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Blue Prism Tutorial

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Blue Prism is credited with creating robotic process automation (RPA). Learn what Blue Prism, its features, components, object studio, process studio, business objects, benefits, case studies, and other RPA tools are through this Blue Prism tutorial.

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Introduction to Blue Prism

Blue Prism, an expert in robotic process automation, is a UK-based software development business. Software robots that the organization provides assist in automating back-office clerical tasks in a human-like way.

> Blue Prism software makes it possible for corporate operations to be flexible and economical by automating manual, repetitive, rule-based back-office activities and increasing accuracy by creating a "Digital Workforce."

Each stage of the business process may be automated with the help of the RPA Blue Prism tool's drag-and-drop flow chart builder.

Specialized Features of Blue Prism RPA

Here are some of the well-liked Blue Prism RPA features:

- Centralized, scalable, and safe administration.

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- Complete automation solution to manage queues and distribute jobs.
- Load balancing, encryption, and audit.
- Centrally specified and managed robots.
- Wide variety of surveillance modes.
- It is easy to set up dashboards for outside analytics and monitoring systems.
- Support Microsoft Azure and Amazon AWS cloud deployment patterns.
- Screen captures can be saved by setting exception stages.
- Safely address resource processing problems when utilized in a production setting.
- Excel, XML, CSV, PDF, images, etc. may all be automated.
- There is no need to create any code when using the blue prism tool.
- It can automate Java, Mainframe, Web-based, and Windows Applications.

[**Blue Prism Syllabus PDF**](#)

Major Components of Blue Prism

Blue Prism is an RPA suite of libraries, tools, and runtime environments.

Every software robot consists of the following two fundamental components:

- Process Diagram
- Process Studio
- Object Studio
- Application Modeller

Process Diagram

Process diagrams are characterized as business process workflows that function as programs. As Blue Prism is a Java-based RPA tool, these flowchart-like diagrams may be created using fundamental programming techniques and ideas to design the whole operational workflow.

- These flow charts serve as little more than visual aids for creating, modifying, analyzing, and scaling business processes.
- We may apply automation in the same manner that humans would manually by using the processes included in workflows.
- These procedures, however, employ software robot logic and are predicated on the digital workforce.
- The software robots interact with the applications and system activities like those of humans, following instructions to complete tasks and achieve targets.

Process Studio

The "Process Studio" in Blue Prism is the section where we may design process diagrams. The way that each procedure is shown resembles a flowchart.

We can make a call from the process studio once the page is published. We build and test using the Process Studio.

It has fundamental components, including object calls, control loops, variables, and business logic. Each of these can be tested flawlessly and used in any order within a business flow.

Various Stages of the Process Studio:

- Link
- Block
- Process
- Page
- Action
- Decision
- Choice
- Calculation
- Multi Calculation
- Data Item
- Collection
- Loop
- Note

- Anchor
- End
- Alert
- Exception

Object Studio

Blue Prism's Object Studio is used to create various things. Visual business object or VBO creation may be done in Object Studio.

VBO was developed to work with other programs. The Object Studio allows for a variety of activities to be carried out on these objects.

This component has a single business object that provides an interface to communicate with a single external application.

The following is a list of the various Object Studio phases.

- Link
- Block
- Read
- Write
- Navigate
- Code
- Wait
- Process
- Page
- Action
- Decision
- Choice
- Calculation
- Multi Calculation
- Data Item
- Collection
- Loop
- Note
- Anchor
- End
- Exception

Application Modeller

The embedded feature of Object Studio is called Application Modeler. Generally, it is utilized alongside Object Studio to construct application models.

- It consists of the UI components and the configuration needed to interact with the current apps.
- Software bots recognize these elements based on predefined characteristics.
- To make each piece distinct from the others, the elements are updated and further modified.
- Subsequently, the software bots can communicate with these components and execute certain tasks on them.

[Blue Prism Interview Questions & Answers](#)

Blue Prism Architecture

The four components that comprise RPA Blue Prism's architecture are as follows:

- Process Studio
- Object Studio
- Control Room
- Release Manager

Process Studio

The most helpful component of the Blue Prism architecture is Process Studio. It helps companies design the most efficient procedures for automation.

It supports the Blue Prism tool's automation process design, development, testing, and modification.

Many components in Process Studio enable us to effectively automate intricate business processes. They are,

- The business object libraries are compared based on the needs of the project.
- Object calls, business logic, and control loops are combined to insert the operations.
- The process layer hierarchy provides further control over these actions.
- Users always have access to the sequence in which actions and activities are defined and tested.
- Drag and drop functionality is used to implement the actions and activities in a well-defined, sequential structural workflow representation.

Object Studio

It is mainly utilized when we need Blue Prism objects that have various uses. Usually, these reusable items are regarded as the fundamental components for automating intricate business procedures.

The purpose of these default objects is to automate routine system operations.

- Developers can immediately encapsulate all required interactions into the nodes.
- Any application may be readily modeled.
- It is being investigated to create numerous screens with the help of Object Studio's system components.
- These tasks include updating the fields, thoroughly validating the data, providing a description of the data, and so on.
- It has control over these activities and repeats them and an automation strategy is carried out with Object Studio.

Control Room

The command center is referred to as the control room. It can be applied to the digital workforce for scheduling, automating, controlling, and monitoring activities.

It enables us to manually inspect a process's beginning and completion, allowing us to choose particular data for in-depth statistics to guarantee correct operation.

- Certain lengthy operations can be scheduled for auto-execution when systems are optimal, which facilitates the execution of these processes in the control room.
- The software robots' current tasks, their speed, and their effectiveness are shown in real-time statistics and insights displayed in the control room.
- Additionally, it offers run logs that detail the precise tasks carried out by software robots.
- It will also include those activities and actions that were unable to be carried out for any reason.

Release Manager

In the Blue Prism architecture, the Release Manager is primarily in charge of carrying out tasks whose main objective is to release automated processes.

It includes information on packages that have been created and imported in the past.

- It comprises a tool for managing the import and export of configuration packages between various contexts.
- It provides visibility into packages that were imported into Blue Prism after being generated somewhere else.
- It offers the capacity to oversee updates for both recently established and active processes throughout the environment.

Difference Between Process Studio and Object Studio

There are significant variations, as follows:

- Some "stages" accessible in Object Studio are not present in Process Studio.

- Although Object Studio lacks the main page, it does feature two default pages.
- Unlike in Process Studio, where pages are arranged in a hierarchy, they are arranged in a flat group.

Publishing the pages of Object Studio

Using the procedures listed below, we can publish the object studio pages:

- Create the business object.
- Launch the actions for the Business object.
- Release the object studio.
- We can launch the process from the Process Studio after it has been published.

Blue Brism Salary

Benefits of VBO Development

- Scalability and Consistency
- Bot generation for future operations takes less time.
- Updates to the system only needed to be made once, not for each process.
- Bot maintenance is made simple.

Business Objects of RPA Blue Prism

Any company would require a genuine process to do certain practical activities and to do so, it would need to integrate with external apps.

- The business object diagram, which is a distinct diagram from the process diagram, always contains the interface to an application.
- A business object is never set up in Process Studio;
- It takes place in Object Studio, a separate environment.
- Offering an interface to a single application is the primary goal of a business object.
- A business object is never utilized

independently and is not accessible to the control room. Instead, a process always makes use of it.

Benefits of Blue Prism

The following are some of Blue Prism's primary advantages:

- IT expertise is not required to execute it.
- It is simple to apply and only takes four to six weeks.
- Robust analytics suite with many new features.
- Offers the best ROI possible, huge payback, and self-funding returns.
- Automates the application's controls and fields, regardless of where they are on the screen, to boost the speed of the bot.
- To increase efficiency and interaction between humans and robots, custom digital front-ends link front-office staff with back-office automation.
- You may expand RPA to systems and processes that require double-byte, such as Asian languages, due to support for double-byte character sets.
- Using multi-tiered encryption algorithms, you may connect to the internet, store data, and access it securely.
- Enterprise-wide Password Vaults for consistent enterprise-wide credentials with certified CyberArk Credential Management
- For a secure robotic automation process, the Custom Permissions feature enables user-specific access to robot groups, robots, and processes.
- The upgraded control room provides real-time information on robot status and enables you to have a full understanding of the digital workforce.
- Create fully automated, high-performance business operations.

Use Cases of Blue Prism

Here are two well-known use cases of Blue Prism Implementation:

First Case: National Retail Bank

It enables users to do the interbank transfer using Blue Prism in approximately 20 seconds, as opposed to a 10-minute manual method.

Result: 130 procedures were automated, 100 robots were deployed, 200 + FTE were saved, and an audit was completed in 1 minute as opposed to roughly 8 hours on a typical workday.

Second Case: Global Telco

Telco released the RPA software in 2013. They desired to streamline their back-office activities.

Using the capabilities of Blue Prism RPA, 15 major procedures were covered, and 1,000–1,200 FTE were replaced each month with 400–500k cases, 160 decoyed robots run by a trio of three, and a 12-month repayment period with 3 years of ROI of 650-800%.

Other Popular RPA Tools

- Automation Anywhere
- UiPath
- OpenSpan
- Work Fusion

In Sum Up

- Robotic process automation (RPA) software development firm Blue Prism is situated in the UK.
- It is a full automation system that facilitates queue management and task allocation.
- Visual Business Objects may be created in Object Studio. Additionally known as VBO
- Every software robot consists of two fundamental components: Process Studio, and Object Studio 2.
- Process Studio, resembles a conventional

flowchart in appearance. It is a location where a real process is developed.

- The main advantage of the Blue Prism RPA tool is that it is simple to use and takes only 4 to 6 weeks.

Blue Prism Training

Conclusion

We hope this Blue Prism tutorial provides you with a basic understanding of robotic process automation. Enrich with in-demand RPA skills at our **Blue Prism Training in Chennai.**

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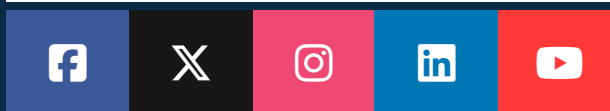- Embedded
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