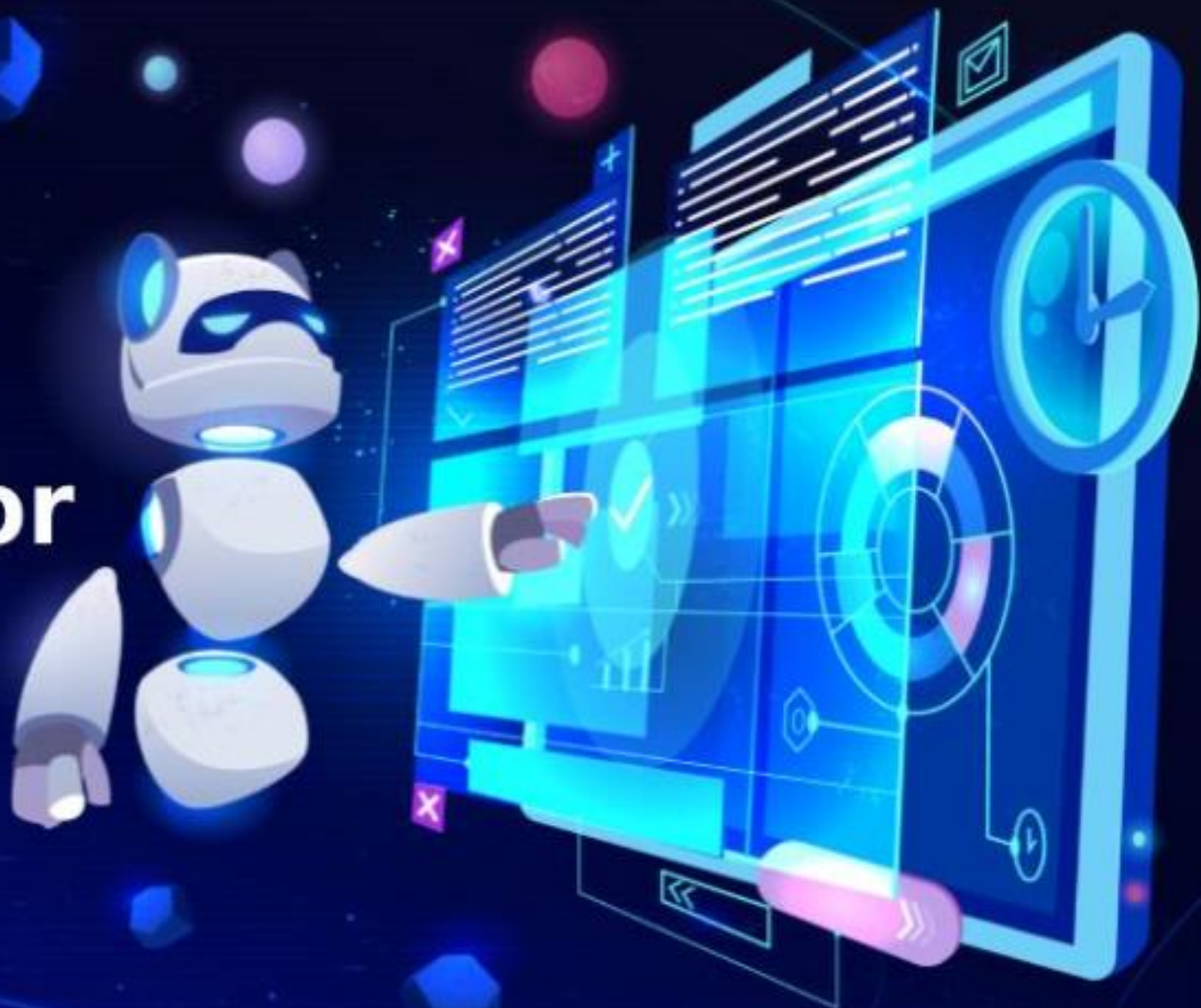


UiPath Orchestrator



Orchestrator

1. RPA UiPath

2.Introduction of Orchestrator Uipath

3. How to connect Uipath studio to orchestrator platform uipath :

- **Publish Tast Cases**
- **Machine Name**
- **Machine Key**

4. How To Create Robots :

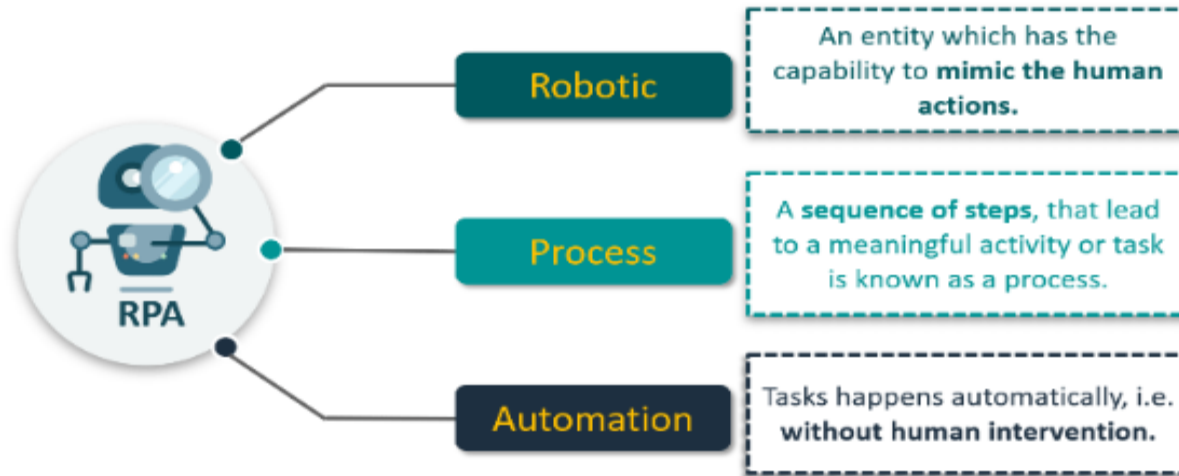
- **Robots**
- **Environments**
- **Process**
- **Jobs**

5. Functionality of orchestrator platform :

- **Processes**
- **Libraries**
- **Assets**
- **Schedules(Triggers)**
- **Queues**

1. RPA UiPath

What is Robotic Process Automation?



UiPath Studio

An advanced tool that enables you to design automation processes in a visual manner, using drag-and-drop functionality



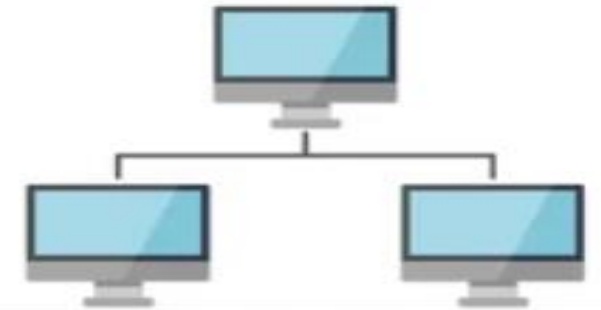
UiPath Robot

Robot executes the processes built in Studio, just like humans



UiPath Orchestrator

Orchestrator is a web application that enables us to deploy, schedule, monitor and manage Robots and Processes



2. Introduction of Orchestrator UiPath :

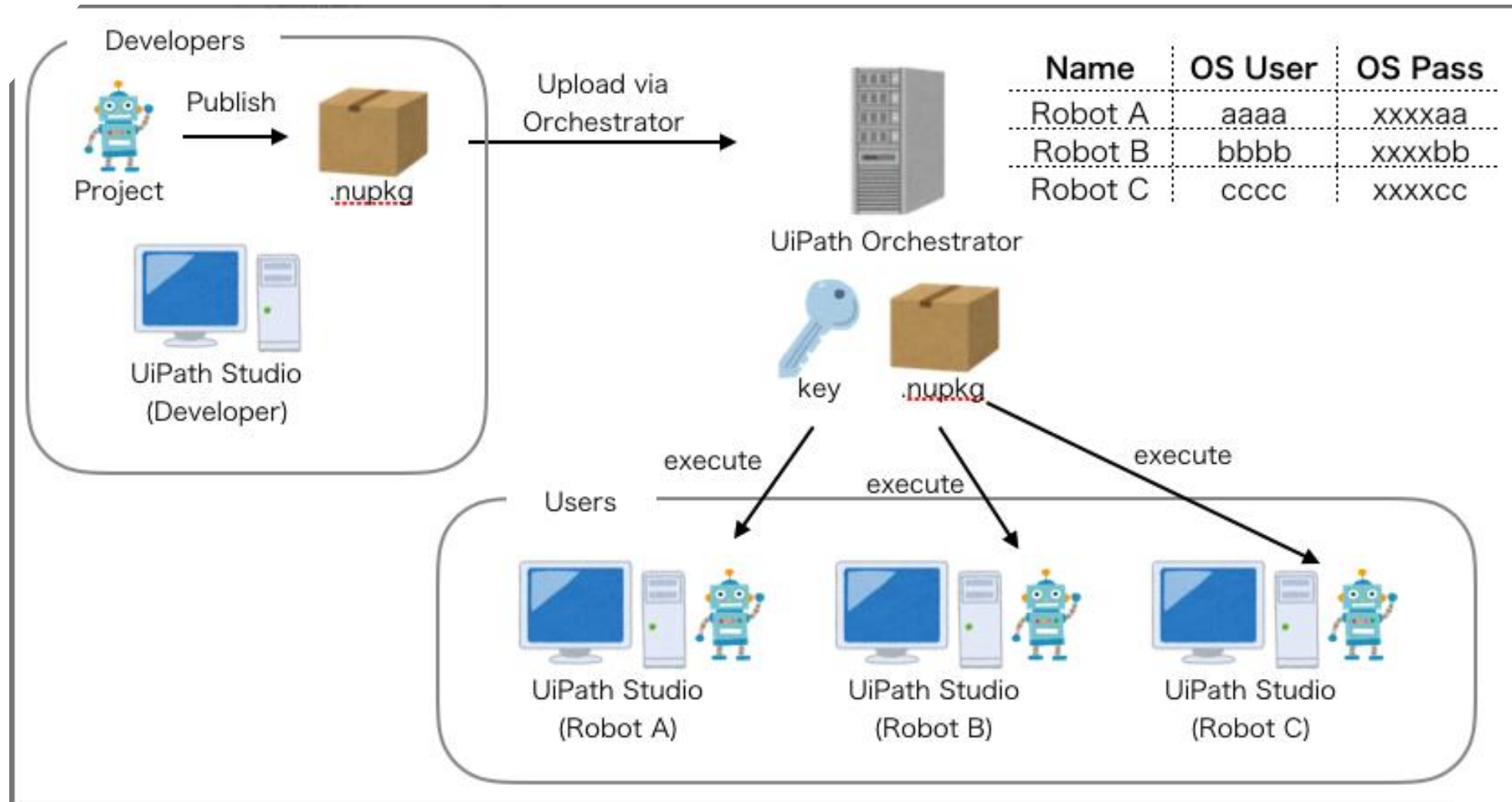
UiPath Orchestrator is a web application that enables you to orchestrate your UiPath Robots in executing repetitive business processes.

UiPath Orchestrator Use Cases:

- Attended** - This type of Robot is triggered by user events, and operates alongside a human, on the same workstation. Attended Robots are used with Orchestrator for a centralized process deployment and logging medium.
- Unattended** - Robots run unattended in virtual environments and can automate any number of processes. On top of the Attended Robot capabilities, the Orchestrator is responsible for remote execution, monitoring, scheduling and providing support for work queues.
- Studio / StudioX** - has the features of an Unattended Robot, but it should be used only to connect your Studio or StudioX to Orchestrator for development purposes.
- NonProduction** - similar to Unattended Robots, but they should be used only for development and testing purposes.

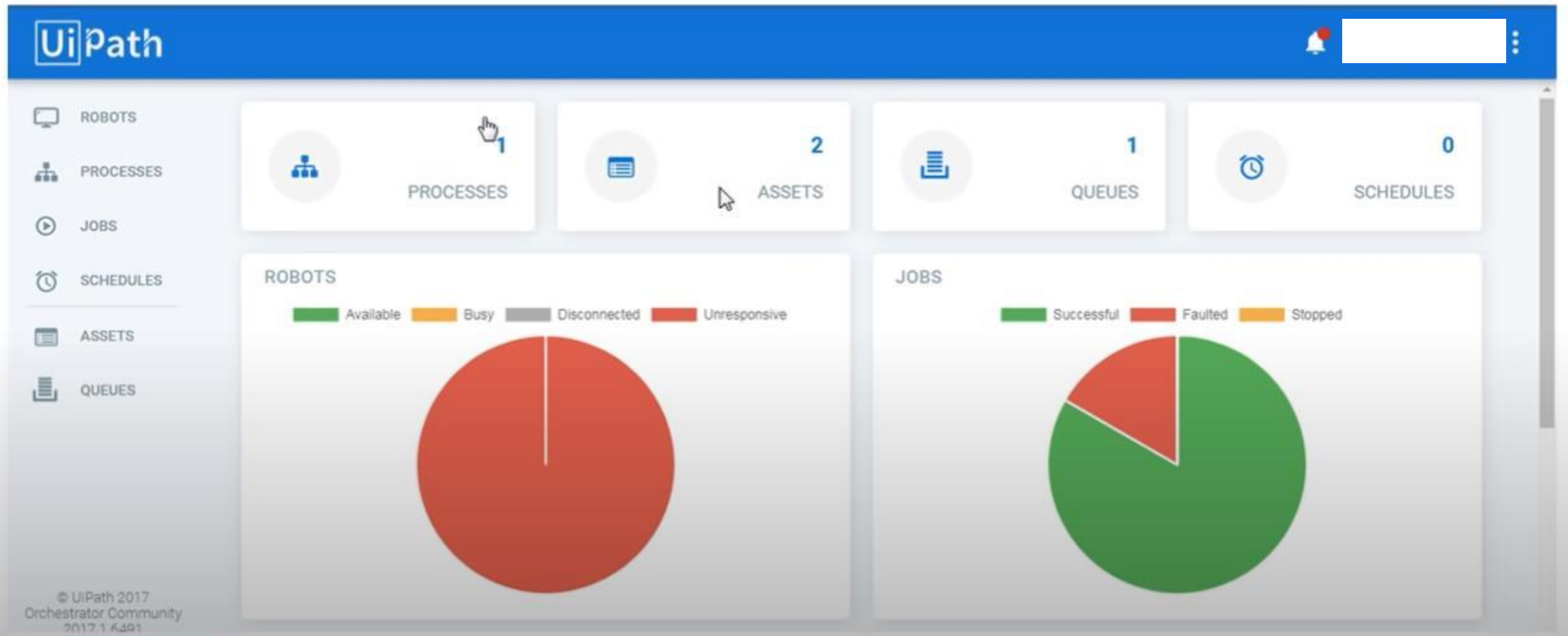
Orchestrator Main Capabilities :

- Provisioning** - creates and maintains the connection between Robots and web application
- Deployment** - assures the correct delivery of the package versions to the assigned Robots for execution
- Configuration** - maintains and delivers Robot environments and processes configuration
- Queues** - ensures automatic workload distribution across Robots
- Monitoring** - keeps track of Robot identification data and maintains user permissions
- Logging** - stores and indexes the logs to an SQL database and/or Elasticsearch (depending on your architecture and configuration)
- Inter-connectivity** - acts as the centralized point of communication for 3rd party solutions or applications



UiPath Orchestrator Community Edition

URL: platform.uipath.com



ROBOTS

PROCESSES

JOBS

SCHEDULES

ASSETS

QUEUES



NAME

No data to show

Items: 10

Provision Robot

Key *

fcce997d-bd71-4f3b-a9c3-109d7a2f0871



Machine *



Name *

Domain\Username *

subash.prasad@provintl.com

Password



Tune

CANCEL

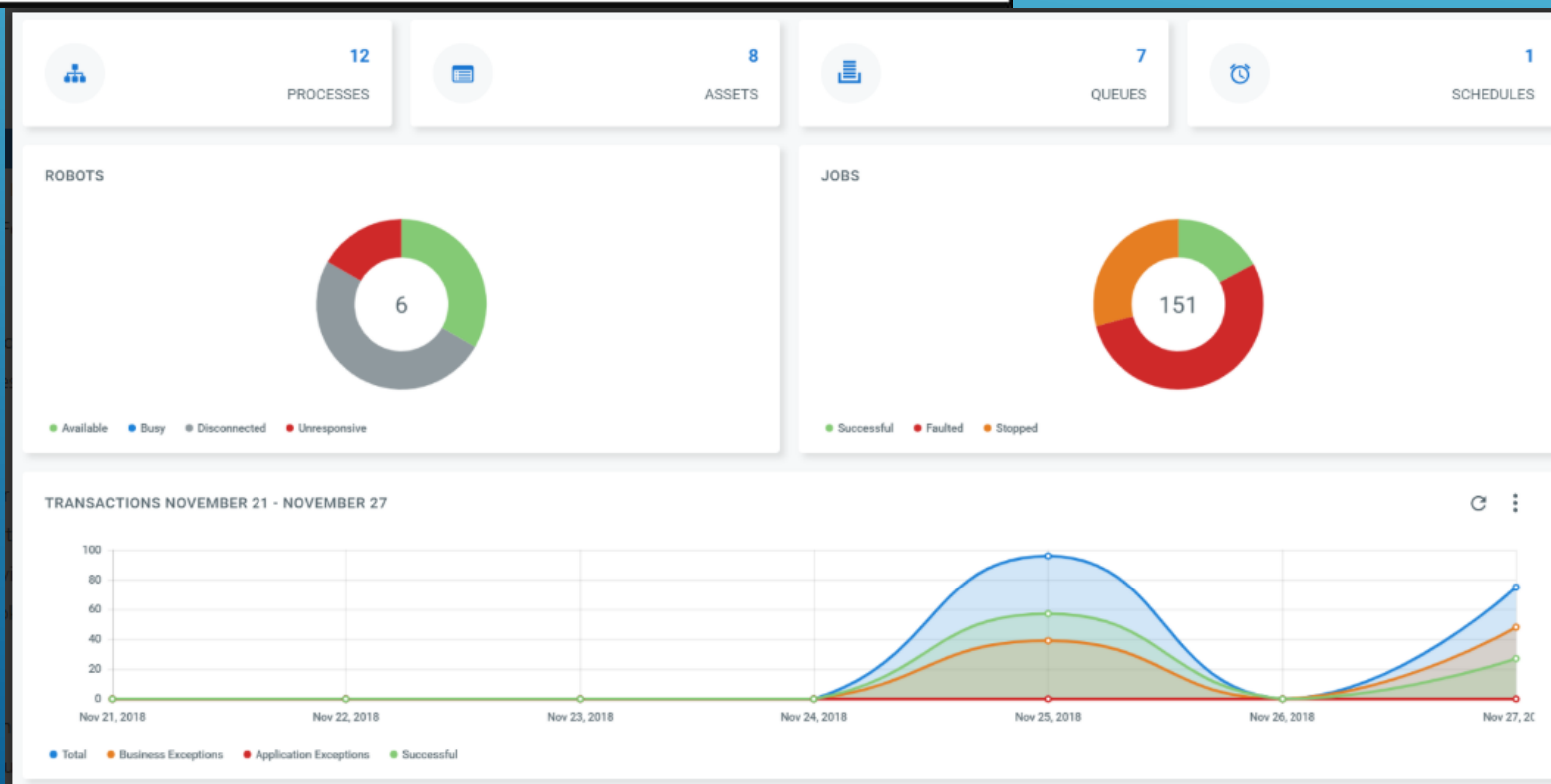
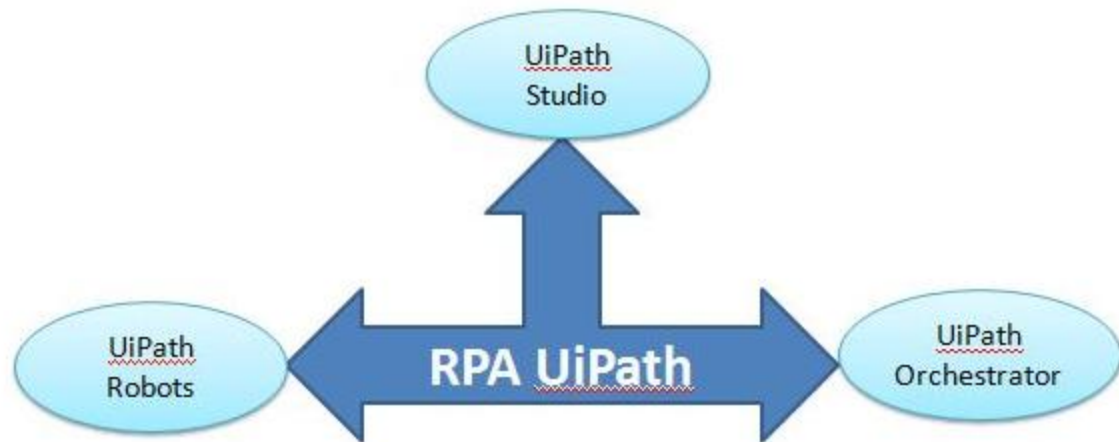
PROVISION

HEARTBEAT

STATUS



0 items



3. How to connect UiPath studio to orchestrator platform uipath:-

1. Open <http://cloud.uipath.com/>

1



Log In



Continue with Google



Continue with Microsoft



Continue with LinkedIn

or



Password



[Forgot password?](#)

Log In

2

Sign in with Google

Choose an account
to continue to uipath.com



Use another account

To continue, Google will share your name, email address, language preference, and profile picture with uipath.com. Before using this app, you can review uipath.com's [privacy policy](#) and [terms of service](#).

3

UiPath™

Home

Services

Users

Licenses

Audit Logs

Resource Center

cloud.uipath.com/marlaqkaqerc/portal_/home

☆

V

≡

Good afternoon, praveen

Orchestrator Services

Manage

● MarlabsDefault

Last Updated: 23 hours ago

License Usage

Robots

Studios

Other Services

☒ Attended

☒ Unattended - Runtime

☒ Testing - Runtime

☒ Non-production - Runtime

Last... ▾

4

3

2

Design your workflows in UiPath Studio

Build your automation project in UiPath Studio, our complete solution for application integration.

Learn more

Download Studio/StudioX

Connect your first Robot

The robot is UiPath's execution agent that enables you to run workflows built in Studio.

Learn more

Watch Video

Version 20.5.11-release.6

5

MONITORING ^

ROBOTS

JOBS

QUEUES

LOGS

AUTOMATIONS ^

PROCESSES

TRIGGERS

QUEUES

ASSETS

STORAGE BUCKETS

/ Default



0

PROCESSES



0

ASSETS



0

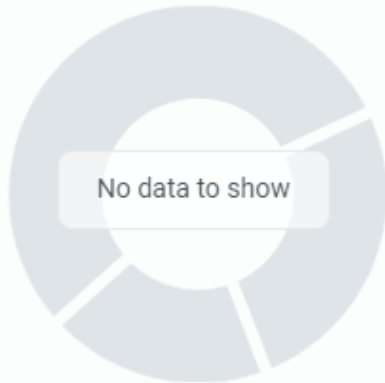
QUEUES



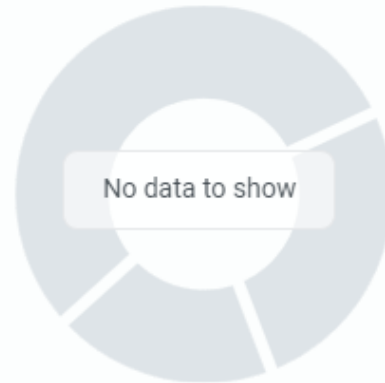
0

TRIGGERS

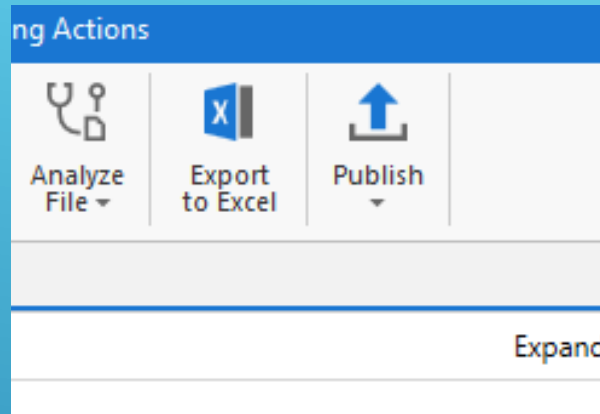
ROBOTS



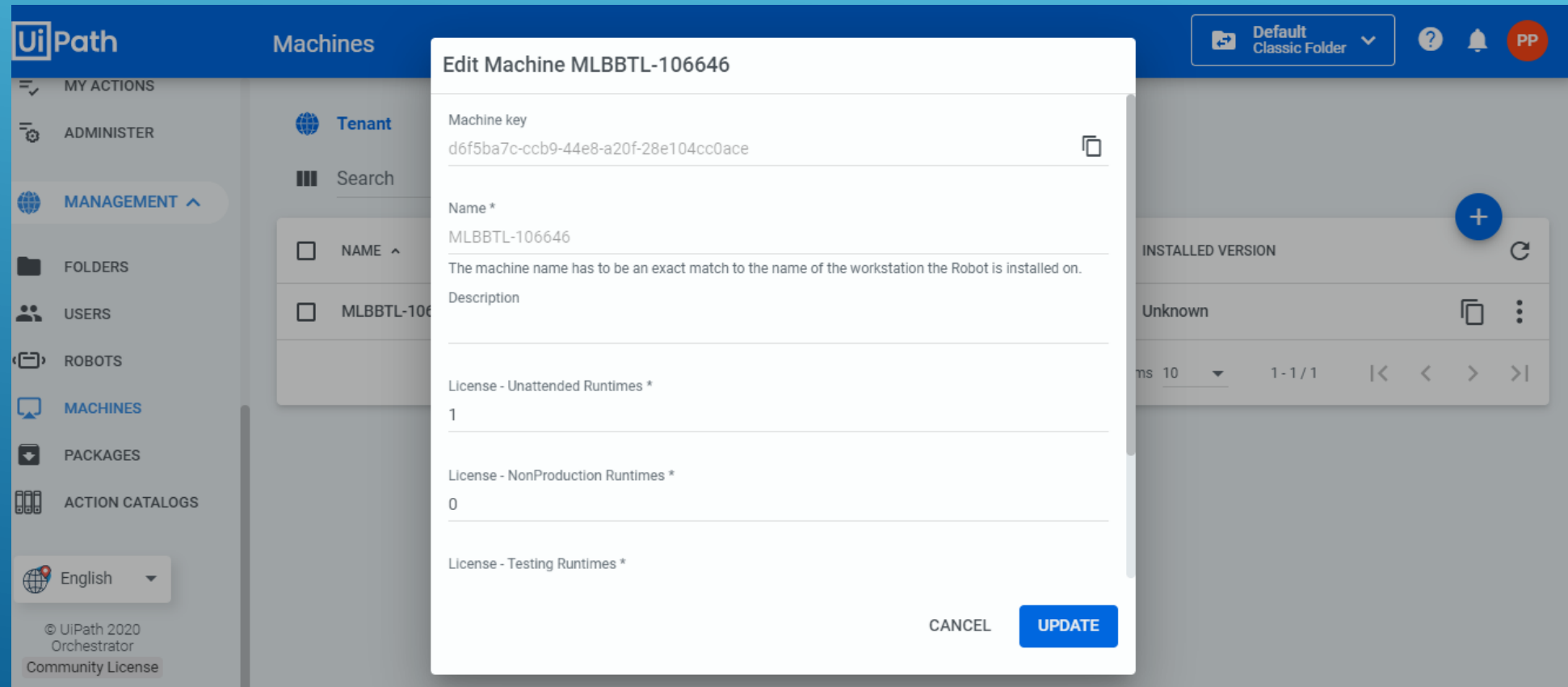
JOBS



➤ Publish Test Cases

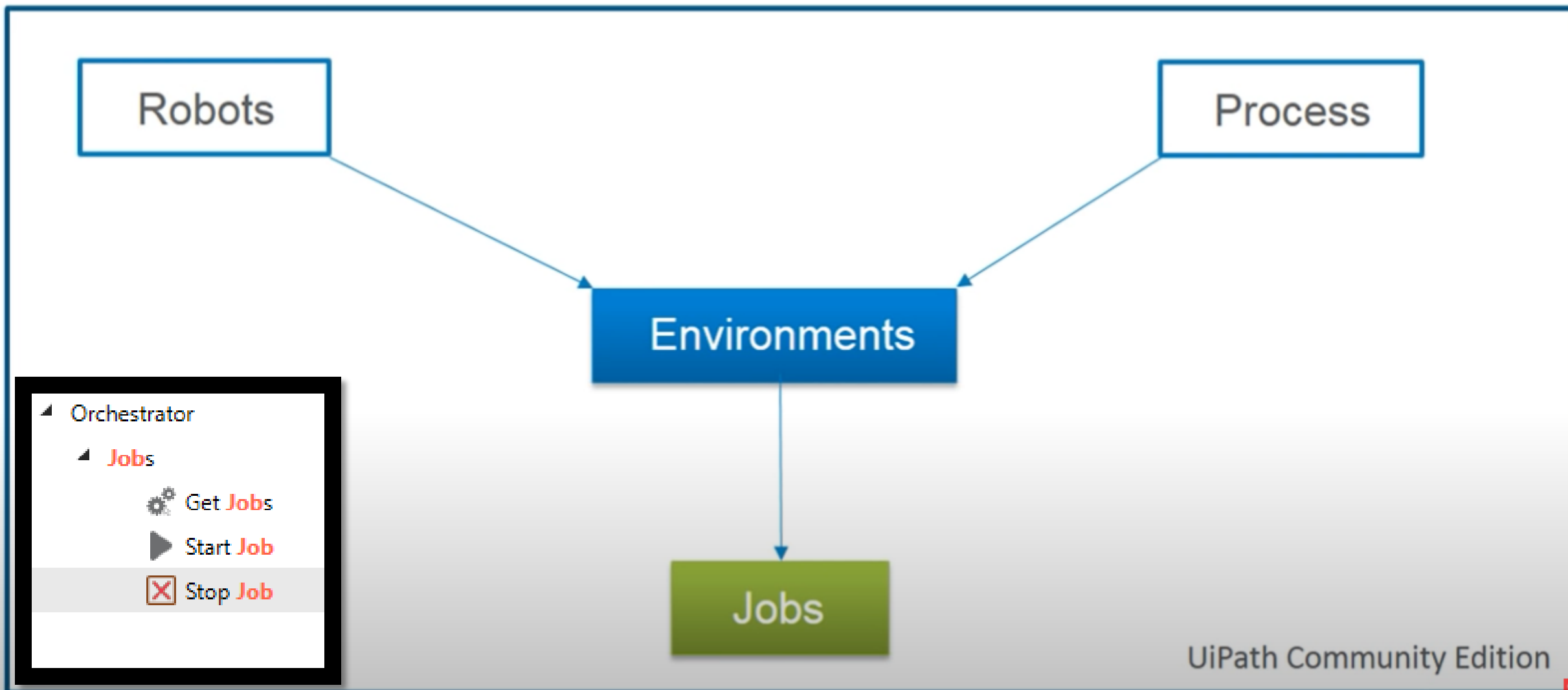


- Machine Name
- Machine Key



4. How To Create Robots :

UiPath Orchestrator Community Edition

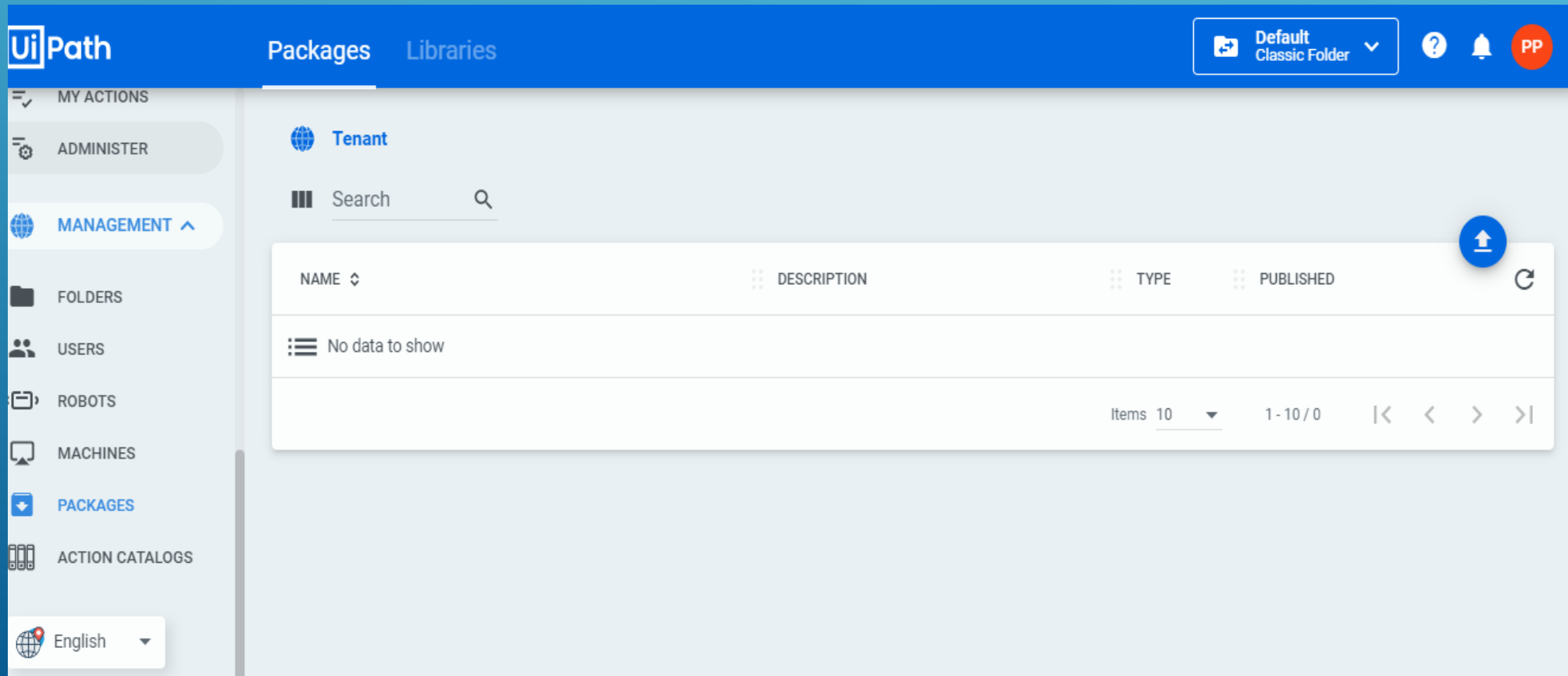


5 .Functionality of Orchestrator platform :

➤ Processes

- The **Processes** page enables you to deploy an uploaded package to Robot environments, manage previously created associations and keep all your processes up to date
- This helps you distribute packages on the Robot machines and execute processes faster from the Jobs page.
- If your Robot is not connected to Orchestrator, the default location of the packages is **%ProgramData%\UiPath\Packages**. Orchestrator uses this NuGet app to maintain package versions

- Processes
- Libraries
- Assets
- Schedules
- Queues



➤ Assets

- Assets usually represent shared variables or credentials that can be used in different automation projects

There are four types of assets:

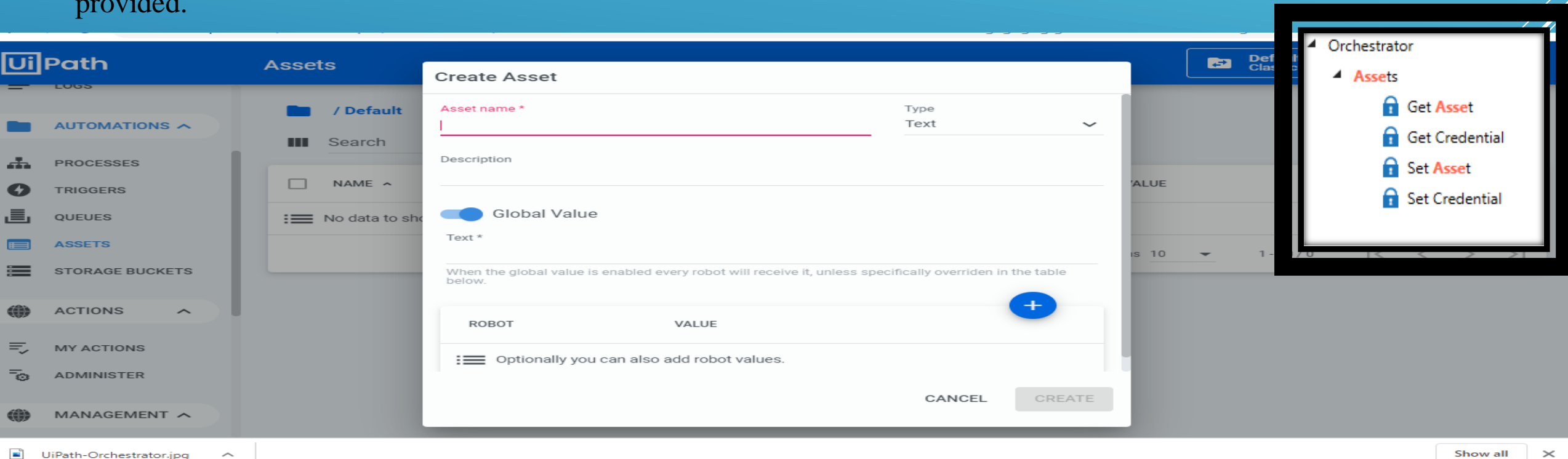
Text - stores only strings (it is not required to add quotation marks)

Bool - supports true or false values

Integer - stores only whole numbers

Credential - contains usernames and passwords that the Robot requires to execute particular processes, such as login details for SAP or SalesForce.

- Global Value** - the default value received by every robot, unless a specific value is assigned to a robot.
- Value Per Robot** - a value received only by the specified robot. If **Global Value** is disabled, at least one robot value must be provided.



➤ Schedules(Triggers)

Schedules enable you to execute jobs in a preplanned manner, at regular intervals on Robots. You can assign Robots to perform different schedules according to the following options:

1.All Robots - Schedules are executed by all the Robots in a specific environment.

2.Specific Robots - Schedules are executed by the Robots selected by the user.

3.A Number of Robots - Schedules are executed by a number of Robots. This option enables you to utilize your resources to their greatest extent. As soon as a Robot becomes **Available**, it executes the indicated process according to the provided schedule.

The screenshot shows the 'Add' trigger configuration page in the UiPath interface. The left sidebar contains navigation links: JOBS, QUEUES, LOGS, AUTOMATIONS (expanded), PROCESSES, TRIGGERS (selected), QUEUES, ASSETS, STORAGE BUCKETS, ACTIONS, MY ACTIONS, ADMINISTER, MANAGEMENT, FOLDERS, USERS, and ROBOTS. The main area is titled 'Triggers > Add' and shows two trigger options: 'Time' (selected with a checkmark) and 'Queue'. Below these is the 'Define Trigger' section. The 'Name' field is 'uipathoc'. The 'Process' field shows 'No process selected.' with a dropdown arrow. The 'Job priority' is set to 'Inherited'. The 'Execution Target' and 'Parameters' fields are empty, with a message 'Please select a process'. The 'Timezone' is '(UTC) Coordinated Universal Time'. The frequency is set to 'Minutes' with 'Every 1 minute(s)'. A note states 'The process will be scheduled in (UTC) Coordinated Universal Time'. The 'Non-working days restrictions' are set to 'No calendar selected.'. At the bottom, there are two toggle switches: 'Stop Job after' and 'Disable Trigger at'.

UiPath Triggers > Add

Default Classic Folder

/ Default

Time
Schedule a recurrent time to start a job.

Queue
Start a job when new items are added to a queue.

Define Trigger

Name *
uipathoc

Process *
No process selected.

Job priority *
Inherited

Execution Target
Parameters

Please select a process

Timezone *
(UTC) Coordinated Universal Time

Minutes
Hourly
Daily
Weekly
Monthly
Advanced

Every 1 minute(s)

The process will be scheduled in (UTC) Coordinated Universal Time

Non-working days restrictions
No calendar selected.

Stop Job after

Disable Trigger at

Add Schedule

Process

Test_Queue_Doc_env

Triggers

Execution Target

Schedule start

☐ Minutes

☐ Hourly

☐ Daily

☒ Weekly

☐ Monthly

☐ Advanced

Every ☐ Monday ☒ Tuesday ☐ Wednesday

☐ Thursday ☐ Friday ☐ Saturday

☒ Sunday

At hours(s)

And minutes(s)

The process will be scheduled in UTC

☒ Stop after

Days

Hours

Minutes

Action ☐ Cancel ☒ Terminate

✓ Create

✗ Cancel

SCHEDULE

PARAMETERS

Name *

LockedQueueProcess

Process *

lockedQueueProcess_Env

Timezone *

(UTC+00:00) Africa/Nairobi

Trigger

Execution Target

Actions

☐ All Robots

☐ Specific Robots

☒ Allocate dynamically

Execute the process 5 times

CANCEL

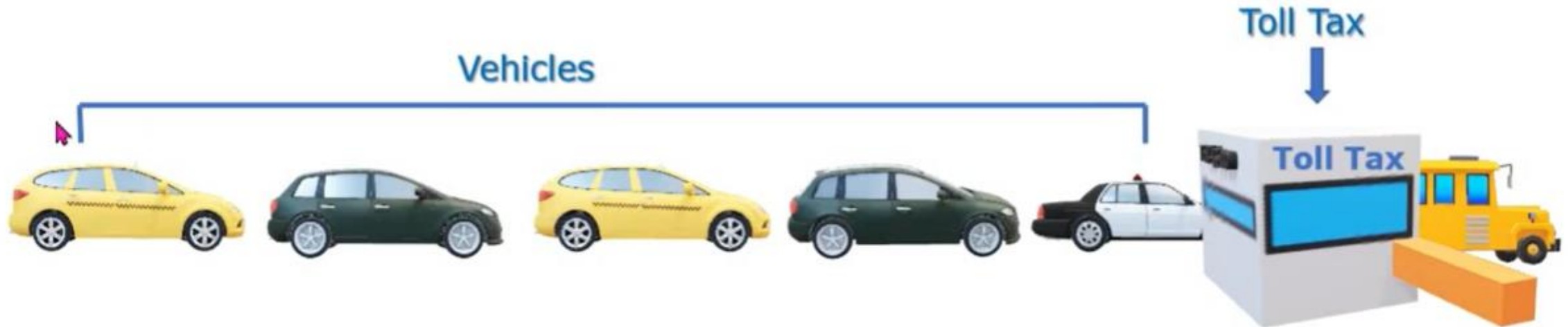
CREATE

Old Formatted

➤ Queues

A queue is a container that enables you to hold an unlimited number of items.

Queue follows the **FIFO (First - In - First Out)** structure. According to FIFO structure, items inserted first will also be Processed first –like First Come First Serve.



Here in this example – Vehicles which will come first , will pass from the Toll first.

In the real world, These are the vehicles standing in a queue to pass from the Toll. Toll Person verifies the paper of each vehicle and approve them to pass or wait.

Queue Status:-

a) New:- the item has just been added to the queue with the Add Queue Item activity, or the item was postponed or a deadline was added to it.

b) In Progress:- the item was processed with the Get Transaction Item or the Add Transaction Item activity; when an item has this status, your custom progress status is also displayed, in the Progress column

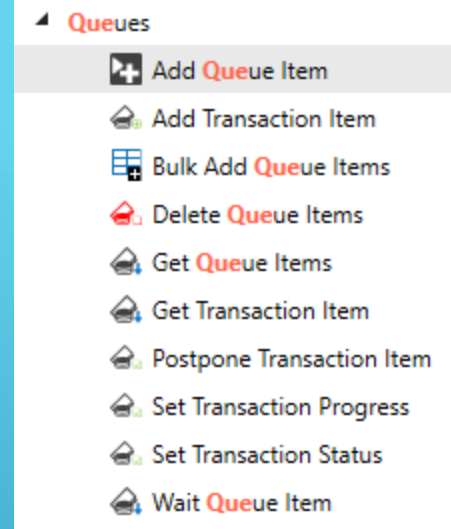
c) Failed – the item did not meet a business or application requirement within the project and was therefore sent to a Set Transaction Status activity, which changed its status to Failed

d) Successful – the item was processed and sent to a Set Transaction Status activity, which changed its status to Successful

e) Abandoned – the item remained in the In Progress status for a long period of time (approx. 24 hours) without being processed

f) Retried – the item failed with an application exception and was retried. After the Robot finishes retrying the item, the status changes to Failed or Successful, according to your workflow.

g) Deleted – the item has been manually selected from the Transactions page and marked as deleted; an item with this status can no longer be processed



MONITORING

ROBOTS

MACHINES

PROCESSES

LIBRARIES


JOBS

SCHEDULES



ASSETS

QUEUES

Search 🔍

<input type="checkbox"/>	NAME ^	DESCRIPTION ↕	IN PROGRESS	REMAINING	AVERAGE TIME ↕	SUCCES... ↕	APP EXCEPTIONS ↕	BIZ EXC... ↕	
<input type="checkbox"/>	DemoQueue	This is Demo Queue ju...	0	0	0 seconds	0	0	0	⋮
<input type="checkbox"/>	FirstQueue	This is the First Queue.	0	10	0 seconds	0	0	0	⋮
<input type="checkbox"/>	RPA_Queue		0	10	8.05 seconds	20	0	0	⋮

Items 10 ▾ 1 - 3 / 3 |< < > >|

 MONITORING ROBOTS MACHINES PROCESSES LIBRARIES JOBS SCHEDULES ASSETS QUEUES

Search



Status: All ▾

Revision: All ▾

Priority: All ▾

Robot: All ▾

Reviewer: All ▾

Exception: All ▾

<input type="checkbox"/>	STATUS	REFEREN...	REVISION	PRIORITY	DEADLINE	POSTPO...	STA...	END...	ROBOT	REVIEWER	EXCEPTION
--------------------------	--------	------------	----------	----------	----------	-----------	--------	--------	-------	----------	-----------

 0 rows selected

<input type="checkbox"/>	New		None	Normal							
--------------------------	-----	--	------	--------	--	--	--	--	--	--	--

<input type="checkbox"/>	New		None	Normal							
--------------------------	-----	--	------	--------	--	--	--	--	--	--	--

<input type="checkbox"/>	New		None	Normal							
--------------------------	-----	--	------	--------	--	--	--	--	--	--	--

Items 10 ▾

1 - 3 / 3

MONITORING

ROBOTS

MACHINES

PROCESSES

LIBRARIES

JOBS

SCHEDULES

ASSETS

QUEUES

English

DETAILS

An unexpected error occurred! (#100)

HISTORY

Transaction: b76a1cac-b3ea-4568-9d65-9f44e5c95301

Specific Data: Object
Name: Manish

Output Data: null

STATUS	REVISION	DEADLI...	RETRY ...	POSTPO...	STARTED	ENDED	RO...	EXCEPT...	
No data to show									

Items 10 1 - 10 / 0

CLOSE

DETAILS

COMMENTS

HISTORY

Transaction: 4ef6c148-8b9a-4a58-9508-3c917317cecd

▼ Specific Data: Object

Output Data: null

First_Name: Lara

Last_Name: Palmer

Company_Name: Timepath Inc.

Role: Programmer

Address: 87 Orange Street

Email: lpalmer@timepath.co.uk

Phone_Number: 40731653845

STATUS REVISION DEADLI... RETRY ... POSTPO... STARTED ENDED RO... EXCEPT...

New None 0

Items 10 1 - 10 / 0 |< < > >|

vimeo

Customizable Player.

A Vimeo Feature

Learn More

CLOSE

Activities

que

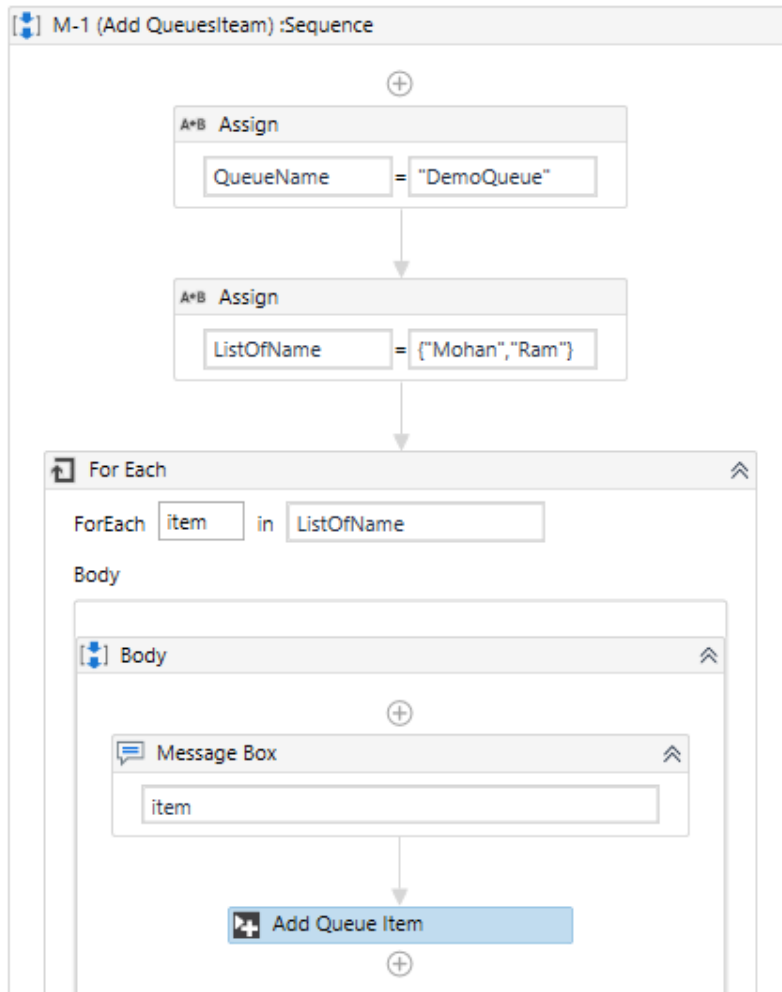
- Favorites
 - Sequence
- Recent
 - Sequence
- Available
 - Orchestrator
 - API
 - Orchestrator HTTP Request
 - Queues
 - Add Queue Item
 - Add Transaction Item
 - Bulk Add Queue Items
 - Delete Queue Items
 - Get Queue Items
 - Get Transaction Item
 - Postpone Transaction Item
 - Set Transaction Progress
 - Set Transaction Status
 - Wait Queue Item
 - System
 - Activities
 - Statements
 - Sequence

DebuggingActions

Queues1. x

Queues1_ > Queues1_ > M-1 (Add QueueItem...

Expand All Collapse All



Variables Arguments Imports

Default

92.17%



Properties

UiPath.Core.Activities.AddQueueItem

Common

ContinueOnError	Specifies to c...	<input checked="" type="checkbox"/>
DisplayName	Add Queue Item	
Timeout (milliseconds)	Specifies the amo...	

Input

Deadline	The date before v...	
ItemInformation	(Collection)	
ItemInformationCollection	A collection varia...	
Postpone	The date after wh...	
Priority	Normal	
QueueName	QueueName	
Reference	A reference for th...	

Misc

Orchestrator Folder Path	Enter a VB expres...	
Private	<input type="checkbox"/>	

AutoSave Off

EmplyDT - Excel

Praveen Kishor

File Home Insert Page Layc Formulas Data Review View Developpe Help

Search

I6

fx

	A	B	C	D	E	F	G
1	First Name	Last Name	Company	Role	Address	Phon NO	Remarks
2	Lara	Palmer	Timepath	Programmer	Banglore	9620097695	Ready To Process
3	Pavan	Kishor	Huawei	Engineer	Ranchi	7837930452	
4	Priyanka	Priya	Microsoft	IT Engineer	Banglore	962076394	
5							
6							

Sheet1

Orchestrator HTTP Request

Queues

Add Queue Item

Add Transaction Item

Bulk Add Queue Items

Delete Queue Items

Get Queue Items

Get Transaction Item

Postpone Transaction Item

Set Transaction Progress

Set Transaction Status

Wait Queue Item

System

Activities

Statements

Sequence

Expand All Collapse All

Get Row Item

row

Get Row Item

row

Add Queue Item

ItemInformation

Name	Direction	Type	Value
First_Name	In	String	row("First Name").ToString
Last_Name	In	String	row.Item("Last Name").ToString
Role	In	String	Arg_Role

OK Cancel

Properties

UiPath.Core.Activities.AddQueueItem

Common

ContinueOnError Specifies to cc

DisplayName Add Queue Item

Timeout (milliseconds) Specifies the amo

Input

Deadline The date before v

ItemInformation (Collection)

ItemInformationCollection A collection varia

Postpone The date after wh

Priority Normal

QueueName QueueName

Reference A reference for th

Misc

Orchestrator Folder Path Enter a VB expres

Private

Ui

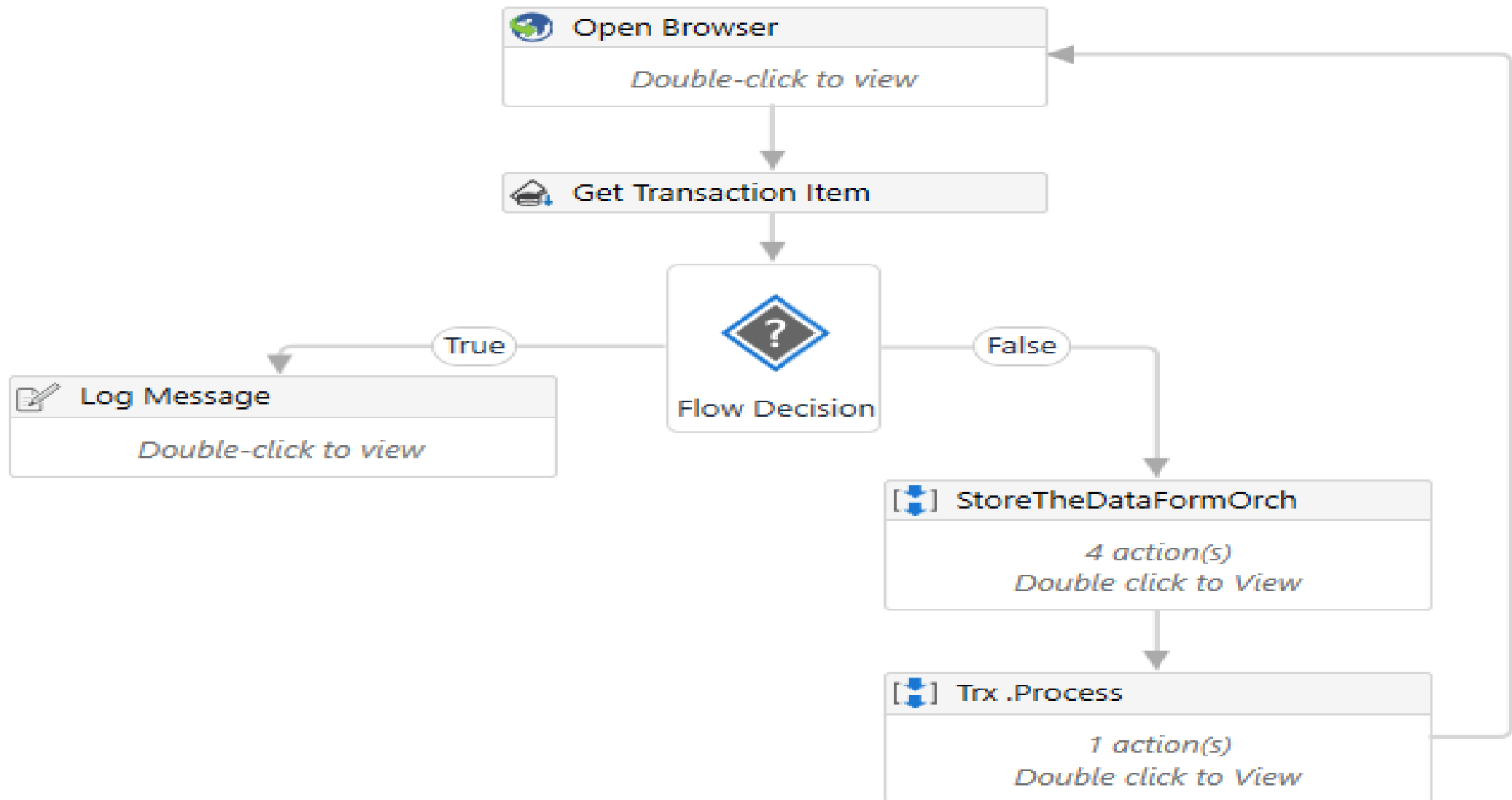
Queues1..xaml

Ui

Queues2.xaml

project.json

Orchestrator Not Connected Add To Source Control



THANK YOU..😊