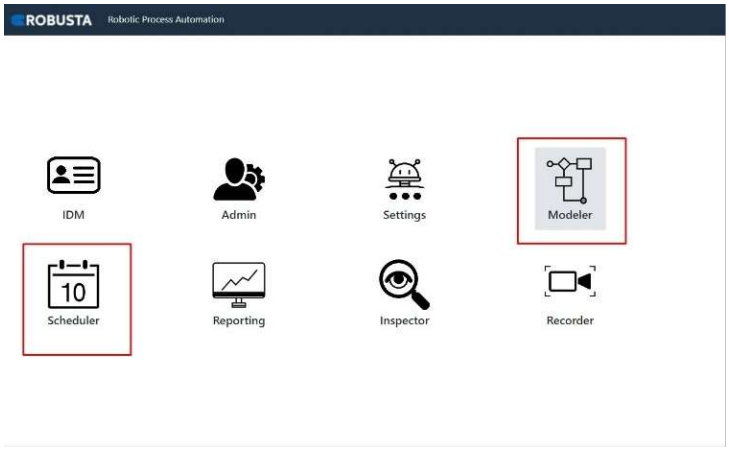
Introduction to sample process design with Robusta RPA

In this paper we will show you the use of the Robusta RPA design studio and its interfaces by designing a simple RPA (Robotic Process Automation) process.

- **In this sample process, we will open the Youtube website and wait for 5 seconds and then close it.**



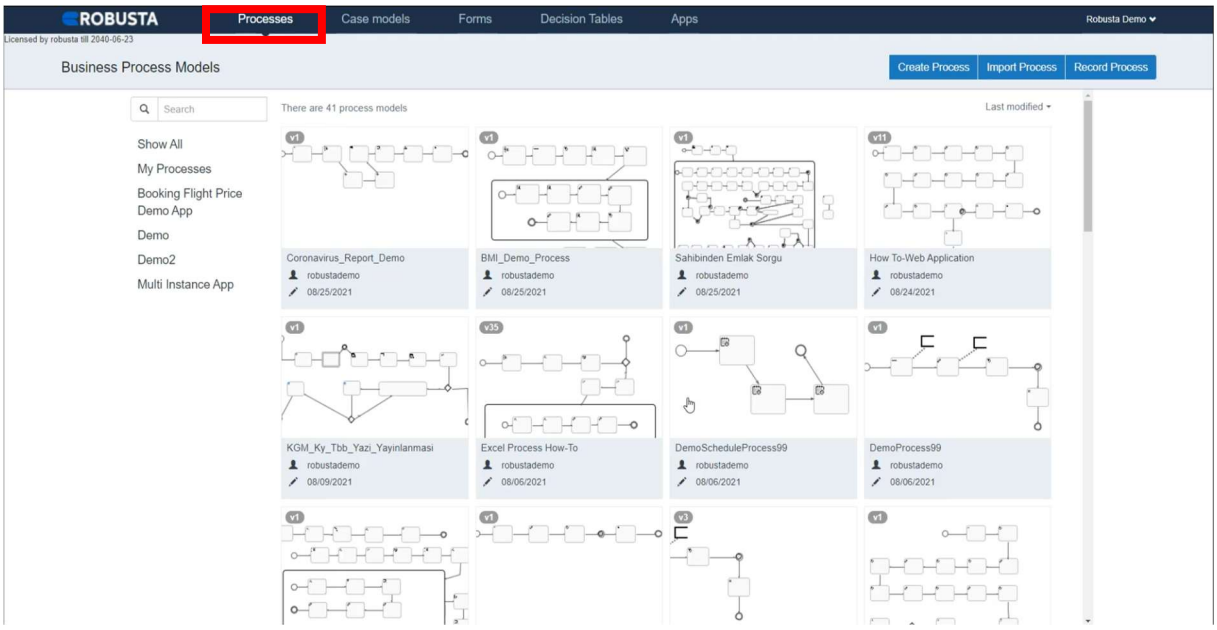
***Modeler(Design Studio) : Robusta design studio is the main component in which business process are trained to robots.It offers process design with no code approach.**

***Scheduler : With scheduler you can manage robots time based, prioritize processes among robots.**

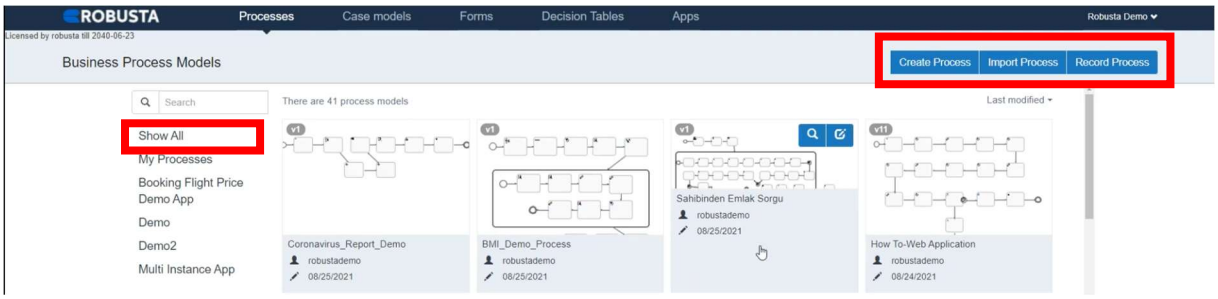
Community Edition Modeler(Design Studio) and Scheduler

***Use the same username and password used to connect Robusta orchestrator.**

- **The Processes tab that appears when you log in contains the menus to create, import, search and edit processes. On this page, you can see that all previously designed processes are listed.**



- **You can use the "Show All" option to list all processes by removing any applied filter. The Create Process button in the upper right corner allows to create a new process, and the Import Process button to import the processes that we have exported from other Robusta Orchestrator environments.**



- **To create a process, you need to click Create Process button, fill necessary fields and then, click Create New Model button. In the "Model name" field, we give our process a short descriptive name. This name is displayed by end users on the process start and monitoring pages and can be updated at any time.**
- **In the "Model key" field, we enter a key value for our process. When calling our process as a subprocess from another process, we use the "Model key" value. If the "model key" value changes, the processes that call this process must also be updated. That's why we don't usually change the "Model key" value after we create our process. “Model key” is not displayed by end users on process start and monitoring pages. Please be aware that special characters and spaces are not allowed when naming the model key.**
- **In the Priority field, we can assign a priority value to our process by entering a positive number. Doing so, we can determine which of the jobs waiting in the queue will be processed first. If value “1” is assigned high assumes highest priority process, while a larger number should be entered for lower priority processes. In this process, we will leave this field with the default value of 50.**
- **In the Human effort field, we can enter the information about how long it takes a human to perform the operations in our process.**

Create a new business process model

You need to give a name for the new model and you may want to add a description at the same time

Model name

Youtube Process

Model key

youtubeProcess

Priority

50

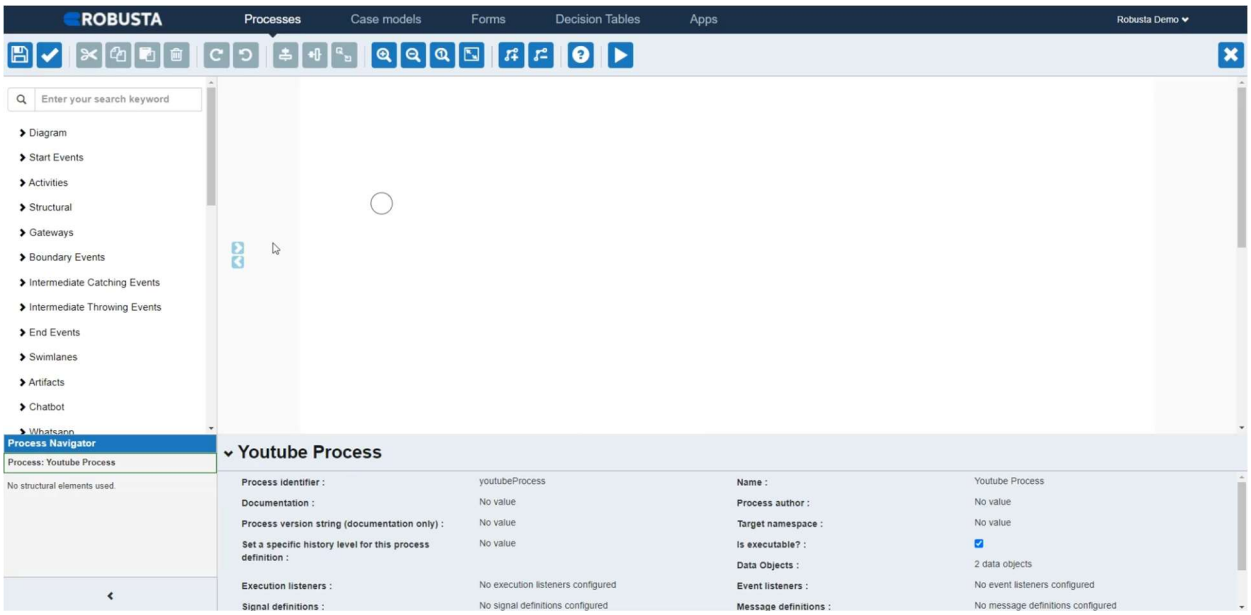
Human effort (in minutes. E.g. 4.5)

0

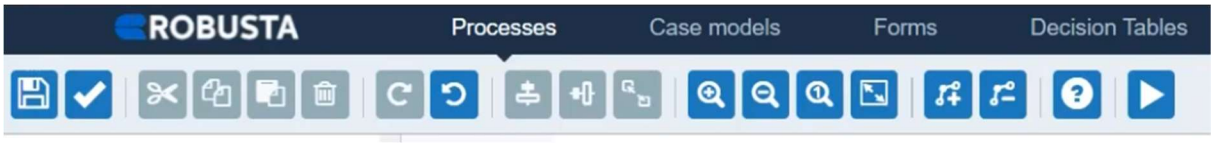
Description

Cancel | Create new model

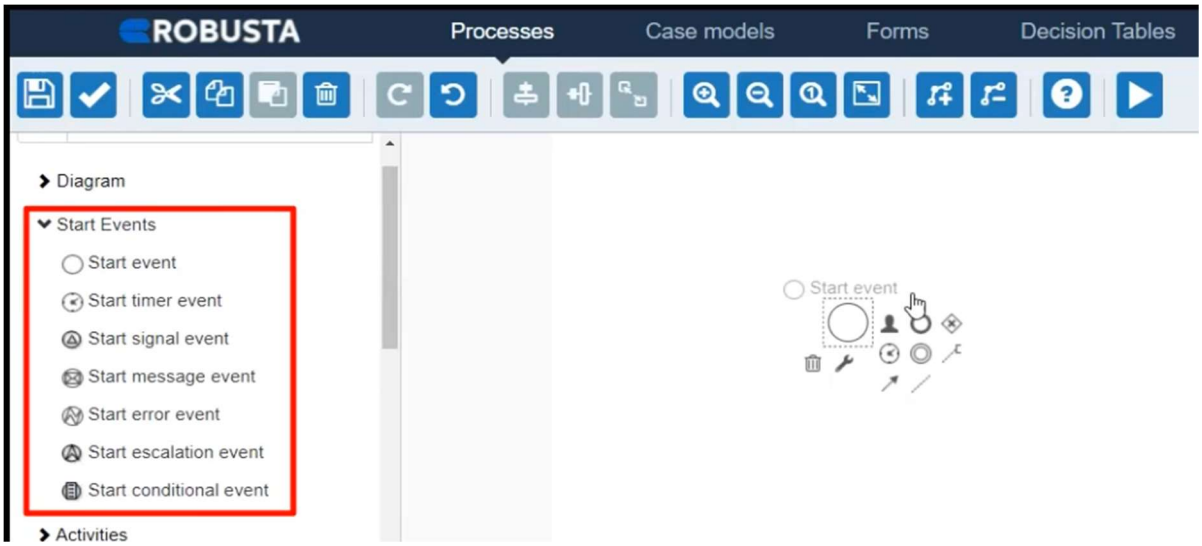
- **The following screenshot shows process design studio. On the left pane, you see BPM (Business Process Mapping) and RPA (Robotic Process Automation) components all together. On the right side, you see the canvas where we generate process flow.**



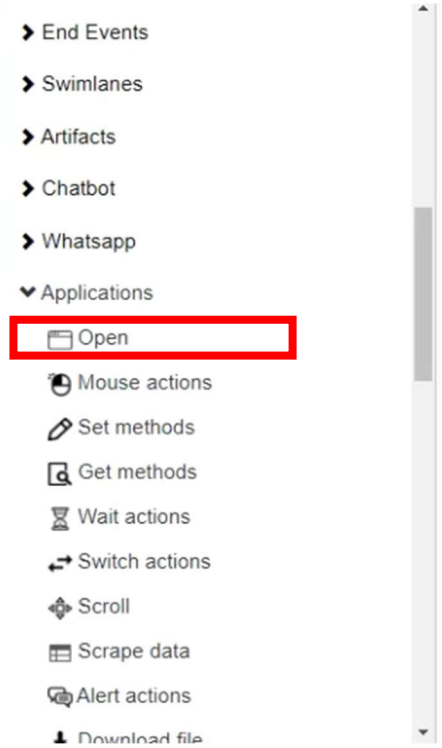
- **At the top, you can see the toolbar with shortcuts. By using the buttons in this section, you can perform operations such as cutting, copying, pasting, deleting the activities in the process flow, undoing what you have done, zooming in and out of the design area. Also, you can run your processes by clicking the "Run" button here for testing purposes.**



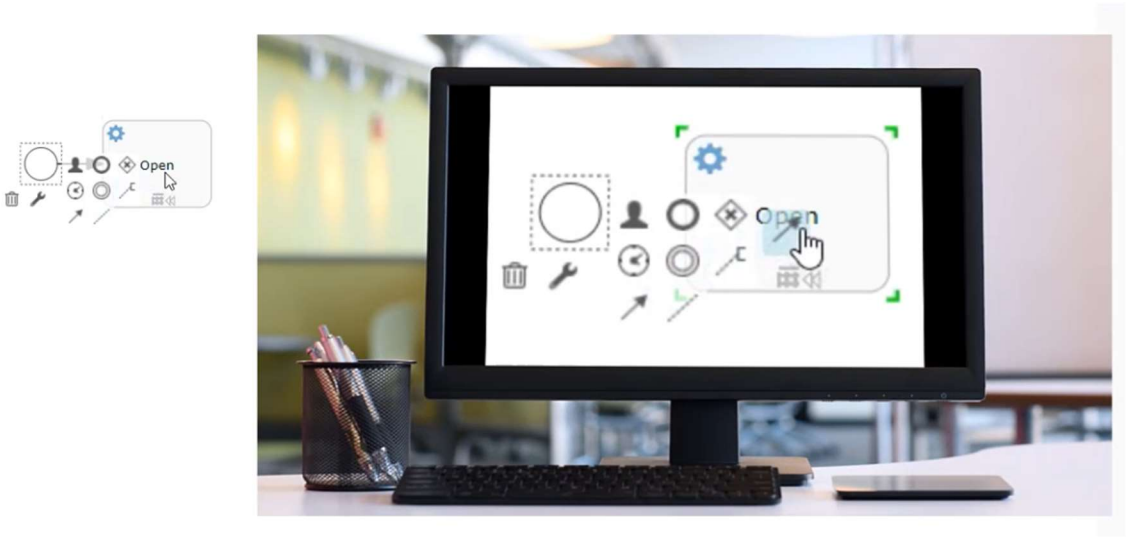
- **Processes should include only one start activity and at least one end activity. When you need to add it, you can add this activity to your process by drag and drop of “Start event” activity under the Start Events section.**



- **As the next activity in our process, we will use the Open activity under the Applications section to open the Youtube website. You just need to drag and drop a selected activity onto the canvas.**



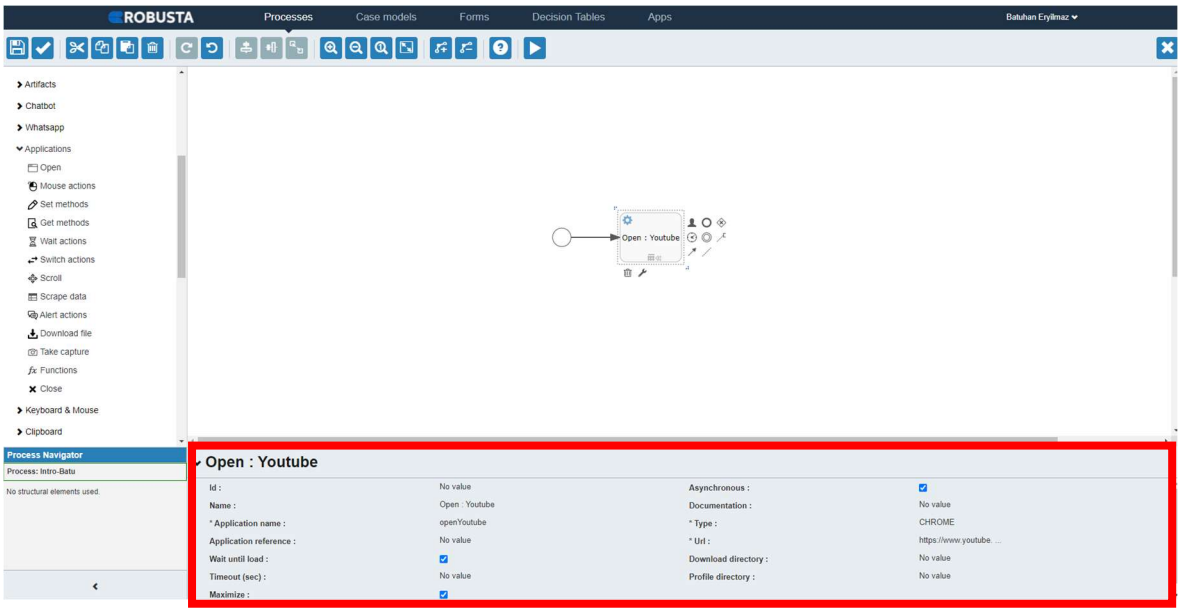
- **To define the flow, you need to connect the activities to each other by using arrows. For this, we select the Start Event activity and drag the arrow icon from the shortcut activities displayed on the right and hover over the Open activity. When green appear around the activity, it is ok to drop the arrow.**



- **After the drag and drop, some mandatory fields(marked with *) have to be filled. For example, the values for Open activity under 'Applications' may be set as given at the following table:**

Name	Open : Youtube
*Application Name	openYoutube
Type	CHROME
*Url	https://www.youtube.com/

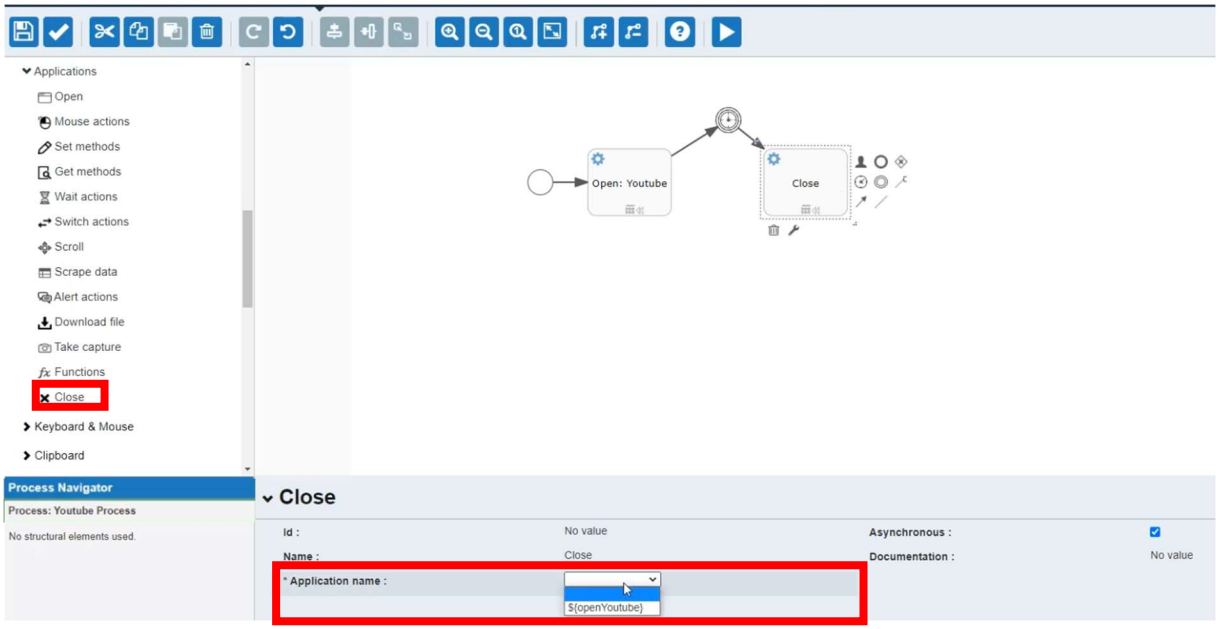
P.S: In this field special character constraits is important, only letters and numbers are recommended



- **In the next step, we want to wait 5 seconds after the Youtube website is opened and then close it. So, we will use a timer activity. You can find the timer activity in the shortcuts.Just drag and drop it to the space.**

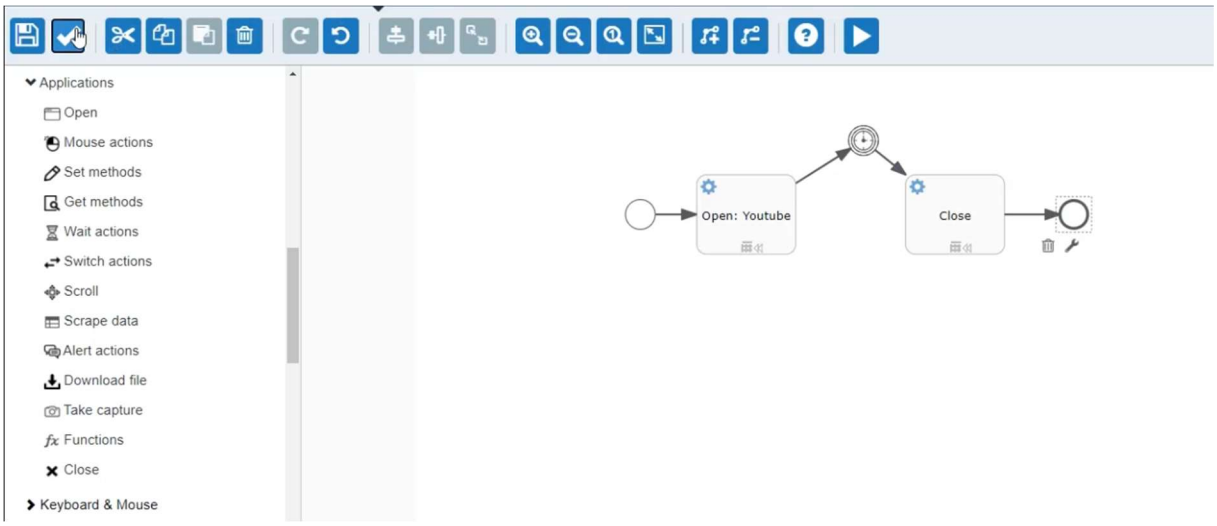
- **Since we want to wait 5 seconds after the website is opened, let's write PT5S in the Time duration field.**

- **In the next step, we will add the Close activity in the Applications section to close the opened website. In this activity, we select the reference name of the application that we want to close from the list.**

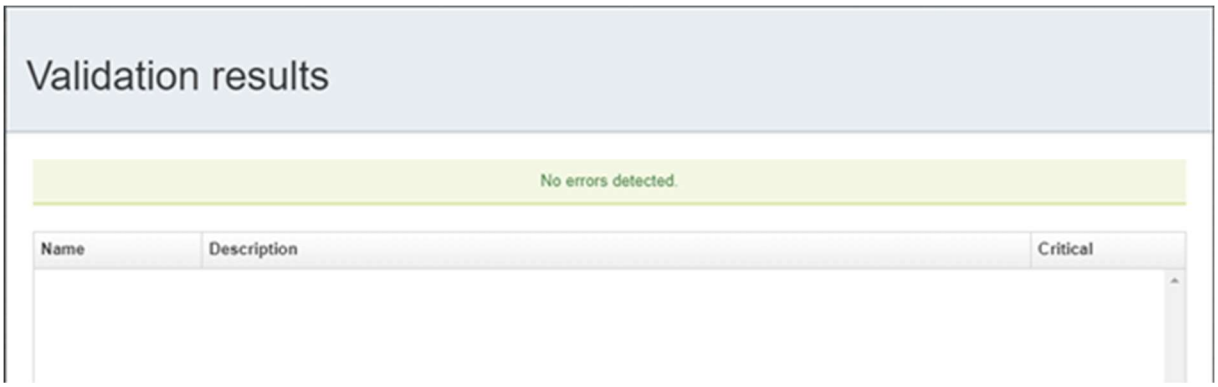


Name	Close
*Application Name	${openYoutube}

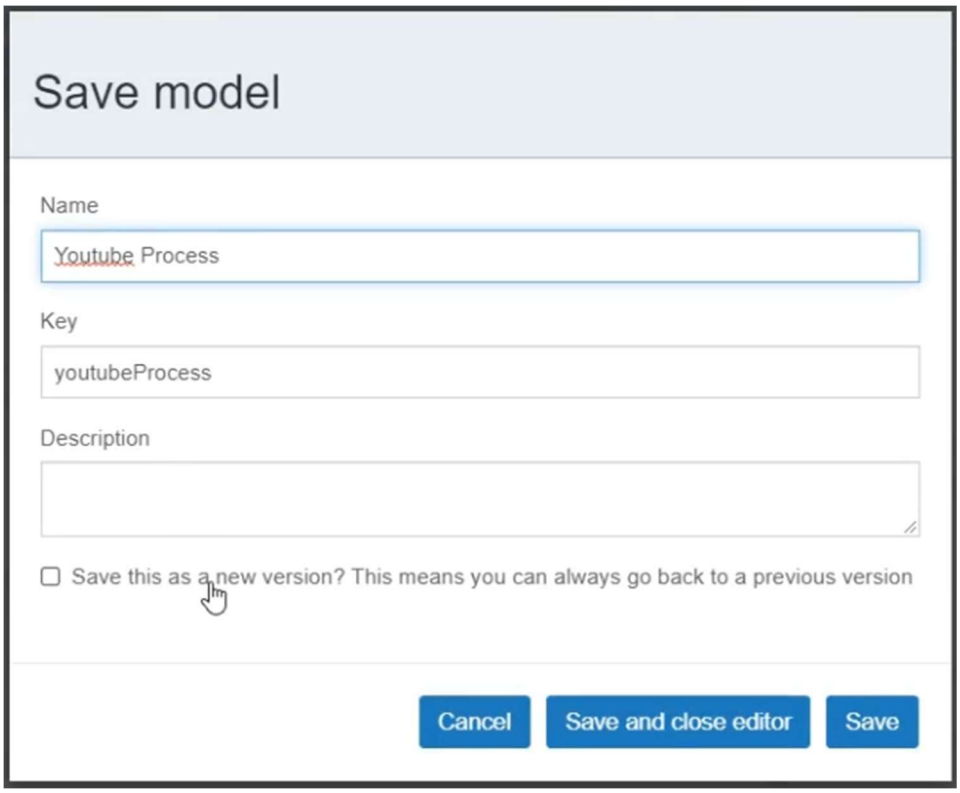
- **Finally, let's use an End Event to complete our process flow and validate and save our process.**



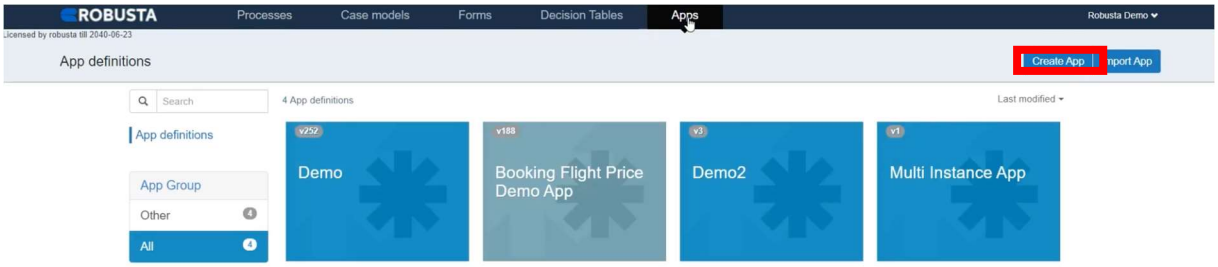
- **After you completed the process flow, validate the model by clicking validate ( ) button.**



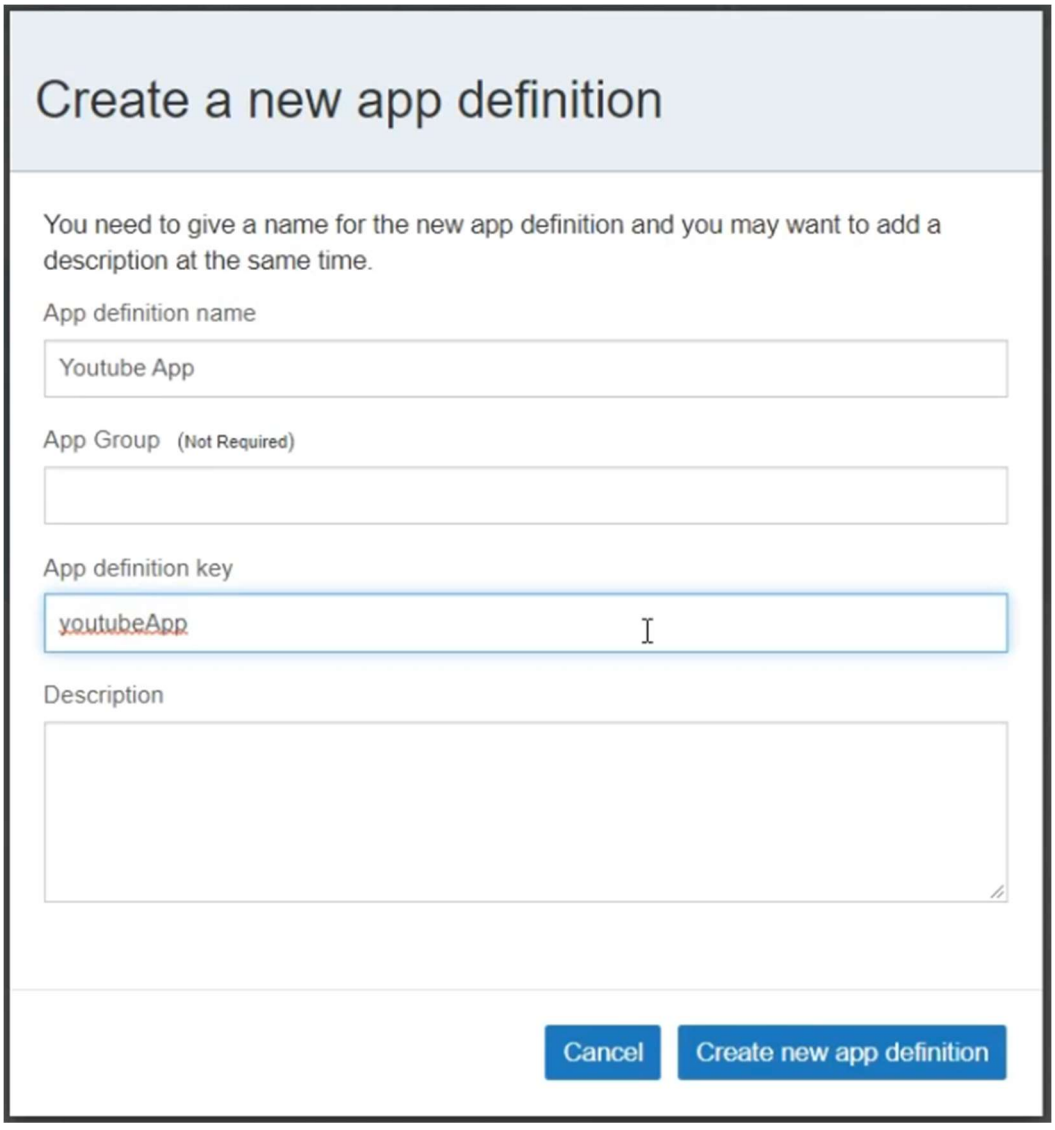
- **After you validated the process flow, save the model by clicking save ( ) button. If we select the "Save this as a new version" option here, and save our process, we will create a new version by preserving the last saved version of our process. Then, we will have the chance to revert to an old version whenever we want.**



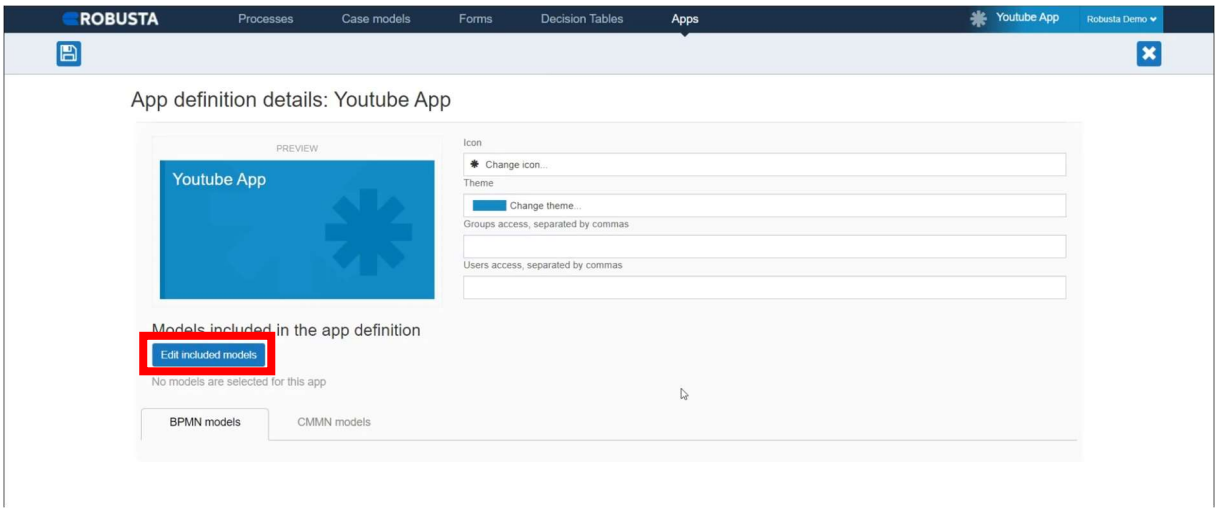
- **After saving a process, this process should be included in an App to be run. In Apps tab, you will find the menus to create, import, edit apps.**

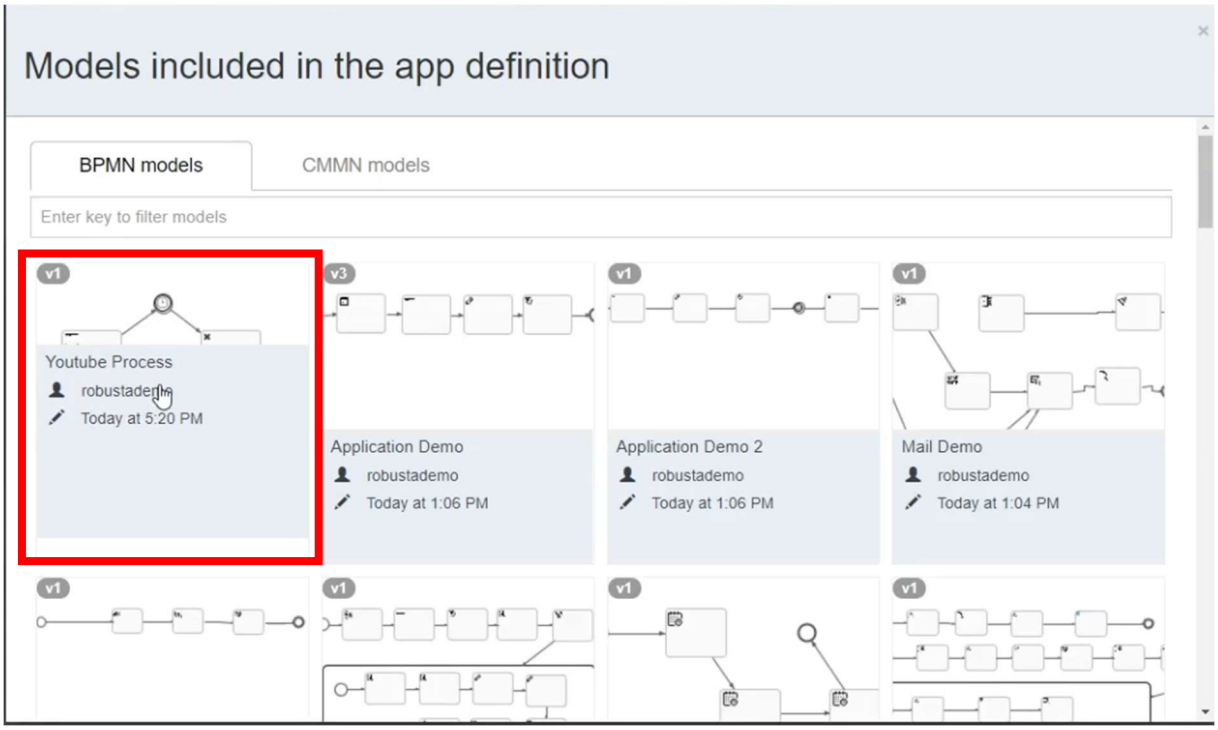


- **To create a App, you need to click Create App button, fill necessary fields and then, click Create New App Definition button.**

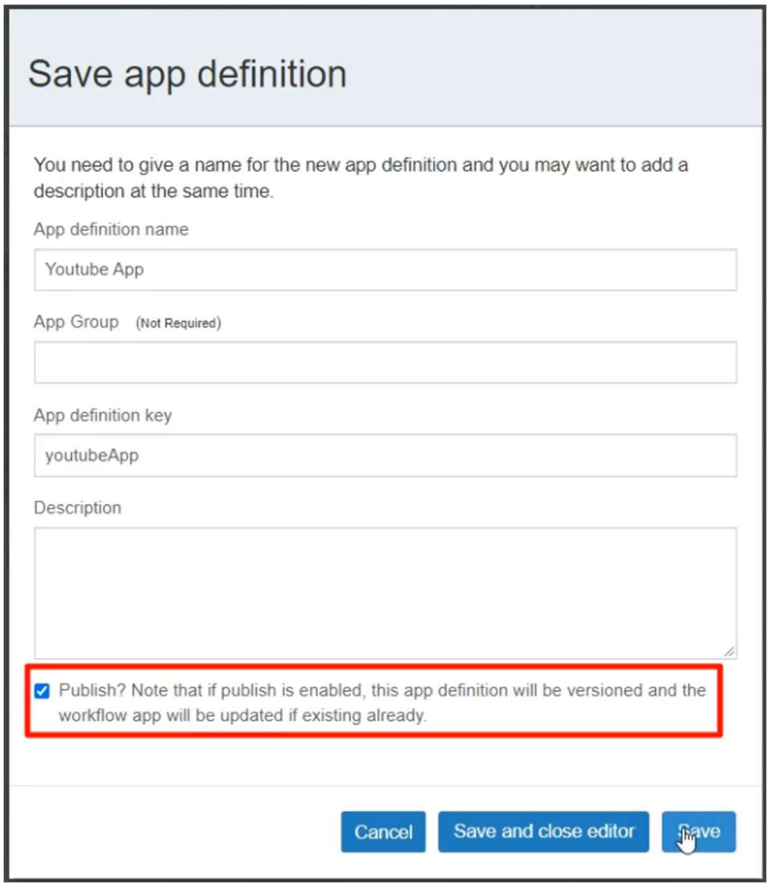


- **Click ‘Edit included models’ button and select the process to be included in your app(check blue mark when selected). Then, click any space out of popup window to close it.**

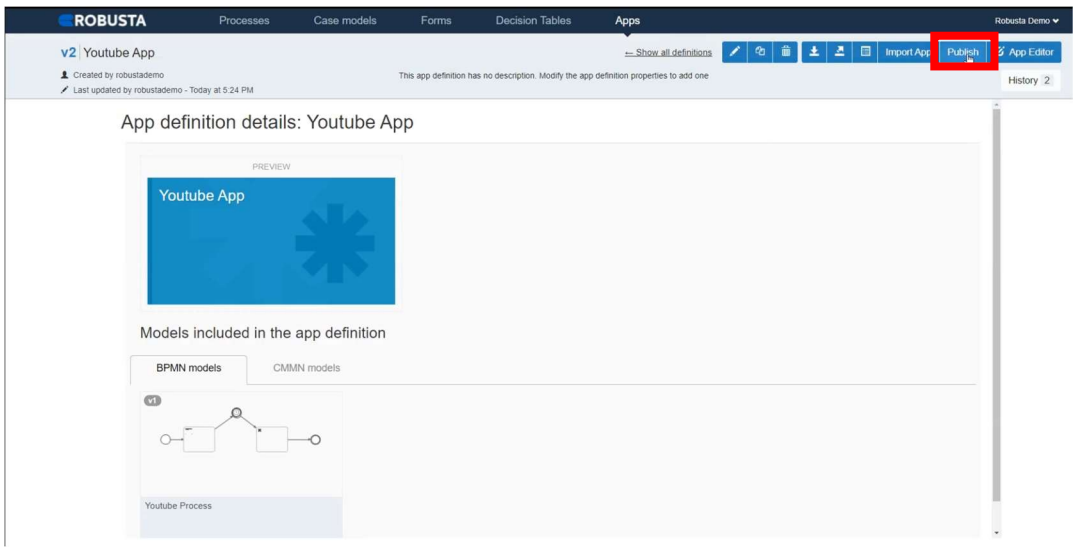




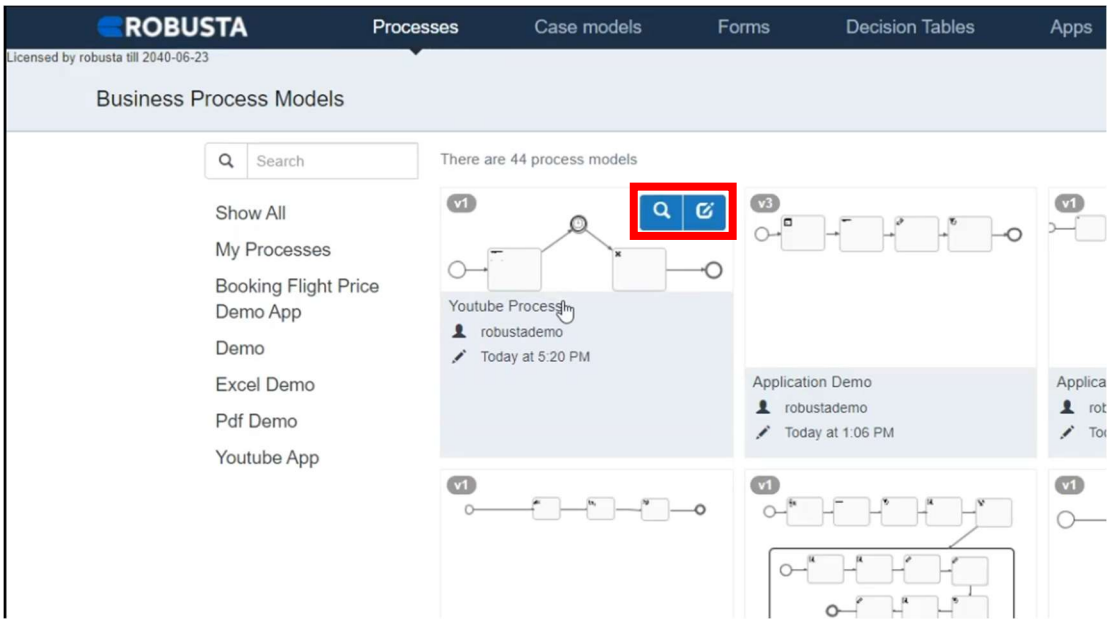
- **Let's save our process by clicking the save button () at the top left. At the same time, since we need to publish the App we created, let's click the Save button after selecting the Publish option.**



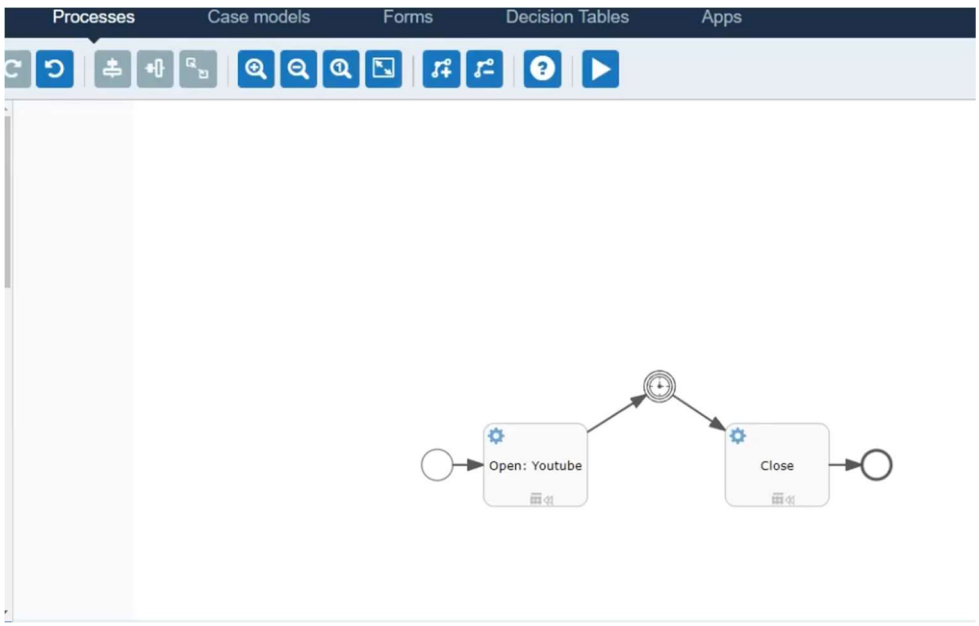
- **You can also publish an App by clicking the "Publish" button after clicking the App you created at the bottom of the Apps page.**



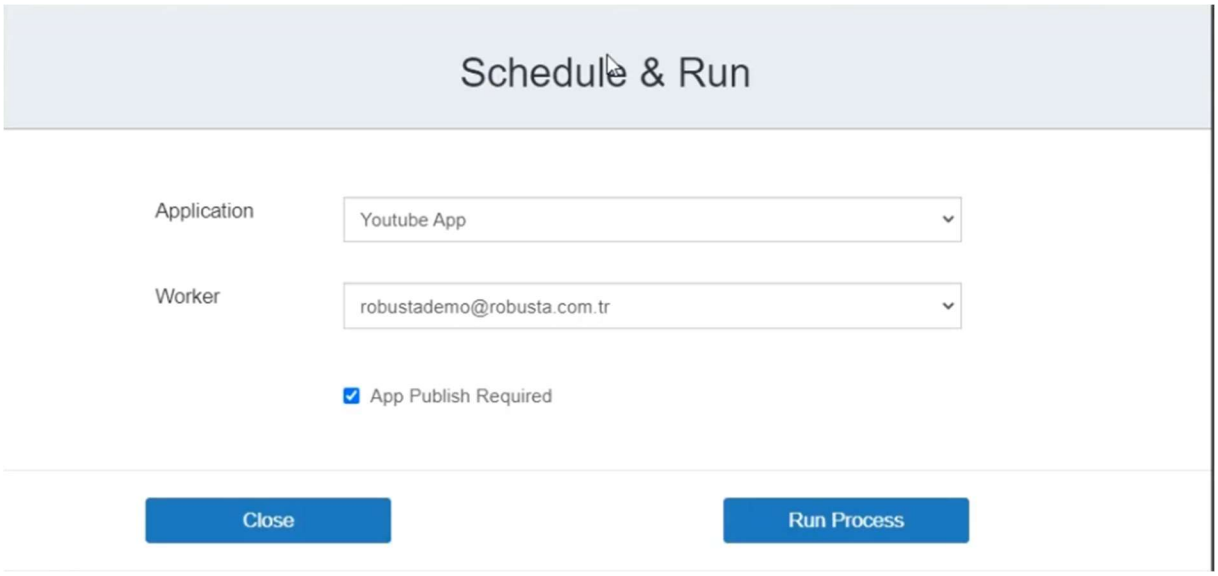
- **Let's go back to the Processes tab. We see our process in the first place since it is the last updated process. When we hover over our process, two buttons are displayed at the top right. By pressing the button on the right, we can access the process design editor directly. By clicking the button on the left or clicking anywhere on the box, we can view the details of our process.**



- **To run the process, select your process and click play ( ) button.**

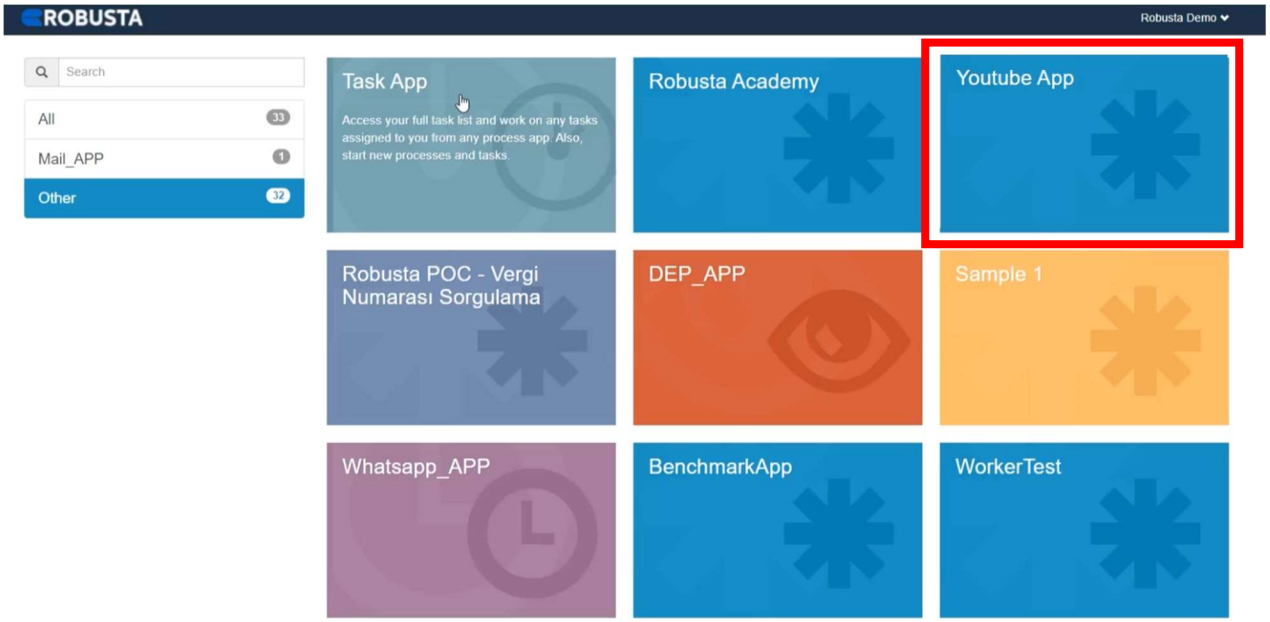


- **Select your app and your worker on the popup screen. Then click “Run Process” button. Once you see ‘Process Successfully scheduled’ message on the screen, your process is scheduled will be picked by Scheduler to be sent to your worker.Also it is important to select “App Publish Required” check box, to be sure newly Published version will be Run.**

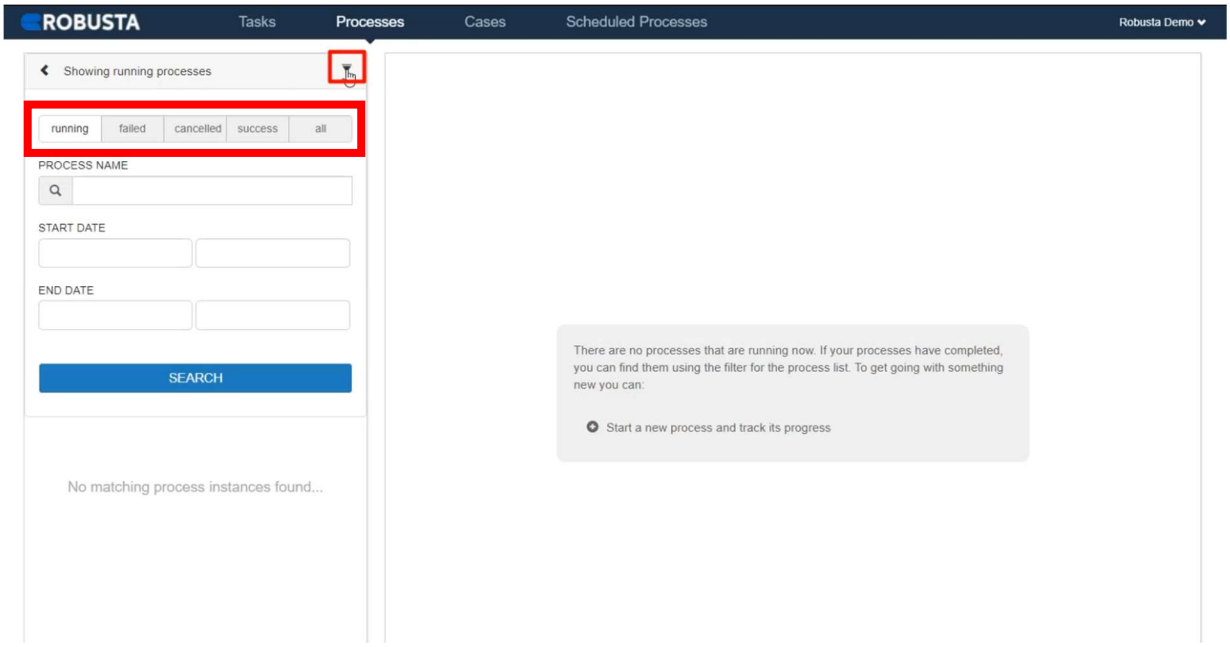


Monitor Scheduled Processes with Robusta Scheduler

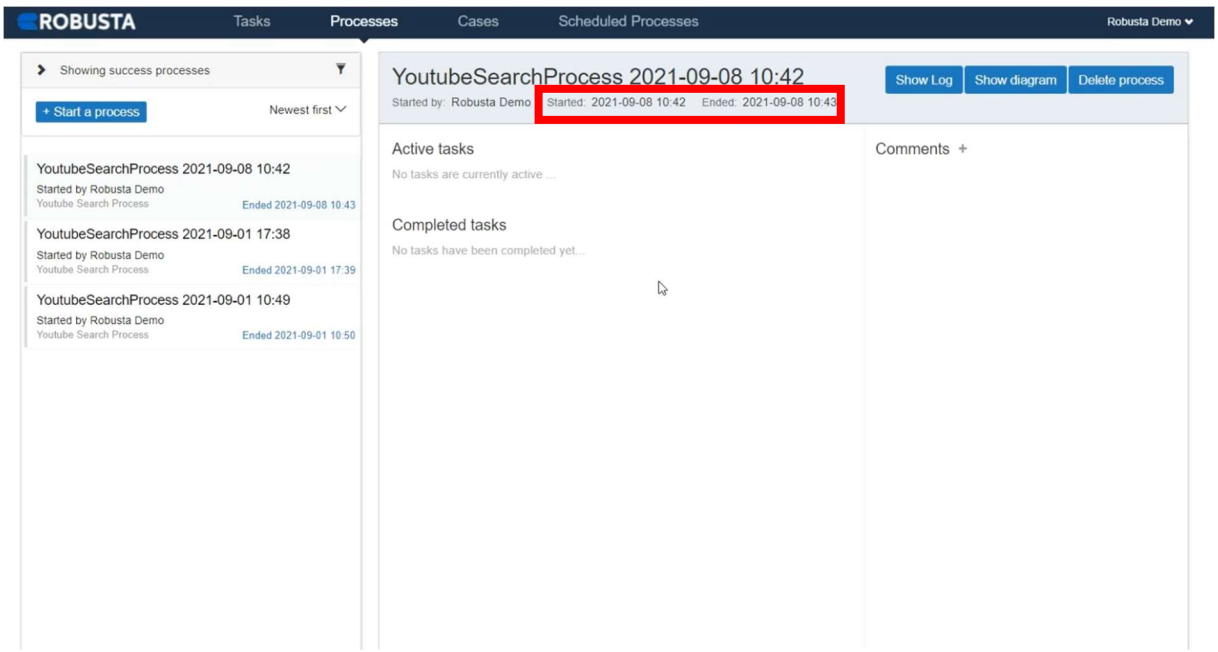
- **You can open Scheduler module. Then, select your app to monitor scheduled processes in this app.**

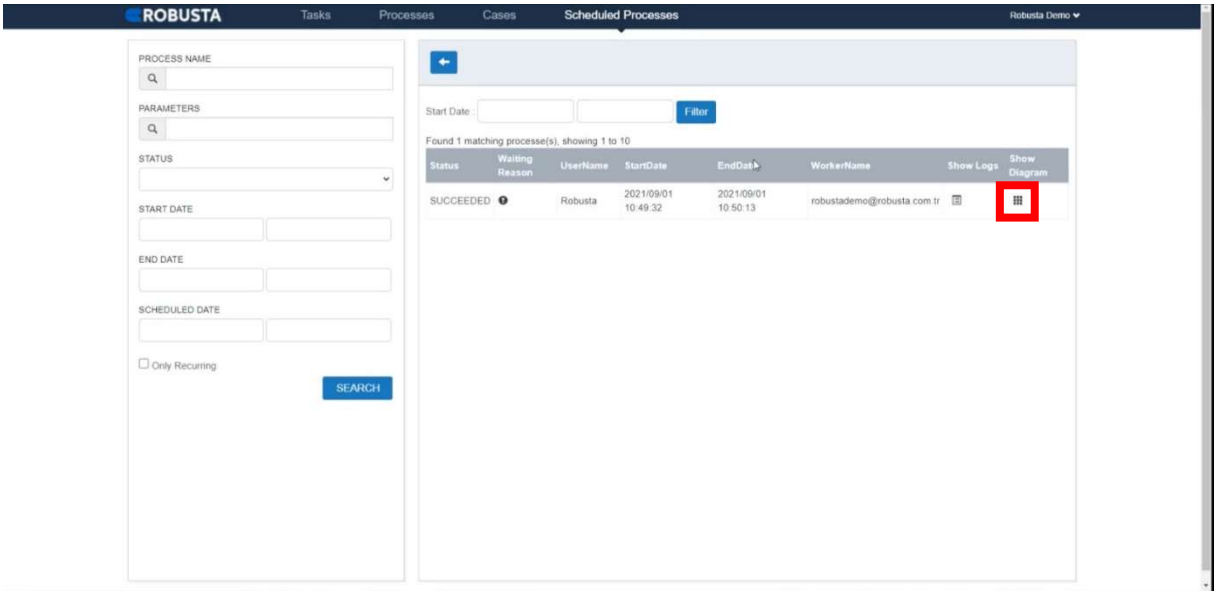


- **By pressing the filtering field on the Processes page, you can list your processes and filter by success status.**

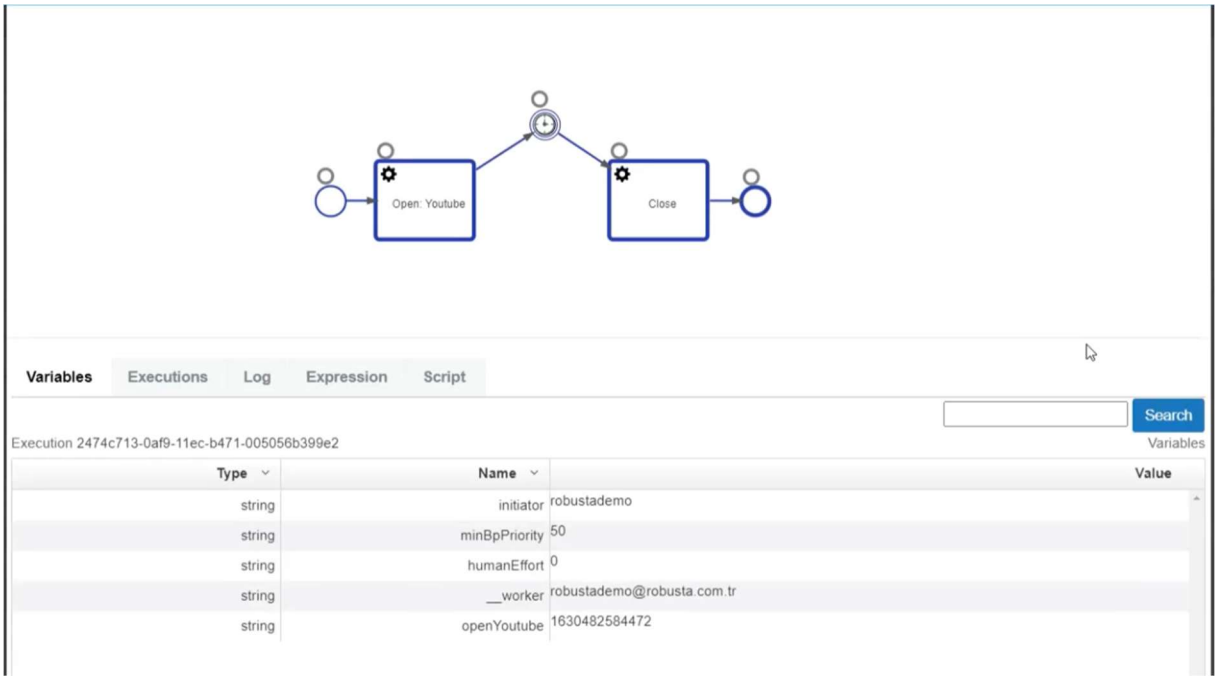


- **Here we can see the start date and end date of the process. Also we can see the process did not have any errors.**

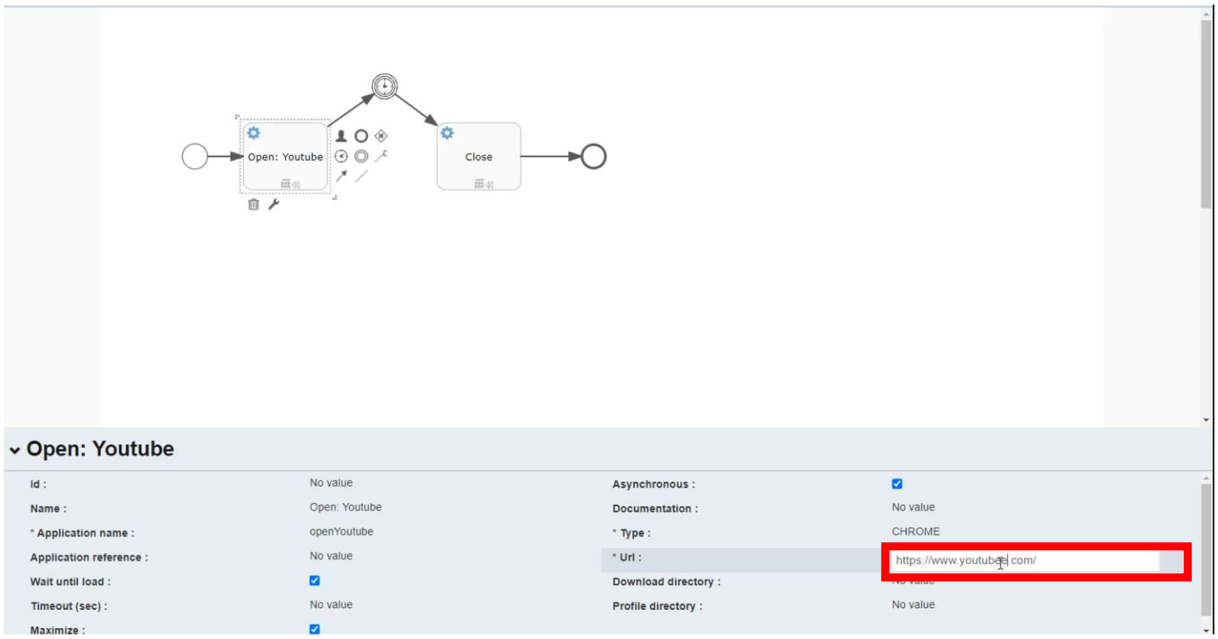




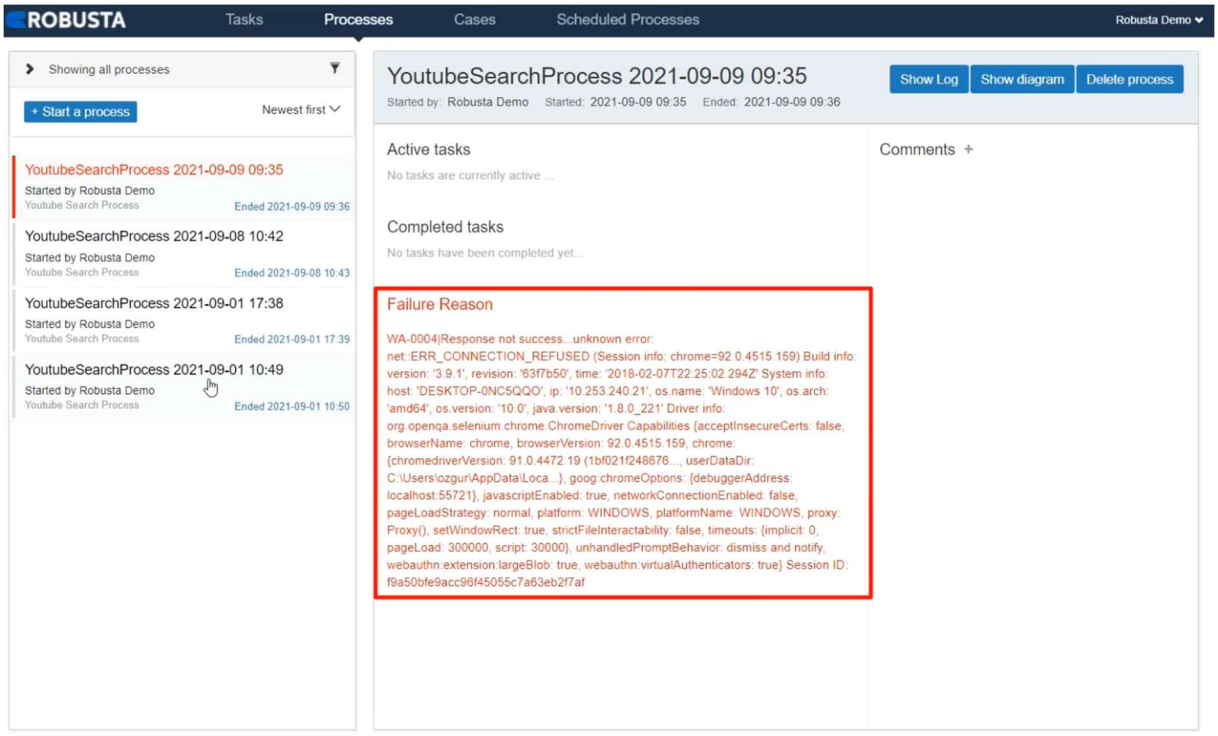
- **When you click Show Diagram icon, the flow diagram is shown, and the path followed is seen as blue. Also, the values of the variables defined in the process is available at this page.**



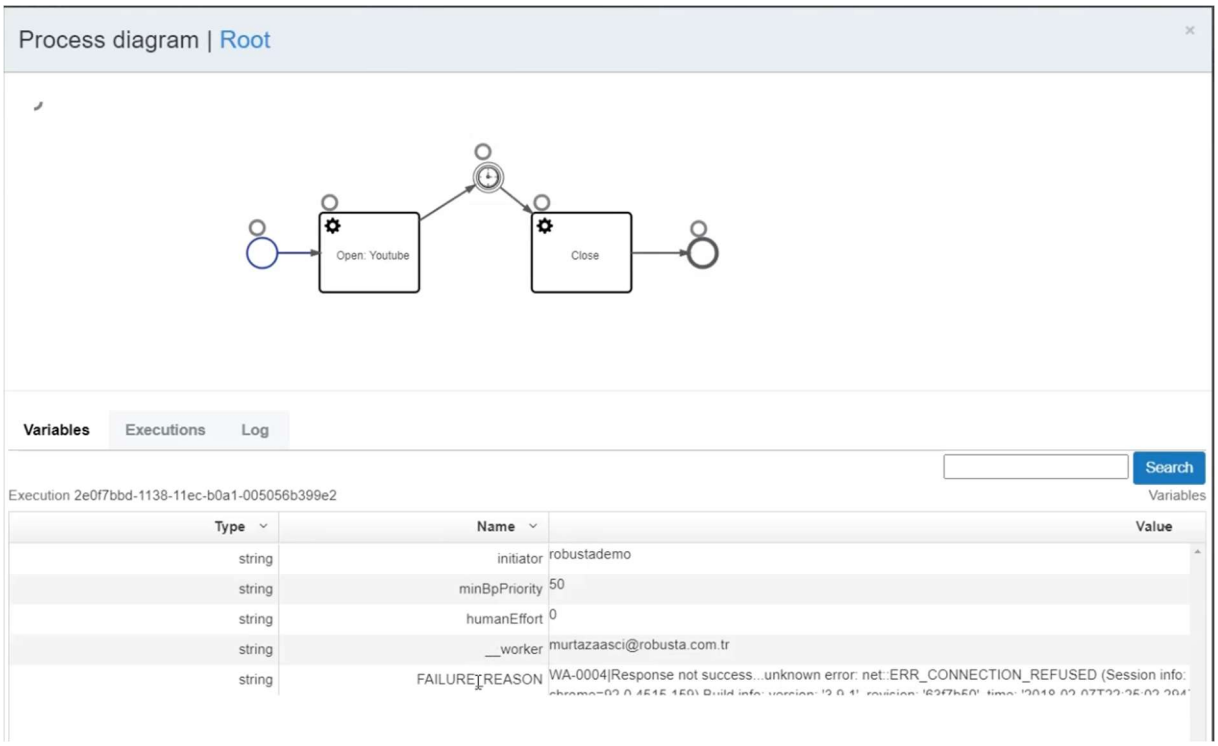
- **Now let's enter an invalid URL(https://www.youtubee.com/) into the open activity to test, so the process gets an error, and we can see the error message on the processes page.**



- **As you can see, the process got an error, and an error message appeared at the bottom of the processes page.**



- **When you click the Show Diagram icon, we see the Open : Youtube box is not blue. This indicates that the process failed. As you can see, the error message is here as well.**



As we experienced together we have learned the use of the Robusta RPA design studio and its interfaces by designing a simple RPA process .See you next time.