UiPath Forms

What is UiPath forms?

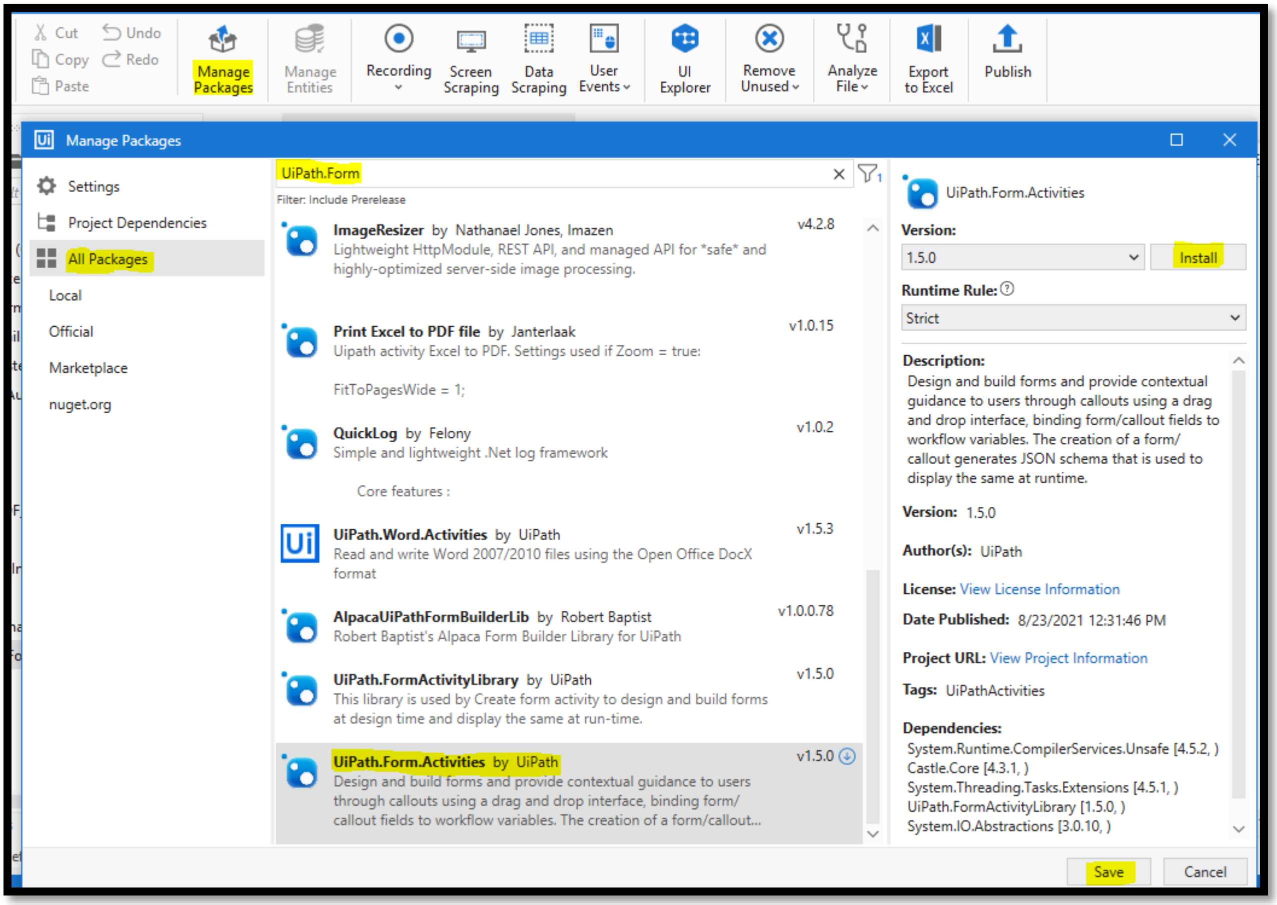
Attended robots help human workers speed up front-office tasks triggered by user commands or needing human directions.UiPath Forms are **key to enabling human intervention, validation, and interaction with the** robot process.

Step1

Open UiPath Studio and create one new process

First Install UiPath.Form.Activities n Studio

Go to Manage Package→All Package→Search UiPath.Form.Activities install and Save



UiPath.Form

Filter: Include Prerelease

ImageResizer by Nathanael Jones, Imazen v4.2.8
Lightweight HttpModule, REST API, and managed API for *safe* and highly-optimized server-side image processing.

Print Excel to PDF file by Janterlaak v1.0.15
Uipath activity Excel to PDF. Settings used if Zoom = true:

FitToPagesWide = 1;

QuickLog by Felony v1.0.2
Simple and lightweight .Net log framework

Core features :

UiPath.Word.Activities by UiPath v1.5.3
Read and write Word 2007/2010 files using the Open Office DocX format

AlpacaUiPathFormBuilderLib by Robert Baptist v1.0.0.78
Robert Baptist's Alpaca Form Builder Library for UiPath

UiPath.FormActivityLibrary by UiPath v1.5.0
This library is used by Create form activity to design and build forms at design time and display the same at run-time.

UiPath.Form.Activities by UiPath v1.5.0
Design and build forms and provide contextual guidance to users through callouts using a drag and drop interface, binding form/callout fields to workflow variables. The creation of a form/callout...

UiPath.Form.Activities

Version: 1.5.0

Runtime Rule: Strict

Description:
Design and build forms and provide contextual guidance to users through callouts using a drag and drop interface, binding form/callout fields to workflow variables. The creation of a form/callout generates JSON schema that is used to display the same at runtime.

Version: 1.5.0

Author(s): UiPath

License: View License Information

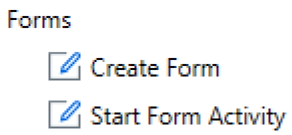
Date Published: 8/23/2021 12:31:46 PM

Project URL: View Project Information

Tags: UiPathActivities

Dependencies:
System.Runtime.CompilerServices.Unsafe [4.5.2,)
Castle.Core [4.3.1,)
System.Threading.Tasks.Extensions [4.5.1,)
UiPath.FormActivityLibrary [1.5.0,)
System.IO.Abstractions [3.0.10,)

Form Activities in UiPath

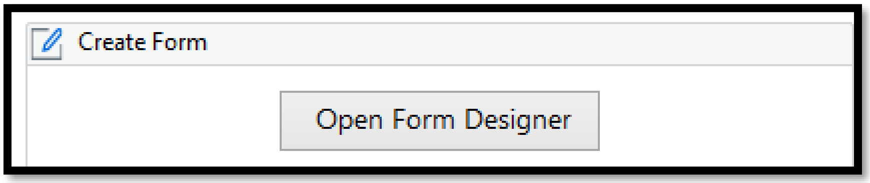

Forms

- Create Form
- Start Form Activity

Using UiPath Form Writing Data into Excel

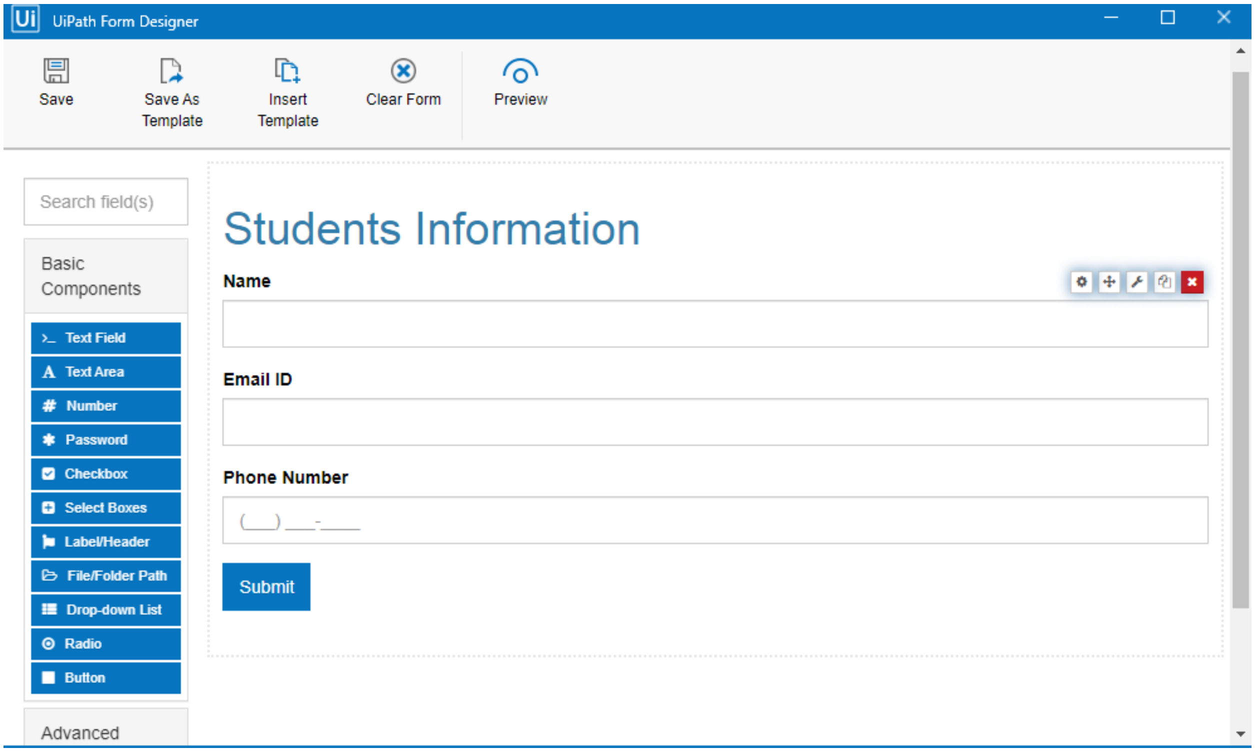
Step1

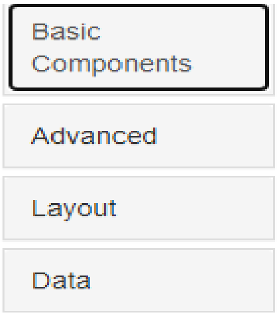
Drag and Drop Create Form Activity From Activity Panel to Designer Panal in order to create a custom Form

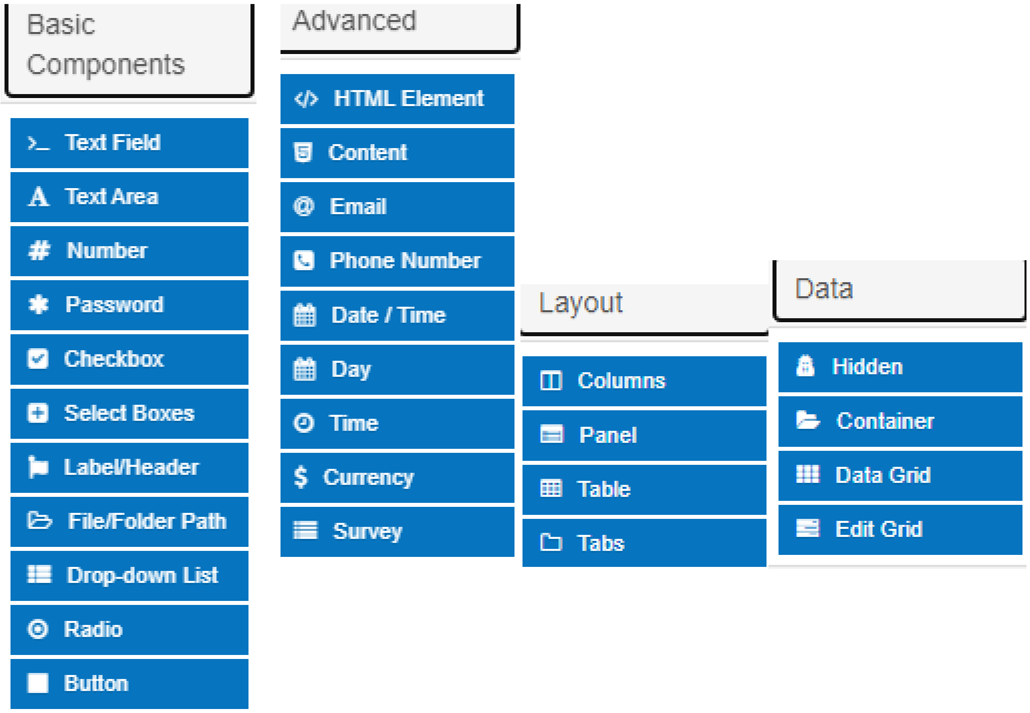


Once I Click on Open Form Designer the below Pop Up will Appear

The form you configure retrieves all the data the end user inputs and stores it in variables which can be further used in the automation process.



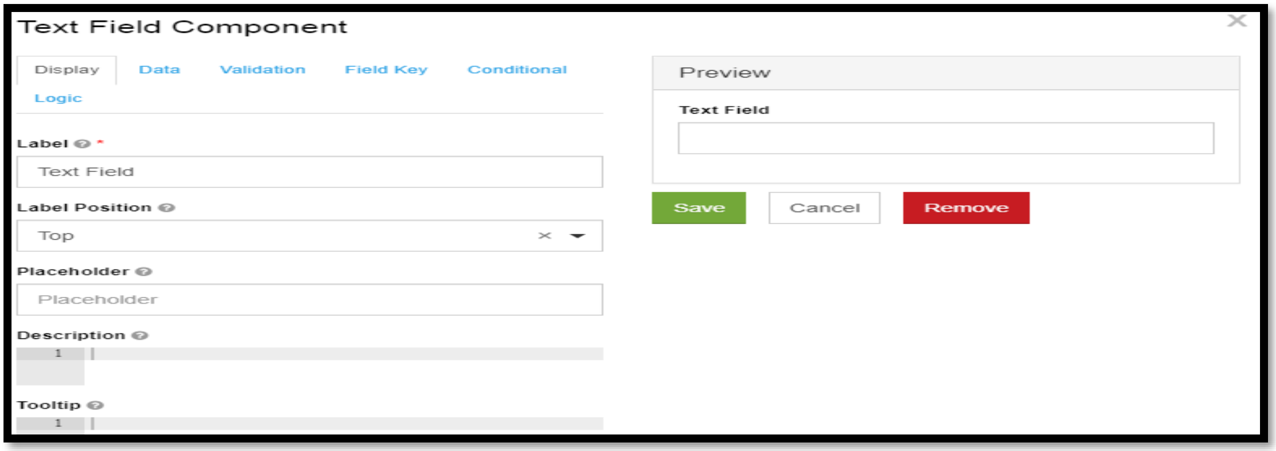




we can drag and drop this components and create the form based on our requirement

In my senario I have drag and drop the Text Field,Email Id ,Phone Number

Once I Drag and Drop Text Field



Text Field Component

Label *

Text Field

Label Position

Top

Placeholder

Placeholder

Description

Tooltip

here we have several options we can make use of it and we can design our custom design form

Data:

Here we can give default value to our Text field

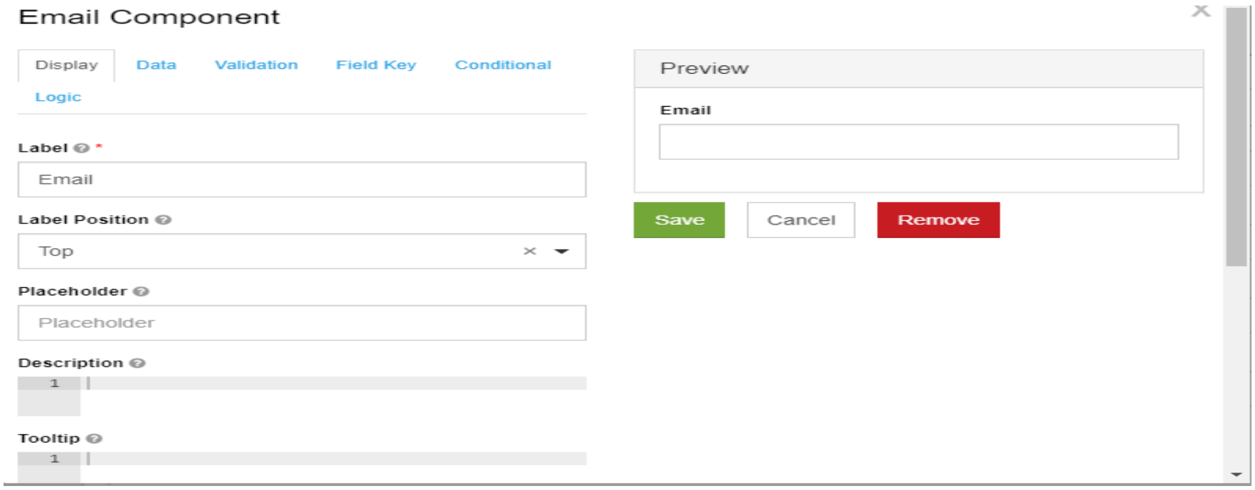
Condition:

Here we can give condtion to our Text Field

Field Key:

This generated automatically and this very much used in our workflow that we create

Drag and Drop Email Component and save by giving conditions and logic based upon our requirement



Email Component

Label *

Email

Label Position

Top

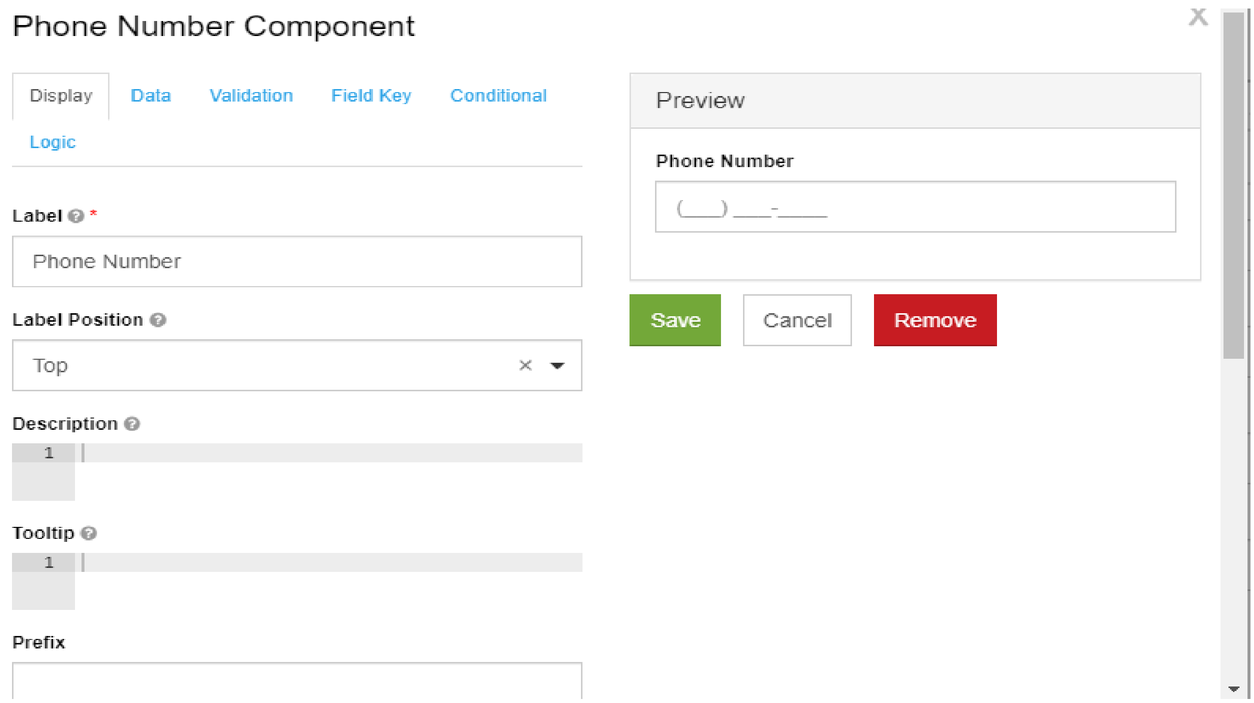
Placeholder

Placeholder

Description

Tooltip

Drag and Drop PhoneNumber and save by giving conditions and logic based upon our requirement



Phone Number Component

Label * : Phone Number

Label Position : Top

Description : 1

Tooltip : 1

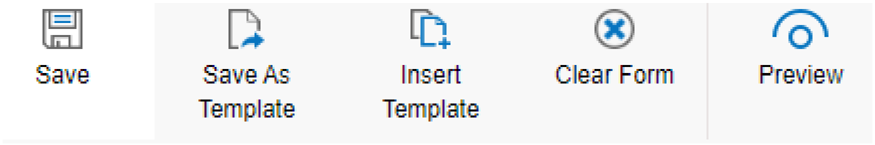
Prefix

Preview

Phone Number

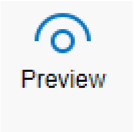
(___) ___-____

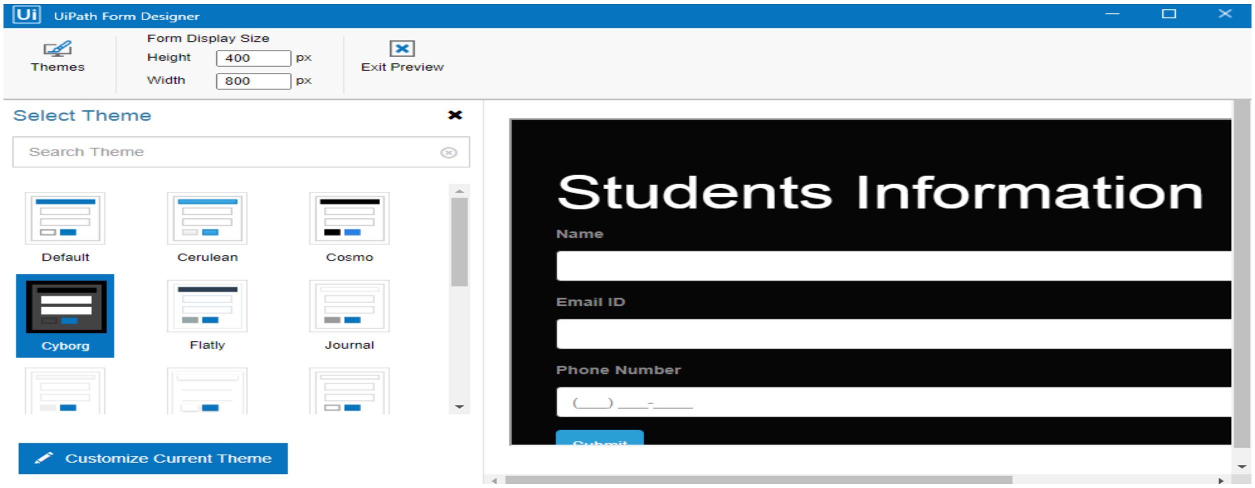
Save the form After creating



Once you click on Preview button in UiPath Form Design

Here we can give themes to our Form and exist Preview





UiPath Form Designer

Form Display Size

Height 400 px

Width 800 px

Students Information

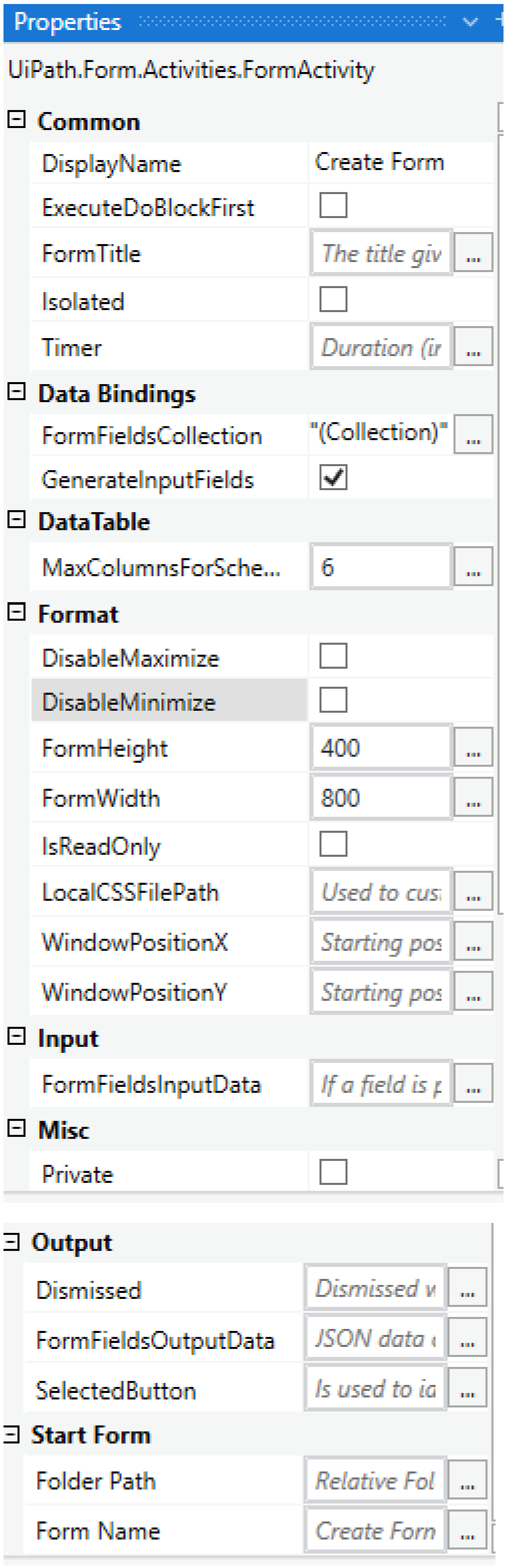
Name

Email ID

Phone Number

(___) ___-____

Properties of this activity



UiPath.Form.Activities.FormActivity

⊟ **Common**	
DisplayName	Create Form
ExecuteDoBlockFirst	□
FormTitle	*The title giv*
Isolated	□
Timer	*Duration (ir*
⊟ **Data Bindings**	
FormFieldsCollection	"(Collection)"
GenerateInputFields	☑
⊟ **DataTable**	
MaxColumnsForSche...	6
⊟ **Format**	
DisableMaximize	□
DisableMinimize	□
FormHeight	400
FormWidth	800
IsReadOnly	□
LocalCSSFilePath	*Used to cus*
WindowPositionX	*Starting pos*
WindowPositionY	*Starting pos*
⊟ **Input**	
FormFieldsInputData	*If a field is p*
⊟ **Misc**	
Private	□
⊟ **Output**	
Dismissed	*Dismissed v*
FormFieldsOutputData	*JSON data*
SelectedButton	*Is used to id*
⊟ **Start Form**	
Folder Path	*Relative Fol*
Form Name	*Create Form*

Format

The properties used for form appearance and format of Form

- **DisableMinimize** (Boolean)—To deactivate the Minimize and Restore buttons on forms, check this box. By default, the checkbox is cleared (set to false).
- **DisableMaximize** (Boolean)—To deactivate the Maximize and Restore buttons on forms.
- **FormHeig ht** (Int32)—Sets the desired height for the form, in pixels. The default height is 400.
- **FormWidth** (Int32)—Sets the desired width for the form, in pixels. The default width is 800.
- **IsReadOnly** (Boolean)—To prevent form fields from being edited, check this box. Fields marked as Always Enabled are not affected by this option.
- **WindowPositionX** (Int32)—Sets the form left margin position, in pixels.
- **WindowPositionY** (Int32)—Sets the form top margin position, in pixels.

Data Table

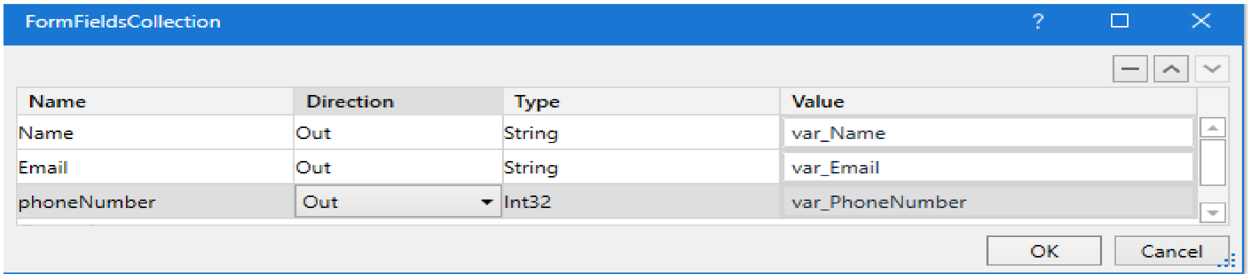
The property in this category refers to table data in forms.

- **MaxColumnsForSchemaGeneration** (Int32)—Sets the maximum number of generated columns for DataTable schemas. The default values is 6.

Data Bindings

The properties refer to data that is linked to the automation process.

- **FormFieldsCollection** (Dictionary<String, Argument>)—Binds workflow variables to the form Field Keys. Use **In** or **In/Out** directions for input form fields. Use **Out** or **In/Out** directions for output form fields. For example, in the **Name** field add the string First Name, set the **Direction** to In/Out, and set the **Type** to String.



Name	Direction	Type	Value
Name	Out	String	var_Name
Email	Out	String	var_Email
phoneNumber	Out	Int32	var_PhoneNumber

GenerateInputFields (Boolean)—To add the fields defined in the collection to the form

Input

The property in this category refers to the JSON input data.

- **FormFieldsInputData** (String)—Passes JSON input data to the form and overwrites the values defined in the **FormFieldsCollection** field. For Data Grid components, structure the JSON as an array.

Misc

The property in this category refers to miscellaneous settings.

- **Private** (Boolean)—To skip logging variables and arguments at Verbose level, check this box. By default, the checkbox is cleared (set to false).

Output

The properties in this category refer to the output object data.

- **Dismissed** (Boolean)—Outputs true when the end user closes the form without providing any input.
- **FormFieldsOutputData** (String)—The JSON data that results from the form upon completion.
- **SelectedButton** (String)—Outputs the form UI elements the end user interacted with.

Start Form

The properties in this category bind the form to the Start Form Activity, so the form can be opened in the background.

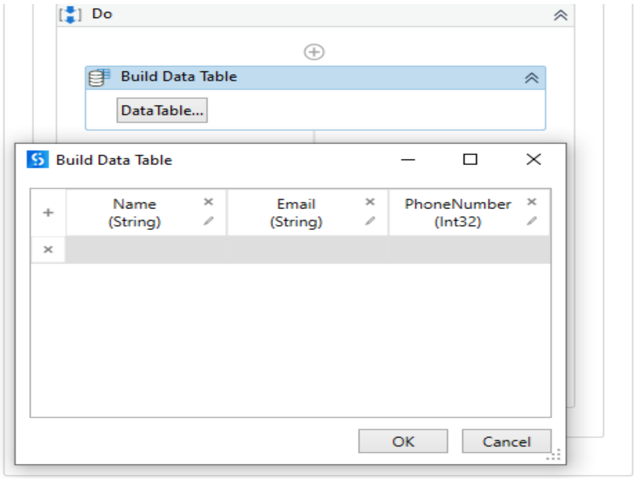
Folder Path (String)—Enter the path where you want to save the form data to.

Form Name (String)—Enter a name for your form data.

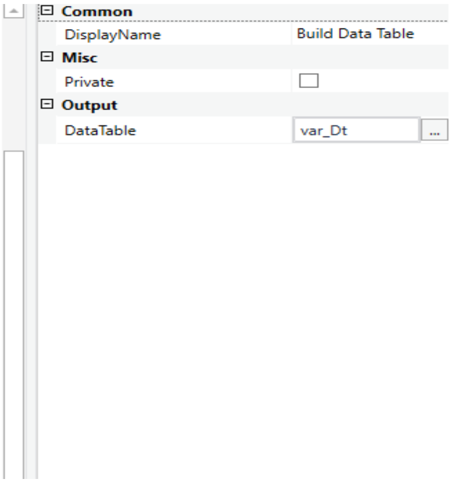
To bind every Create Form to the corresponding Start Form Activity, the Folder Path and Form Name values must match with the values set in Start Form Activity

Step2

Drag and drop build data table and store data in the var_Dt



Name (String)	Email (String)	PhoneNumber (Int32)



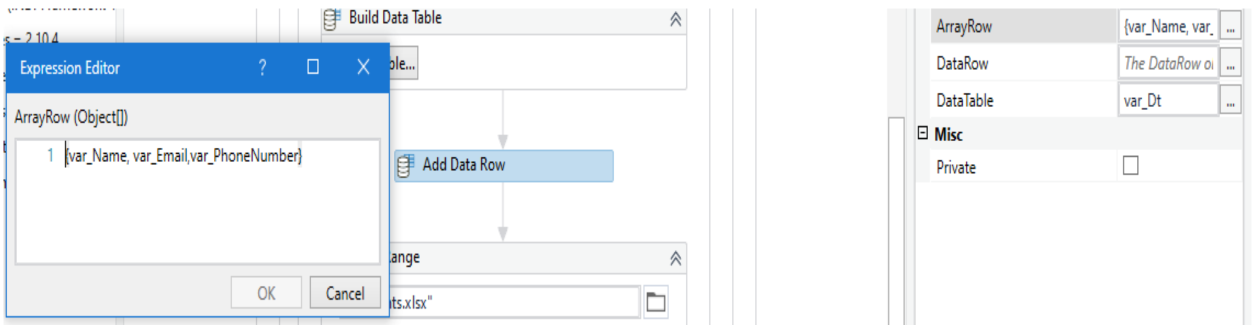
Common
DisplayName: Build Data Table

Misc
Private: □

Output
DataTable: var_Dt

Step3

Drag and drop add data row in the Array row property pass the variables which we created


Expression Editor

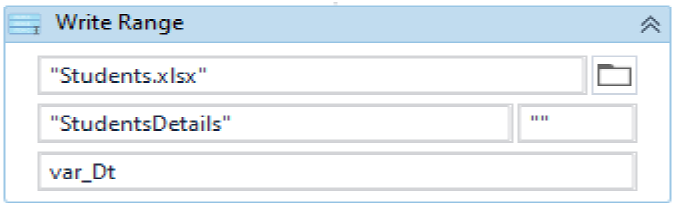
ArrayRow (Object[])

```
{var_Name, var_Email,var_PhoneNumber}
```

ArrayRow	{var_Name, var_
DataRow	The DataRow o
DataTable	var_Dt
Misc	
Private	□

Step4

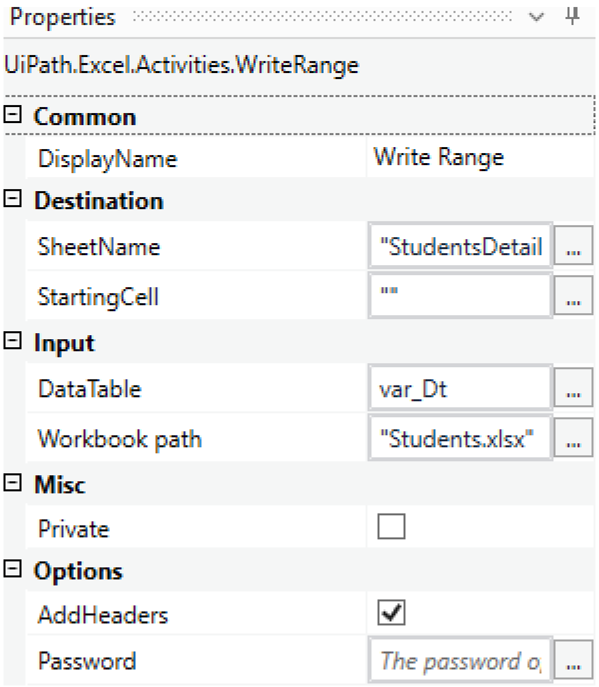
In order write data I have use write range to write my data in excel


Write Range

"Students.xlsx"

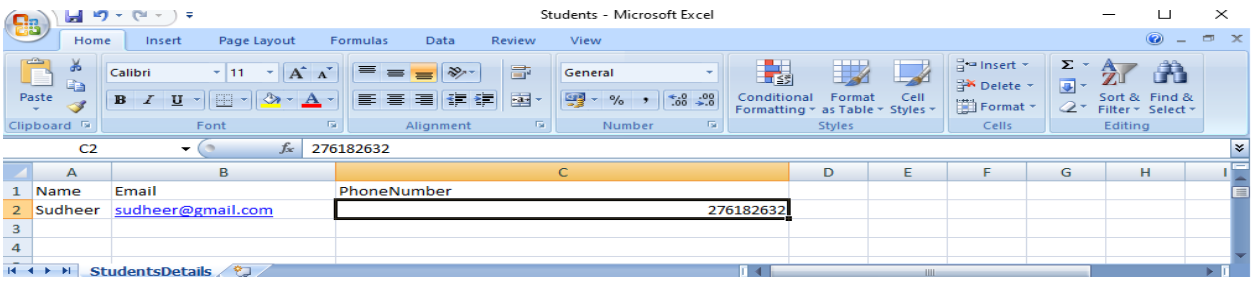
"StudentsDetails" ""

var_Dt


Properties

UiPath.Excel.Activities.WriteRange

Common	
DisplayName	Write Range
Destination	
SheetName	"StudentsDetail
StartingCell	""
Input	
DataTable	var_Dt
Workbook path	"Students.xlsx"
Misc	
Private	□
Options	
AddHeaders	☑
Password	The password o


Students - Microsoft Excel

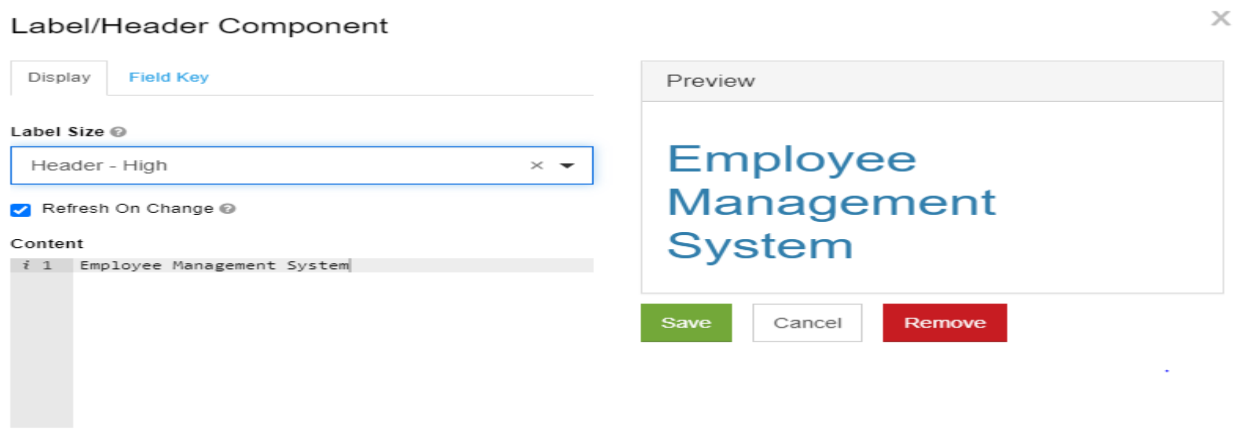
C2 276182632

	A	B	C
1	Name	Email	PhoneNumber
2	Sudheer	sudheer@gmail.com	276182632
3			
4			

Employee Management System Using UiPath Form

First Drag and drop Create Form Activity →Click on Open From Designer

Drag and drop label and /Header Component Give the Conent ,Label Size and save



Label/Header Component

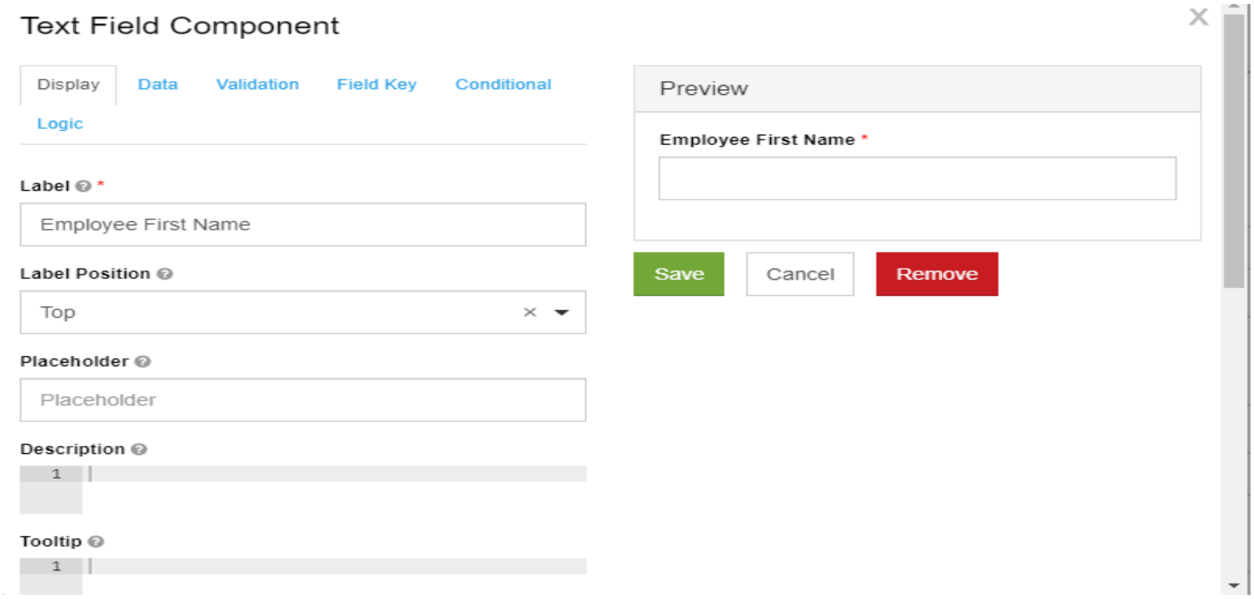
Label Size: Header - High

☑ Refresh On Change

Content

```
Employee Management System
```

Drag and Drop Text Field ,label name as Employee First Name ,In validation click the check box Required, Minimium Length 2,Maximum Length 40 and save



Text Field Component

Label *: Employee First Name

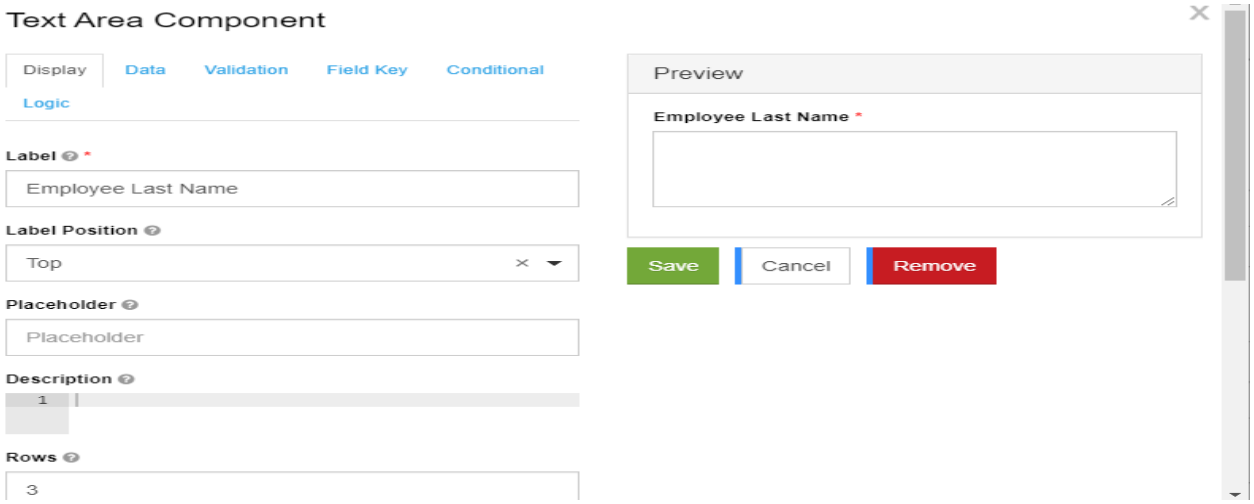
Label Position: Top

Placeholder: Placeholder

Description

Tooltip

Drag and Drop Text Field ,label name as Employee Last Name ,In validation click the check box Required, Minimium Length 2,Maximum Length 40 and save



Text Area Component

Label: Employee Last Name

Label Position: Top

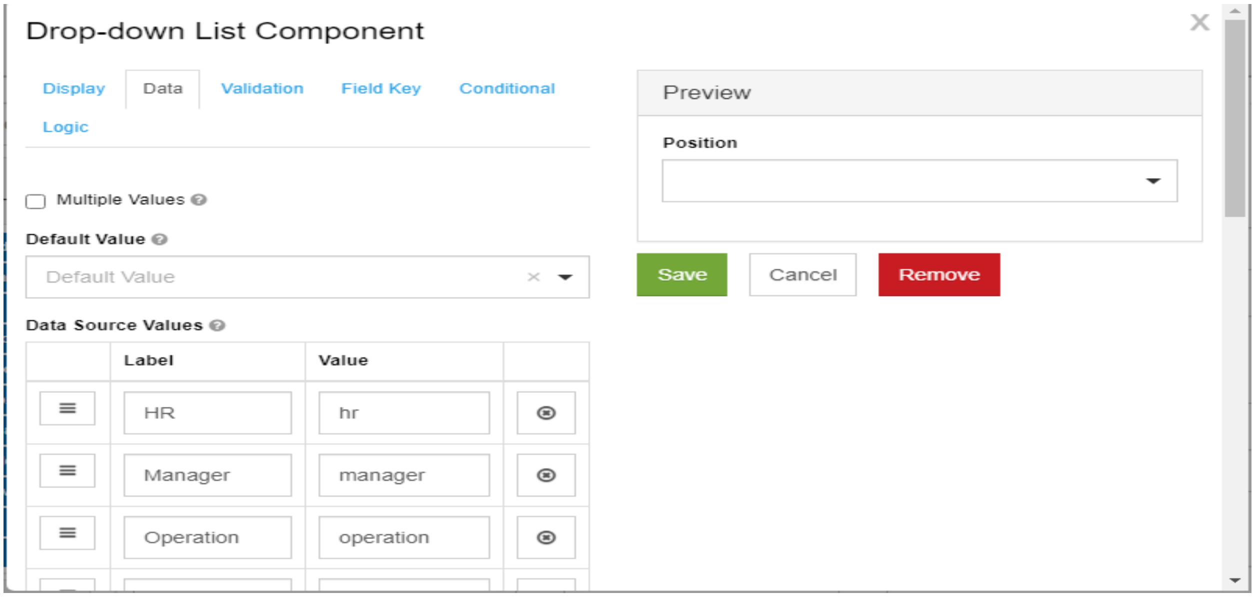
Placeholder: Placeholder

Description: 1

Rows: 3

Preview: Employee Last Name *

Drag and Drop drop down Component in Display→label name as Position ,In Data →Data Source Values in label →HR,Manager,Operation,Finance,Admin,Consultant



Drop-down List Component

□ Multiple Values

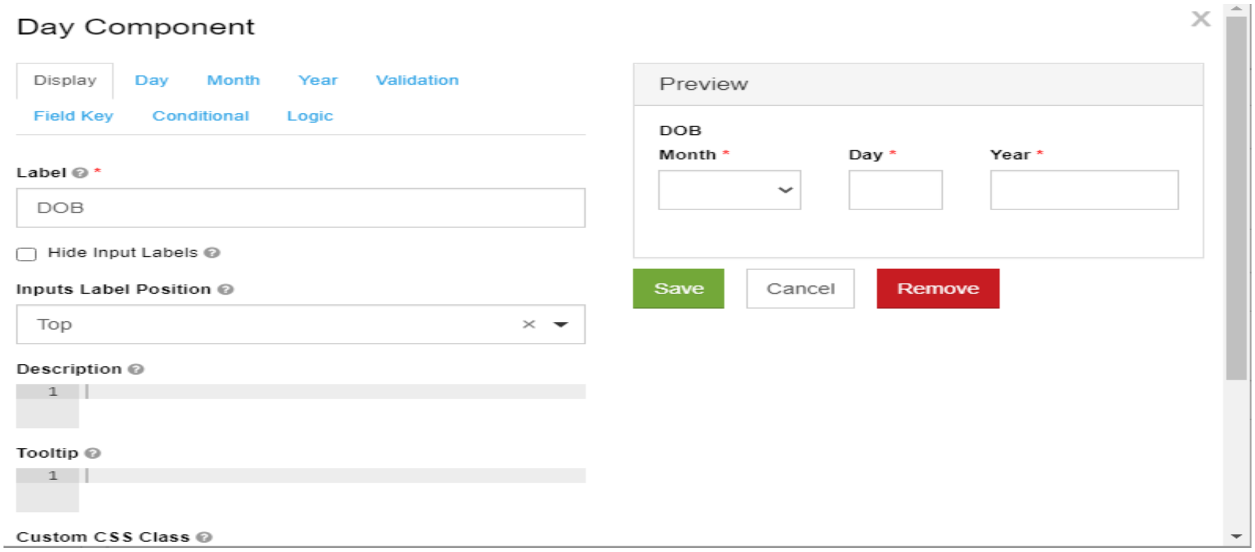
Default Value: Default Value

Data Source Values

Label	Value
HR	hr
Manager	manager
Operation	operation

Preview: Position

Drag and Drop Day component ,In validation click required day,required month,required year and save



Day Component

Display | Day | Month | Year | Validation | Field Key | Conditional | Logic

Label * : DOB

☐ Hide Input Labels

Inputs Label Position: Top

Description

Tooltip

Custom CSS Class

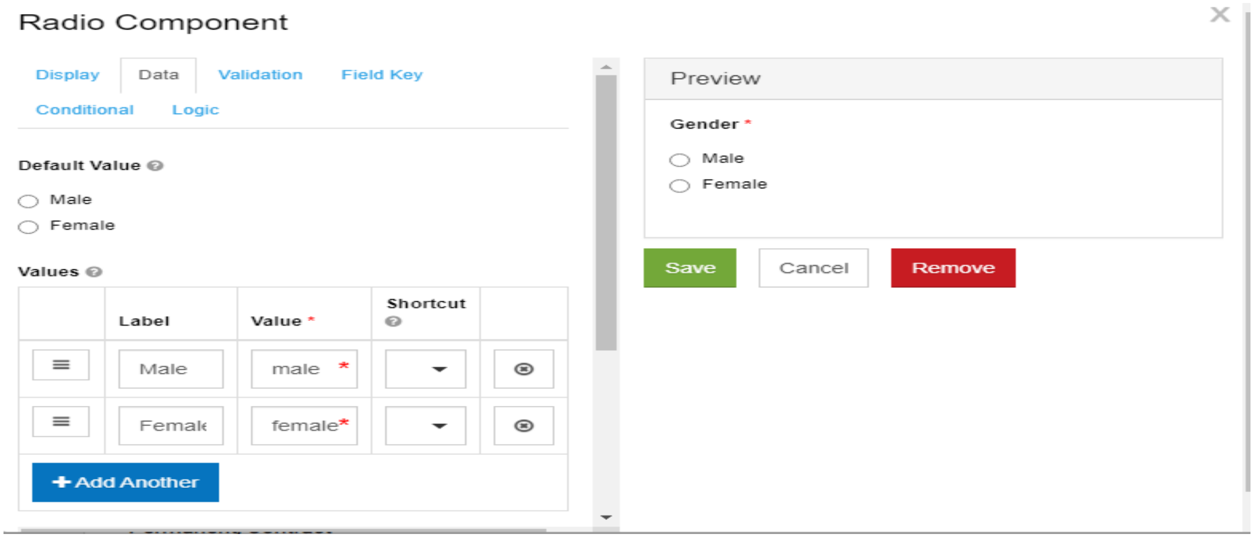
Preview

DOB

Month * | Day * | Year *

Save | Cancel | Remove

Drag nad drop Radio Component ,In Display→Label name as gender→In Data→values→give label male and female and save



Radio Component

Display | Data | Validation | Field Key | Conditional | Logic

Default Value

○ Male

○ Female

Values

	Label	Value *	Shortcut	
≡	Male	male *	▾	⊗
≡	Femal	female*	▾	⊗

+ Add Another

Preview

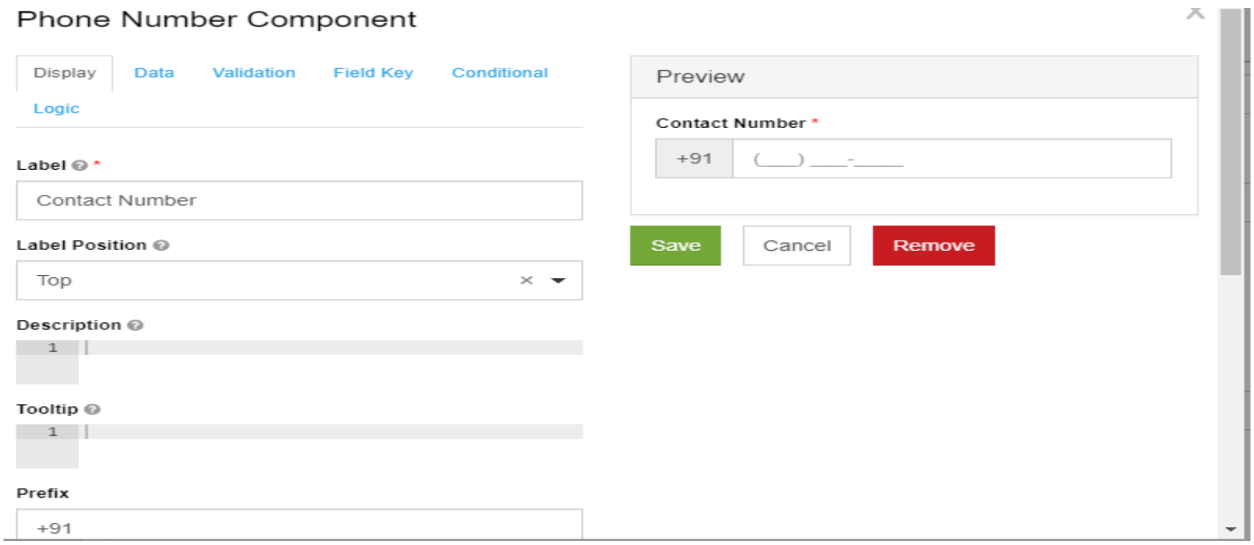
Gender *

○ Male

○ Female

Save | Cancel | Remove

Drag and Drop Phone Number component In Display give label name,prefix as 91,In validation click required and save



Phone Number Component

Label *
Contact Number

Label Position
Top

Description
1

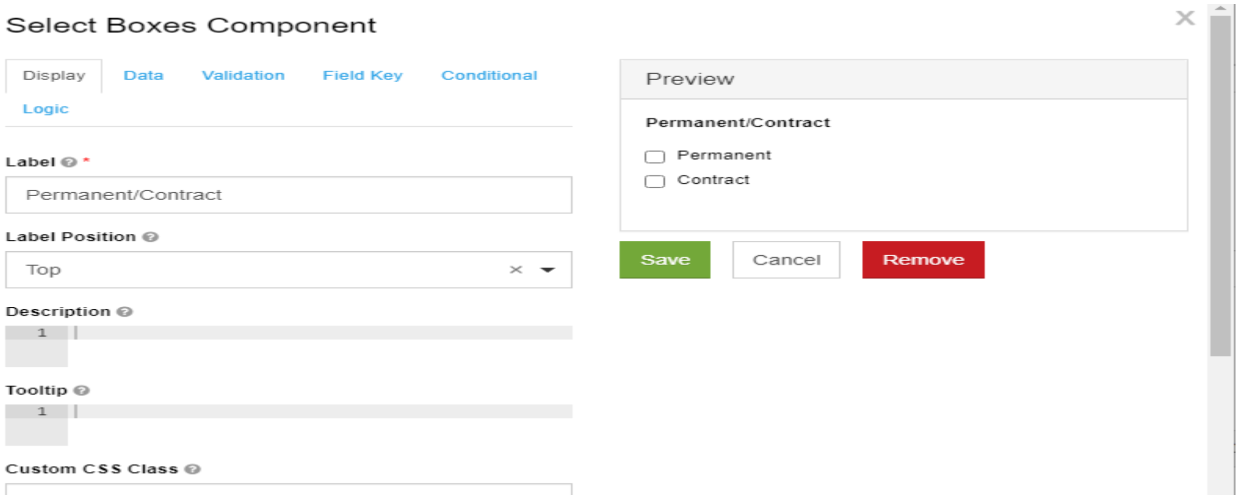
Tooltip
1

Prefix
+91

Preview

Contact Number *
+91 (___) ___-____

Drag and Drop Select Boxes Component,In Data → values give permanent and contract



Select Boxes Component

Label *
Permanent/Contract

Label Position
Top

Description
1

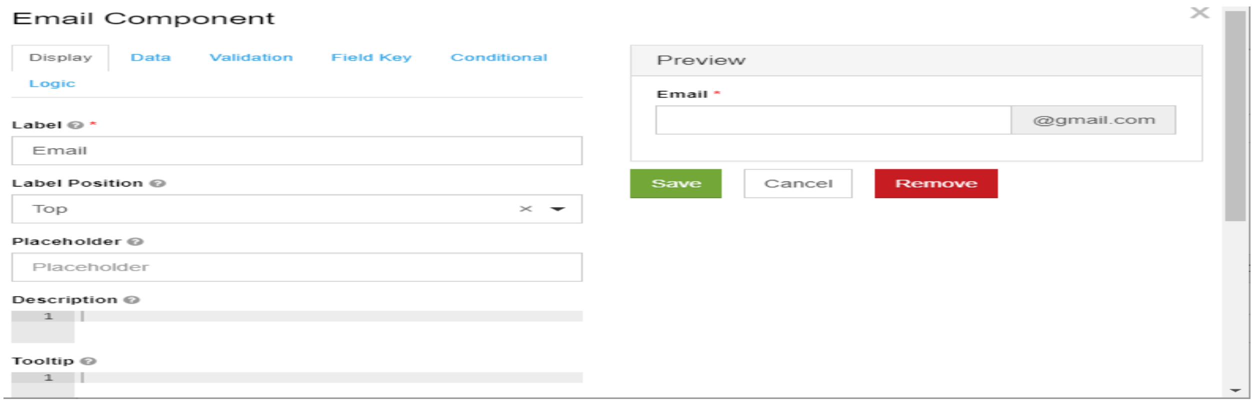
Tooltip
1

Custom CSS Class

Preview

Permanent/Contract
□ Permanent
□ Contract

Drag and drop Email Component and give Sufix as @gmail.com and save



Email Component

Label *
Email

Label Position
Top

Placeholder
Placeholder

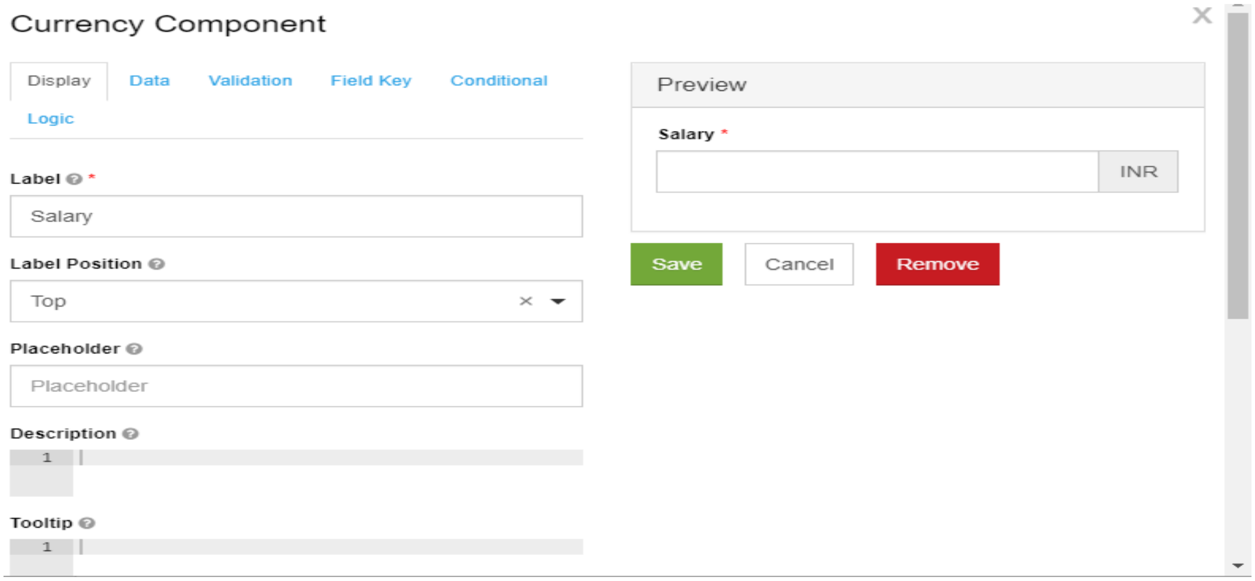
Description
1

Tooltip
1

Preview

Email *
@gmail.com

Drag and drop Currency Component ,In Display label name as Salary and Sufix as INR and save



Currency Component

Label: Salary

Label Position: Top

Placeholder: Placeholder

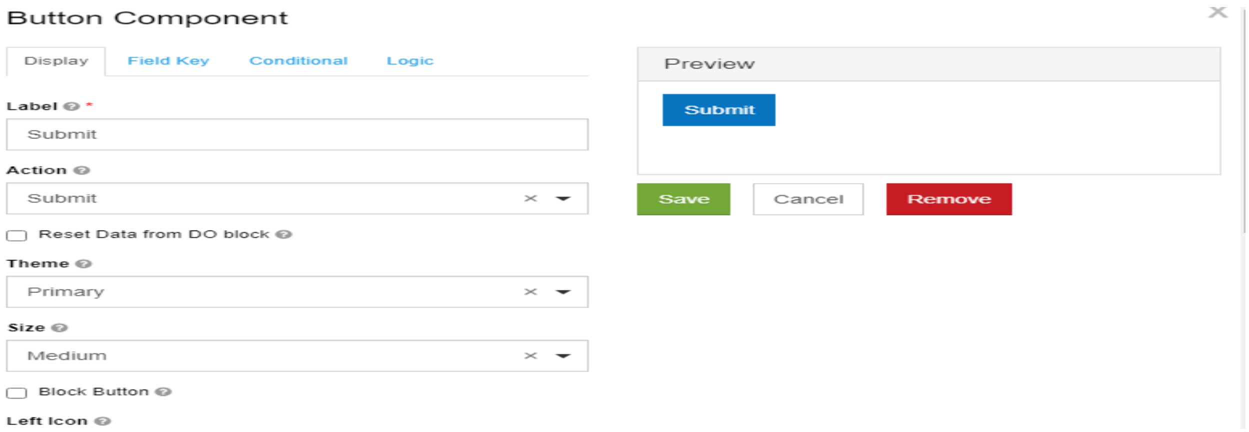
Description: 1

Tooltip: 1

Preview

Salary * INR

Drag and Drop Button Component in display put label name as submit



Button Component

Label: Submit

Action: Submit

□ Reset Data from DO block

Theme: Primary

Size: Medium

□ Block Button

Left Icon

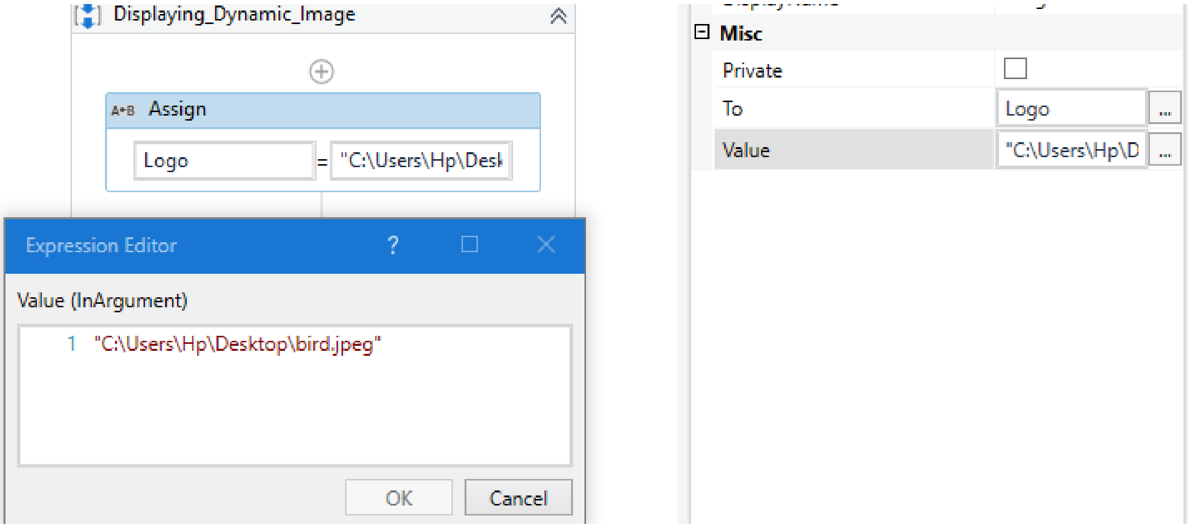
Preview

Using Components in open form designer we can design forms in UiPath

Dynamic image Diplaying

Create the Process and name it as Displaying_Dynamic_Image Using UiPath Forms

Take the Assign activity and store the URL of image by creating the variable



Logo = "C:\Users\Hp\Desk

Value (InArgument)

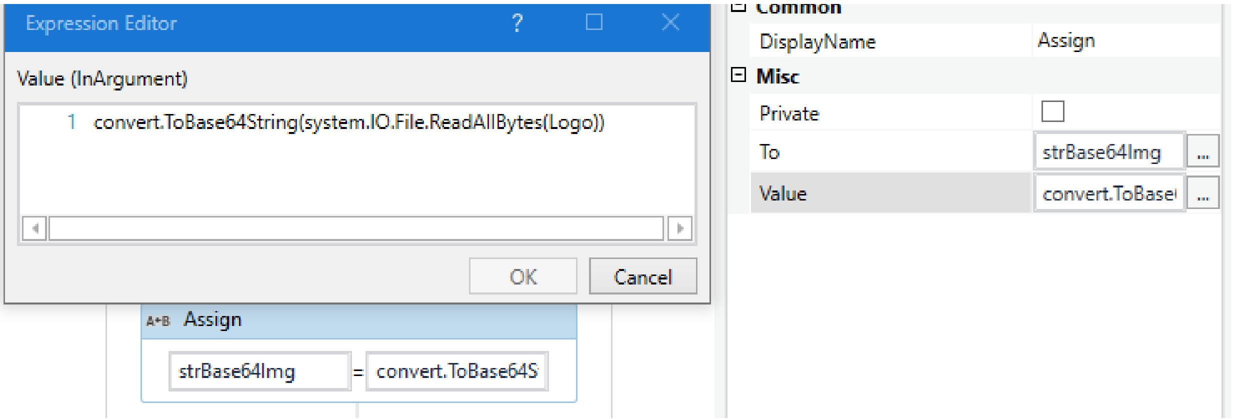
```
"C:\Users\Hp\Desktop\bird.jpeg"
```

Private □

To: Logo

Value: "C:\Users\Hp\D

Convert that image into Base64String and read that image



Value (InArgument)

```
convert.ToBase64String(system.IO.File.ReadAllBytes(Logo))
```

strBase64Img = convert.ToBase64S

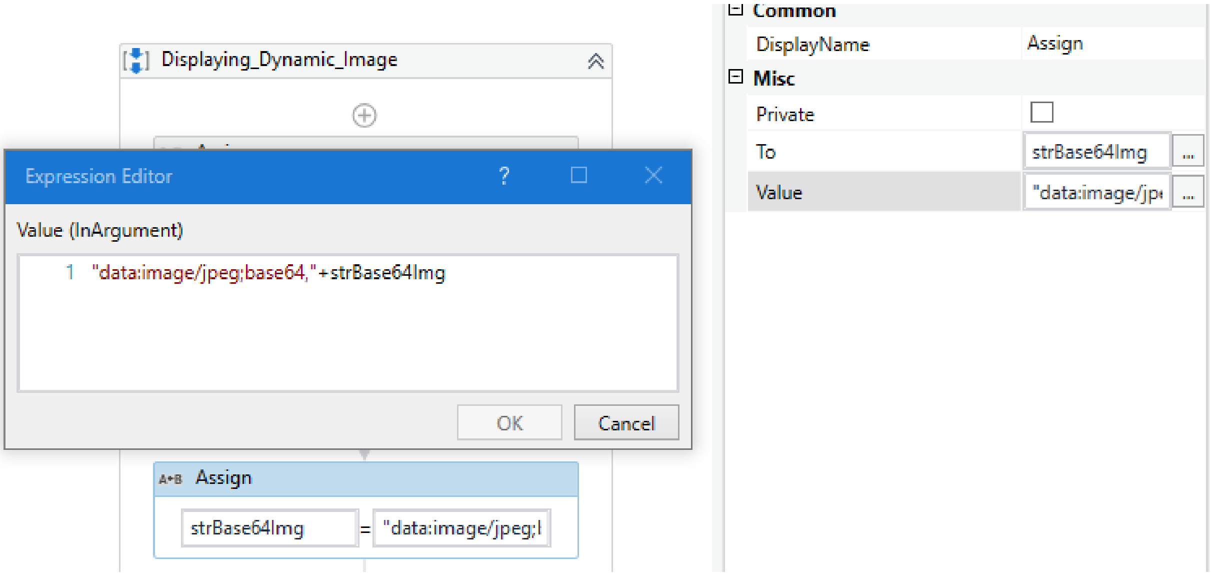
DisplayName: Assign

Private □

To: strBase64Img

Value: convert.ToBase

Format of image



Value (InArgument)

```
"data:image/jpeg;base64,"+strBase64Img
```

strBase64Img = "data:image/jpeg;l

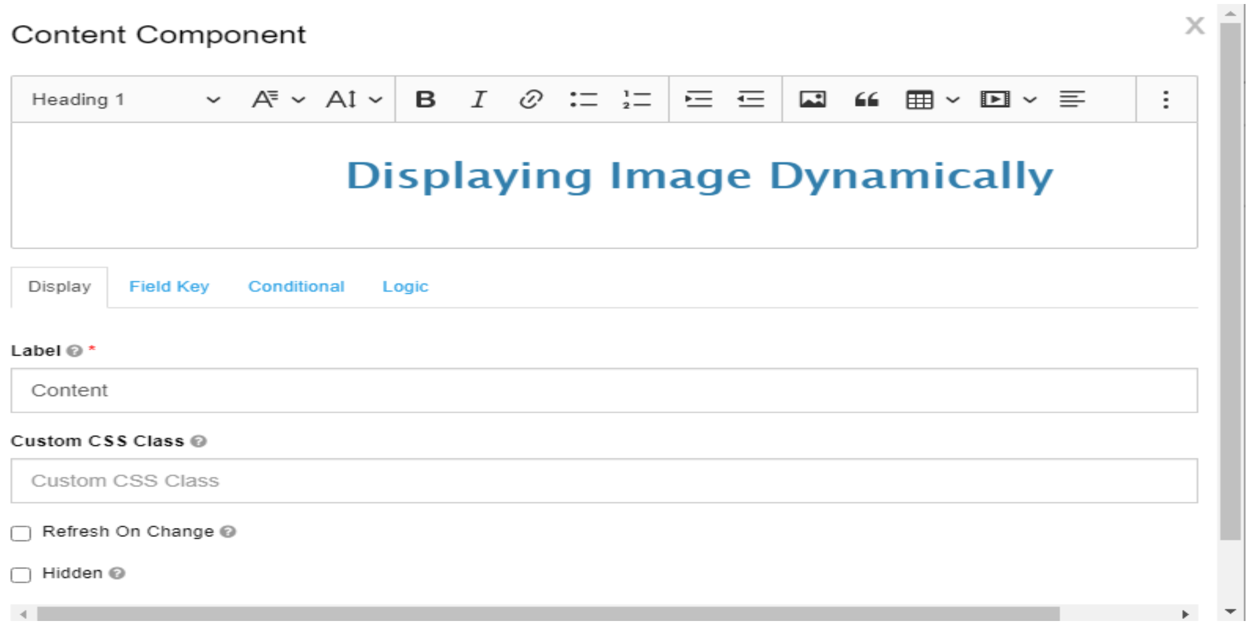
DisplayName: Assign

Private □

To: strBase64Img

Value: "data:image/jp

Drag and drop create form activity and click on open design Form and Drag and Drop content Component and give Display name as Display image Dynamically and save



Content Component

Displaying Image Dynamically

Label *

Content

Custom CSS Class

Custom CSS Class

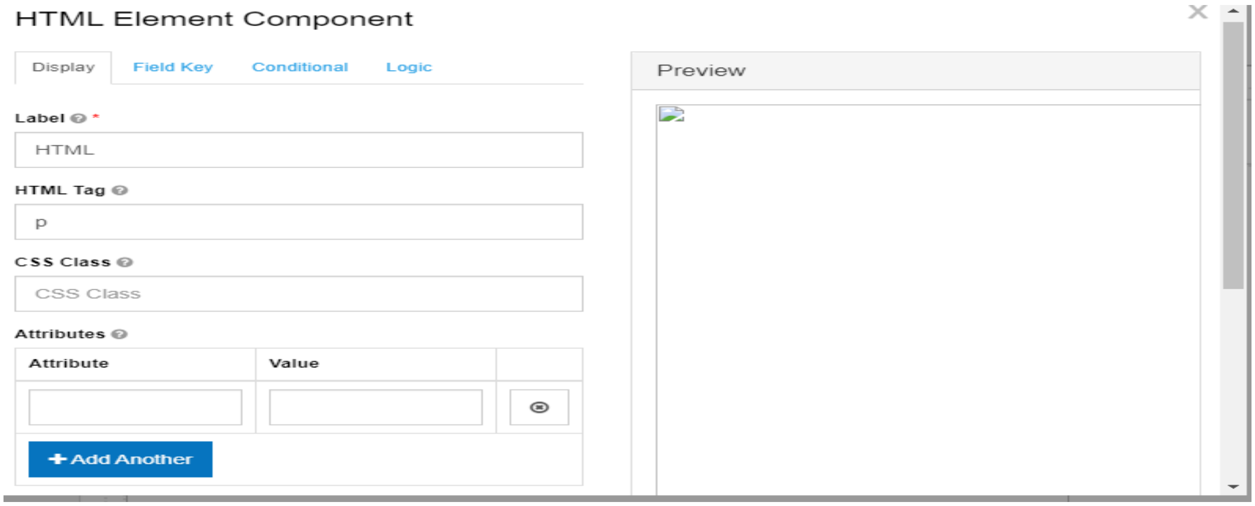
□ Refresh On Change

□ Hidden

Drag and Drop HTML Element Component and in content give

<img src="{{data.Logo1}}" width=600 height=500> and save

And copy the Field key



HTML Element Component

Label *

HTML

HTML Tag

p

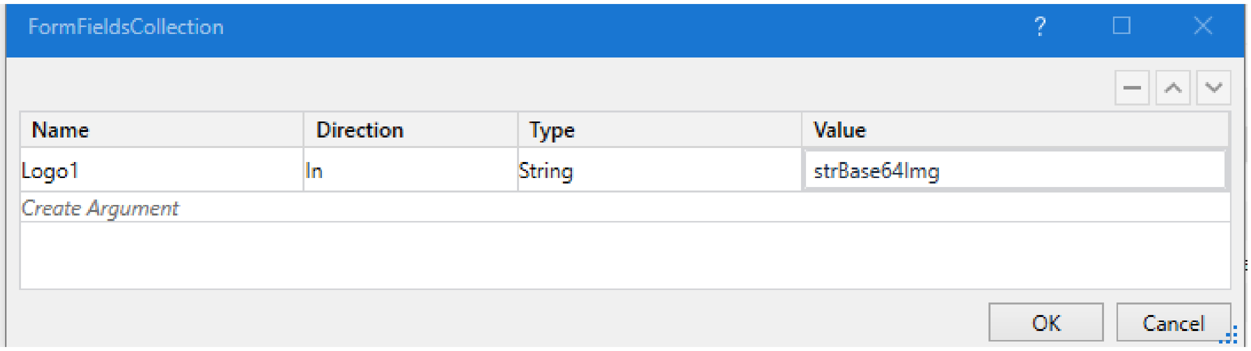
CSS Class

CSS Class

Attributes

Attribute	Value	

In the property of form field collection give the html element component field key that argument is assign to strBase64Img variable in →In direction

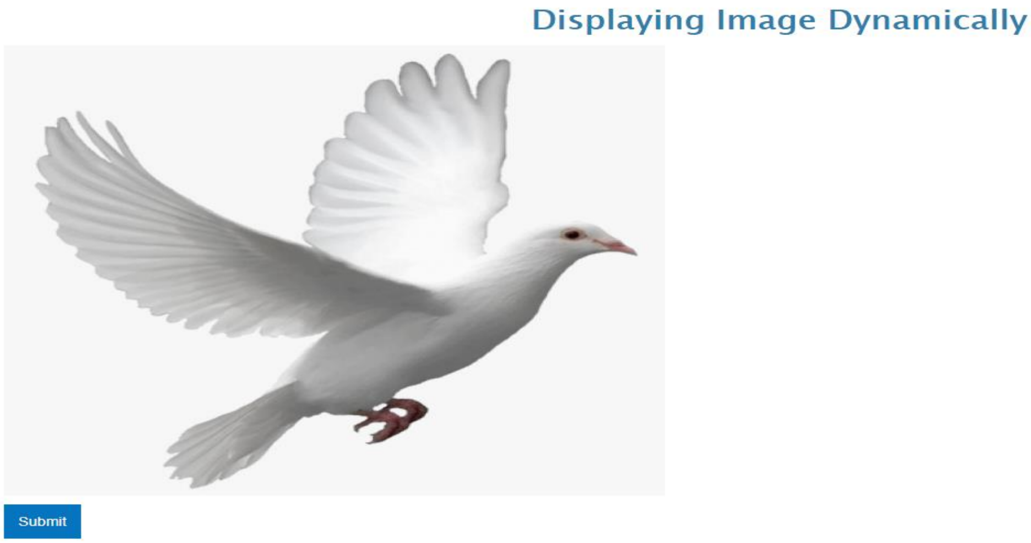


FormFieldsCollection

Name	Direction	Type	Value
Logo1	In	String	strBase64Img

Create Argument

The Output is



Displaying Image Dynamically

For any RPA implementation/resources in your organization please reach out to rpa@gxplabs.com