

ETP PRESENTATION

Data Migration and Web Scraping with UI Path and Integration with Excel

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INTRODUCTION

This project is interesting and potentially useful project for people who regularly use both Excel and WhatsApp. While there are existing tools and methods for sharing Excel data, this project appears to streamline the process and make it more user-friendly.

One possible novelty of this project is that it may allow users to easily share specific data or subsets of data from an Excel spreadsheet, rather than having to send the entire file. Additionally, this project may make it easier for people who are not particularly tech-savvy to share data from Excel, as it eliminates the need for manual copying and pasting. By automating the process, the project could potentially make it more accessible to a wider audience.

The motive of this research paper is to focus on the benefits of task automation that reduce the costs also the operational risks (data entry errors), time saving, increased productivity and data quality, reduced workload and other benefits.

Literature Review

The Process of Web Data extraction:

A web data extraction system is a software system that automatically and repeatedly extracts data from web pages with changing content and delivers the extracted data to a database or some other application.

Robotic Process Automation (RPA):

RPA (Robotic Process Automation) is a technology that enables organizations to automate their business processes by creating software robots or bots that can perform repetitive, rule-based tasks.

UiPath

UiPath is a leading Robotic Process Automation (RPA) software tool that enables organizations to automate their repetitive, rule-based business processes. It is a software platform that helps automate tasks that are typically performed by human workers

The proposed project of extracting data from Excel and putting it in WhatsApp is more of a technical implementation of a solution to a problem, rather than a research project with specific research outcomes. However, there are still some expected outcomes from the project, which may include:

- 1. Improved efficiency in sharing data between Excel and WhatsApp:** By automating the process of extracting data from Excel and putting it in WhatsApp, this project can potentially save time and effort for users who frequently need to share data between the two platforms.
- 2. Reduction in errors and mistakes:** Manually copying and pasting data from Excel to WhatsApp can be error-prone, and there is a risk of mistakes and discrepancies. This project can potentially reduce the risk of errors by automating the process and ensuring that the correct data is transferred accurately.
- 3. Increased accessibility for non-technical users:** This proposed project can potentially make it easier for users who are not familiar with programming or data integration tools to share data between Excel and WhatsApp. This could increase the accessibility of the solution and allow more users to benefit from it.
- 4. Overall, the expected outcomes of the proposed project are primarily related to increased efficiency, reduced errors, and improved accessibility for users who need to share data between Excel and WhatsApp.**

Frameworks

In this section the proposed approach is presented. We make following libraries and models to make and test our model.

FRAMEWORKS USED IN THIS PROJECT



UIPATH: UiPath is a popular Robotic Process Automation (RPA) platform that can be used for a variety of tasks, including data migration and web scraping.



Excel: Excel is a spreadsheet program from Microsoft and a component of its Office product group for business applications



Savelife.com: The site which is used for scrapping of data (i.e. details of probable blood donors) is savelife.com.



Whatsapp: As whatsapp is one of the most used chatting application it is the best app for sending out information

METHODOLOGY

In this project we have demonstrated how we can use UiPath and a website Savelife.com to connect the correct people who are looking for blood to save themselves and their loved ones to the donors with the use of RPA technology with UiPath and Web Scraping and WhatsApp cause WhatsApp is the most used Chatting Application by the Public.

Savelife.com is a website that contains information about blood donation centers and blood donors, UiPath could be used to scrape data from the website, extract relevant information, and compile it into a structured format that can be used for analysis and reporting. UiPath could also be used to automate the process of updating the website with new information, such as new blood donation center locations.

The proposed project extracts data from excel and applies it onto WhatsApp which brings us to saying that it is more of technical implementation and less of a research project bearing specific outcomes.

Screenshots

The screenshot shows a list of blood donors on the Savelife Connect website. Each donor entry includes a profile picture, name, location, and blood type icon.

Name	Location	Blood Type
Shyamal Bala	Mahendraganj, West Bengal INDIA	B -
Chandru Chandru	Madurai, Tamil Nadu INDIA	O +
Jiten Patra	Raikia, Odisha INDIA	B +
Gorsu Surya	Vizianagaram, Andhra Pradesh INDIA	O +
Netra Neupane	New Delhi, Delhi INDIA	O +
Sneha Latha	Gopannapalem, Andhra Pradesh INDIA	B +
Sudhakar Singh	Prayagraj Division, Uttar Pradesh INDIA	B +
Manojkumar Vadapalli	Vijayawada, Andhra Pradesh INDIA	B -
Anil Tainguriya	Agra Division, Uttar Pradesh INDIA	B +

Keyboard Shortcuts

Chrome: WhatsApp

Record shortcut

Send key combination

Enter

Type Into 'DIV'

Type this Click Indicate target on screen to indicate the UI element

{ CurrentRow(4).ToString() }

Empty field before typing Click before typing

Single line [End, Shift+H] Single

This screenshot shows two stacked actions. The top action is a 'Keyboard Shortcuts' step for 'Chrome: WhatsApp', with a 'Record shortcut' button and a 'Send key combination' input field containing 'Enter'. An arrow points down to the second action, which is a 'Type Into 'DIV'' step. It has a preview window showing a green bar, a 'Type this' input field with the expression '{ CurrentRow(4).ToString() }', and settings for 'Empty field before typing' and 'Click before typing'.

Use Browser Chrome: Our Volunteers | Save Life Connect

Browser URL

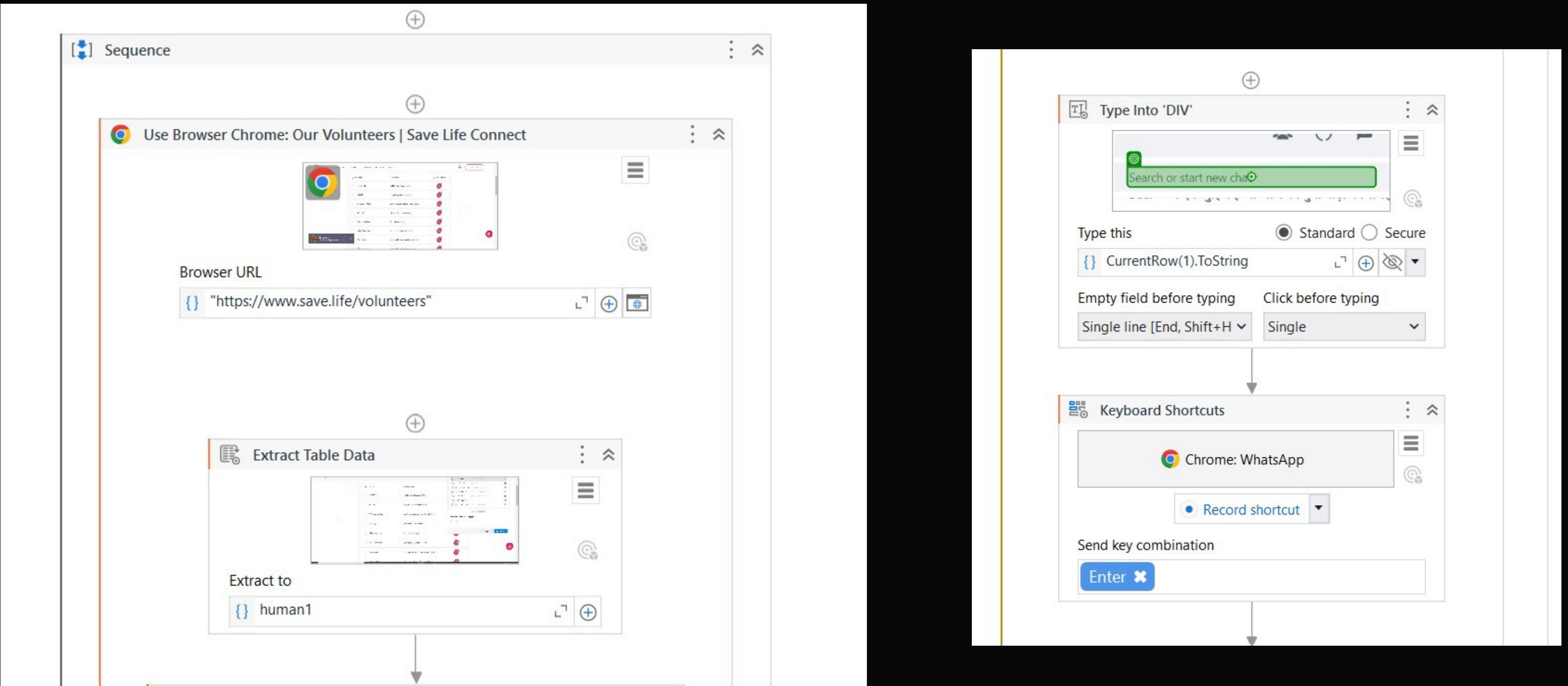
{ "https://www.save.life/volunteers" }

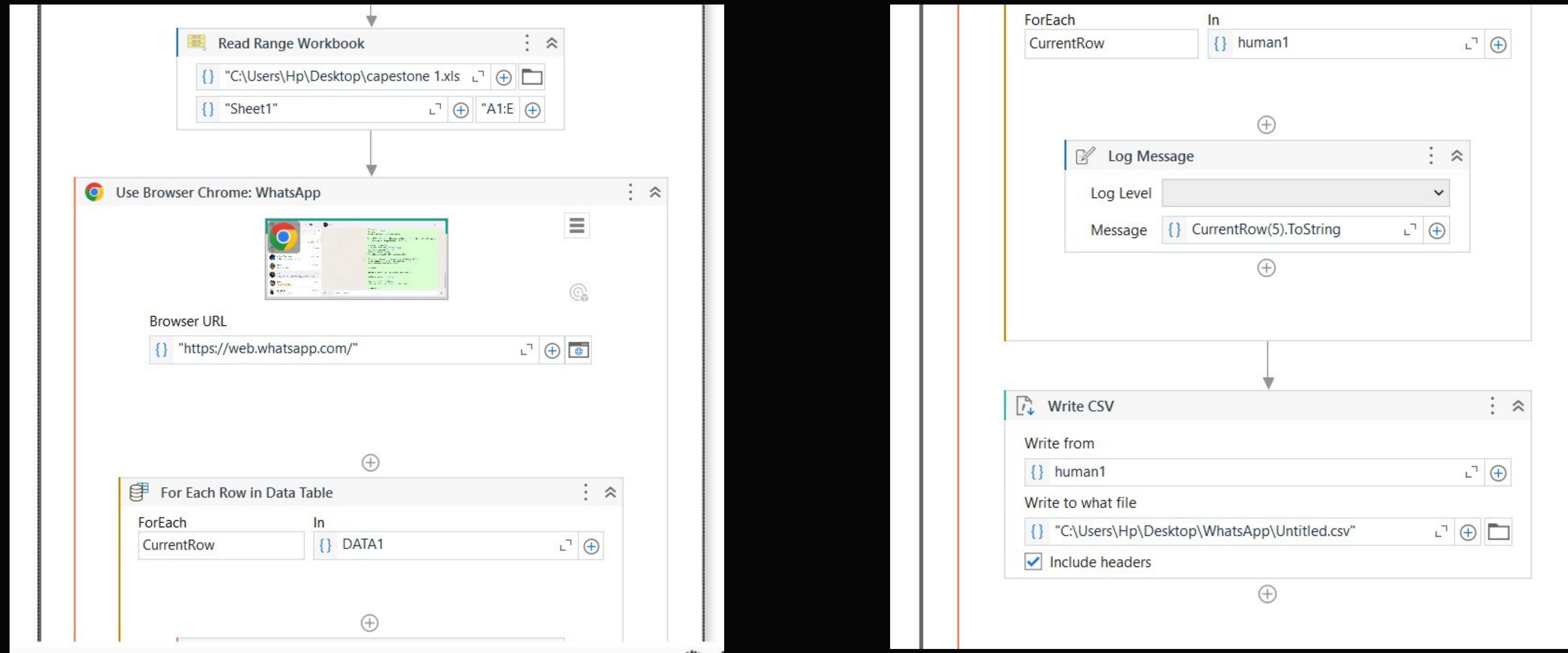
Extract Table Data

Extract to

{ human1 }

This screenshot shows a 'Use Browser Chrome' step for the URL 'https://www.save.life/volunteers'. Below it is an 'Extract Table Data' step, which has a preview window showing a table with several rows and columns, and an 'Extract to' input field containing 'human1'.





2	Pankaj Kumar Srivastav	Mcs Hospital Gyanpur Bhadohi	9026854294	O Negative	ansh	hi , your blood donor is being found
3	Santosh Kumar Yadav	Milki Gyanpur Bhadohi	9956191717	NA	priya	hi , your blood donor is being found
4	Cb Ravat	Milki Gyanpur Bhadohi	8115796266	NA	mom	hi , your blood donor is being found
5	Jayamendra Maurya	Sti Gyanpur Bhadohi	9454052506	NA	papa	hi , your blood donor is being found
6	Deepak Rawat	Jamunipur Coloney Bhadohi	9044607035	NA	bhaiya	hi , your blood donor is being found
7	Rakesh Pathak	Jamunipur Coloney Bhadohi	9005740015	NA	pranay	hi , your blood donor is being found

CONCLUSION

This project displays the process of data extraction and data migration through Robotic Process Automation(RPA) Web scrapping process is being done on a website named savelife.com. Robotic process automation (RPA) is a technology that automates repetitive tasks by training software to complete them. In this paper the data which are scrapped are the list of probable donors with their address and blood groups.

In the paper the use of whatsapp is to send the extracted data to the customer through automation. The motive of making this paper is to send the probable blood donor's details to the customer in a simple way, so that if they want it , it can happen in a simple manner. As whatsapp is very commonly used socializing application , it makes this paper more reachable to the public, Thus making it accessible to wider audience reducing the complications. The bot used in the study exhibited impressive results in terms of efficiency and effectiveness. The Data collected by the RPA robot is highly accurate, with minimal error. The bot developed through RPA reduces the time and effort required for tasks that typically consume 19% of employees' working hours. To enhance the code readability, tasks such as logging messages are directly incorporated into the workflow sequence. While simple workflows in RPA can be executed efficiently and accurately, complex workflows require additional effort to accomplish.

References

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THANK YOU
