ROBOTIC PROCESS AUTOMATION

EMAIL AUTOMATION

1. INTRODUCTION:

Email has become the main method of communication for businesses around the world. It is critical to so many parts of your organization, but sifting through the inbox takes up valuable time.

Many organizations look to automation for specific parts of their email operations in order to serve customers more efficiently and allow humans to focus on the messages only they can handle.

Automates RPA functionality features an intuitive drag-and-drop interface that lets IT and business users quickly and easily automate email actions without writing a line of code. Use Automate for email automation with your overarching enterprise automation strategy.

2.LITERATURE SURVEY:

When we require to send a mail to number of users it may consume a lot of time. We can eradicate this problem using a blue prism software. By creating an _automated process

This can be done in two ways:

1.creating a bot which generates the mail and send it to multiple receivers

2.Directly importing Ms Excel and E mail VBO's by tracing its path.

In the first method we create an object studio by entering,opening and composing a mail and is linked with process studio which consist of Ms excel VBO

 The other way is by using using VBO'S of Email and Excel.In this we directly import Ms excel and Email VBO'S by attaching the required file and that's by tracing its path.
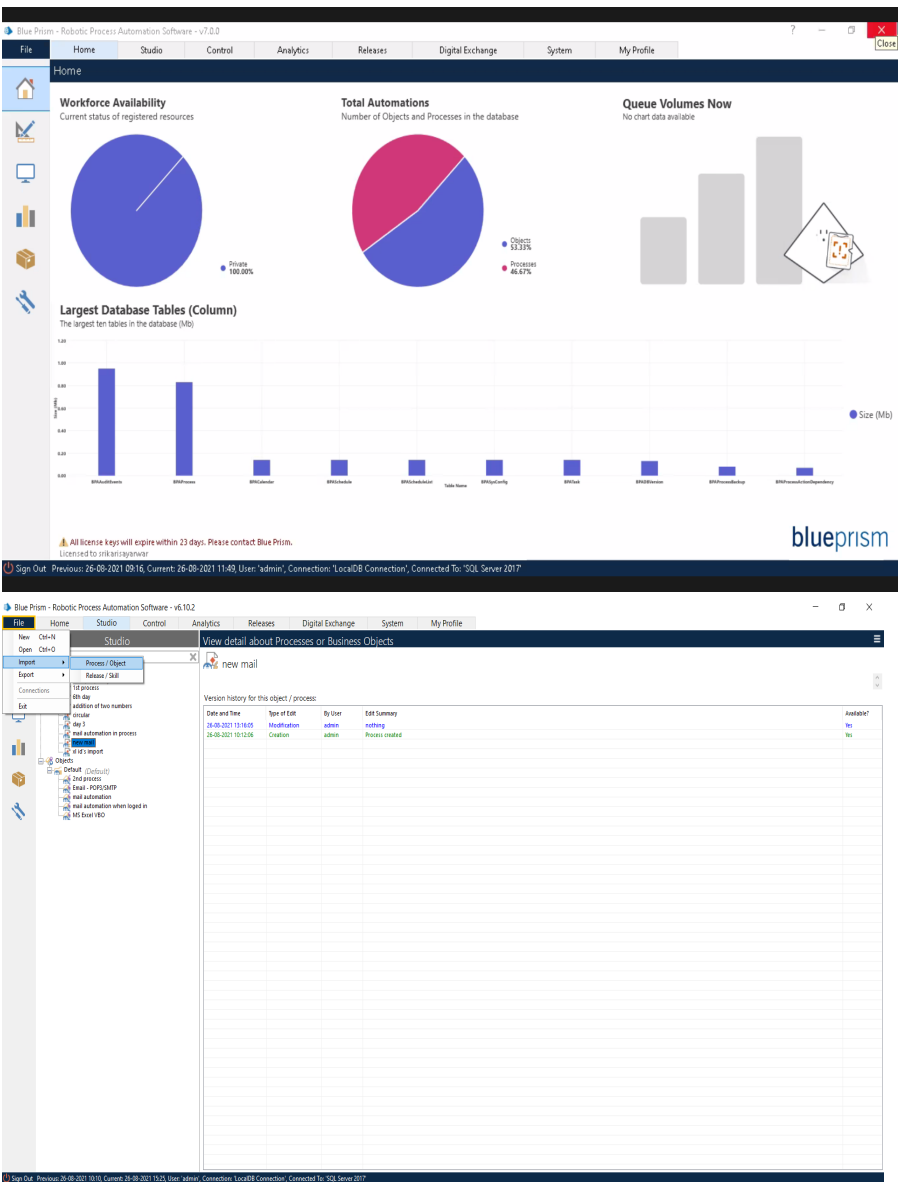
### 3.THEORITICAL ANALYSIS:

BLOCK DIAGRAM:

 step 1:

 As soon as we launch the blue prism software we will find subheading "file". On clicking on it we will find

import option where we will import MS Excel and Email VBO's will get imported.we could able to find the VBO's in below path."C:\Program Files\Blue Prism Limited\Blue Prism". And then cre
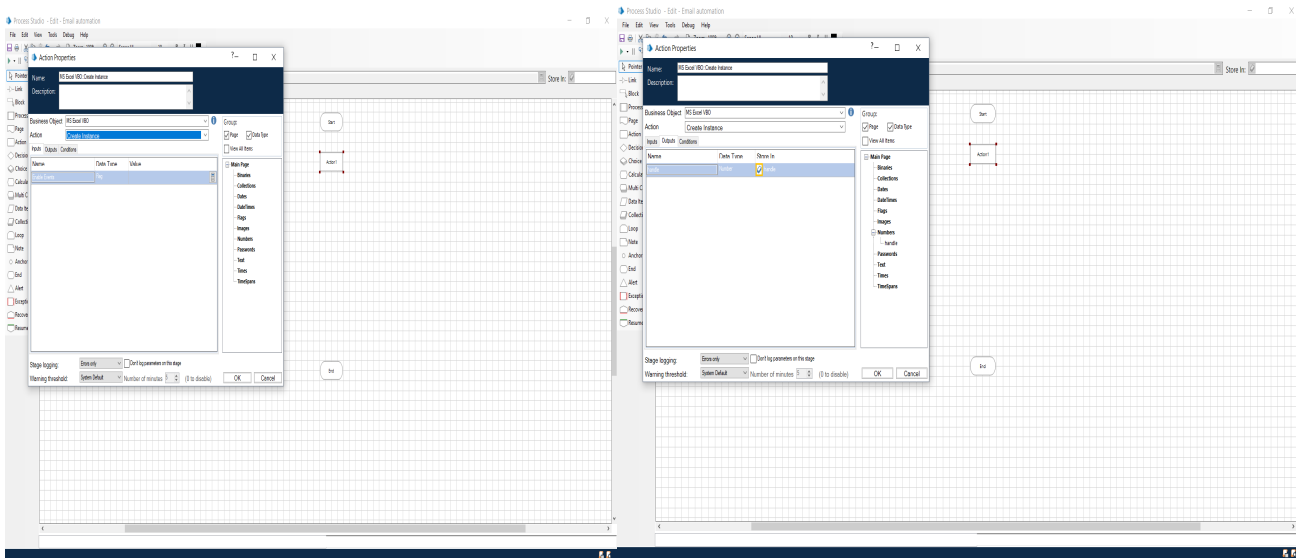
After creating and entering into process drag and drop the action stage to create an instance and fill it as shown below by using MS Excel object process.
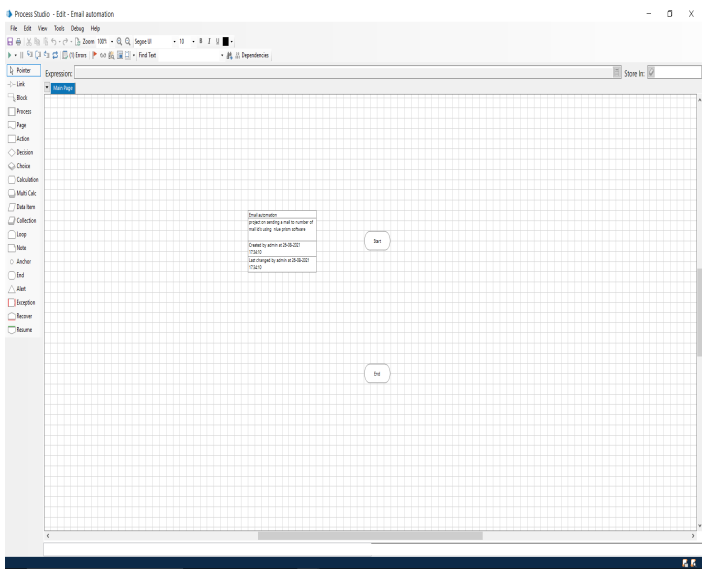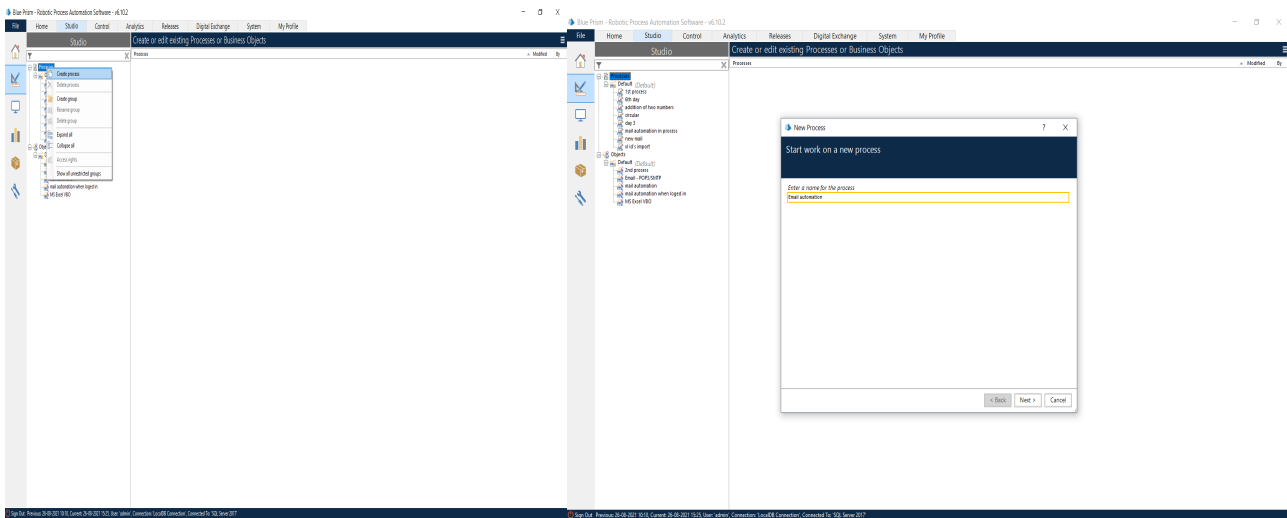
step 3: After creating and entering into process drag and drop the action stage to create an instance and fill it as shown below by using MS Excel object process.
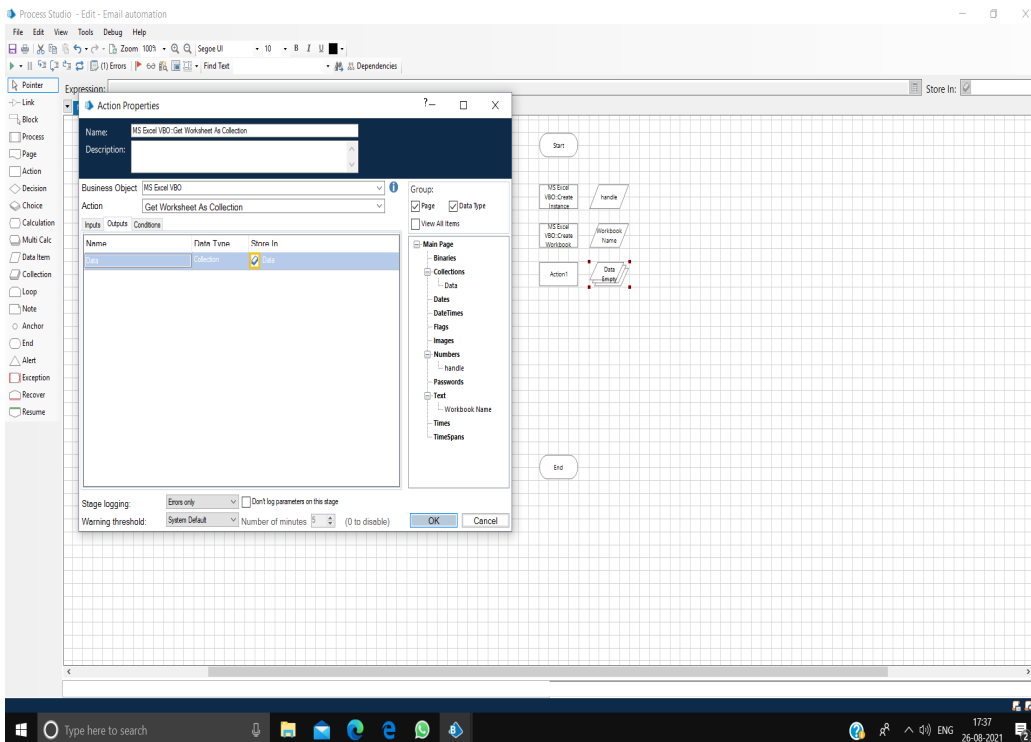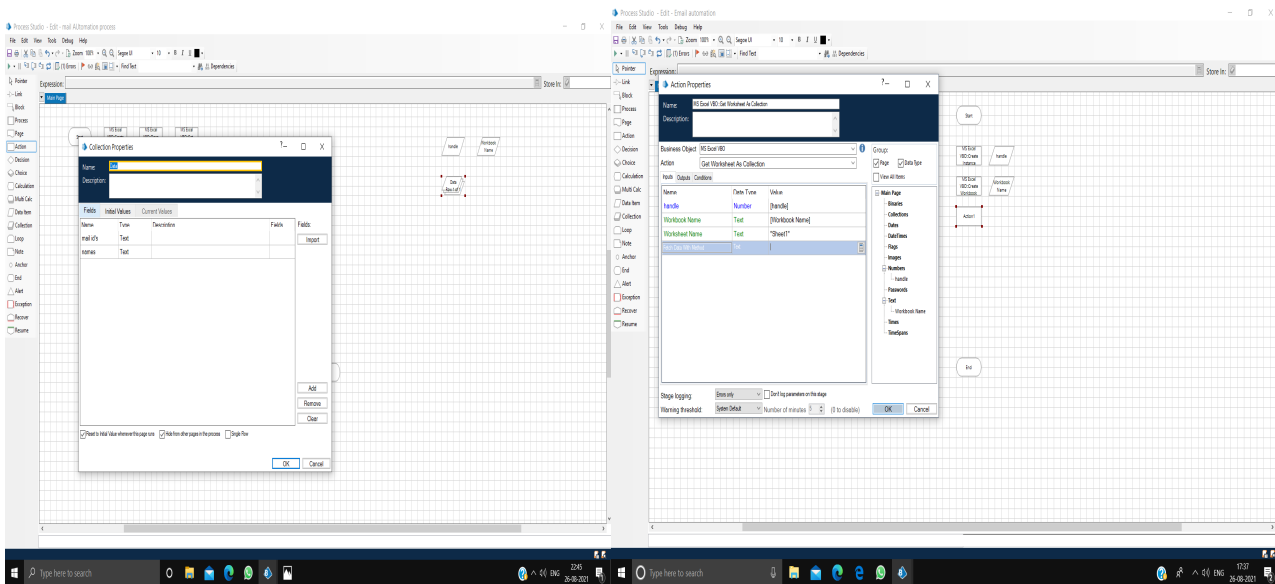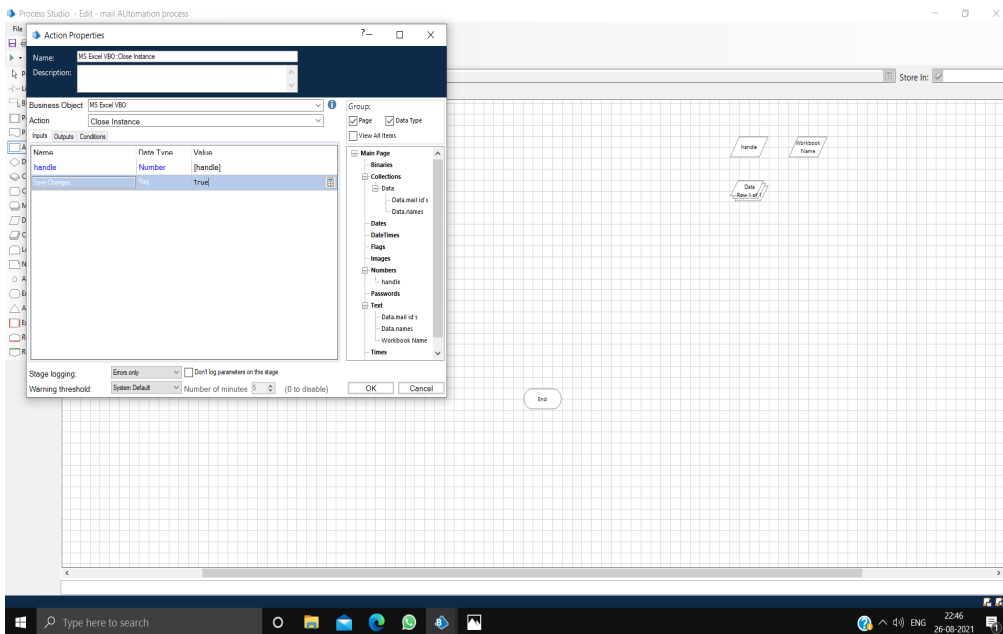
step 4: Now,drag and drop another action stage to open a work book.
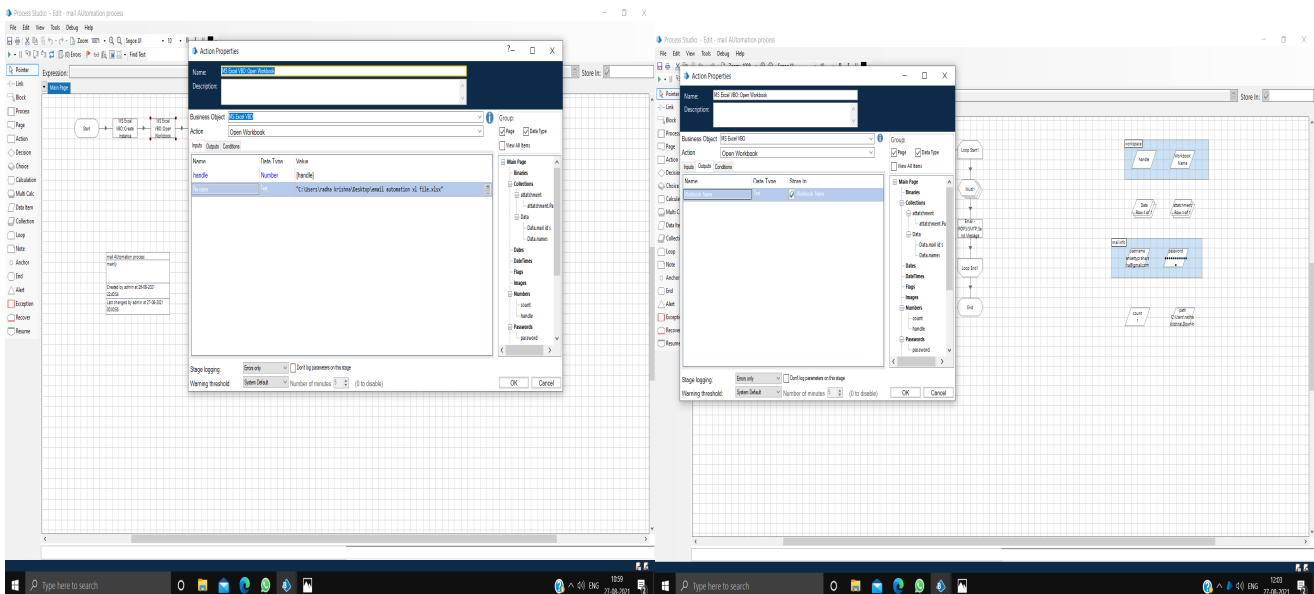
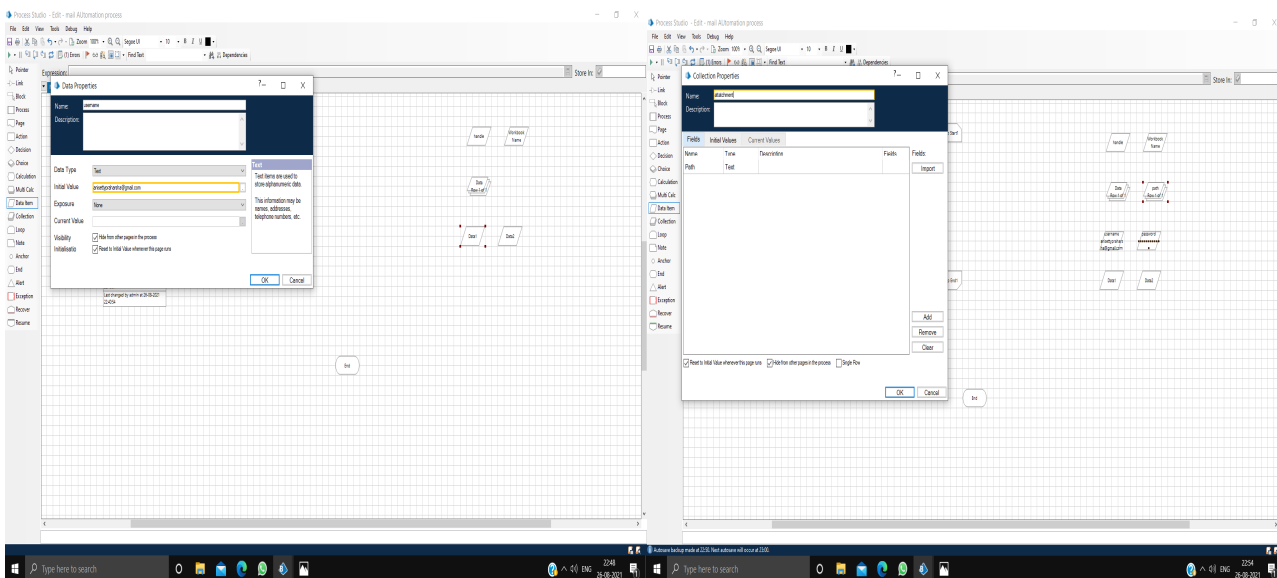**step 5:** In this step we will get the information of mail id's as collection by using action

"get worksheet as collection"

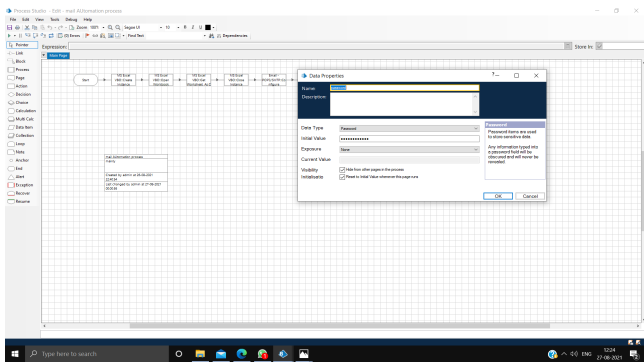**step 6**: this step is for closing instance using action stage which we opened at the step 3.

step 7: Create data elements of username,password,count,path and a collection for attachments.
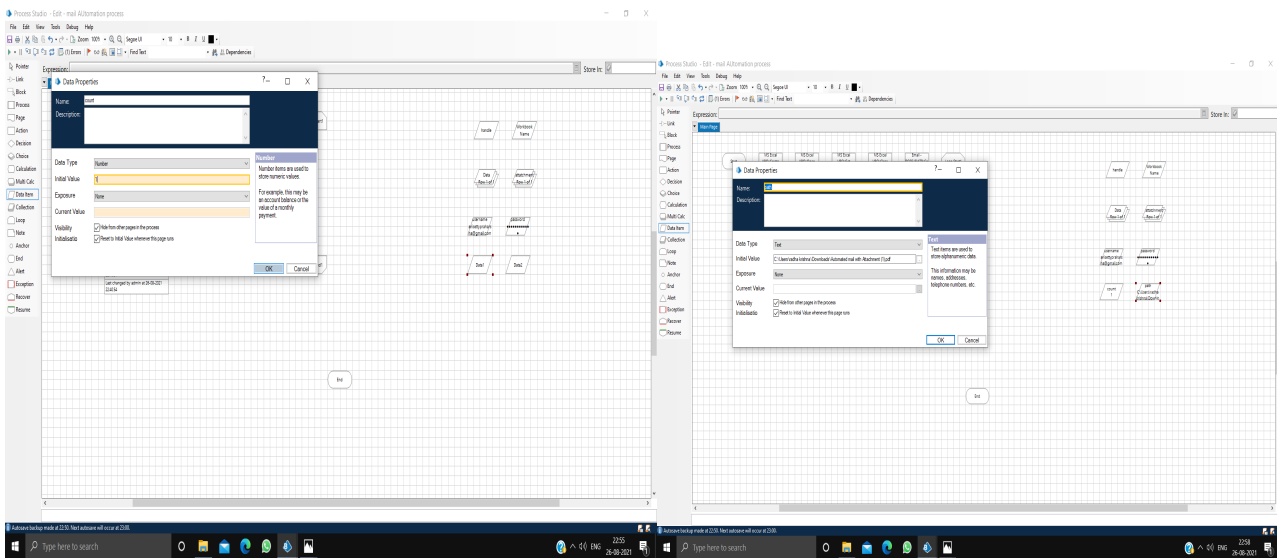
step 8: This step is to configure the Email path.
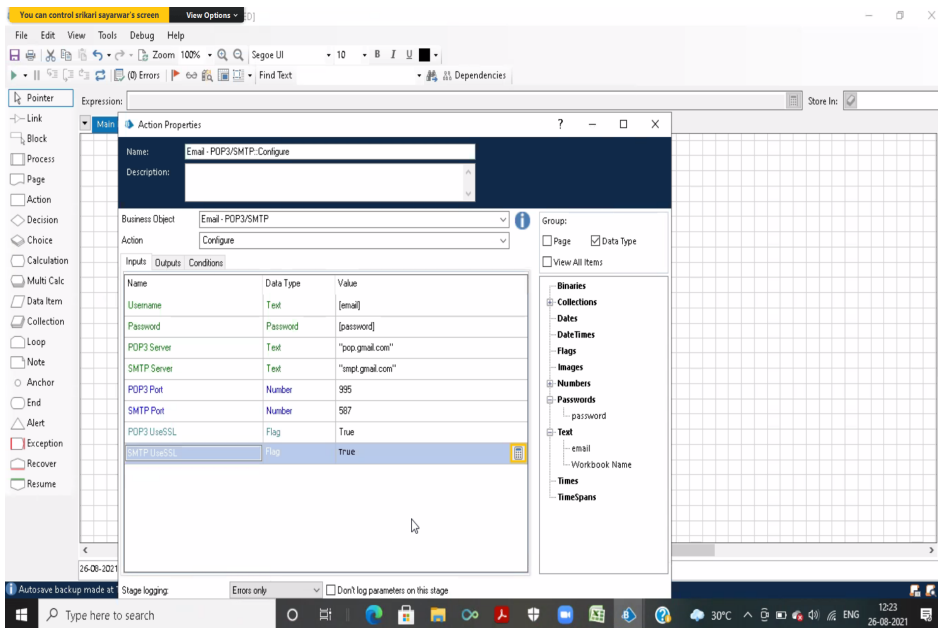
step 9: In this step we will create a loop with collection of data.

step 10: Here we insert "multi cal" stage to increment the count and trace the path for each mail.
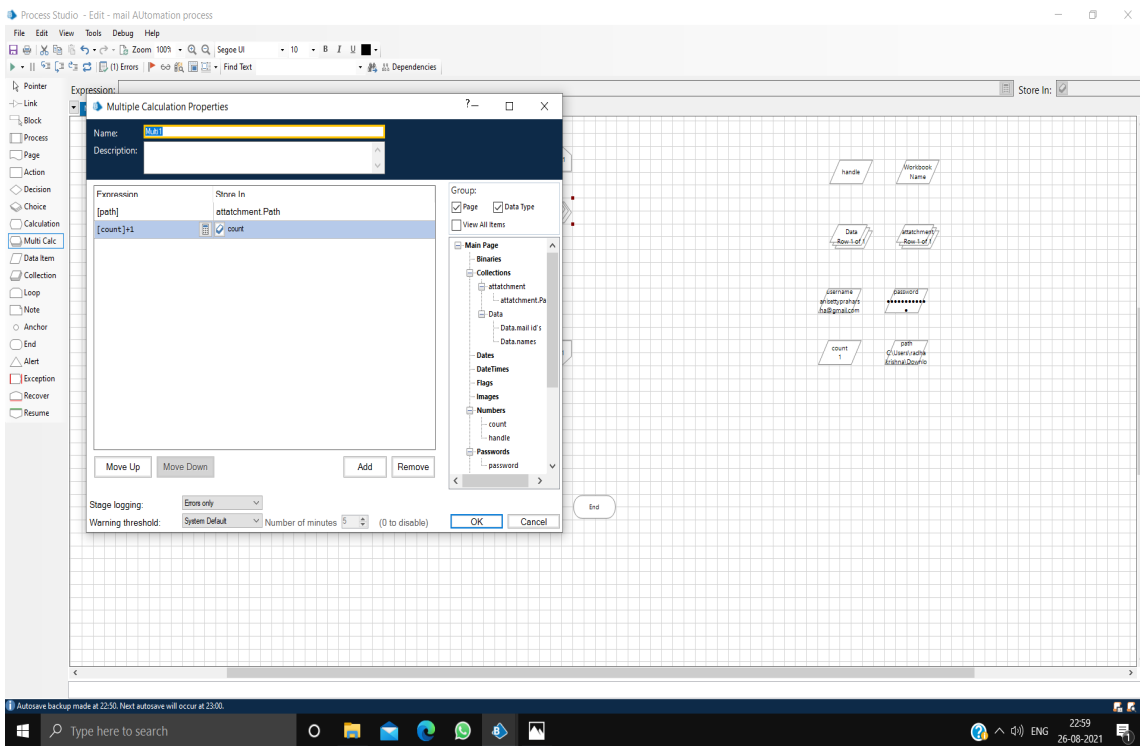
step 11: In this stage we will write the subject and body of the mail using the action stage as shown below.
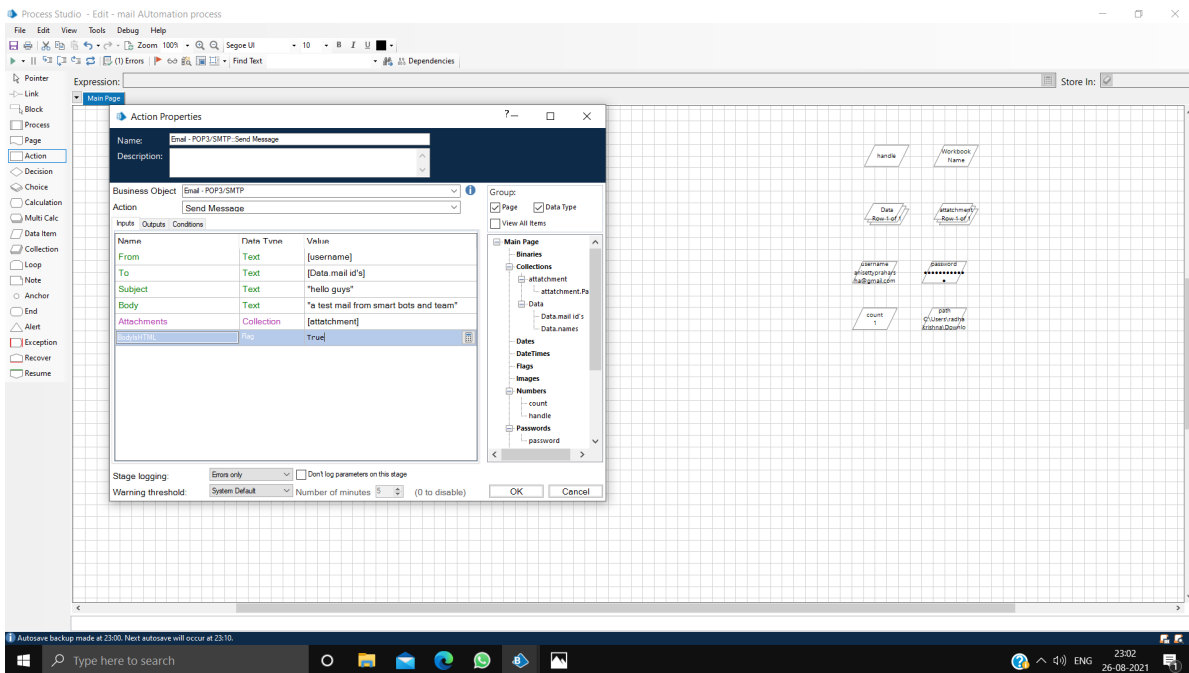
step 12: By linking all the stages the flow gets completed.By running the process the mails are sent.
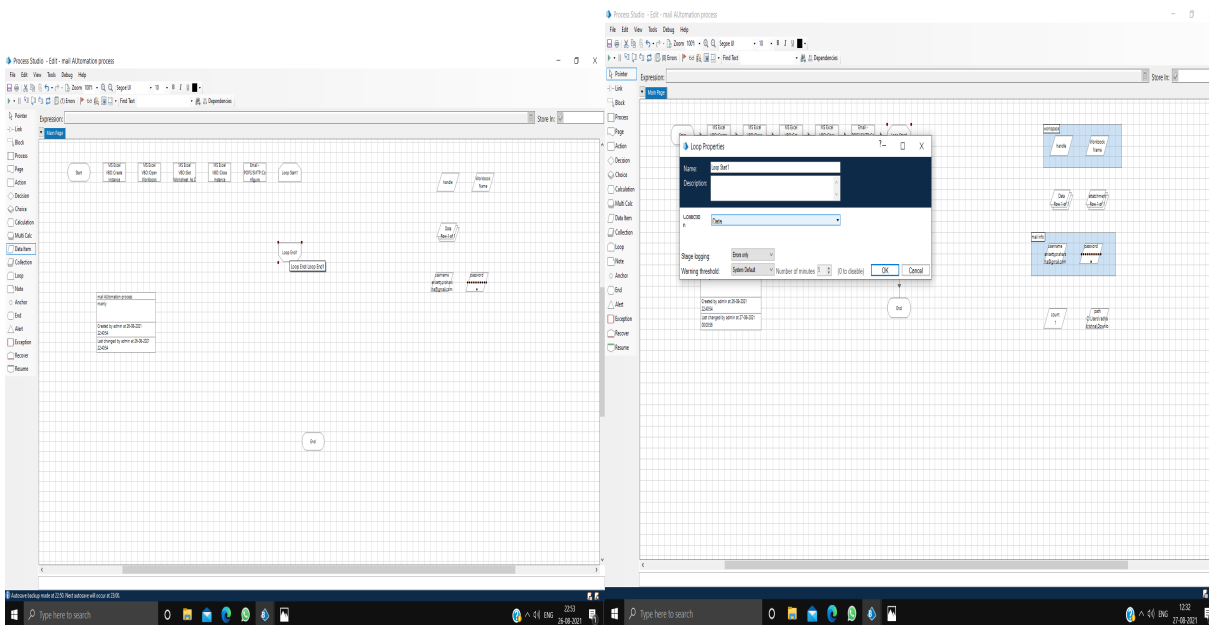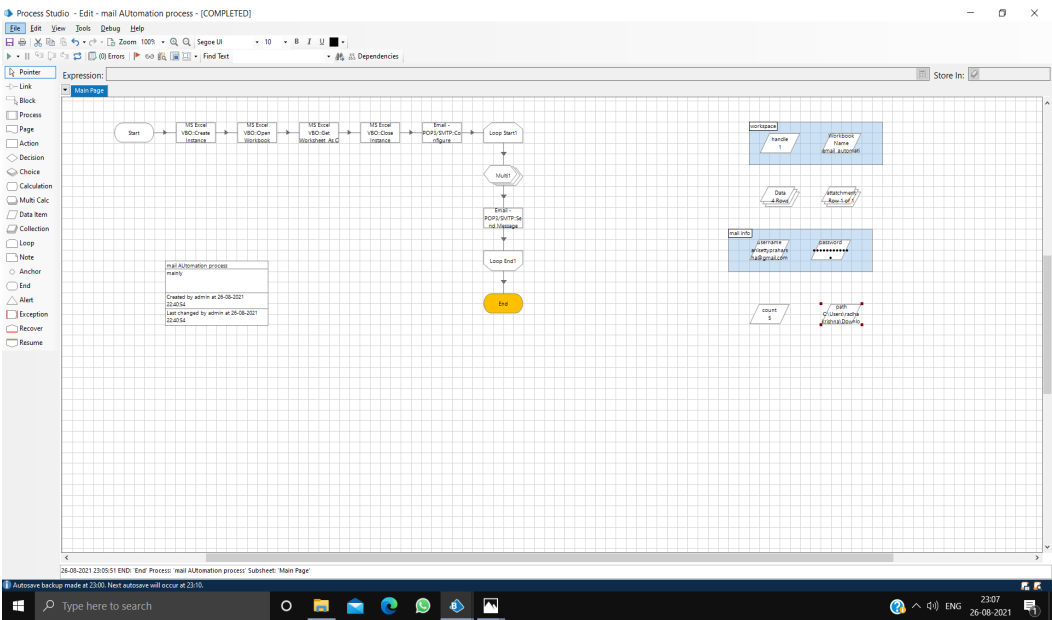

4. EXPERIMENTAL INVESTIGATION:

You can send multiple attachments by separating their paths using a comma; for example, c:\File1.docx, c:\File2.pptx.

While the process is running, keep your hands off the mouse and keyboard. The robot will be moving the mouse and pressing keys. If you interfere with its operation, the process may get interrupted with errors.

5.FLOWCHART:

6.RESULT:

7.ADVANTAGES AND DISADVANTAGES:

ADVANTAGES:

Considering the amount of time that opening, reading, responding to, and managing email takes out of most people's days, it's no surprise that RPA could have a positive impact when it comes to email. The obvious benefit of using RPA for email is time savings. Let's delve into some specific ways you can employ RPA for email to save time.

1. Launch tasks based on incoming email:
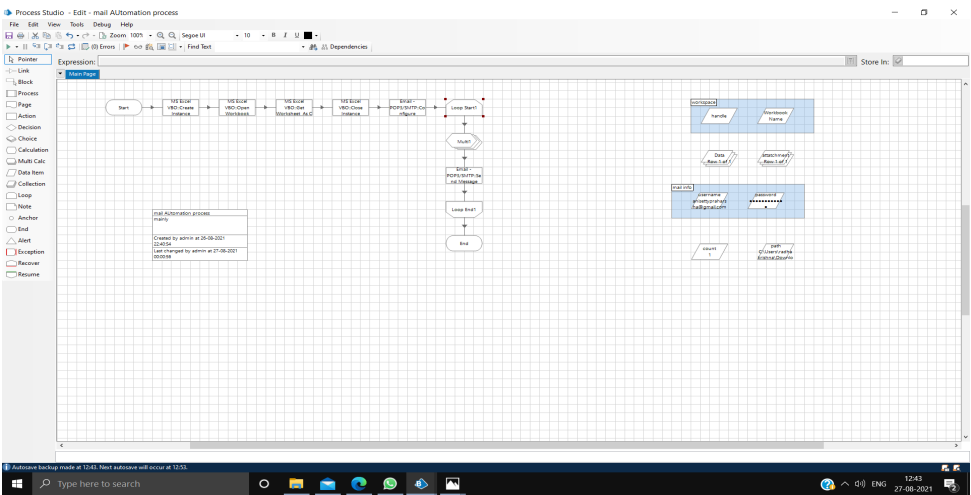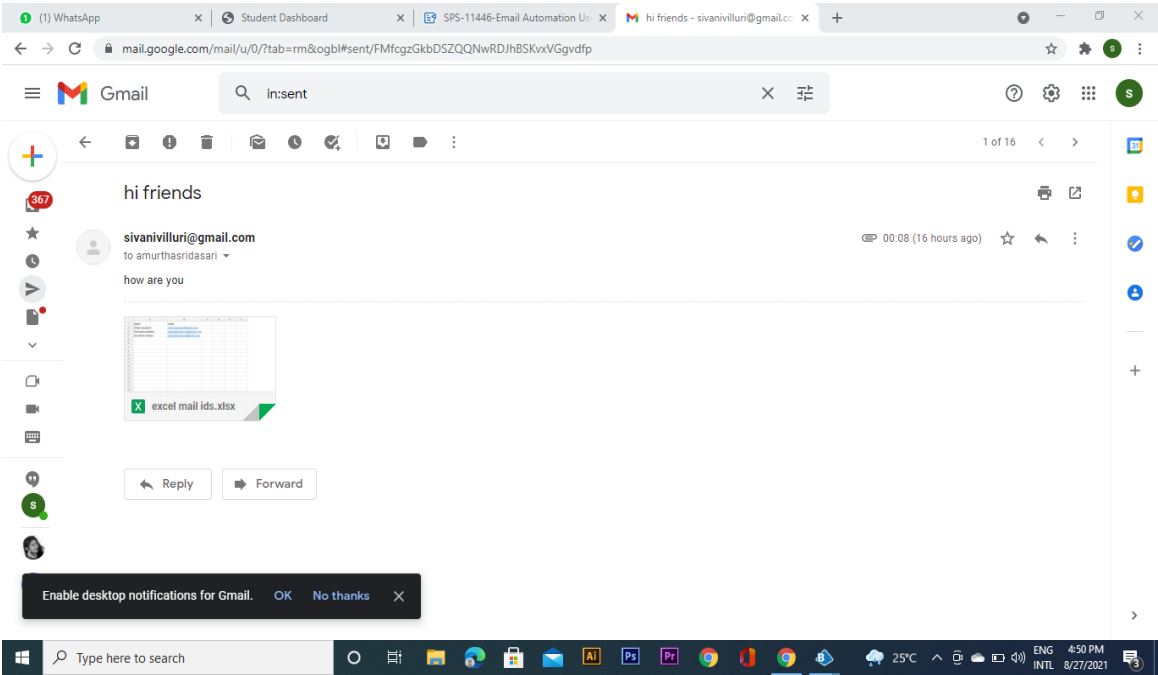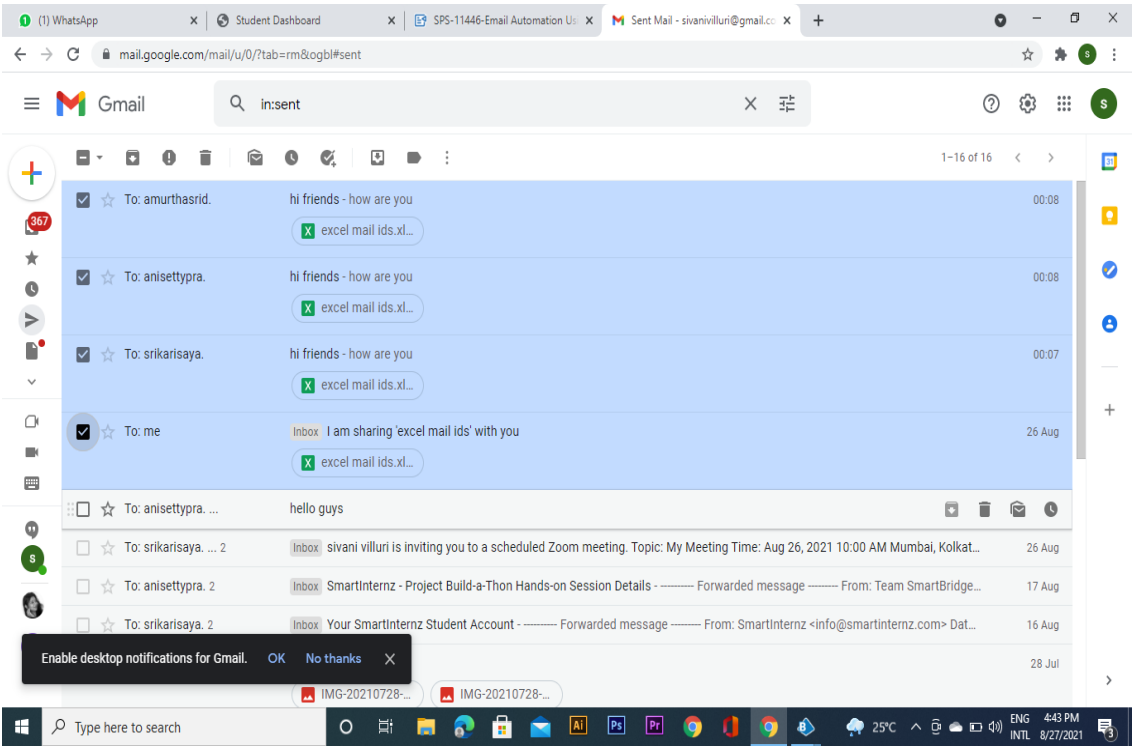Email automation can take care of a number of tasks coming into your inbox without manual effort.

2. Automatically route attachments from incoming email:
Whether it's an invoice, a receipt for archival, an Excel report, or another type of document, you can set up tasks with RPA to identify the attachment and follow rules for processing. Maybe the invoice is sent through AP processes, the receipt is sent to your document management system, and the Excel report is filed for reference later on. While Outlook automation does exist within the platform, it's limited by only being able to file emails within Outlook. An RPA bot could file your document or Excel within an EDMS or in SharePoint.

3. Automate outgoing email:
The possibilities for automating outgoing email are endless, but here are a few use cases. HR might need to email all employees within a certain region every other Tuesday to remind them to get their time off requests in before the end of the pay period. Sales support might need to generate and send a monthly sales report to each individual representative with their totals for the month.
Automating email in this way not only reduces that 28% figure, but it also helps you to be more agile and on-the-ball. The right information, document, or reminder can get to the right place at the right time, dependably, even if you are out of the office or busy with other value-adding work.

Benifits of Email Automation are:
1. Speed
2. Cost-effectice
3. Ease
4. Personalisation
5. Immediate response
6. Tracking
7. Viral
8. Opt-in
9. A/B testing
10. Integration

DISADVANTAGES:
There are also a number of disadvantages of email automation:
1. Being branded as a spammer
2. Burning out your list

3. Breaking the law
4. Alientating readers
5. Delivery issues
6. Design issues
7. Keeping customers engaged
8. Resource intensive

8.APPLICATIONS:

There are several applications of RPA, but here, we are listing some of the common application areas:
In this project we use it for **Generating Mass Emails:**
 If there is a need for sending mass emails frequently, then RPA can be a great option to automate the process.
Given below are the main applications of automated software robots:
• Report generation.
• Revenue forecasting.
• Beneficial to QA processes.
• Data validation and auditing.
• Data replication and migration. •
Customer Relationship Management and other operational sales activities.

Here are 3 of the most effective RPA tools:
• UiPath
• Blue prism
• Automation Anywhere

9.CONCLUSION:

In this project, We have covered one of the most common applications that Blue Prism processes have to interact with on a day-to-day basis: Microsoft Excel. We have seen how to open an Excel file, read its contents to a collection, and write to a cell.
The MS Excel VBO is a fairly new object that was made available to Blue Prism 6.3 developers. It has significantly simplified the task of sending emails compared to earlier versions. In this project, we completed the building of the process by getting the bot to send an email to the requester . We saw that after the search is complete, the email properties, message body, and attachments are all stored into a collection that we can retrieve by looping.

10.FUTURE SCOPE:

The future scope of RPA can be observed in the field of data entry and data re keying jobs. These tasks could be easily automated with RPA. The various repetitive tasks such as formatting, data assembling or anything which requires a series of steps are easily carried out with the help of RPA

This is due to the following benefits of RPA:
1. **Efficiency**: The software robots are highly efficient they can operate 24/7 without taking any break.
2**. Accuracy:** In order to carry out data entry task, the robots can perform it in the same way as the human beings without making any mistakes.
3. **Cost Reduction**: The software robots help to reduce the organizations cost.
4. Change management can be performed easily by the RPA as it reserves the application and data integrity.
5. **Enhanced audit and monitoring compliance:** A detail audit logs are offered by the robots by allowing the advanced business analytics and enhanced compliance.

From emails to segmentation to contacts management, automation will be a marketer's best friend into 2021 and beyond

11.BIBILOGRAPHY:

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sources we used to complete our project are:

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3.Geeksforgeeks tutorial - topic: RPA Email automation
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