1 INTRODUCTION

1.1 Overview

Currency converter is a digital worker which automates the conversion of one currency to the other. It includes an object studio flow, to automate the conversion and a process studio flow to work with the excel sheet. The digital worker converts the amount, enters the result into the excel sheet and sends the updated excel sheet to an Email account and a WhatsApp contact.

1.2Purpose

The main aim for this currency converter is to maintain real-time information on current market or bank exchange rates, So it will be helpful to calculate changes of the result whenever the value of either of the component currencies does. The digital worker allows for the quick conversion of currencies.

2 LITERATURE SURVEY

2.1 Existing problem

Product in market	Drawback	Reference
botstore.automationanywhere.com	Only 32 currencies available	https://botstore.automationanywhere.com/bot/a2019-currency-converter-2
marketplace.uipath.com	Uses API	https://marketplace.uipath.com/listings/currency-conversion-activity

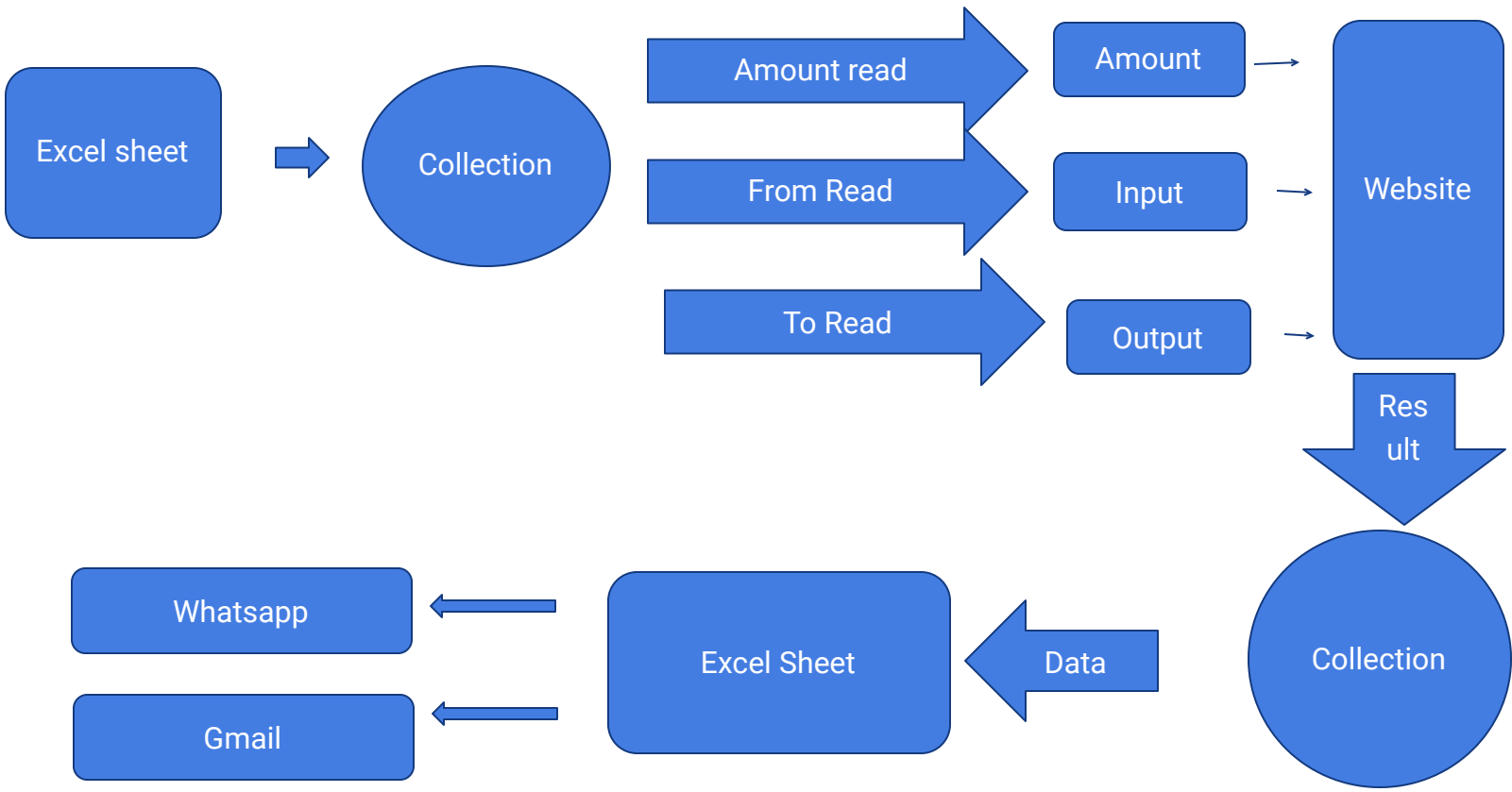
2.2 Proposed solution

Our solution to overcome the above drawbacks:

- Our bot uses website for conversions and it has 50+ currencies available.
- API services may not be free after crossing a certain limit. There's no limit as such on websites.

3 THEORITICAL ANALYSIS

3.1 Block diagram



3.2 Hardware / Software designing

Hardware requirements

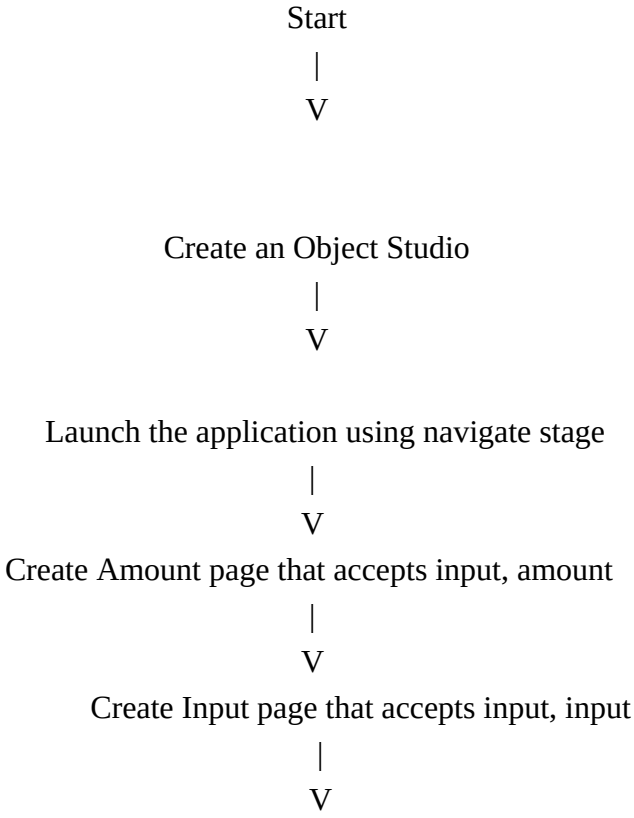
- Minimum 10GB free disk space.
- Windows 8.1 or 10 (64-bit version only)

Software requirements

- Operating system: Windows
- Software: Blue prism

4 Flowchart

Object studio flow:



Create Output page that accepts input, output

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V

Create Convert button page that clicks on the convert button

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Create Result page that sends the output to Process Studio

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Create pages to open Gmail and send a mail

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Create a page to send the Excel sheet through WhatsApp

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V

Terminate the flow

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V

Publish the object studio flow and save it

Process studio flow:

Create a process studio

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Import MS Excel VBO

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Create an instance for the Excel sheet

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V

Open it and extract the data into a collection

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V

To launch the site use launch page of object flow

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Import Collection Manipulation VBO

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V

Read the values of “Amount”, “From” and “To” from collection and store them

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Write the data on to the site using “Amount”, “Input”, ”Output” pages of object flow

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Convert the currency using “Convert button page” of object flow

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V

Using “Result” page of object flow get the result

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Write the result into the collection

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V

Write the collection back to the Excel sheet and save it

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Close the instance

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V

Use the “Gmail” and “WhatsApp” pages to send the Excel sheet

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V

Terminate the Application

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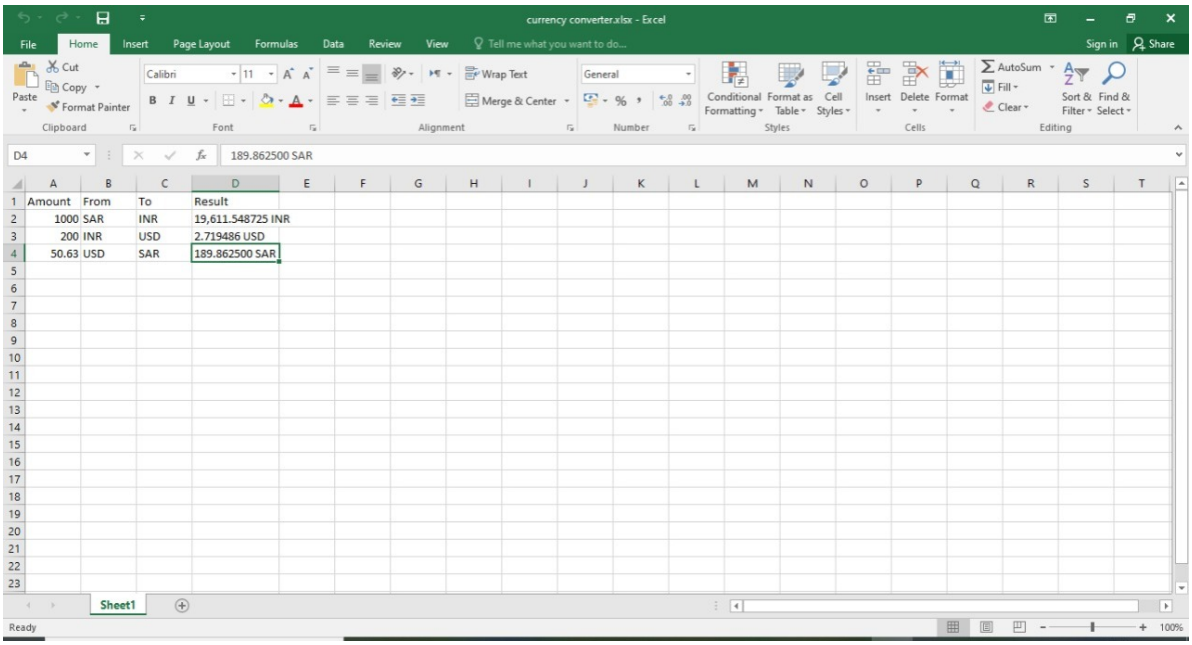
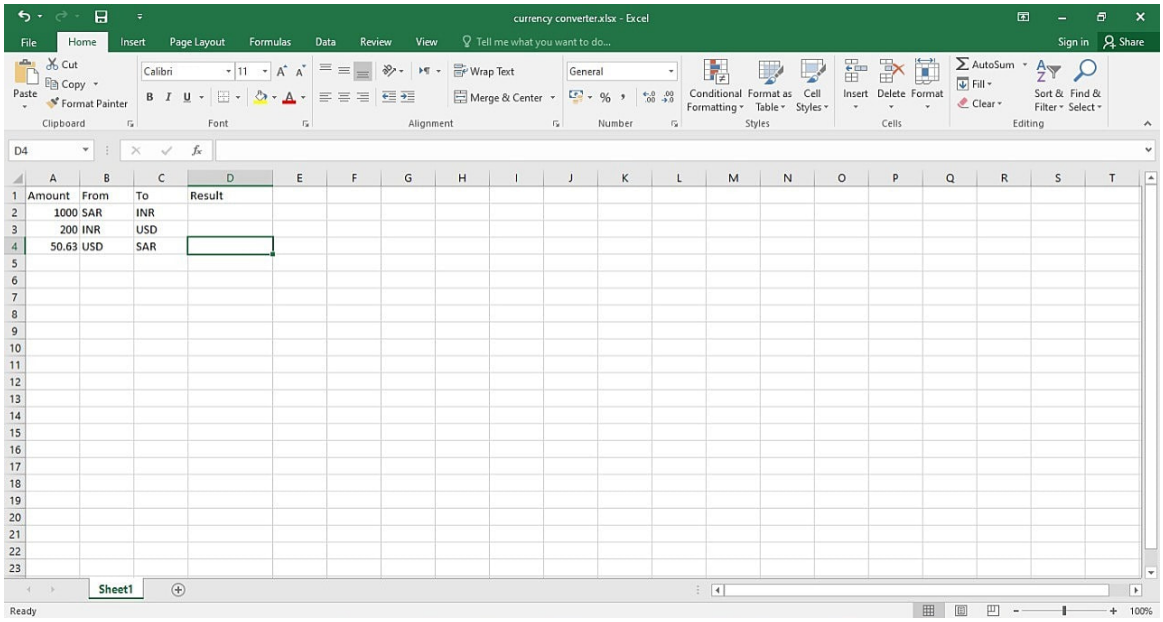
V

End

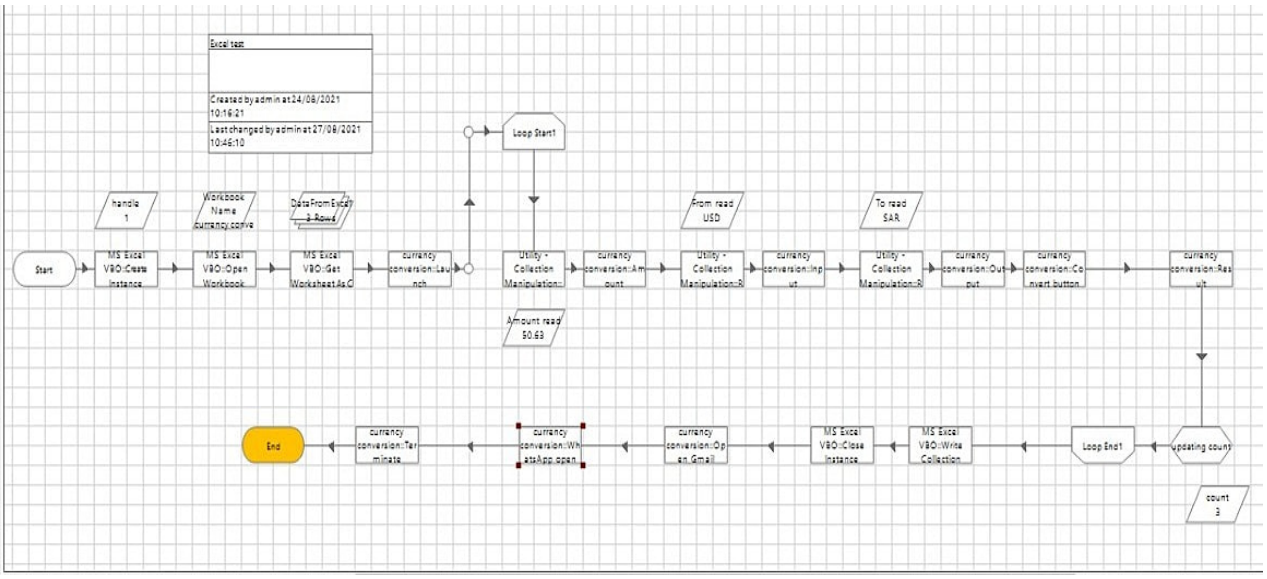
5 RESULT



EXCEL SHEET WITH RESULT



EXCEL SHEET WITHOUT RESULT



PROCESS FLOW

6 ADVANTAGES AND DISADVANTAGES

Advantages:

- Reduces human efforts and time
- Efficiency in conversion
- Shorter workweeks for labour
- Reliable on results

Disadvantages:

- Software dependencies
- It's more expensive to automate. Initial investments are bigger than manual testing.
- You cannot automate everything; some tests still have to be done manually.
- Internet is required.
- With the introduction of automation some jobs may become redundant.

7 APPLICATIONS

- An easily accessible online currency converter is very useful to show travellers how their own currencies will fare when exchanged with other foreign currency.
- Moreover, currency converters help international import and export businesses by helping them determine the selling and buying profits of different products.
- Currency conversion is also useful for forex traders, offering the ability to track changes in exchange rate valuations in real time, even when not at the trading desk.
- A currency converter is useful if you are travelling between different countries that have different types of currencies. I can determine how many euros I can get for my US dollar when I arrive.
- Also if I'm buying food at a restaurant I can tell what my food is costing in US dollars which is what I'm used to.

8 CONCLUSION

The digital worker "Currency converter" has been developed using Blue Prism. This converts the amount from one currency to another as mentioned in the Excel sheet and writes back the converted amount into the same Excel sheet. This updated sheet is sent via Gmail and WhatsApp.

Manual Conversion may result in errors, but by using the digital worker, one can completely rely on results.

9 FUTURE SCOPE

- This digital worker can be enhanced by including an additional feature of notifying its user. When the person wants to do a transaction to an another country, the user can give a command to the bot stating that he/she wants to do the transaction, also mentioning, the time period within which he/she wants to do it.
- The bot checks within the given period, when as to, the exchange rate for the marked transaction goes high and notifies the status to the user. The user, then, can decide accordingly when he/she wants to do the transaction in order to get a profit out of it.

- The bot can further be enhanced by adding a feature of automating the process of to and fro transactions.
- We can add an additional column in the Excel sheet wherein, the date on which the conversion took place will be saved.

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