**Demo - Understand the Business rules to Automate**

Business Scenario:

Extract Invoices and Amount details from hundreds of PDF’s generated every day and place them into Company internal tools.

Maintain a copy of extracted Details in Excel for further Data Analytics and Research.

**For each loop to go through every file present in Folder**

Step1:

* Invoices and Amount
* Open file
* Read invoice
* Read amount
* Close file
* Print extracted details

Open uipath->select **FirstDemo1Process** project->select project->right click on **FirstDemo1Process**

->select add->select Flowchart->Name: **InvoiceExtractPDF**->select create

Select Activity->search sequence->select **Sequence**->drag and drop **Sequence** to the flowchart->double click on **Sequence**->Rename: **Invoice Extraction**

To get the readymade Files in Uipath->Select **Snippets**->double click Loops->select **For Each Files in Folder**-> drag and drop **For Each Files in Folder** to the + drop activity

Select **For Each Files in Folder**->select **Assign**->in the Properties

->Value, Directory.GetFiles("give location of PDF Folder")->all the pdf files will be stored in the **file** variable

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**Identify properties in PDF using Google OCR Technology**

Select **For Each Files in Folder**->select **Body**->Delete the **Write Line** activity

Select Activity->search **Start Process**->select **Start Process**->drag and drop **Start Process** to the + drop activity of the **Body** in the **For Each Files in Folder**

Select **Start Process** -> in the Properties->**Input**, FileName: **file**

Select Activity->search **Close Application**->select **Close Application** ->drag and drop **Close Application** to the + drop activity

Open the **NPO Invoice1.pdf**->select **Close Application**->select **Indicate on screen**->then select the pdf which is opened

select **Close Application**->select **click to open options menu**->select **Edit Selector**->in the Edit Selector

-> title='NPO Invoice\*.pdf ->select ok

Select **For Each Files in Folder** ->Delete the S**elect Folder**

Select Snippets->search **Delay**->select **Delay 3 Seconds** ->drag and drop **Delay 3 Seconds** to the + drop activity between **Start** **Process** and **Close Application**

Select Activity->search **Get Text**->select **Get Text** ->drag and drop **Get Text** to the + drop activity between **Sequence Delay** and **Close Application**

Open the **NPO Invoice1.pdf** ->Select **Get Text**->select **Indicate on screen**->>then select the

invoice number from the pdf which is opened

Double click **Get text**->Rename: **Invoice extraction**

Select **Invoice extraction** ->select **click to open options menu**->select **Edit Selector**->in the Edit Selector

-> title='NPO Invoice\*.pdf-> name='8\*' ->then select ok

Select **Invoice extraction** ->in the properties-> Output, Value: press ctrl + k-> Value: **invoice** ->then give enter

To run the workflow->right click on the particular file which will run->select **Set as Start Node**->select Debug file->select Run File

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**How to handle Dynamic Elements in PDF with regular expressions**

Select Activity->search **Get Text**->select **Get Text** ->drag and drop **Get Text** to the + drop activity between **Invoice extraction** and **Close Application**

Select **Get Text** ->in the properties->**Common**, DisplayName: **Amount Extract**

Open the **NPO Invoice1.pdf** ->Select **Amount Extract** ->select **Indicate on screen**->>then select the

invoice number from the pdf which is opened

Select **Amount Extract** ->select **click to open options menu**->select **Edit Selector**->in the Edit Selector

-> title='NPO Invoice\*.pdf->then select ok

To get the amount from all the pdf, open each pdf and click the repair->Select **Amount Extract** ->select **click to open options menu**->if it is not validate->then select **Repair**->then select ok->Do this for all the pdf

Select **Amount Extract** ->in the properties-> Output, Value: press ctrl + k-> Value: **amount** ->then give enter

Select Activity->search **Message Box**->select **Message Box** ->drag and drop **Message Box** to the + drop activity

Select **Message Box**->Text: "invoice number is "+**invoice**+" and amount is "+**amount**

To run the workflow->right click on the particular file which will run->select **Set as Start Node**->select Debug file->select Run File

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**Extracting the values from PDF to Excel using UIPath**

* Create an excel file. Name: **Book3**

Select Activity->search **Excel Application Scope**->select **Excel Application Scope** ->drag and drop **Excel Application Scope** to the + drop activity between **Amount** Extract and **Message Box**

Select **Excel Application Scope**->in the properties, **File**->Workbook path: give the location of the excel file

Select Activity->search **Write Cell**->select **Write Cell** ->drag and drop **Write Cell** to the + drop activity of **Do** sequence of **Excel Application Scope**

Select **Write Cell** ->in the properties->Destination->Range: **"Sheet1"**

->SheetName: **"A"+counter.ToString**->Input, Value: **invoice**

Select Variables->in the Created Variable: **counter**->Variable Type: select **int32**

->scope: **InvoiceExtractPDF**->Default: **2**

Select Activity->search **Assign**->select **Assign**->drag and drop **Assign** to the + drop activity after **Write Cell**

Select **Assign**->in the properties->Misc, To: **counter** ->Value: **counter+1**

Select Activity->search **Write Cell**->select **Write Cell** ->drag and drop **Write Cell** to the + drop activity of **Excel Application Scope** between **Write Cell** and **Assign**

Select **Write Cell** ->in the properties->Destination->Range: **"Sheet1"**

->SheetName: **"B"+counter.ToString**->Input, Value: **amount**

To run the workflow->right click on the particular file which will run->select **Set as Start Node**->select Debug file->select Run File

It will extract the invoice and amount from the pdf files and place it in the excel file Name: **Book3**

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**Pushing the values from pdf/excel to Desktop Internal tools**

Download the internal tool: **AnyTeller** application

Open uipath->select **FirstDemo1Process** project->select project->right click on **FirstDemo1Process**

->select add->select Flowchart->Name: **InvoiceExtractPDF**->select create

Select Activity->search sequence->select **Sequence**->drag and drop **Sequence** to the flowchart->double click on **Sequence**->Rename: **Invoice Extraction 2**

To get the readymade Files in Uipath->Select **Snippets**->double click Loops->select **For Each Files in Folder**-> drag and drop **For Each Files in Folder** to the + drop activity

Select **For Each Files in Folder**->select **Assign**->in the Properties

->Value, Directory.GetFiles("give location of PDF Folder")->all the pdf files will be stored in the **file** variable

Select **For Each Files in Folder** ->Delete the S**elect Folder**

Select Activity->search **Sequence**->select **Sequence**->drag and drop **Sequence** to the + drop activity after **For each file** activity

Select Activity->search **Excel Application Scope**->select **Excel Application Scope** ->drag and drop **Excel Application Scope** to the + drop activity of **Sequence** activity

Select **Excel Application Scope**->in the properties, **File**->Workbook path: give the location of the excel file

Select Activity->search **Read Range**->select **Read Range**->drag and drop **Read Range** to the + drop activity of **Excel Application Scope** activity

Select **Read Range**->->in the properties-> Output, DataTable: press ctrl + k-> DataTable: **rr** ->then give enter

To open the internal tool: **AnyTeller** application -> Select Activity->search **open Application**->select **Open Application**->drag and drop **Open Application** to the + drop activity after **Read Range** activity

First open the **AnyTeller** application then>select **Open Application**->select **Indicate window on screen**

->select the **AnyTeller** application which was opened

Select Activity->search **For Each Row**->select **For Each Row** ->drag and drop **For Each Row** to the + drop activity of **Do** of **Open Application** activity

Select **For Each Row** ->ForEach: **row**->in: **rr**

Select Activity->search **Type Into**->select **Type Into** ->drag and drop **Type Into** to the + drop activity of **Body** of the **For Each Row** activity

First open the **AnyTeller** application then ->Select **Type Into**->select **Indicate element inside window**

->select **Cash In** for input in the **AnyTeller** application

Select **Type Into**->Text: **row("Amount").ToString**

Select Activity->search another **Type Into**->select **Type Into** ->drag and drop **Type Into** to the + drop activity of after **Type Into** activity

First open the **AnyTeller** application then ->Select **Type Into**->select **Indicate element inside window**

->select **On Us Check** for input in the **AnyTeller** application

Select **Type Into**->Text: **row("Invoice").ToString**

Select Activity->search another **Click**->select **Click** ->drag and drop **Click** to the + drop activity of after the second **Type Into** activity

First open the **AnyTeller** application then ->Select **Click** ->select **Indicate element inside window**->select **Accept** in the **AnyTeller** application

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