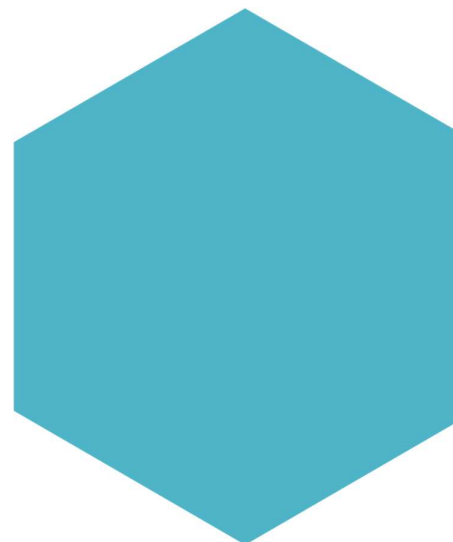




UiPath Watcher Extension

Developer guide

This document serves as developer guide for UiPath Watcher Extension.



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Developer guide

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Introduction

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UiPath Watcher is a web application designed in order to monitor UiPath Robots. It allows to create rules & trigger alerts on-top of UiPath Orchestrator & ElasticSearch APIs.

It's easy to use, open-source & created by an automation specialist for automation specialists.

4 easy steps

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Connect one or multiple UiPath Orchestrators

Create a Customer which stands for a Business Unit owning some UiPath Robots

Add an Automated Watched Process identifying the UiPath Processes, Robots & Queues involved

Define an Alert Trigger to generate alerts by configuring rules.

1. Requirements

1.1. UiPath Studio

You need to install UiPath Studio in version 2019.10 or above.

1.2. UiPath Robot Javascript add-on

You'll also have to install UiPath Robot Javascript add-on available here :

- <https://robotjs.uipath.com/download>

2. Set UiPath Watcher Extension template in UiPath Studio

In order to set UiPath Watcher Extension template in UiPath Studio, first open the project « UiPathWatcherExtensionTemplate » with UiPath Studio.

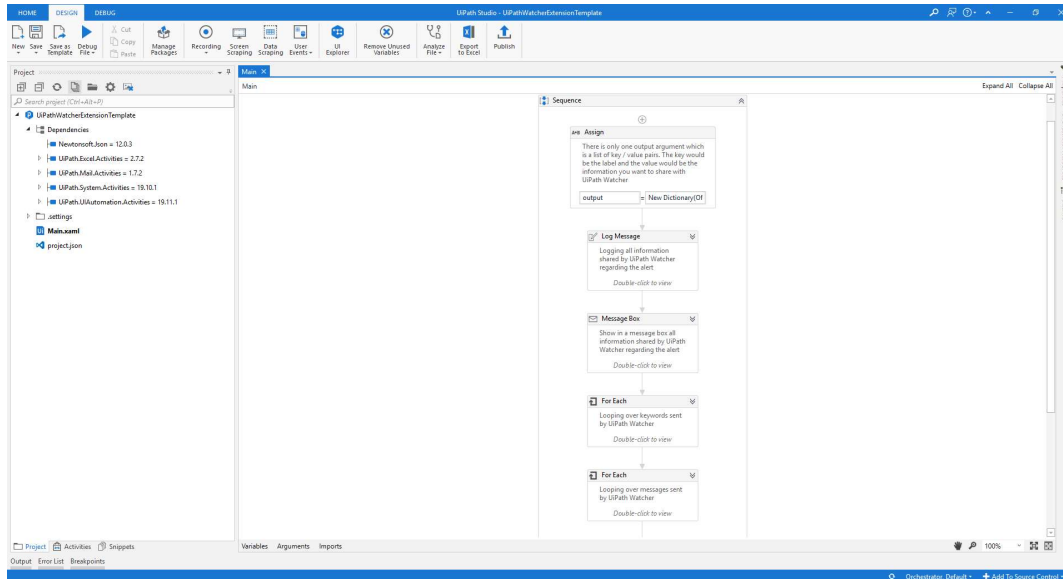


Figure 1 - UiPathWatcherExtensionTemplate project opened in UiPath Studio

Then, click on « Save as Template » menu item in the ribbon (Design tab).

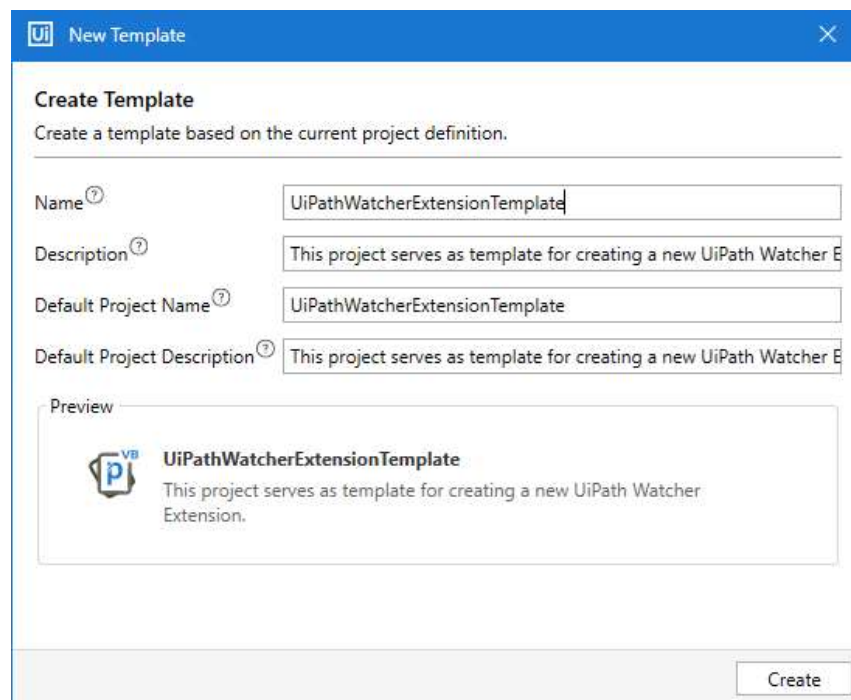


Figure 2 - Creating UiPath Studio project Template for UiPath Watcher Extension

Eventually, click on « Create » button. It will have the effect of adding a new usable Template in UiPath Studio welcome page.

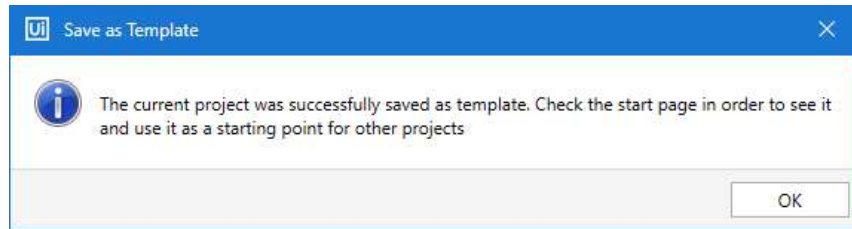


Figure 3 - Validating UiPath Watcher Extension Template creation

Click on « OK » button on the notification message.

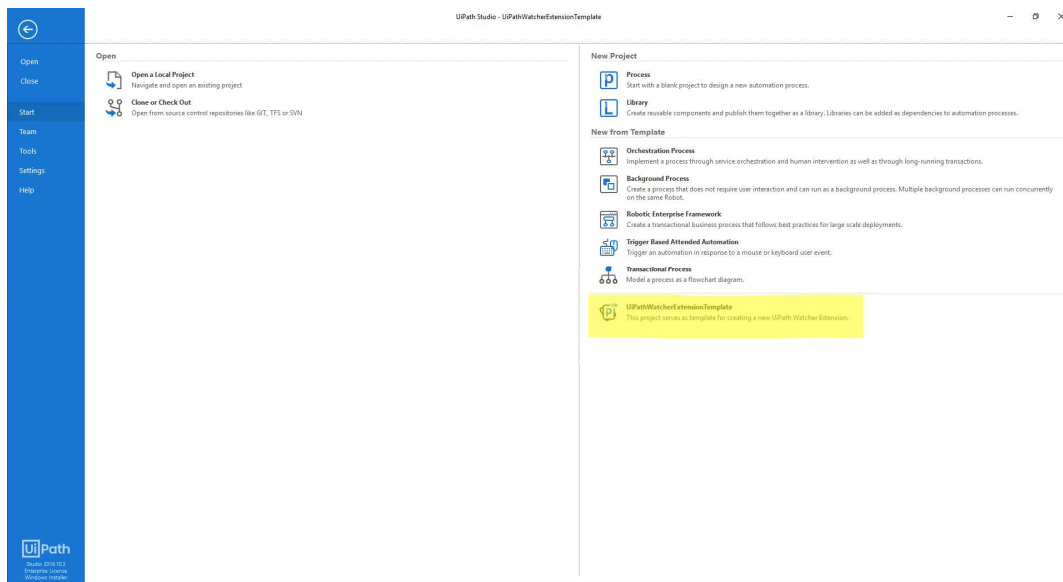


Figure 4 - UiPath Studio homepage after Template creation

3. Create a new UiPath Watcher Extension

First, create a new UiPath Studio project using the template previously created (see section 2) by clicking on « UiPathWatcherExtensionTemplate » button on UiPath Studio homepage.

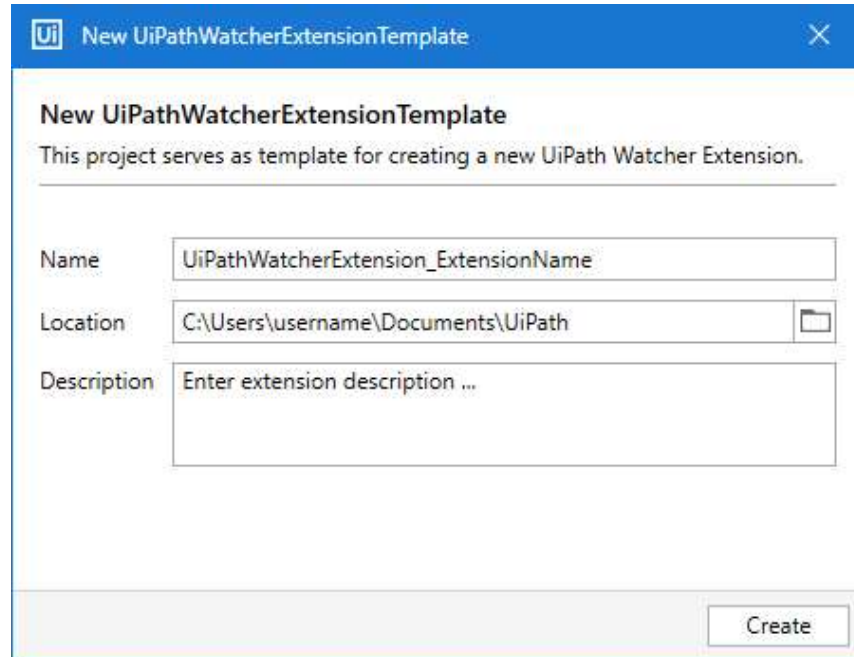


Figure 5 - Creating a new UiPath Watcher Extension

Then, give a name, a location and a description to your extension & click on « Create » button.

Open the Main workflow file and insert your steps after « The code of your extension goes here » comment.

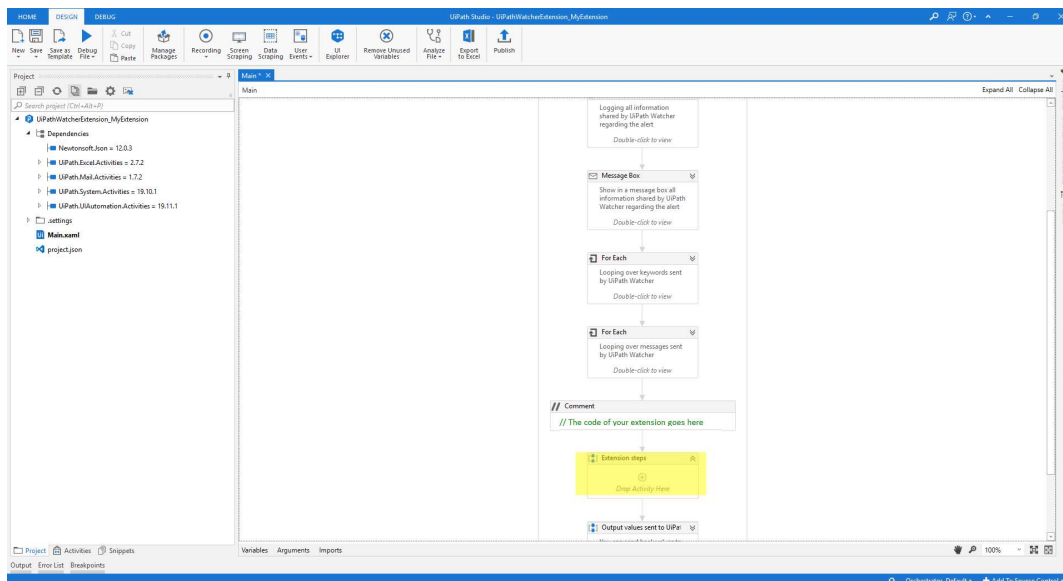


Figure 6 - Inserting steps to the new UiPath Watcher Extension

3.1. Input arguments

Here is the list of input arguments you'll have access to, these are all data sent by UiPath Watcher to the extension :

- id (integer)
 - id of alert raised in UiPath Watcher
- createdAt (string)
 - date / time of alert creation in UiPath Watcher formatted as « YYYY-MM-DD HH:mm:ss »
- revisionStartedAt (string)
 - date / time when alert was taken under analysis in UiPath Watcher formatted as « YYYY-MM-DD HH:mm:ss »
- keywords (string)
 - list of keywords formatted as JSON associated at alert closing in UiPath Watcher (*Note : a local variable named « keywordsAsArray » of type `String[]` is available*)
- resolutionDescription (string)
- messages (string)
 - list of messages related to raised alert formatted as JSON (*Note : a local variable named « messagesAsArray » of type `String[] []` is available, like in a dictionary, key is the date formatted as « DD/MM/YYYY HH:mm:ss », value is the message content*)
- triggerId (integer)
 - id of alert trigger that raised the alert in UiPath Watcher
- triggerTitle (string)
 - title of alert trigger that raised the alert in UiPath Watcher
- definitionId (integer)
 - id of alert trigger definition associated to raised alert in UiPath Watcher
- definitionLevel (string)
 - level of alert trigger definition associated to raised alert in UiPath Watcher (*Note : possible values are « danger », « warning » and « info »*)
- definitionDescription (string)
 - description of alert trigger definition associated to raised alert in UiPath Watcher
- watchedAutomatedProcessId (integer)
 - id of automated watched process associated to raised alert in UiPath Watcher
- watchedAutomatedProcessCode (string)
 - code of automated watched process associated to raised alert in UiPath Watcher
- watchedAutomatedProcessName (string)
 - name of automated watched process associated to raised alert in UiPath Watcher
- watchedAutomatedProcessOperationalHandbookPageURL (string)
 - operational handbook page URL of automated watched process associated to raised alert in UiPath Watcher
- watchedAutomatedProcessKibanaDashboardURL (string)
 - Kibana dashboard URL of automated watched process associated to raised alert in UiPath Watcher
- watchedAutomatedProcessAdditionalInformation (string)
 - additional information on watched process associated to raised alert in UiPath Watcher
- customerId (integer)
 - id of customer related to raised alert in UiPath Watcher
- customerName (string)
 - name of customer related to raised alert in UiPath Watcher
- customerCode (string)
 - code of customer related to raised alert in UiPath Watcher

3.2. Output argument

As output argument, only one is defined, it's named « output » and is of type Dictionary<String, String>.

It allows you to send back information to UiPath Watcher after extension execution (e.g. : id of IT ticker, id of JIRA issue).

In order to add values you'll find some examples in the template, see « Output values sent to UiPath Watcher » sequence.

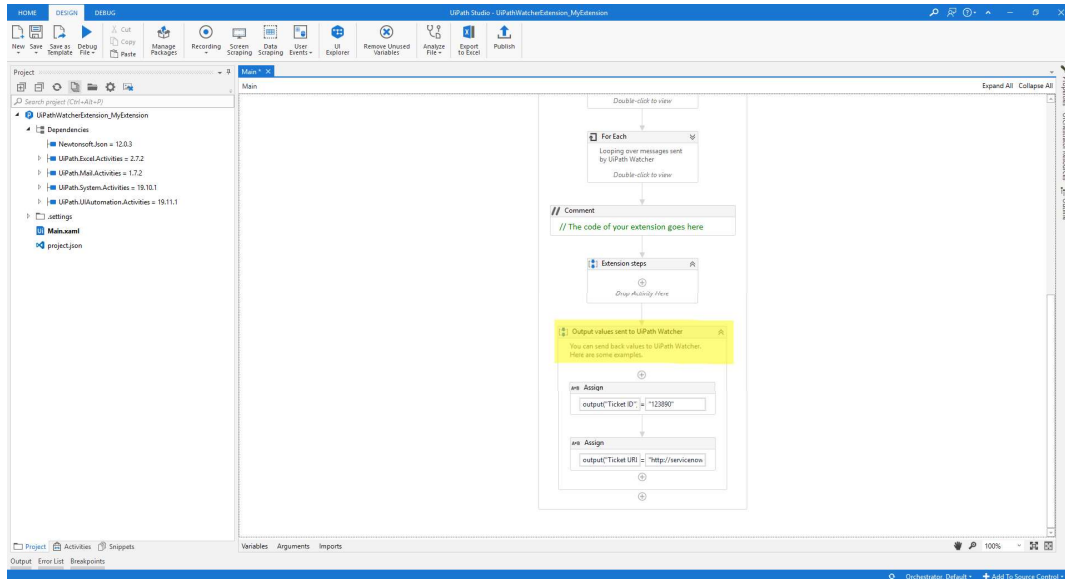


Figure 7 - Sending back values to UiPath Watcher