REPORT

WEB AUTOMATION USING RPA

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1. Introduction

In this project, we will build an process to automate an currency converter web application using blue prism.Web automation is the concept of letting software robots perform actions, tasks, and processes on a web browser or web application .The excepted outcome of this project are:

1. Should launch the web application.

2. Should able to take the values automatically from the Excel Sheet.

3. Should be able to store the values back to the excel in the result column.

Tool to be used:

➤ **Blue Prism**

1.1 About Blue Prism

➤ **Introduction to Blue Prism**

Blue prism is a UK-Based Software Company and is one of the leading robotic process automation tools. It is used to automate mundane tasks such that they could operate without any manual intervention. Blue prism has gained edge over its competitors as it has better security, flexibility, scalability, compliance, and resilience.

Pre-requirements for Blue Prism :-

The following are the prerequisites for the Blue Prism. It is the only software which creates and supports a digital workforce of industrial strength and enterprise scale does not require IT skills to implement. Can be implemented in sprints of 4 to 8 weeks (Start to finish)Is very low cost compared to the TCO of alternative solutions provides tremendous payback with self-funding returns and an ROI that has been as high as 80% can be managed within IT infrastructure and processes.

1.2 Purpose

The Currency Conversion Bot was created for users who need to perform currency conversion as a part of their bots execution. Tell the bot an input currency, an output currency, and an amount to convert – and the bot will respond back with an output amount, converted to the target currency. This utility is great for any sales or finance and accounting automation. Use this bot as a sub-task called from your quote, order, billing, tax, or any other bots you've already built to quickly extend the capabilities of your task or process automation. Great for using as a part of your own accounts receivable, accounts payable, quote to cash, procure to pay, tax accounting and any financial sales process automation!

2. Literature Survey

2.1 Existing Problem

Different countries use different currencies and these currencies change daily compared to each other. Those who have transferred money (one currency to another) from one country to another must be updated with the latest currency exchange rates in the market. With this in mind, the Currency Converter project has been created. This is just an app development like a calculator. In this application, there are regular updates about each country's currency by which it reflects the current currency market value and conversion rate. Such an application can be used by any user, but it is mainly useful for business, shares and finance related areas where money transfer and currency exchange takes place daily. In this currency converter app, users are given the option to choose the type of conversion, i.e. "this" currency to "to" currency. This simple feature allows users to enter the amount to convert (say currency in dollars) and display the converted amount(say currency in euros).

2.2 Proposed solution

"Forecasting of currency exchange rates using an RPA based training", Soft and evolutionary computer-based techniques have been introduced in the literature to overcome the limitations of statistically based methods of estimating exchange rates.
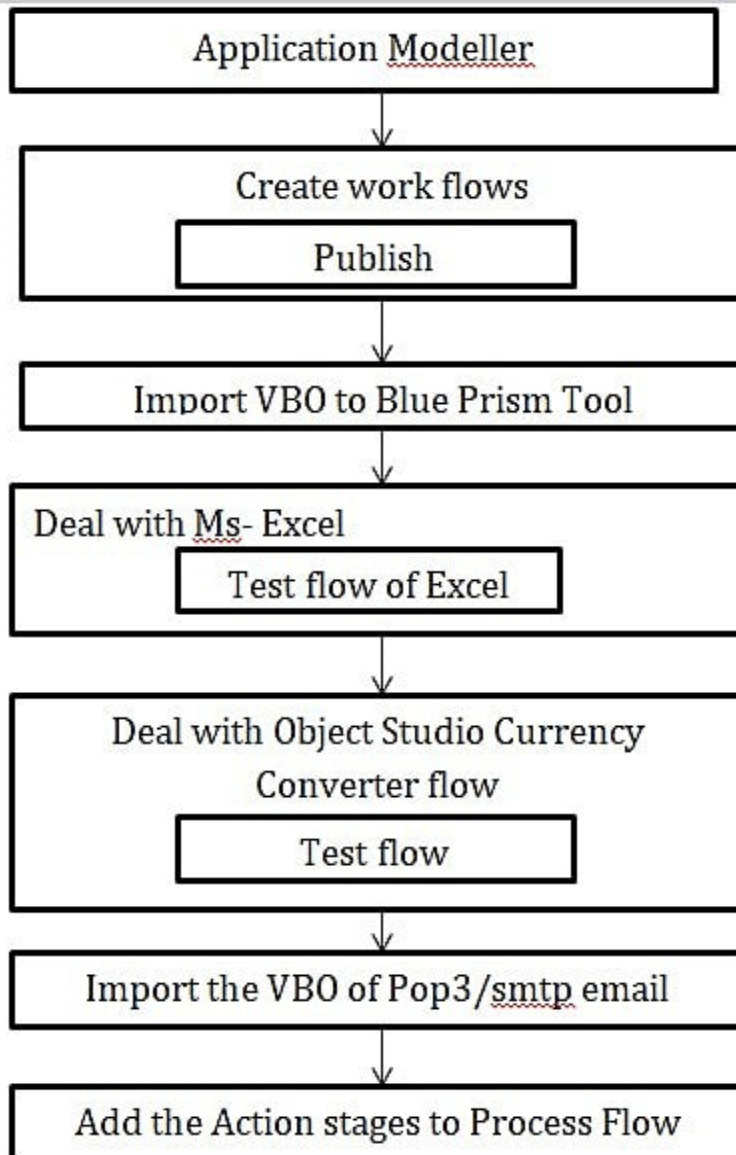
Creating a currency converter that will take data from authenticated sources that are looking to invest abroad or perhaps going on holiday will reduce the time it takes to serve customers and they need local currency to buy goods when the user opens the app, first of all the splash screen will open and the data will be refreshed. If an internet connection is available, an online currency converter with current currency values will be shown

3. EXPERIMENTAL INVESTIGATIONS :

While working on the project we came to know that we could automate sophisticated tasks with no coding. The application can simultaneously convert to currency using an online information source.Different countries use different currencies and these currencies change daily compared to each other. Those who have transferred money (one currency to another) from one country to another must be updated with the latest currency exchange rates in the market. With this in mind, the Currency Converter project has been created

4. THEORITICAL ANALYSIS

4.1 Block Diagram


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┌─────────────────────────────────────┐
│        Application Modeller          │
└─────────────────────────────────────┘
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                  ▼
┌─────────────────────────────────────┐
│          Create work flows           │
│   ┌───────────────────────────┐      │
│   │         Publish           │      │
│   └───────────────────────────┘      │
└─────────────────────────────────────┘
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┌─────────────────────────────────────┐
│    Import VBO to Blue Prism Tool     │
└─────────────────────────────────────┘
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┌─────────────────────────────────────┐
│  Deal with Ms- Excel                 │
│   ┌───────────────────────────┐      │
│   │     Test flow of Excel    │      │
│   └───────────────────────────┘      │
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┌─────────────────────────────────────┐
│  Deal with Object Studio Currency    │
│          Converter flow              │
│   ┌───────────────────────────┐      │
│   │         Test flow         │      │
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                  ▼
┌─────────────────────────────────────┐
│   Import the VBO of Pop3/smtp email  │
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┌─────────────────────────────────────┐
│  Add the Action stages to Process Flow │
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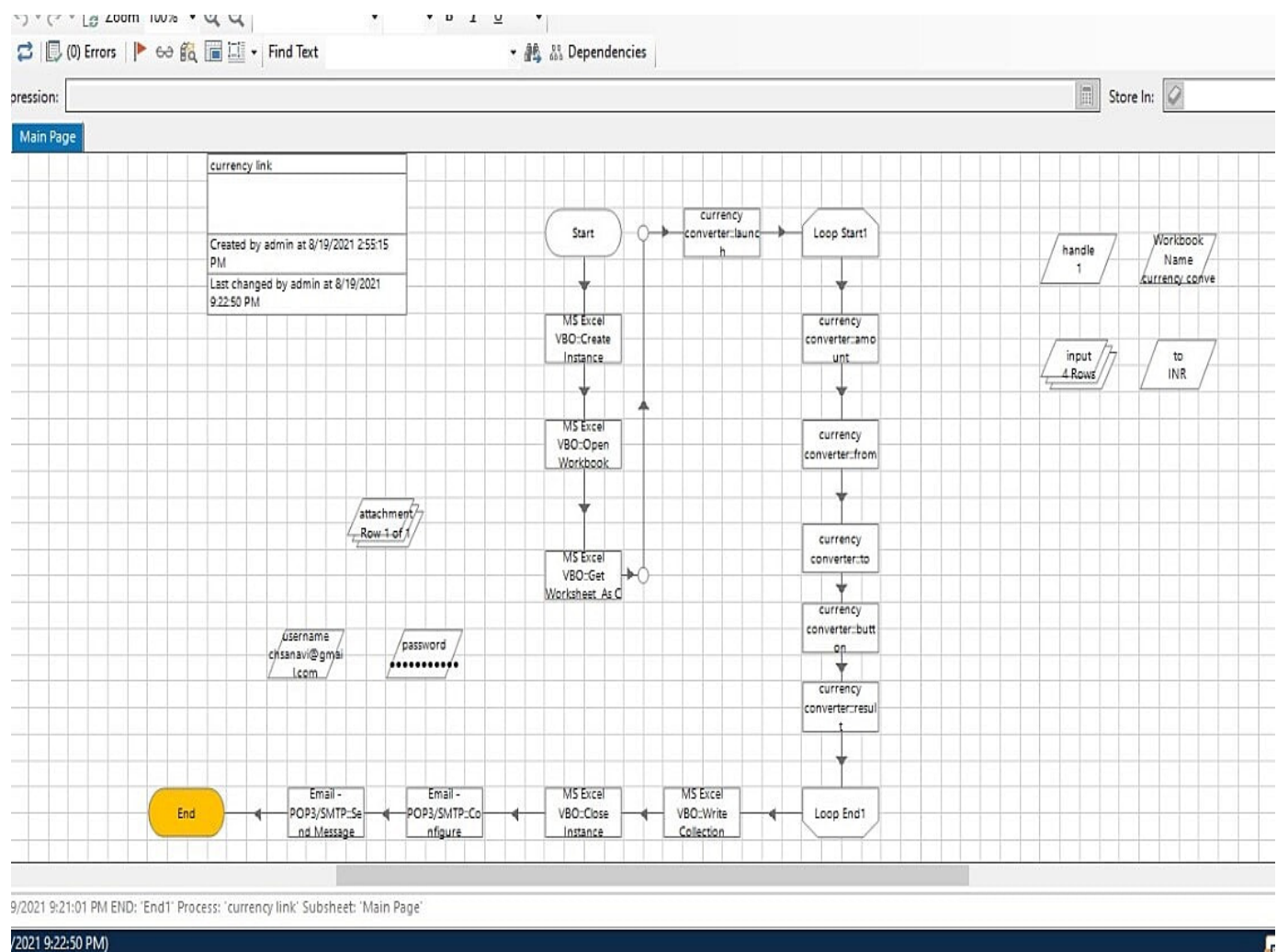
4.2. Hardware/Software Designing :

The following is the Hardware required to complete the project:
- Internet connection to download and activate.
- Administration access to install and run Blue Prism.
- Minimum 10GB free disk space
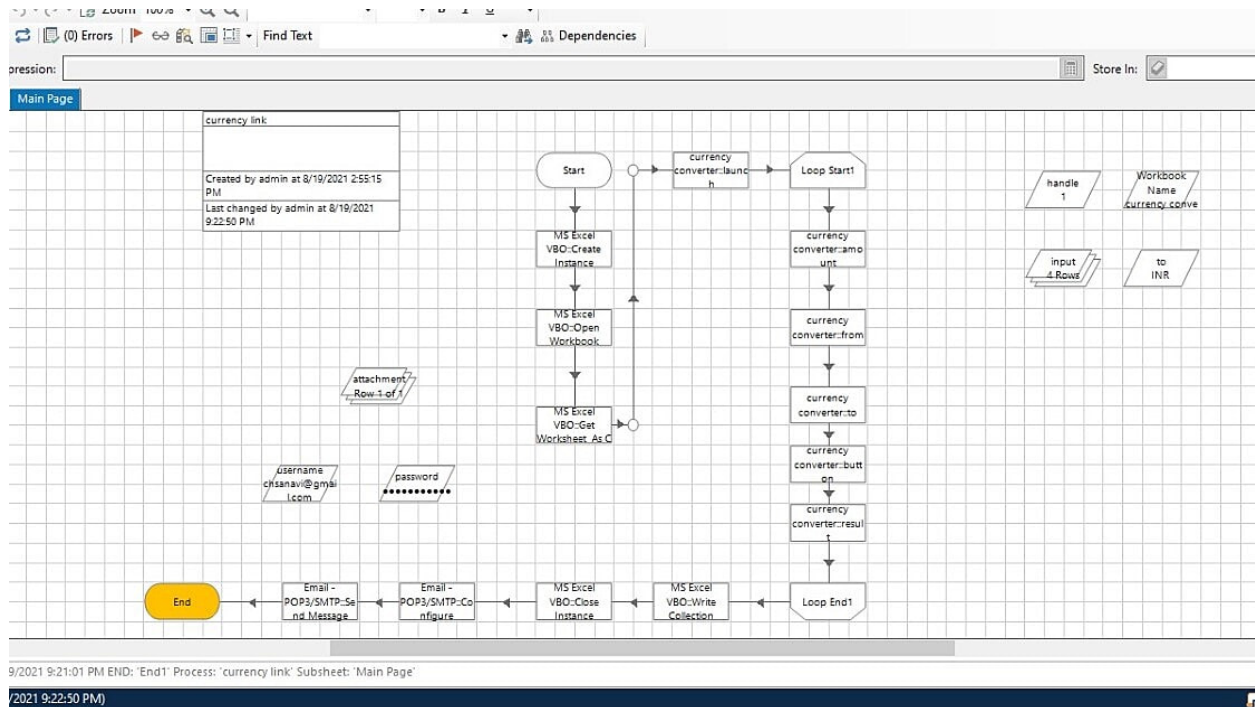- Windows 8.1 or 10(64GB version only) OR cloud: Get started free, *Cloud account required.

Software Requirement:
- Blue Prism

5. FLOWCHART

6. RESULT

7. APPLICATIONS

1. It is Easy to Use

2. It is Reliable

3. Offers Speedy Operations

4. It Can Be Used In Import/Export Business

5. It is Efficient

8. ADVANTAGES & DISADVANTAGES

Advantages :

● Instant conversion from one currency to another without bringing up any apps/windows.

● Can be fully integrated into your own bot.

● Developed using APIs for improved resiliency.

● No API-key or auto tokens required.

● Accuracy and speed are very crucial when it comes to the for ex market.

● An online currency converter is a simple, handy, fast, and accurate tool. This means that traders can use this accurate tool in any situation when trading with different currencies.

Disadvantages :

● Long-term sustainability. RPA can become a serious decoy from the necessary long-term work needed to digitize and make processes and administrative work more efficient. There is a risk that you may focus on quick fixes rather than doing things the correct way from the start.

● Overall risk. Some problems aren't a good fit for RPA, especially when the stakes are high.

● Error magnification. RPA robots can't detect some obvious errors that a human would be able to immediately point out. If your data has problems with it, RPA robots will not call it out, but pass it on, magnifying an error that might have otherwise been caught.

9. CONCLUSION :

On launching the web application we can take the values automatically from the Excel Sheet and convert the provided amount from one currency to another required currency then at last we are able to store the values back to the excel in the result column.

10. FUTURE SCOPE :

The scope of automation is boundless. With the extension of Artificial Intelligence to automated systems, there is nothing that would not be accomplished. Indeed, they will be able to out-perform humans in most the facets that can be thought of. Additionally, it may be extended to tasks that are beyond human capabilities.

11. BIBLIOGRAPHY :

1. https://www.x-rates.com/calculator/