**RPA Design and Development**

**Salary Sheet Generator**

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**Problem Statement:**

Extracting unstructured data from pdf files and write it into structured excel workbook. Then perform some calculations with the data extracted and send automated mail to the employer with the excel file attached.

**Description:**

Large business organization have large number of employees and it is difficult to generate and maintain the salary sheet of each employee having the details of each employee in separate pdf files. Using RPA bot this process can be easily automate. The main aim of the automation is to extract the unstructured data from pdf and convert it to structured Excel workbook, perform required operations on the data and finally send the generated salary sheet to the employer through mail.

**Aim:**

Extracting data from these PDF forms and scanned documents into a usable format is probably one of the basic requirements of business organization. The main aim of this bot is to extract unstructured data from pdf files and write it into structured excel workbook, perform required calculations followed by send automated mails.

**Objectives:**

* Automatically extract the data from the pdf files which are unstructured in nature.
* Write the extracted data into structured excel sheet.
* Perform the required operations and calculations on the data.
* Send automated mail to the required recipient with the excel sheet attached.

**Design and implementation of the project:**

**Step 1**: Start by selecting Sequence in your process.

**Step 2**: Use “Build Data Table” activity.

**Step 3**: Use “For Each” activity and in its body use “Read pdf text” activity and “Assign” activity to loop through all the pdf files and read the data from all the pdfs and store it in the data table.

**Step 4**: Use “Write Range” activity to write the data in the data table to the specified Excel Sheet.

**Step 5**: Use “Add Data Column” activity to add new columns to the existing data table ‘Write Range’ activity to add the fields in the excel sheet.

**Step 6**: Use “Excel Application Scope” activity and ‘write cell’ activity to perform certain calculation and enter the result in the excel sheet.

**Step 7**: Use “Send SMTP Mail Message” activity and enter port number and server.

**Step 8**: Enter email and password in properties tab. In To field, enter the email id of the recipient. In Body Field write the email which you have to send.

**Step 9**: END

**Activities Used:**

1. Sequence Activity
2. Build Data Table Activity
3. For Each Activity
4. Read PDF Text Activity
5. Assign Activity
6. Add Data Row Activity
7. Output Data Table Activity
8. Write Range Activity
9. Add Data Column Activity
10. Excel Application Scope Activity
11. Write Cell Activity
12. Send SMTP Mail Message Activity

**Work Flow:**

