Process Studio

**Process Studio** in Blue Prism helps in creating the graphical representation of a computer program that interacts with applications, helps with data manipulation and takes decisions as well performs calculations.

The Process Studio resembles other process modeling applications such as MS Visio.

The tool uses standard flow diagram symbols and notation, and graphically defines the steps in the robot’s process.

##### Object Studio

* The tool that captures user actions on a window or a screen is known as **Object Studio**. In other words, Object Studio helps to create the business objects graphically.
* A Process created using the Process Studio calls in these user actions to perform the desired task.

**Application control interface (ACI) defines the elements for each application screen and makes them available to the pages in the VBO**

**A Page Reference stage takes the Process from one page to the start of next page. Upon reaching the end, the Process comes back up to the Page Reference stage that called it.**

#### Main page cannot be referenced by other pages.

***Data items are similar to variables used for storing data.***

By default, it can be used by stages available on the same page they are defined, known as local Data Items.

To make it global, the property of Data Item must be modified, uncheck Hide from other pages in the Process checkbox.

##### Control Room

Though you can run a Process from the Process Studio, in production, they are not run in Process Studio.

Processes are run from Blue Prism`s Control Room.

A process will be available in Control Room only when it is published.

**What is a work queue?**

It is a list of jobs or cases, where information is required for the process to run.

New inputs will be fed into the queue, which is then updated with results after each input is processed.

##### **Work Queue Features**

* The same queue can be used by multiple machines retrieving different inputs at the same time.
* Queues will be monitored and maintained from Control Room.
* Metrics such as volumes, performance and exception details can be extracted from queue data.

Here is the possible data types allowed to be stored in Data Items.

***Number, Text, Flag, Date, Password (Used for sensitive data), Datetime, Time, Timespan, Image, Binary.***

UiPath is an RPA tool used for Windows desktop automation. **It features *three main products***:

* **UiPath Studio**
* **UiPath Robot**
* **UiPath Orchestrator**
* *UiPath Studio* - It is the **designer tool** used to create diagrams for business processes.
* *UiPath Robot* - It **executes the process** built on the UiPath studio (similar to a person).

It works either as an assistant or in a completely autonomous mode.

* *UiPath Orchestrator* - It is a **web-based management platform** that enables remote controlling, monitoring, release management and centralized scheduling of robots and processes.

What is a project?

It contains steps for the automation process. You can create a project by using three types:

Sequence

This is the smallest type of project and it follows a linear way of execution.

They can be reused.

Flowchart

It is similar to sequence, but it has multiple branching logical operators.

They can be used for large jobs as well as small projects.

State Machines

It has a finite number of states in its execution