

RPA PROJECT REPORT TEMPLATE

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PC02

PROBLEM STATEMENT

- Organizations receive numerous resumes daily, requiring significant manual effort to extract and organize candidate information.
- This manual process is time-consuming, prone to human error, and inefficient in filtering resumes for specific criteria.



PROCESS

Extract PDF attachments and convert them to text

[UiPath Read PDF Activity : To convert resume into text and store in a pdfText folder]

Store the summarized data in an Excel file
[Microsoft Excel : To store the summarized data]



01.

02.

03.

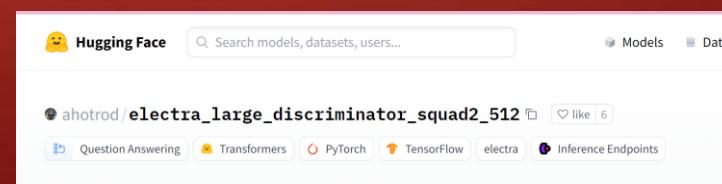
04.

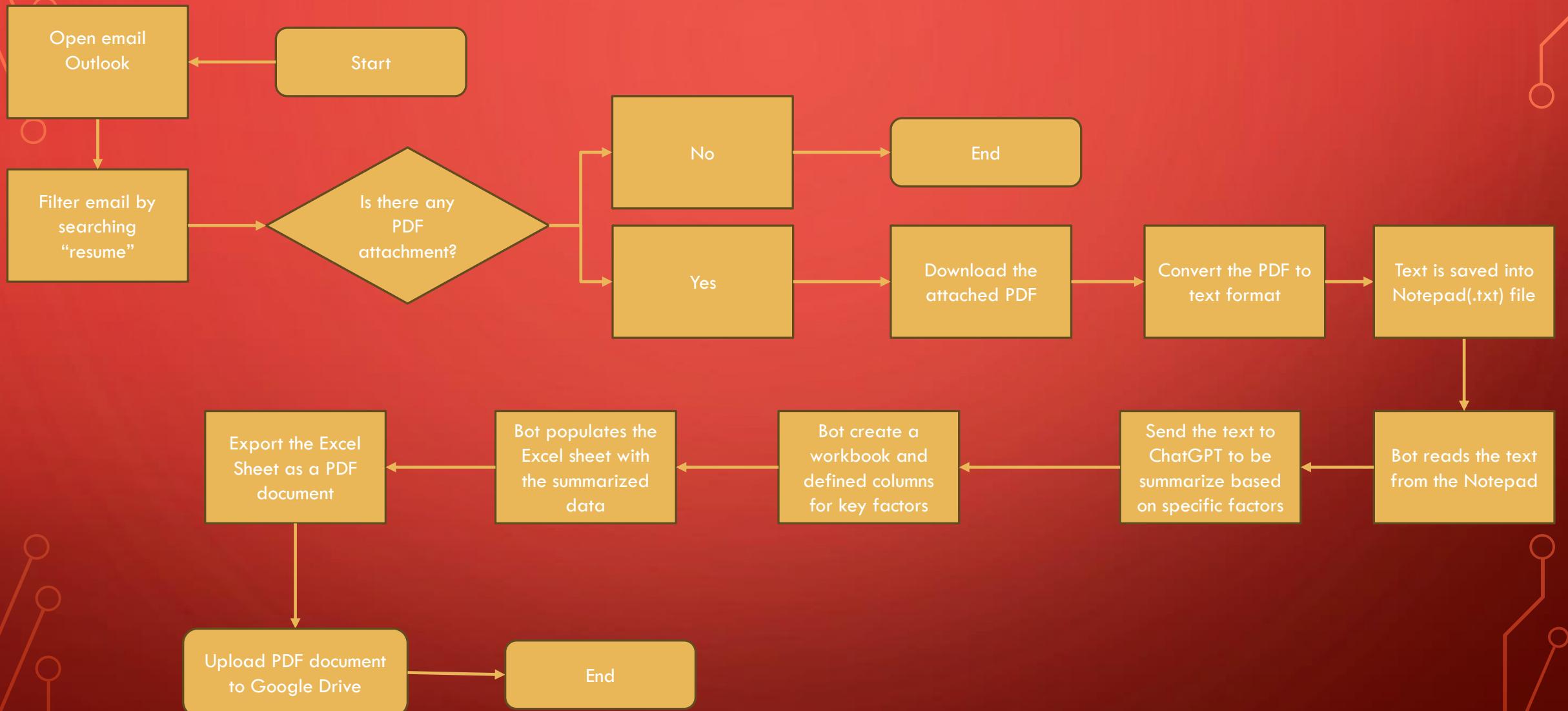
05.

Retrieve emails from the server using IMAP
[Microsoft Outlook : To retrieve and process emails with resume attachments]

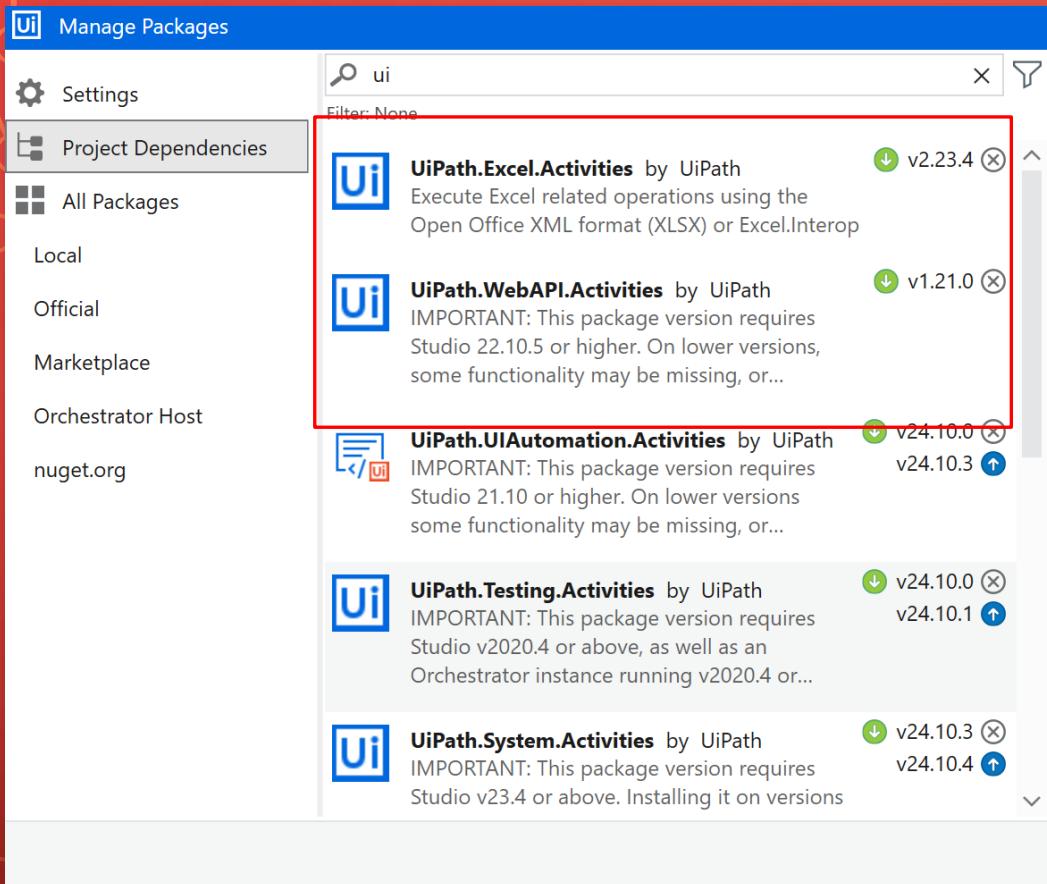
Send the text to an API for summarization
[A model from Hugging Face API : To summarize content into structured data]

Upload the Excel file to Google Drive



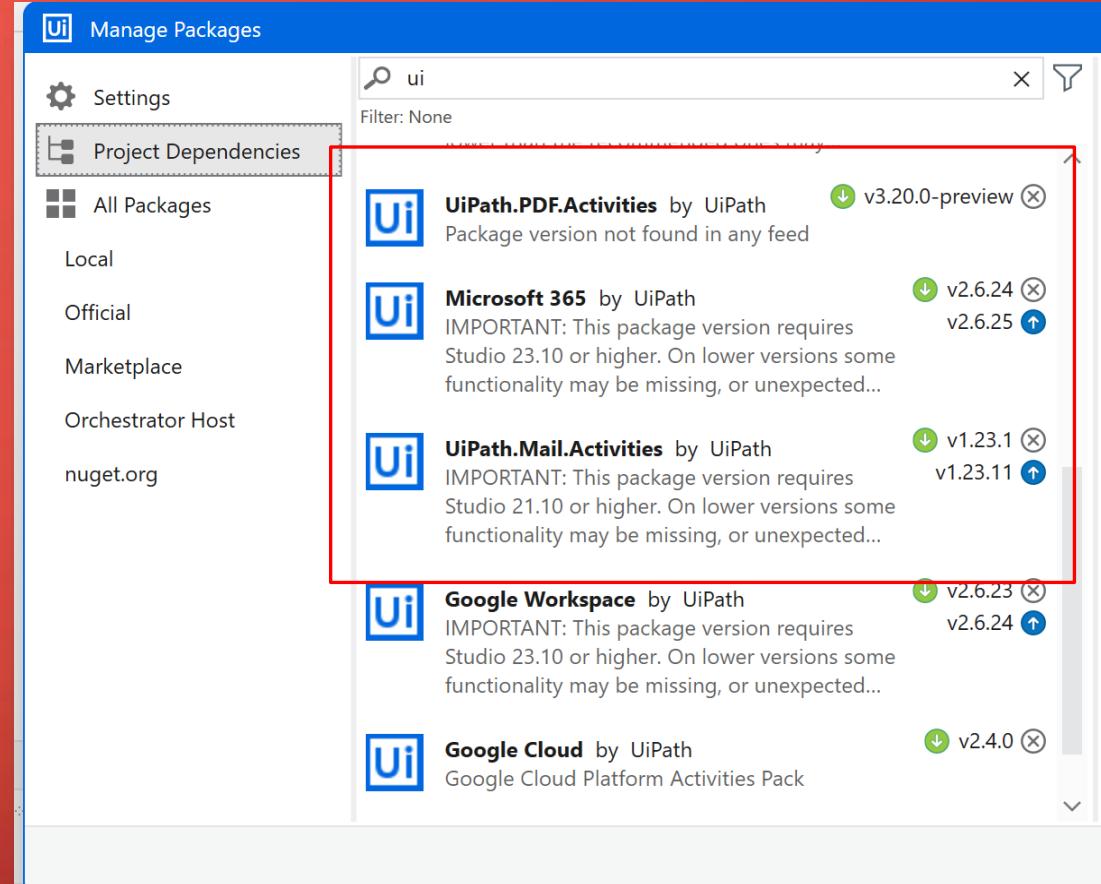


PACKAGES (PROJECT DEPENDENCIES) USED



1. UiPath.Excel.Activities: Handles Excel file creation, data insertion, and formatting to store the processed data.

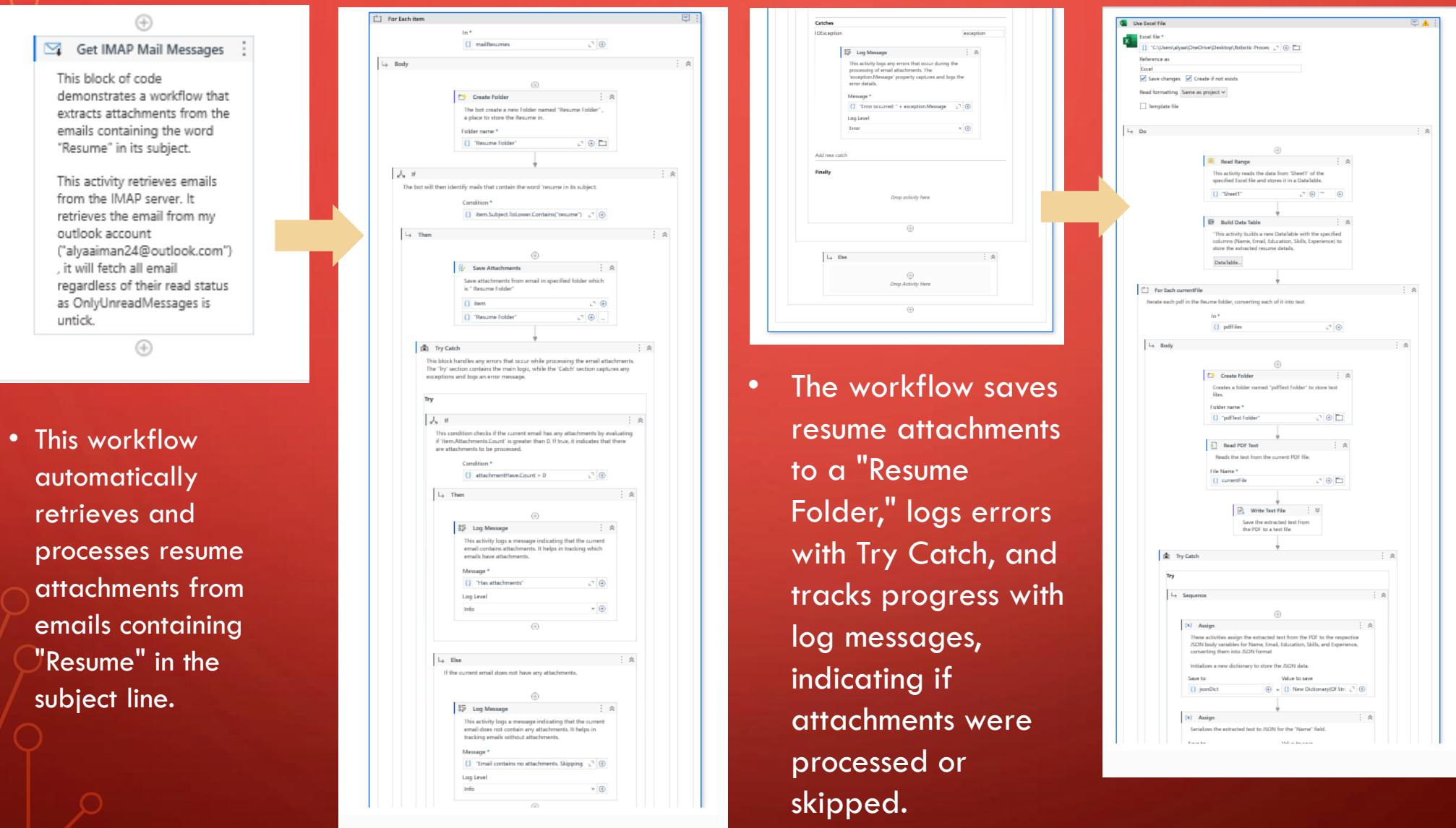
2. UiPath.WebAPI.Activities: Allows the robot to make HTTP requests to external APIs, such as Hugging Face, for summarization of resume content.



3. UiPath.PDF.Activities: Offers activities to read and convert PDF documents into text for further processing.

4. UiPath.Mail.Activities: Provides activities to interact with the email server, retrieve emails, and process attachments.

DETAILS OF SOLUTION

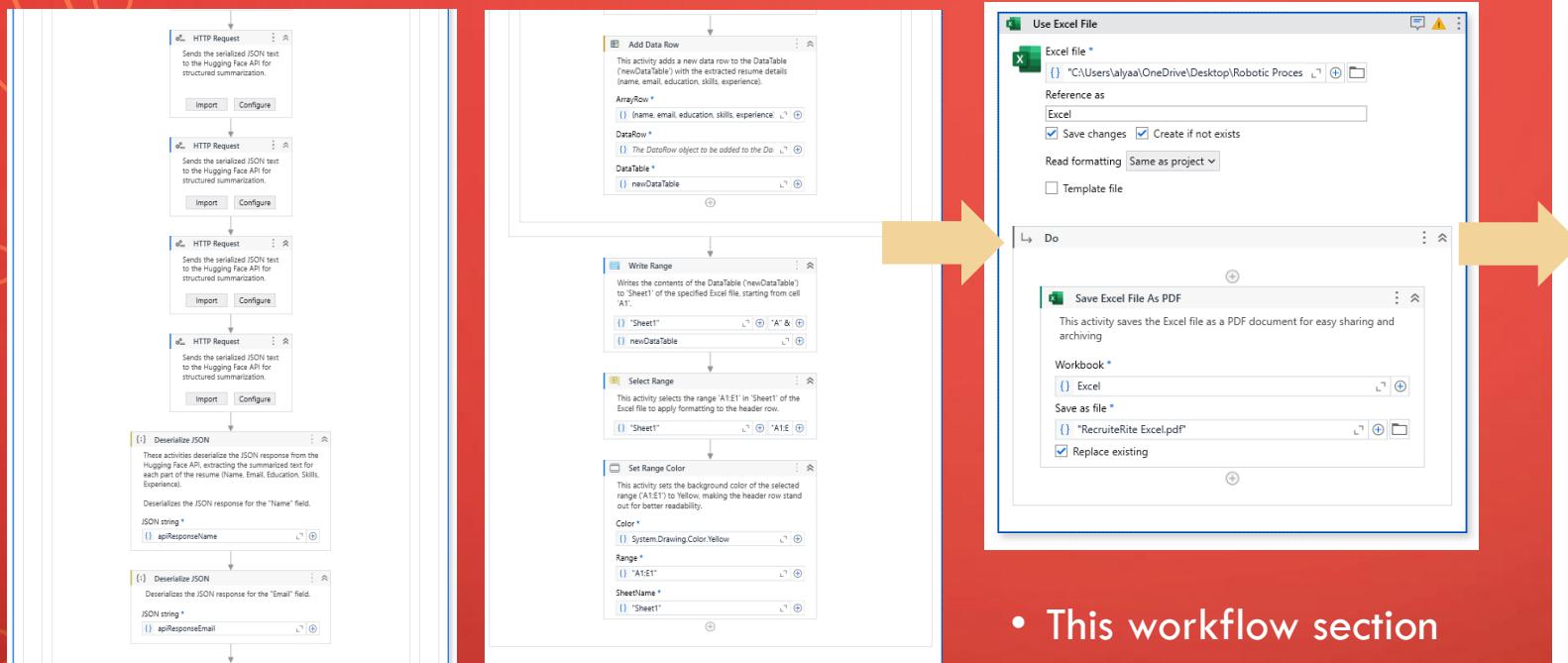


- This workflow automatically retrieves and processes resume attachments from emails containing "Resume" in the subject line.

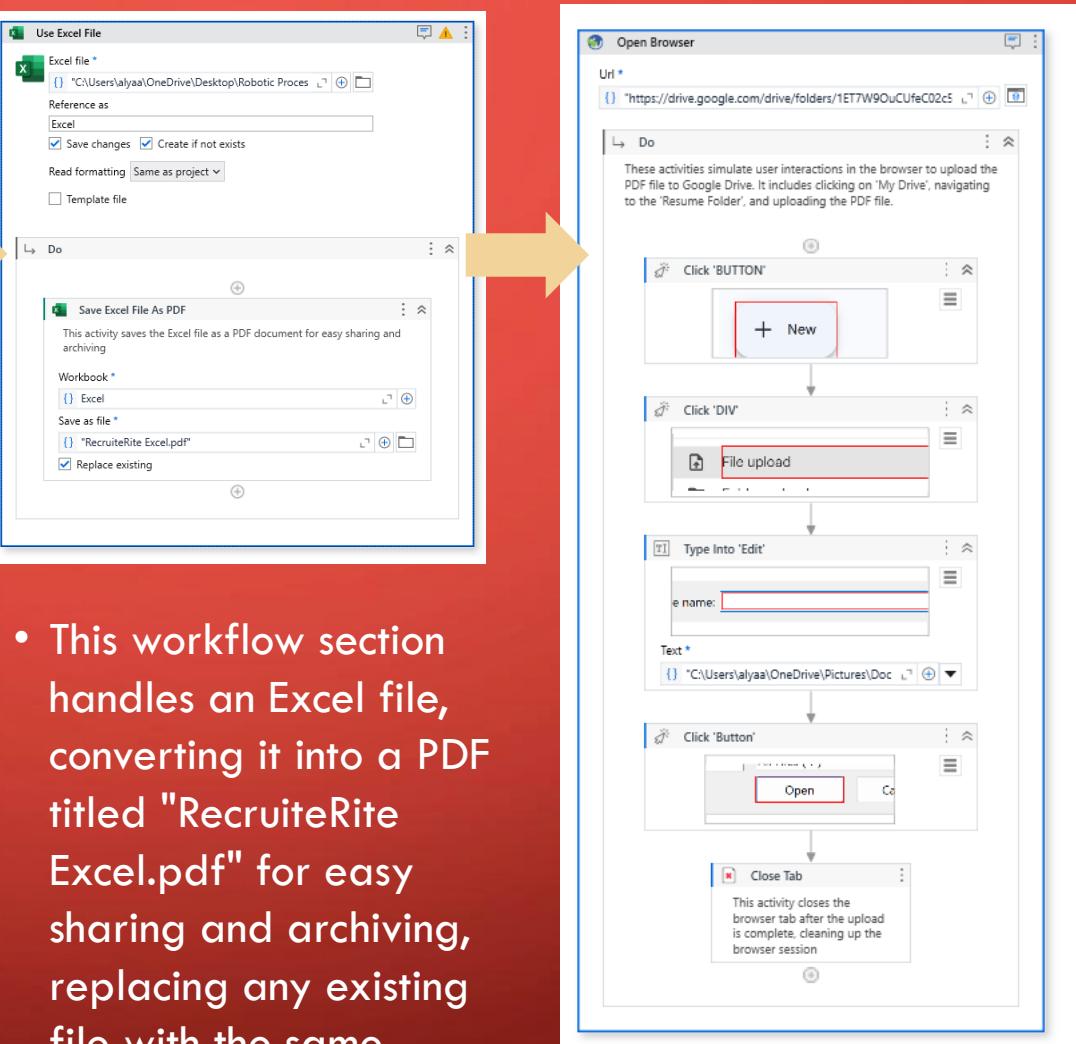
- The workflow saves resume attachments to a "Resume Folder," logs errors with Try Catch, and tracks progress with log messages, indicating if attachments were processed or skipped.

- This part of the workflow begins by extracting and processing the contents of PDF resumes, which are then sent to an API for structured summarization.

DETAILS OF SOLUTION



- The responses from the API, which include fields like Name, Email, Education, Skills, and Experience, are deserialized to extract the summarized data.
- This data is then added to a DataTable and written into a designated Excel sheet.
- The final step involves formatting the Excel sheet, including setting the header row's background color to yellow for better readability.



- This workflow section handles an Excel file, converting it into a PDF titled "RecruiteRite Excel.pdf" for easy sharing and archiving, replacing any existing file with the same name.

- This workflow section demonstrates how the bot uploads the generated PDF to Google Drive using a web browser.

YOUTUBE LINK FOR DEMO

- <https://youtu.be/PMCrVh3DQvU>

REFERENCES

[1]

- “ahotrod/electra_large_discriminator_squad2_512 · Hugging Face,” *huggingface.co*.
https://huggingface.co/ahotrod/electra_large_discriminator_squad2_512

[2]

- “RW_Toolbox1_0917 | Resume, Resume skills list, Human resource management,” *Pinterest*, 2024. <https://www.pinterest.com/pin/590182726177949719/> (accessed Aug. 12, 2024).