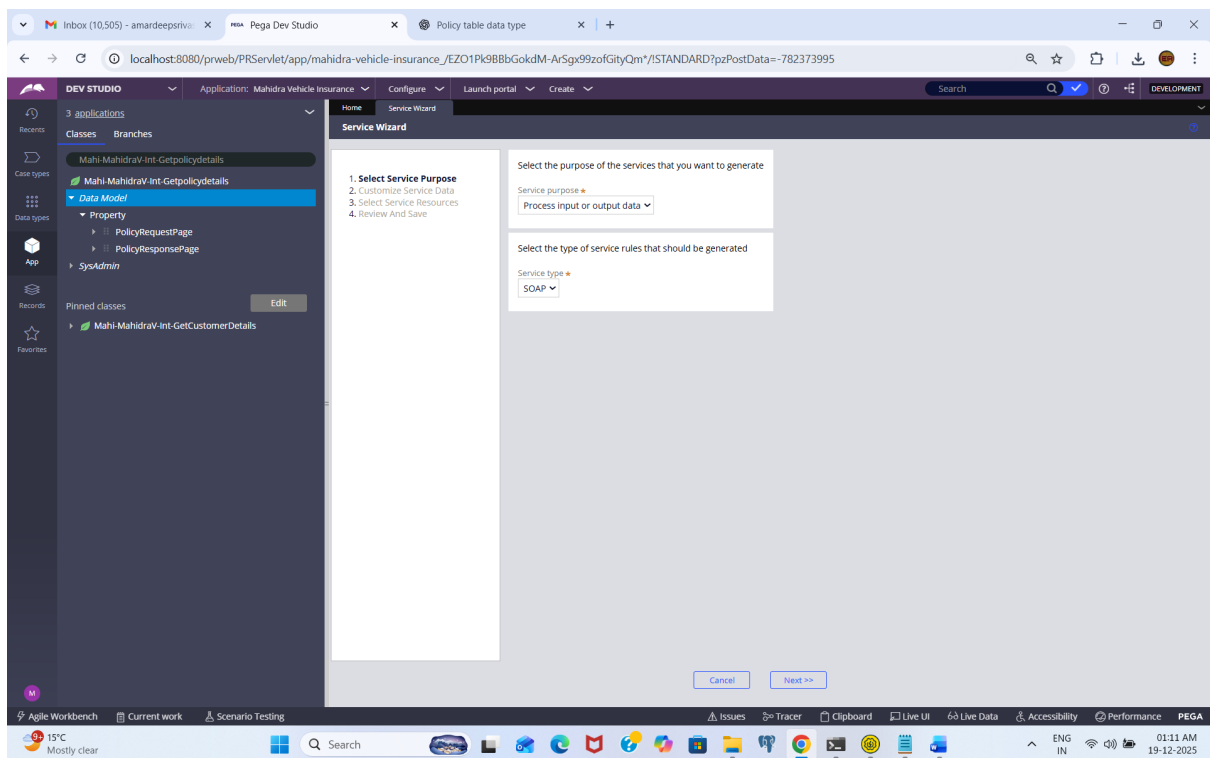
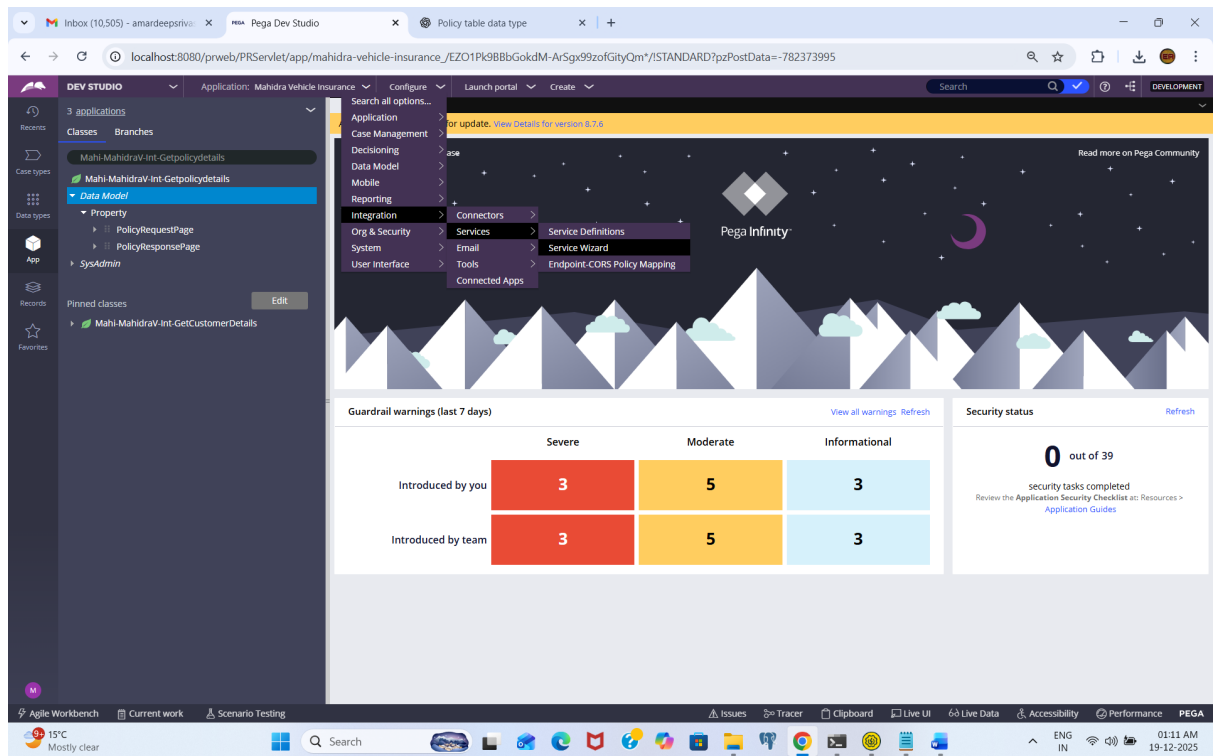
Review the Application Security Checklist at: Resources > Application Guides

Step III. Follow navigation to create service package.(Open Question: What is service package ?Why we need service pckage?Pls answer in comment box)

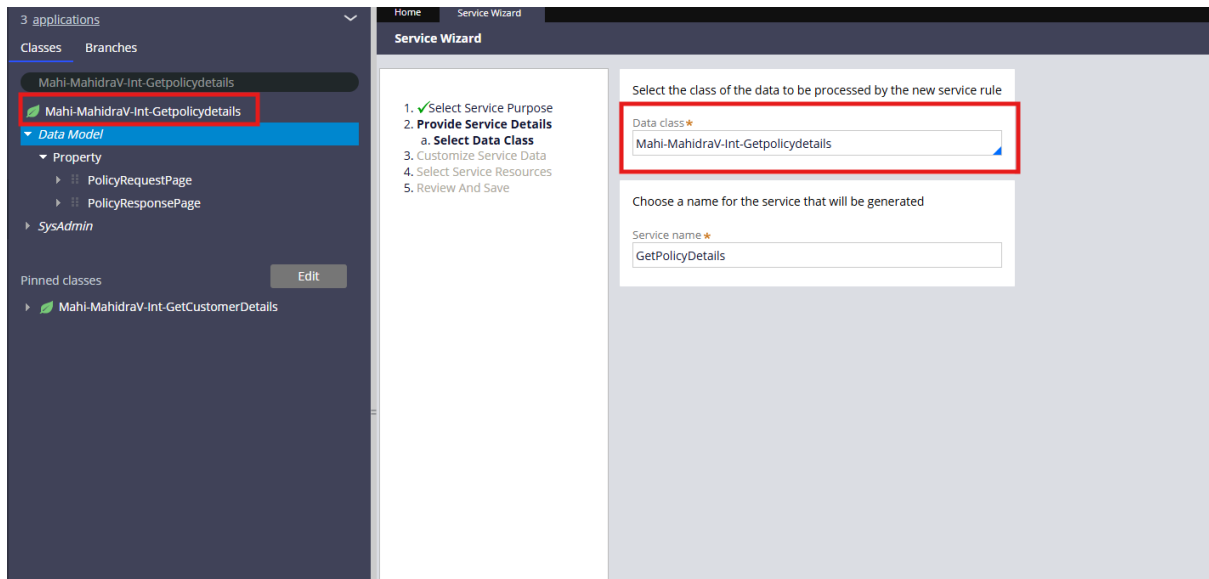
The top screenshot shows the Pega Dev Studio interface. The left sidebar displays the project structure with 'Mahi-MahidraV-Int-Getpolicydetails' selected. The 'Create' menu is open, and 'Integration-Resources' is highlighted. The main workspace shows the 'Pega Infinity' dashboard with a security status summary.

The bottom screenshot shows the 'Edit Service Package' dialog for 'GetPolicyDetailsSP'. The 'Context' tab is active, showing the 'Processing mode' set to 'Stateless' and 'Service access group' set to 'MahidraV-Authors'. The 'Methods' section indicates that no service methods were found for this service package.

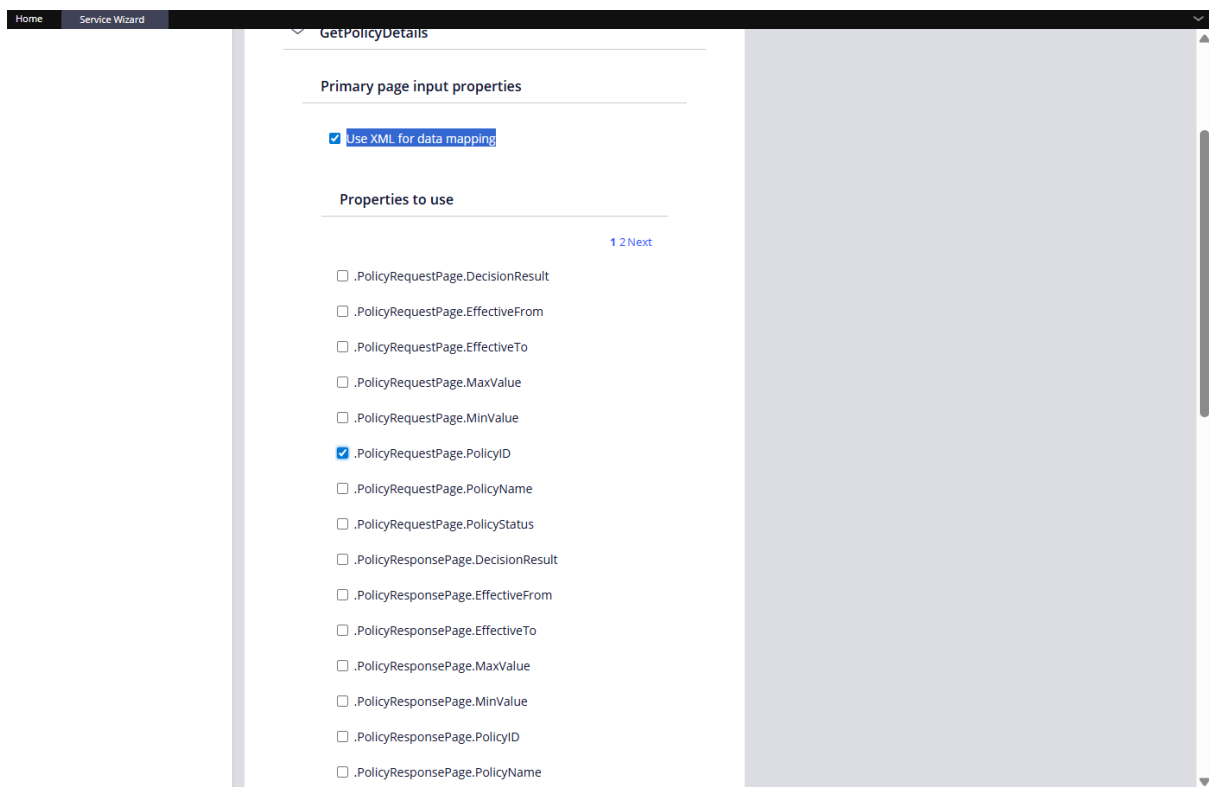
Step IV.Lets use Wizard to create SOAP Services.



Give class name which we created earlier and suitable name of service.



Step V : Select Use XML for data mapping and select input property.



Step VI: Select Use XML for data mapping and select output property.

Home Service Wizard

Primary page output properties

☒ Use XML for data mapping

Properties to use

1 2 Next

- ☐ .PolicyRequestPage.DecisionResult
- ☐ .PolicyRequestPage.EffectiveFrom
- ☐ .PolicyRequestPage.EffectiveTo
- ☐ .PolicyRequestPage.MaxValue
- ☐ .PolicyRequestPage.MinValue
- ☐ .PolicyRequestPage.PolicyID
- ☐ .PolicyRequestPage.PolicyName
- ☐ .PolicyRequestPage.PolicyStatus
- ☒ .PolicyResponsePage.DecisionResult
- ☒ .PolicyResponsePage.EffectiveFrom
- ☒ .PolicyResponsePage.EffectiveTo
- ☒ .PolicyResponsePage.MaxValue
- ☒ .PolicyResponsePage.MinValue
- ☒ .PolicyResponsePage.PolicyID
- ☒ .PolicyResponsePage.PolicyName

Select All Deselect All

Cancel << Back Next >>

Service Wizard

1. ✓ Select Service Purpose
2. ✓ Provide Service Details
 - a. ✓ Select Data Class
3. ✓ Customize Service Data
4. **Select Service Resources**
5. Review And Save

Select a ruleset name and version for all generated rules

Ruleset name ★
MahindraVint

Ruleset version ★
01-01-01

Select the preferred option for configuring the service package

Service package options
Use an existing service package

Existing service packages
GetPolicyDetailsSP

Cancel << Back Next >>

Select appropriate Division Integration ruleset and service package.

Step VI. Review everything and finish.

Service Wizard

- ✓ Select Service Purpose
- ✓ Provide Service Details
 - ✓ Select Data Class
- ✓ Customize Service Data
- ✓ Select Service Resources
- Review And Save**

New Service rules

GetPolicyDetails

Service type

Rule-Service-SOAP

Service package

GetPolicyDetailsSP

Service class

Services

Service method

GetPolicyDetails

RuleSet name

MahidraVInt

RuleSet version

01-01-01

Primary page class

Mahi-MahidraV-Int-Getpolicydetails

Service activity

GetPolicyDetails

Request parameters

Data type Name	Description	Map to	Map to key
Literal	GetPolicyDetailsRequest inbound XML data	XML ParseRule pyDefault	GetPolicyDetailsRequest

Response parameters

Data type	Name	Description	Map from	Map from key
Literal	GetPolicyDetailsResponse	outbound XML data	XML Stream	GetPolicyDetailsResponse

Service Wizard

The service configuration process is now complete.

Click the **Done** button to exit the accelerator.

Generated service rules

Type	Package	Class	Method	RuleSet	Version	Open
Rule-Service-SOAP	GetPolicyDetailsSP	Services	GetPolicyDetails	MahidraVInt	01-01-01	

Generated activity rules

Applies to	Activity name	Ruleset	Version	Open
Mahi-MahidraV-Int-Getpolicydetails	GetPolicyDetails	MahidraVInt	01-01-01	

Generated XML parse rules

Applies to	Namespace	Element name	Ruleset	Version	Open
Mahi-MahidraV-Int-Getpolicydetails	pyDefault	GetPolicyDetailsRequest	MahidraVInt	01-01-01	

Generated XML stream rules

Applies to	Stream name	XML type	Ruleset	Version	Open
Mahi-MahidraV-Int-Getpolicydetails	GetPolicyDetailsResponse	MapFrom	MahidraVInt	01-01-01	

WSDL URL

<http://localhost:8080/prweb/PRSOAPServlet/SOAP/GetPolicyDetailsSP/Services?WSDL>

Done

What is WSDL ?

➔ **WSDL (Web Services Description Language)** in Pega is an **XML-based contract** used in **SOAP integrations**.

It defines **available operations, request and response structure, data types**, and the **service endpoint**.

When Pega exposes a SOAP service, it **automatically generates a WSDL** for consumers.

When Pega consumes an external SOAP service, it **imports the WSDL** to create SOAP connectors.

WSDL ensures both Pega and external systems **follow the same structure and rules** during communication.

We can see the Parse XML and stream rules also created.

⇒ **Parse XML** and **XML Stream** in Pega are used to **handle XML data during integrations**.

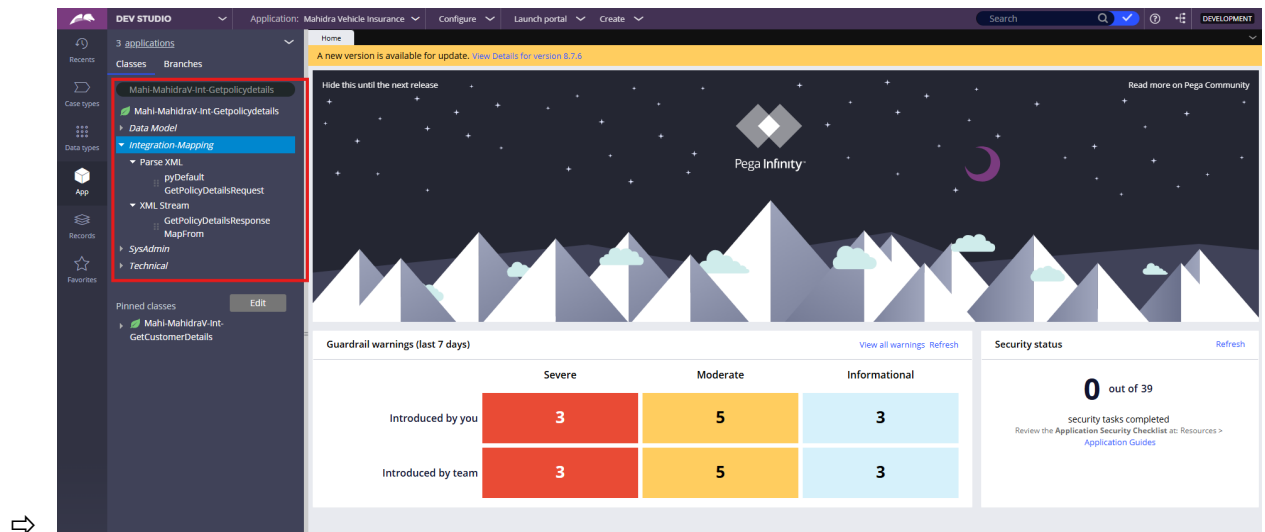
Parse XML converts an incoming XML (SOAP request/response) into **clipboard properties** based on the XML structure.

It is commonly used after **SOAP connectors or services** to read XML data.

XML Stream is used to **generate XML output** from clipboard data.

It defines how properties are mapped into XML tags.

Together, Parse XML reads XML into Pega, and XML Stream sends XML out from Pega.



Step VII. Configure the Service SOAP. Configure Activity.

Edit Service SOAP: GetPolicyDetails (generated) [Available]
ID: GetPolicyDetailsSP • Services • GetPolicyDetails RS: MahidraVint:01-01-01

DeleteActionsSave

ServiceRequestResponseFaultsXML PageAdvancedSpecificationsHistory

Primary page

Primary page class★
Mahi-MahidraV-Int-Getpolicydetails

Data transform

Page name
PolicyDetailsPage

Service activity

Activity name
GetPolicyDetails

No parameters to set.

Refresh parameters

Style and use

Document/ literal

Processing options

☒ Enable MTOM☐ Enable service SLA with fallback activity

☐ End requestor when done

☐ Method is read-only

Execution mode
Execute synchronously

Request processor

Configured the activity :

Edit Activity: GetPolicyDetails (generated) [Available]
CL: Mahi-MahidraV-Int-Getpolicydetails ID: GetPolicyDetails RS: MahidraVint:01-01-01

DeleteActionsSave

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

StepsParametersPages & ClassesSecurityTest casesSpecificationsHistory

Page nameClass

PolicyRecordPageMahi-Data-PolicyDetails

+

Edit Activity: GetPolicyDetails (generated) [Available]
 CL: Mahi-MahdraV-Int-Getpolicydetails ID: GetPolicyDetails RS: MahdraVInt:01-01-01

Delete Actions Save

This record has 3 severe or moderate warnings (including 3 unjustified) and 1 info warning [Review/Edit](#)

Steps Parameters Pages & Classes Security Test cases Specifications History

Parameters

Name	Description	Data type	Required	In/Out	Default value	Smartprompt type	Validate as
1 PolicyID		String	No	In			

+

Local variables

Name	Description	Data type
1		String

+

Local action for parameter display

Edit Activity: GetPolicyDetails (generated) [Available]
 CL: Mahi-MahdraV-Int-Getpolicydetails ID: GetPolicyDetails RS: MahdraVInt:01-01-01

Delete Actions Save

This record has 3 severe or moderate warnings (including 3 unjustified) and 1 info warning [Review/Edit](#)

Steps Parameters Pages & Classes Security Test cases Specifications History

Pages & Classes

Label	Method	Step page	Description
1. Loop When Page-New	PolicyRecordPage	Create a page	

Method Parameters

Name	Value
Data Transform	
PageList	
NewClass	

Pages & Classes

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

Method Parameters

Property Name	Property Value
Param:PolicyID	Primary:PolicyRequestPage:PolicyID

Pages & Classes

Label	Method	Step page	Description
3. Loop When Obj-Open	PolicyRecordPage	Open record	

Method Parameters

Name	Value
OpenClass	Main:Data-PolicyDetails
Lock	
ReleaseOnCommit	
LockInfoPage	
Property Name	Property Value
PolicyID	Param:PolicyID

Pages & Classes

Label	Method	Step page	Description
4. Loop When Page-Copy		Copy page	

Method Parameters

Copy From	Copy To
PolicyRecordPage	Primary:PolicyRequestPage
Data Transform	
PageList	

+ Add a step Collapse all steps

Testing Time :We will use SOAP UI for Testing.

Copy the WSDL from the service package.

Edit Service Package : GetPolicyDetailsSP
ID: GetPolicyDetailsSP RS: MahidraV [Edit]

DeleteActionsSave

This record has 1 info warning (including 1 unjustified)ReviewEdit

ContextPoolingOpen APIHistory

Context

Processing mode
Stateless

Service access group
MahidraV:Authors

☐ Requires authentication

☒ Suppress Show-HTML

Methods

Service type
Rule-Service-SOAP

Refresh

Class name	Method name	Ruleset
Services	GetPolicyDetails	MahidraV:nc01-01-01

Deployment

Deployment type
WSDL

Service class
Services

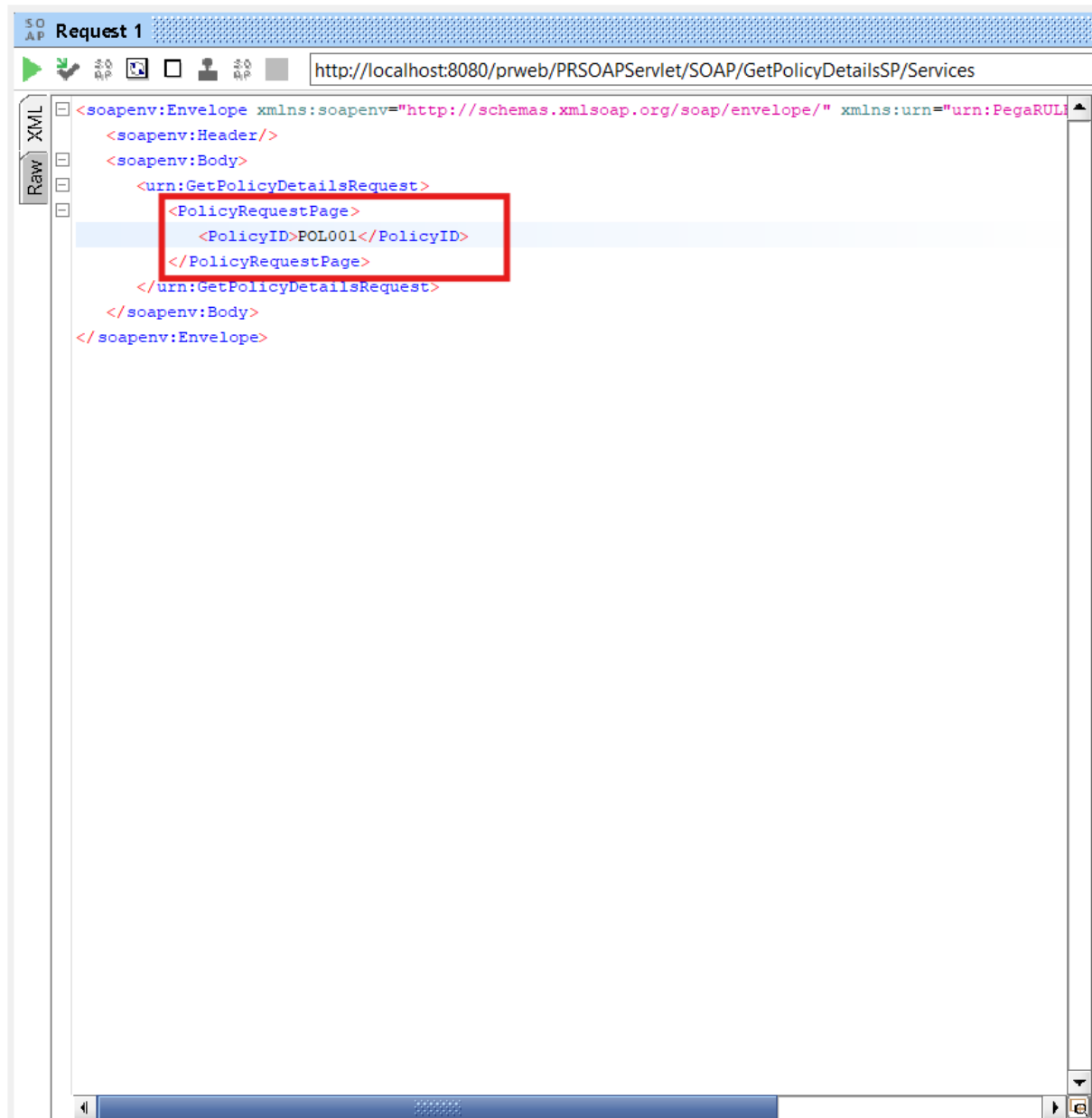
☐ Specify custom target namespace

Deployment results

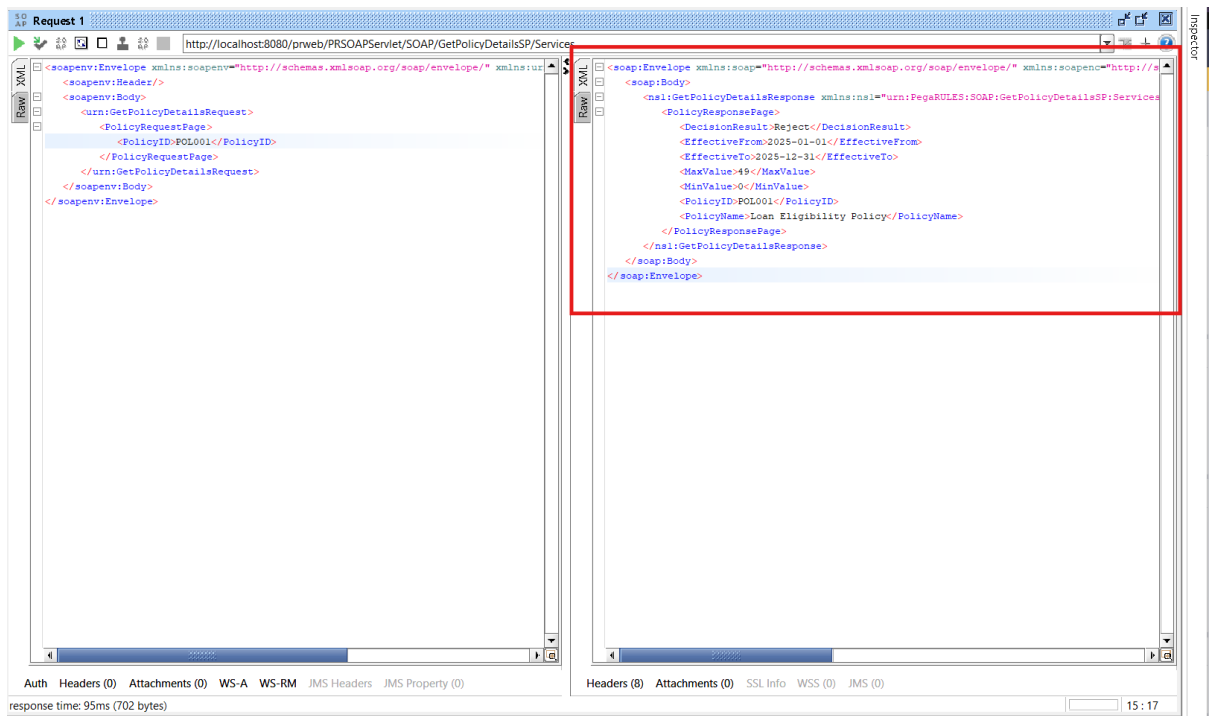
<http://localhost:8080/private/PRSOAPServlet/SOAP/GetPolicyDetailsSP/Services?WSDL>

SOAP UI configuration :

Mention details as is:



We Got the response as :



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.



Happy Learning !!

