

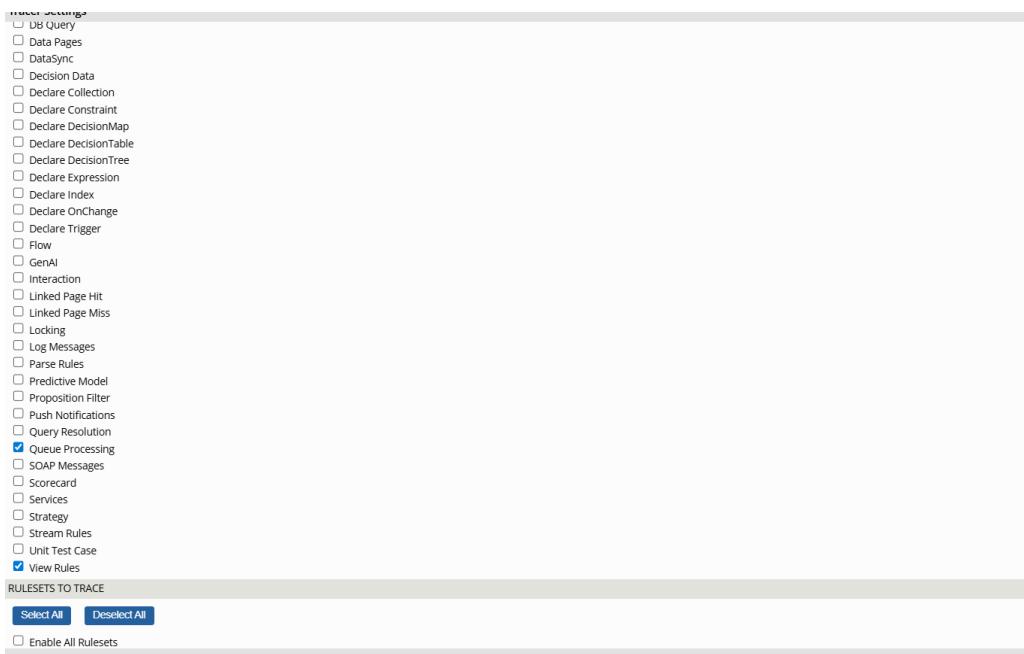
Constellation Debugging tools

Debugging tools in PEGA infinity versions are totally different from older versions. We will observe how we can configure debugging tools.

1. Tracer:

In the infinity versions we see that the tracer events which have been changed in settings.

We have new rules like GenAi and View Rules that can be seen in the tracer Settings.



While tracing at run time we could be able to see that API calls, Case operations and Dev interaction all are being broken down and grouped into individual tabs and we can see in tracer. Previously it was only one single thing which is being grouped all the time at once and we have to check the tracer events in that one massive tab.

LINE	THREAD	INT	RULE#	STEP METHOD	STEP PAGE	STEP	STATUS	EVENT TYPE	ELAPSED (S)	NAME	RULESET
+ Resource: /application/v2/cases/03J2CY-DHF-WORK I-10											
+ Resource: /application/v2/assignments/ASSIGN-WORKLIST 03J2CY-DHF-WORK I-10 CREATEFORM_DEFAULT/actions/CollectInsuranceRequest/refresh											
+ Events for Requestor: HYSG11Y1S4D56Y639GZ30MXABPTHNUJVRA											
- Resource: /application/v2/cases InteractionID: POST-cases-11-58-18-859-ANVJFJASOTCGJHK6VJ1LTS5ZFVDRCALDIA Node: 0393b9bb337a6f66241653d17316e8a4 (cogref16)											
3436	STANDARD	68	124	D_pzCachedPreference				Activity End	0.0020	Data-Preference-Operator pzGetPreference	Pega-Gadgets 08-25-02
3435	STANDARD	68	124	D_pzCachedPreference		3	GOOD	Step End	0.0000	Data-Preference-Operator pzGetPreference	Pega-Gadgets 08-25-02
3434	STANDARD	68	124	Property-Remove	D_pzCachedPreference			Step Begin		Data-Preference-Operator pzGetPreference	Pega-Gadgets 08-25-02
3433	STANDARD	68	124	Page-Copy	D_pzCachedPreference	2	GOOD	Step End	0.0000	Data-Preference-Operator pzGetPreference	Pega-Gadgets 08-25-02
3432	STANDARD	68	124	Page-Copy	D_pzCachedPreference	2		Step Begin		Data-Preference-Operator pzGetPreference	Pega-Gadgets 08-25-02
3431	STANDARD	68	124	Property-Set	D_pzCachedPreference	1	GOOD	Step End	0.0000	Data-Preference-Operator pzGetPreference	Pega-Gadgets 08-25-02
3430	STANDARD	68	124	Param.PreferenceOperatorID===""	D_pzCachedPreference			False		Data-Preference-Operator pzGetPreference	Pega-Gadgets 08-25-02
3429	STANDARD	68	124	Param.PreferenceOperatorID===""	D_pzCachedPreference			When End	0.0000	Data-Preference-Operator pzGetPreference	Pega-Gadgets 08-25-02
3428	STANDARD	68	124	Property-Set	D_pzCachedPreference	1		When Begin		Data-Preference-Operator pzGetPreference	Pega-Gadgets 08-25-02
3427	STANDARD	68	124	D_pzCachedPreference				Step Begin		Data-Preference-Operator pzGetPreference	Pega-Gadgets 08-25-02
3426	STANDARD	68	12	Temp19ca41d22eb				Activity Begin		Data-Preference-Operator pzGetPreference	Pega-Gadgets 08-25-02
3425	STANDARD	68	12	Java	Temp19ca41d22eb	1	GOOD	Activity End	1.6090	Pega-API-CaseManagement-Case pzCreate	Pega-API 08-24-51
3424	STANDARD	68	13	CreateCaseV2_QP99Q				Step End	1.6090	Pega-API-CaseManagement-Case pzCreate	Pega-API 08-24-51
3423	STANDARD	68	14	CreateCaseV2_QP99Q				Activity End	1.6080	Pega-API-CaseManagement-Case pzCreate	Pega-API 08-24-51
3422	STANDARD	68	14	Call pzGetAssignViewResponseV2	CreateCaseV2_QP99Q	9	GOOD	Activity End	1.6070	Pega-API-CaseManagement-Case pzCreate	Pega-API 08-25-02
3421	STANDARD	68	14	Param.PegaAPIError==""	CreateCaseV2_QP99Q	True		Step End	0.9880	Pega-API-CaseManagement-Case pzCreate	Pega-API 08-25-02
3420	STANDARD	68	14	CreateCaseV2_QP99Q	CreateCaseV2_QP99Q			When End	0.0010	Pega-API-CaseManagement-Case pzCreate	Pega-API 08-25-02
3419	STANDARD	68	76	CreateCaseV2_QP99Q				When Begin		Pega-API-CaseManagement-Case pzCreate	Pega-API 08-25-02
3418	STANDARD	68	76	Call pzSetResponseV2	CreateCaseV2_QP99Q	13	GOOD	Activity End	0.9860	Pega-API-CaseManagement-pzGetAssign	Pega-API 08-25-01
3417	STANDARD	68	91	CreateCaseV2_QP99Q				Step End	0.8040	Pega-API-CaseManagement-pzGetAssign	Pega-API 08-25-01
3416	STANDARD	68	91	java	CreateCaseV2_QP99Q	18	GOOD	Activity End	0.8040	Pega-API-CaseManagement-pzGetAssign	Pega-API 08-25-03
3415	STANDARD	68	91	java	CreateCaseV2_QP99Q	18		Step End	0.0000	Pega-API-CaseManagement-pzGetResponse	Pega-API 08-25-03
3414	STANDARD	68	91	Page-Remove	CreateCaseV2_QP99Q	17	GOOD	Step End	0.0010	Pega-API-CaseManagement-pzGetResponse	Pega-API 08-25-03
3413	STANDARD	68	91	Page-Remove	CreateCaseV2_QP99Q	17		Step Begin		Pega-API-CaseManagement-pzGetResponse	Pega-API 08-25-03
3412	STANDARD	68	91	Java	pyWorkPage	16	GOOD	Step End	0.4520	Pega-API-CaseManagement-pzGetResponse	Pega-API 08-25-03
3411	STANDARD	68	View End	caselInfo.content				View End		WORK-IPZCREATEDETAILS	Pega-EndUserUI 08-25-01
3410	STANDARD	68	View End	caselInfo.content				View End		03J2CY-DHF-WORK-INSURANCEREQUES...	MyPoc 01-01-01
3409	STANDARD	68	View End	caselInfo.content.UserInsuranceRequest				View End		03J2CY-DHF-DATA-REQUESTDETAILSICO...	MyPoc 01-01-01
3408	STANDARD	68	118	D_pzDataTypesOfApp				Activity End	0.4300	@baseclass pxCallRetrieveReportData	Pega-SystemArchitect 08-06-01
3407	STANDARD	68	118	Page-Remove	D_pzDataTypesOfApp	7	GOOD	Step End	0.0100	@baseclass pxCallRetrieveReportData	Pega-SystemArchitect 08-06-01
3406	STANDARD	68	118	local.isSameClass==false	D_pzDataTypesOfApp	False		When End	0.0030	@baseclass pxCallRetrieveReportData	Pega-SystemArchitect 08-06-01
3405	STANDARD	68	118	local.isSameClass==false	D_pzDataTypesOfApp			When Begin		@baseclass pxCallRetrieveReportData	Pega-SystemArchitect 08-06-01
3404	STANDARD	68	118	Page-Remove	D_pzDataTypesOfApp	7		Step Begin		@baseclass pxCallRetrieveReportData	Pega-SystemArchitect 08-06-01
3402	STANDARD	68	118	rsrs	IT MultiStepUnder #AAA	8	GOOD	Span End	0.0000	IRNSearchUI AVT SimulationAutomationTests	Baris.KieramKhiria@ibm.com

We can see in the above screenshot where the case related events are grouped in one and API related are grouped in another.

PCore

Acts as an entry point to the Constellation JavaScript Engine. Used for non-component specific actions, such as managing the applications' environment, locale, and loading external resources. Used to access global utilities, event systems, and loading external resources.

Here are the some of the Api That are

Command	Notes
PCore.getCaseutils()	This is used Case Life cycle
PCore.getCaseView()	This is used to get the case view
PCore.getDataApiUtils()	Fetch Data pages or query data
PCore.getActionApi()	Get the actions
PCore.getActionSequencer()	For Event management
PCore.getAttachementutils()	To get the Attachement meta data
PCore.getDebugger().toggleXRay(true)	To turn on the Live UI for getting meta data

PConnect:

Represents an instance of a specific UI component, managed by the JavaScript engine. Holds page context and references, enabling interaction with specific data instances. Used to perform actions on a specific case or embedded page.

Component Data:

```
getPConnect().getDataObject()``getPConnect().getCaseInfo()``getPConnect().getCaseStages()
```

UI Actions:

```
getPConnect().getActionsApi()``getPConnect().acceptSuggestion()``getPConnect().clearErrorMessages().
```

Structure:

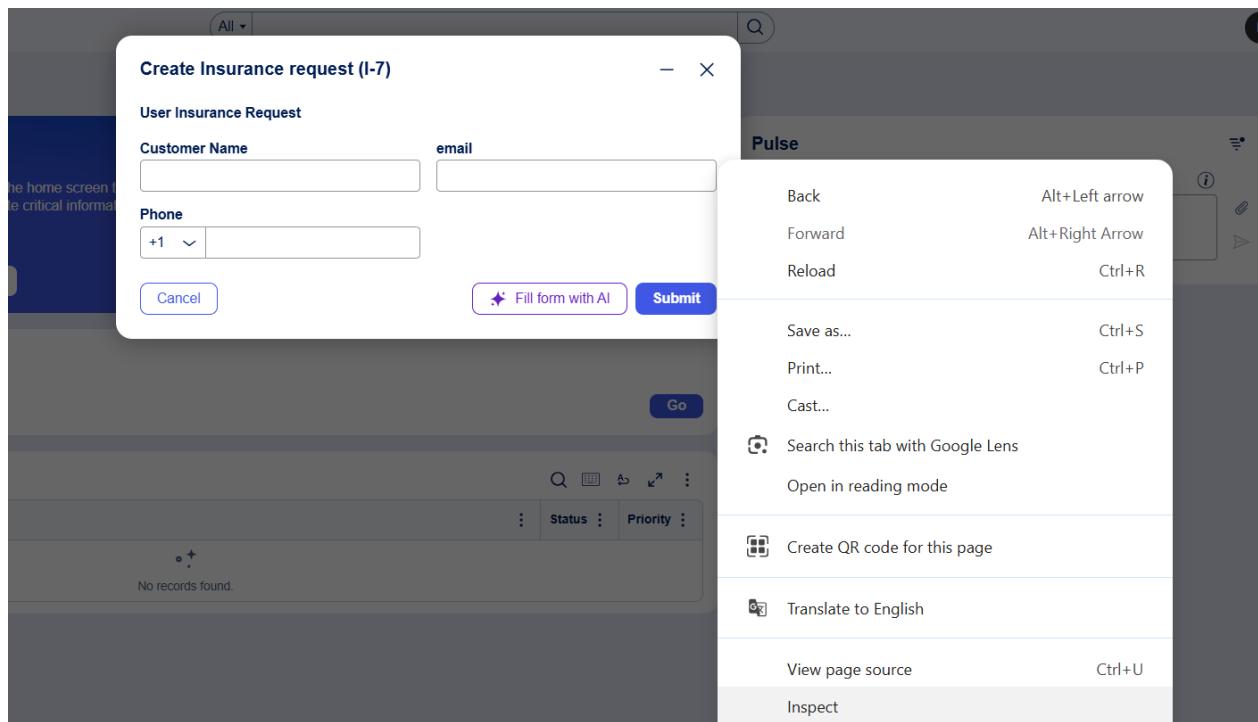
```
getPConnect().getChildren()``getPConnect().getConfigProps()
```

UI Inspector

The UI Inspector in Pega is an out-of-the-box debugging tool, similar to "[Live UI](#)" that allows developers to select, analyze, and debug user interface components directly on the screen. It displays the UI hierarchy, metadata, properties, and enables quick navigation to rule forms in Dev Studio for troubleshooting.

For Example:

We wanted to know which property is being used in this particular field in the case screen. To get to know meta data of a field we should know the Live UI so now to do that take the required screen and go to the inspector tools of the website.



The screenshot shows a web application interface on the left and the corresponding developer tools on the right. The application has a modal dialog titled "Create Insurance request (I-7)" with fields for "Customer Name", "email", and "Phone". Below the modal is a "Tasks" section showing one result. To the right, the developer tools' Elements tab is open, displaying the DOM structure of the page. The Styles tab is also visible, showing CSS rules applied to various elements.

Once the Inspector tools Appear go to the console tab.

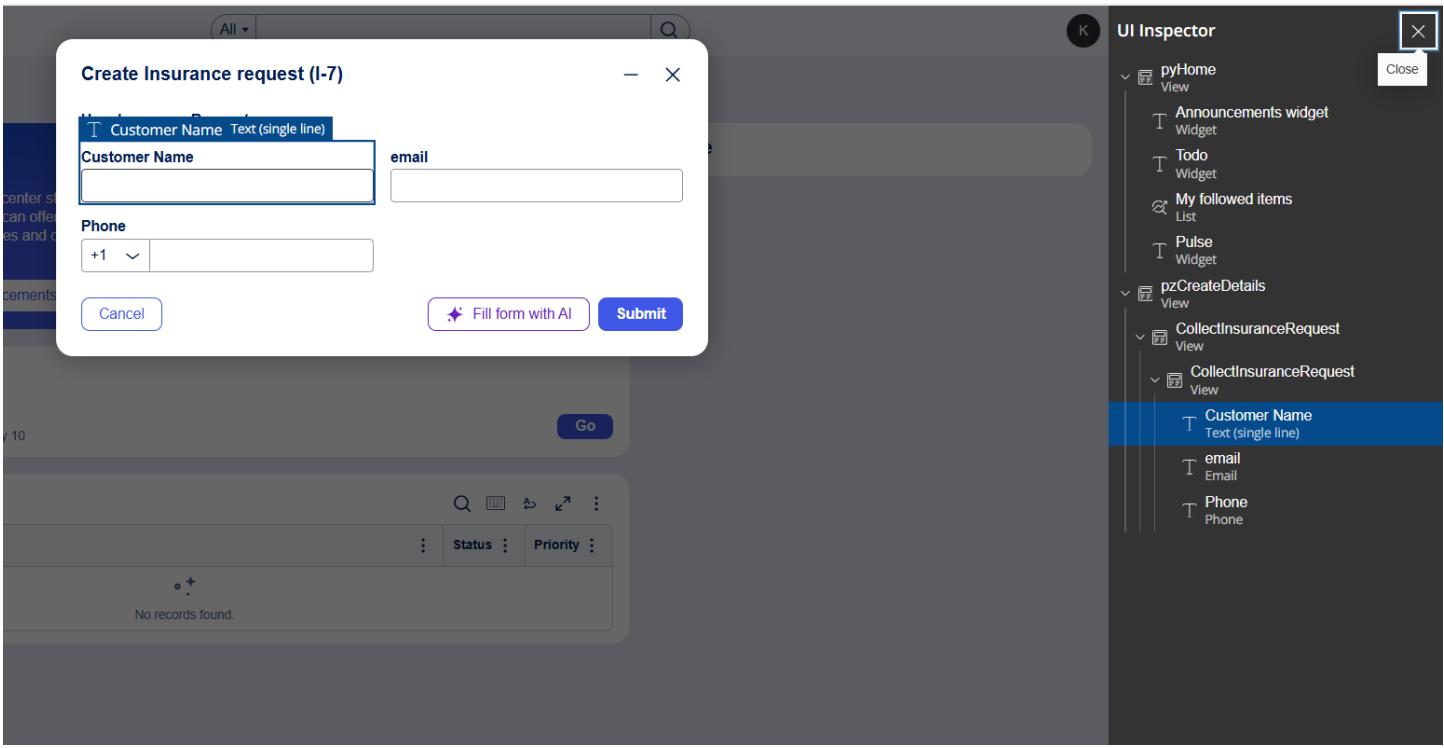
The screenshot shows the same web application interface as before, but now the developer tools' Console tab is active. The console output shows the message "Console was cleared" and the command "undefined". This indicates that the X-ray feature has been activated.

In the Console Tab Please type PCore.getDebugger().toggleXRay(true)

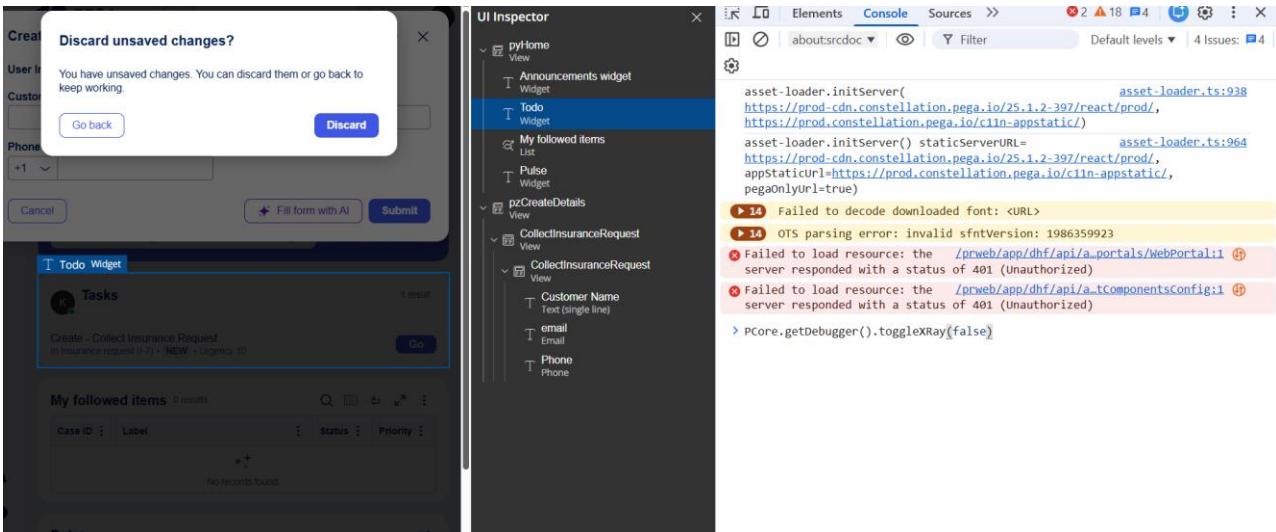
Now in the browser you see there is a small target appear in the right side of the screen.



Once you click on the UI Inspector it will automatically show the meta data of the screen.



If you want to Turn off then type **PCore.getDebugger().toggleXRay(false)** in the console tab.



DebugPegaAPI:

This is a DSS(Dynamic System Settings) Where it will be false by default but when you enable it you can go and check in logs if there any errors it puts extra info in the logs when its on.

Edit Dynamic System Settings: Debug the Pega API REST services

ID: Pega-API • DebugPegaAPI RS: Pega-ProcessCommander [Edit]

Delete Actions ▾ Save X

Settings History

Value ⓘ
false

This screenshot shows a configuration screen for a dynamic system setting named 'Debug the Pega API REST services'. The setting has an ID of 'Pega-API • DebugPegaAPI' and is associated with the RS 'Pega-ProcessCommander'. The current value is set to 'false'. The interface includes standard Pega navigation elements like 'Delete', 'Actions', 'Save', and a close button.