

COVID-19 DETAILS AUTOMATION USING RPA

Submitted in partial fulfillment of the requirements for the award of
Bachelor of Engineering in Computer Science and Engineering

By

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**SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)**

Accredited with Grade "A" by NAAC

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March 2021.



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

BONAFIDE CERTIFICATE

This is to certify that this Project Report is the BONAFIDE work of **KATI KI PRANEETH SRI RAGHAVENDRA (Reg. No. 37110335)** who carried out the project entitled “**COVID-19 DETAILS AUTOMATION**” under our supervision from APRIL 2020 to JUNE 2020

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ABSTRACT

The project is purely based upon the automation. Here the tools of project, just a UiPath studio for the better experience for the project. I used a recent latest version of UiPath studio application (UiPath studio 20.6). In this automation we consist of general Covid19 elements as we all see day by day in this automation we get different results day by day. To get the result stored in the excel we need to enter the path details where the excel file is stored.

The key of the project is Covid19 table based on any website u want. We need to grab the table and fill the excel based on the automation we need to get printed on the browser based on the tools in the UiPath studio that the table is printed in the excel. And the result is based on excel it is easy to open browser and close the browser process but to store the details write range will be used in the excel terminology.

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LIST OF ABBREVIATIONS

ABBREVIATIONS	EXPANSION
API	Application Program Interface
GUI	Graphical User Interface
VCS	Version Control System
NLP	Natural Language Processing

CHAPTER 1

INTRODUCTION

1.1 ABOUT THE PROJECT

Overview: Now a days extracting the data from a website is too difficult if it is a too huge data then extracting it is not at all a small thing and to do that so we need to get update in the situation. RPA helps in it. It automates the data and helps us to print the data automatically from any website we want .not only getting the data but we can also send mail if we need and the data extracted from the website will be stored in the excel and that excel file will be shared the email if we need to lot of tools will be there in the UiPath studio to automate the data. message box helps us to give a message after the process is completed and the main reason to use RPA is to get the data wherever we need.

RPA:- robotic process automation it is not a humanoid robot to do exactly what humans will do. It mimics the activity of the humans so that It helps to store the data automatically for example a person had 100 pages of web information data to store in the system or in a file so RPA will be used in it to get store or else let us think I need to download a movie and for plenty of times I am searching for it and I got no results found so in that case I will do RPA so whenever I the movie present in the website it shows a result that the movie was found. voice etc

When we see this project the data what we are considering Is a day-by-day change progress so that we cannot predict the values what we are getting to change them but we can actually automate that.

The data for suppose we know now a days we had a lot of trouble in covid19 the number of cases are increasing day by day in our country we cannot estimate the

value that what we are getting and getting all over the world is too difficult so that's the reason we use automation and this projects plays a key role in it.

1.1.1. Vendor, Customer and Employee Onboarding.

Extracting a page data is easy now a days but now the data what we are consisting is not a small issue for example let us consider a teacher works in a college had lots of data to fill in the website or web information to fill in the excel for suppose the student data consisted in the college website may need to store in the excel to display his marks. To do that we need lots of time so if we consider RPA then it will be done in fraction of seconds.

Although these processes span finance & accounting, sales/new accounts and HR (with a little dose of IT), they're similarly ripe for automation as they all three often involve reams of paperwork, vetting, and lengthy back-and-forth between your company and the other party. With RPA, you can design an entirely automated onboarding process that even includes automatic status communications as well as full integration of the information with your internal systems.

1.1.2. Vendor, Customer and Employee Maintenance

In a similar vein, these parties often need to be updated, whether it's an employee submitting a change of address form or a vendor or customer needing to re-sign a yearly contract. RPA is great at automating processes that are triggered by another event (a yearly anniversary), a date (all partner contracts are due August 1), or a process or task (employee filled out change of address). RPA ensures the data is accurately updated in real time across all systems.

1.1.3. Report aggregation

This process is especially time-consuming for finance and accounting, especially at the end of a month, quarter or year when all hand on deck are frantically compiling information. RPA can automate the gathering and aggregating of data in

a fraction of the time, leaving bandwidth and brain power to leverage that information for insights.

1.1.4. Payroll processing

Changing tax laws, reporting requirements and simply working with systems that don't talk to each other can suck up days each month for payroll processing. RPA's ability to collect and connect that data between multiple systems such as time tracking, HR and employee management, accounts payable and general ledger—not to mention providing accounting reports for taxes and various departments—make it invaluable in automating this process.

1.1.5 Customer Due Diligence

While we talked about customer onboarding above, we didn't mention the elephant in many customer onboarding rooms: Keeping up and complying with regulations like Customer Due Diligence, Know Your Customer and Anti-Money Laundering is expensive and challenging. RPA will automatically acquire, enhance and deliver the precise data you need to comply from any internal or external source—and it can check far more data points in a shorter period of time to provide you with a more comprehensive assessment.

1.1.6. Competitive Pricing and Monitoring

According to Retail Dive's consumer survey, nearly 60% of shoppers look up product information and prices while using their mobile phones in stores. Online, they access comparison shopping sites. And third-party merchants on platforms like Amazon.com often use repricing software that automates the time-consuming job of keeping up with the competition. With this kind of power in the hands of customers and competitors, it's critical for your organization to have a handle on

what the competition is up to. RPA can monitor and alert or proactively reprice according to your specs in real time so you're no longer relying on outdated reports that took days or weeks to compile.

1.1.7. CRM Updates

Salespeople just want to sell—it's what they're good at and how they're paid. Slogging through data entry like updating the CRM isn't at the top of anyone's to-do list, yet this information is critical for your company to make smart strategic decisions. Let RPA take this task off your hands with automatic updates that gathers intel on your prospects and posts it in the proper fields in CRM.

1.1.8. Order Processing

The ordering process can involve many time-consuming manual tasks like address verification, data entry, printing the invoice and shipping label, and updating warehouse inventory and reordering if your stock is low. RPA can automate and orchestrate this process—being a software robot and not a physical robot, the only thing it can't do for you is pick and pack the boxes.

1.1.9. Shipment Scheduling and Tracking

Scheduling, updating and reporting shipment status between internal systems and portals is quite a manual job—and the price paid is often in the customer experience. RPA can extract shipment requests from incoming emails, log jobs in your scheduling systems and provide pick-up times in customer and/or carrier portals.

1.1.10. User Setup and Configuration

We talked about employee onboarding from the HR side above. On the IT side, someone has to add and configure a new user so that brand new employee can log into their computer, email, network etc. Let RPA automate this process so your staff can focus on higher-value work in the backlog. Discover even more ways to automate with RPA.

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1.2 PROJECT SCOPE

The purpose of this application is automation to grab the data easily without anytime waste. To get the recent information about COVID19 the day by day cases .we all know that it changes rapidly so to get the details in excel sheet the latest information will be automated

The best thing about this project is to store the data whenever we needed there will be no waste of time to gather the information in any case. there will be no web issues when grabbing the data. Saving the time when doing this project is the good thing.

1.3 UiPath OBJECTIVES

UiPath is a good set of application which consists of tools in it. Also, UiPath is well used in the automation because the tools that help to grab the data from anywhere. Also, the UiPath is very handy in automation.

The objective of the project is to move and fit the shapes so that they will be in a straight way as much as possible. If we manage to form a row, then the path will be so applicable to understand. We run the flowchart until we get the data.

1.4 AIM

The aim of the project is to reduce the time and human work involved in gathering information, from various websites and files. Also to gather all the information required by clients.

1.5 OBJECTIVES

- RPA is a powerful transformation tool that can improve your business as long as you take the proper steps to execute a smart implementation strategy.
- The client will make his time sufficient or he doesn't need to take more time while process undergoes with.it is user friendly
- It is build with an artificial intelligence

CHAPTER 2

LITERATURE REVIEW

1.Delineated Analysis of Robotic Process Automation Tools

In this age and time when celerity is normal out of the multitude of areas of the country, the speed of execution of different cycles and thus proficiency, turns into a noticeable factor. To work with the speeding requests of these different stages, Robotic Process Automation (RPA) is utilized. Robotic Process Automation can facilitate administrative center errands in business ventures, distant administration undertakings in IT enterprises and protection of assets in numerous areas. To carry out RPA, numerous product stages are created and the goal of this paper will give an examination of three of the main RPA stages to be specific, UiPath Studio, Automation Anywhere and Blue Prism. Our examination will help the business enterprises the front-office as well as for administrative center staff; to figure out which stage is the most qualified to utilize.

2.Robotic Process Automation: An Overview and Comparison to Other Technology in Industry 4.0

Conceptual—Robotic Process Automation (RPA) is an office mechanization arrangement that has filled quickly as of late. RPA is certifiably not an actual robot, it is a product that act like human in communicating with PC. The Activities like understanding messages, opening connections, entering information, making reports and others, is done quick, precise and dependable. RPA has three unique sorts; went to mode, unattended mode and half breed, which can be utilized for different cycles in numerous divisions, for example, buying, creation, HR, deals and showcasing. RPA brings benefits for organizations, clients and representatives. Notwithstanding, the impediments of RPA are as yet a test that should be overwhelmed by programming designers and other specialist co-op. Contrast with other innovation (PPS, Digital Twin, AR and VR), RPA gives most

noteworthy effectiveness in work force cost and it requires least venture cost. RPA is generally simple to adjusted and incorporated into interaction and framework in the organization, so the advancement season of RPA is more limited than other innovation.

3.ACTIVE E-MAIL SYSTEM SMTP PROTOCOL MONITORING ALGORITHM

Email framework is perhaps the most universal Internet-based applications today. It empowers clients to send and get E-mail messages among one another inside and

from outside of the neighborhood. Email framework is utilized each day in nearly all associations as a specialized instrument between directors, representatives, clients, and accomplices for better data stream and lead business which requires correspondence with individuals outside the association, or from various geological areas. The E-mail framework offers a quick, dependable and simple answer for such correspondence. SMTP (Simple Mail Transfer Protocol) is a transportation convention used to move E-mail messages over the Internet. All E-mail workers utilize the SMTP to send E-sends starting with one E-mail worker then onto the next. SMTP is likewise used to send E-mail messages from E-mail customers to E-mail workers. In this paper, the SMTP Email framework convention will be momentarily clarified. New Active checking calculation design is additionally proposed to improve the current E-mail framework convention works and identify the SMTP convention disappointment during the way toward sending E-mail Messages.

4. A Review on Web Scrapping and its Applications

Internet concedes a wide extent of realities and information source set up by people. However, it will comprise of a colossal combination of unique and debilitated coordinated information, testing in assortment in an actual methods and problematical for its utilization in mechanical cycles. Since the new past, systems alongside different outfits have been created to allow information gathering and

change into coordinated data to be refined by B2C what's more, B2B frameworks. This paper will zero in on different parts of web scratching, starting with the essential presentation and a brief conversation on different programming's and instruments for web rejecting. We had likewise clarified the interaction of web scratching with an elaboration on the different kinds of web scratching procedures lastly closed with the advantages and disadvantages of web scratching and an in detail depiction on the different fields where it very well may be applied. The openings exploiting these information are various which will incorporate territories concerning Open Government Data, Enormous Data, Business Intelligence, aggregators and comparators, improvement of new applications and mashups among formers.

5.Temporal and Flexible Automation of Machine Tools

Today, stacking machine apparatuses in little and average estimated ventures is basically done physically by machine administrators. Low amount and high change in mechanical segments creation require a high adaptable robotization measure which is normally not feasible for contract makers. This paper portrays an idea of a versatile robot stage – comprising of a shared robot, grasping innovation and a natural errand based programming framework – which empowers little and medium measured ventures (SME) to transitory robotize the machine stacking measure

6.Research on Software Testing Techniques and Software Automation Testing Tools

Software Testing is a cycle, which includes, executing of a software program/application and discovering all mistakes or bugs in that program/application so the outcome will be a deformity free software. Nature of any software must be known through methods for testing (software testing). Through the headway of innovation all throughout the planet, there expanded the quantity of check strategies and techniques to test the software before it goes to creation and off kilter to showcase. Mechanization Testing has had its effect in the testing interaction. Presently a-days, the greater part of the software testing is

finished with the mechanization apparatuses which not just decreases the quantity of individuals working around that software yet additionally the blunders that can be gotten away through the eyes of the analyzer. Mechanization testing contains experiments which makes the work simple to catch various situations and store them. Along these lines, software robotization testing measure assumes an imperative part in the software testing achievement. This investigation points in knowing various sorts of software testing, software testing strategies and apparatuses and to look at manual testing versus mechanization testing.

7. Table Scraps: An Actionable Framework for Multi-Table Data Wrangling From An Artifact Study of Computational Journalism

For the numerous writers who use information and calculation to report the news, information fighting is a basic piece of their work. Regardless of a plenitude of writing on information fighting with regards to big business information investigation, little is thought about the particular activities, cycles, and problem areas columnists experience while playing out this drawn-out, tedious assignment. To more readily comprehend the requirements of this client bunch, we direct a specialized perception investigation of 50 public archives of information and examination code created by 33 expert writers at 26 news associations. We create two nitty gritty and cross-cutting scientific categorizations of information fighting in computational news coverage, for activities and for measures. We notice the broad utilization of numerous tables, a remarkable hole in past fighting investigations. We build up a brief, noteworthy system for general multi-table information fighting that incorporates fighting activities archived in our scientific classification that are without clear equals in other work. This system, the first to fuse tables as top of the line objects, will uphold future intuitive fighting apparatuses for both computational news-casting and universally useful use. We survey the generative and distinct force of our structure through conversation of its relationship to our arrangement of scientific classifications.

8. Analyzing Tweets on New Norm: Work from Home during COVID-19 Outbreak

The COVID-19 pandemic set off an enormous scope telecommute pattern around the world as of late. In this paper, we study the wonder of "telecommute" (WFH) by performing social tuning in. We propose an analytics pipeline intended to slither web-based media information and perform text mining examines on printed information from tweets rejected dependent on hashtags identified with WFH in COVID-19 circumstance. We apply text mining and NLP procedures to dissect the tweets for removing the WFH subjects and estimations (positive and negative). Our Twitter topic examination adds further worth by summing up the normal key themes, permitting managers to acquire experiences on spaces of representative worries.

9. Recent Trends in Automation-A study of RPA Development Tools

Robotic process automation is a savvy approach to oversee work across those machines which AI can without much of a stretch be order. Robot Automation is a succession of steps that gives bring about a significant activity without obstruction of individual. In any association, Robot automation can perform undertakings very much like an individual. RPA is a program wherein arrangement of orders are executed according to the predefined rules of association. At the point when any association change its guidelines then it is possible that it needs to recruit new worker those can work with new standards or it need to give preparing to existing representatives to plan the necessities of new principles. These the two different ways are time and cash burning-through. By the utilization of Robotic automation, the organization can put compelling specialists those can do an impression of human laborers.

CHAPTER 3

METHODOLOGY AND SYSTEM IMPLEMENTATION

3.1 EXISTING SYSTEM

Currently everyone is using the traditional method. Where, they manually gather the information and store in a excel file, from multiple websites it is very time taking and involves lot of human interference.in emergency situation the information gathering or searching couldn't be done in time.

Even though they extracted the details and stored in a excel file or any pdf searching the resultant output will take a huge time going through each and every detail gathering there information will be too tough.

3.2 PROPOSED SYSTEM

A methodology to decrease the time and human interference. This technique is developed using UiPath studio for the automation process and the process is done by using automation tools in it.

To extract the data from browser any file data scrapping tool in it and stores in a excel sheet by using an excel application scope. With this technique we can also shorten the information by using ranges in the sequence tool in it and using SMTP tool we can send the details via mail.

3.3 MODULES

- Data Management
- Automation Tools
- Automation Engine
- UiPath

3.3.1 Data management

The purpose of the data management is used to acquire and store the data. When the details are acquired and stored in it the data must be protected every client needs the data to be protected so the data management used for it.

3.3.2 Automation tools

The tools required for the technique are automation tools. Data scrapping or excel management system all these comes under the automation tools. These tools help us to do the workflow in a single way.

3.3.3 Automation engine

It is a new feature which is used to automate any task. It helps you to automate many tasks or multiple tasks in a same factor but automation engine is a beta engine to do with it the process must be highly efficient.

3.3.4 UiPath Studio

It is a major application to do automation where each and every tool is prebuilt in it. The tools working in UiPath studio helps any kind of task been automated the major module of this process is UiPath studio.

3.4 OVERVIEW OF RPA

Robotic process automation (or RPA) is a form of business process automation technology based on metaphorical software robots or on artificial intelligence. Sometimes it is referred as a software robots.

In traditional workflow tools, a software developer produces a list of actions to automate a task and interface to the back-end system using internal application program interface (APIs) or dedicated scripting language. In contrast, RPA systems develop the action list by watching the user perform that task in the

application's graphical user interface (GUI), and then perform the automation by repeating those tasks directly in the GUI. This can lower the barrier to use of automation in products that might not otherwise feature APIs for this purpose.

RPA tools have strong technical similarities to graphical user interface testing tools. These tools also automate interactions with the GUI, and often do so by repeating.

Excel application scope

Opens an Excel workbook and provides a scope for Excel Activities. When the execution of this activity ends, the specified workbook and the Excel application are closed. If a Workbook Application variable is provided in the Output > Workbook property field, the spreadsheet is not closed after the activity ends. If the specified file does not exist, a new Excel file is created. This activity can only be used if the Microsoft Excel application is installed on your machine

Set of demonstration tools actions performed by a user. RPA tools differ from such systems that allow data to be handled in and between multiple applications, for instance, receiving email containing an invoice, extracting the data, and then typing that into bookkeeping system.

3.5 RPA FEATURES

The typical benefits of robotic automation include reduced cost; increased speed, accuracy, and consistency; improved quality and scalability of production. Automation can also provide extra security, especially for sensitive data and financial services.

As a form of automation, the concept has been around for a long time in the form of screen scrapping, which can be traced back to early forms of malware. However, RPA is much more extensible, consisting of API integration into other enterprise applications, connectors into ITSM systems, terminal services and even some types of AI (example Machine Learning) services such as image recognition.

It is considered to be a significant technological evolution in the sense that new software platforms are emerging which are sufficiently mature, resilient, scalable and reliable to make this approach viable for use in large enterprises (who would otherwise be reluctant due to perceived risks to quality and reputation).

A principal barrier to the adoption of self-service is often technological: it may not always be feasible or economically viable to retro-fit new interfaces onto existing systems. Moreover, organisations may wish to layer a variable and configurable set of process rules on top of the system interfaces which may vary according to market offerings and the type of customer. This only adds to the cost and complexity of the technological implementation. Robotic automation software provides a pragmatic means of deploying new services in this situation, where the robots simply the behaviour of humans to perform the back end transcription or processing. The relative affordability of this approach arises from the fact that no IT new transformation or investment is required; instead the software robots simply leverage greater use out of existing IT assets.

The hosting of RPA services also aligns with the metaphor of a software robot, with each robotic instance having its own virtual workstation, much like a human worker. The robot uses keyboard and mouse controls to take actions and execute automations. Normally all of these actions take place in a virtual environment and not on screen; the robot does not need a physical screen to operate, rather it interprets the screen display electronically. The scalability of modern solutions based on architectures such as these owes much to the advent of virtualization technology, without which the scalability of large deployments would be limited by available capacity to manage physical hardware and by the associated costs. The implementation of RPA in business enterprises has shown dramatic cost savings when compared to traditional non-RPA solutions.

There are however several risks with RPA. Criticism include risks of stifling innovation and creating a more complex maintenance environment of existing software that now needs to consider the use of graphical user interfaces in a way they weren't intended to be used.

According to business review, most operations groups adopting RPA have promised their employees that automation would not result in layoffs. Instead, workers have been redeployed to do more interesting work. One academic study highlighted that knowledge workers did not feel threatened by automation: they embraced it and viewed the robots as team-mates. The same study highlighted that, rather than resulting in a lower "headcount", the technology was deployed in such a way as to achieve more work and greater productivity with the same number of people.

Conversely, however, some analysts proffer that RPA represents a threat to the business process outsourcing (BPO) industry. The thesis behind this notion is that RPA will enable enterprises to "repatriate" processes from offshore locations into local data , with the benefit of this new technology. The effect, if true, will be to create high-value jobs for skilled process designers in onshore locations (and within the associated supply chain of IT hardware, data management, etc.) but to decrease the available opportunity to low skilled workers offshore. On the other hand, this discussion appears to be healthy ground for debate as another academic study was at pains to counter the so-called "myth" that RPA will bring back many jobs from offshore.

RPA actual deployment

Banking and Finance Process Automation

Mortgage and Lending Process

Customer Care Automation

Ecommerce Merchandising Operation

Robotic process automation 2.0, often referred to as "unassisted RPA" or RPAAI, is the next generation of RPA related technologies. Technological advancements and improvements around artificial intelligence technologies are making it easier for businesses to take advantage of the benefits of RPA without dedicating a large budget for development work.

While unassisted RPA has a number of benefits, it is not without drawbacks. Utilizing unassisted RPA, a process can be run on a computer without needing input from a user, freeing up that user to do other work. However, in order to be effective, very clear rules need to be established in order for the processes to run smoothly.

3.6 SOFTWARE REQUIREMENT(UiPath)

RPA is all about automation and in this automation visual language plays a key role. Visual language is defined as a system of communication using **visual** elements. The term visual language in relation to vision describes the perception, comprehension, and production of visible signs. Just as people can verbalize their thinking, they can visualize it.

A diagram, a map, and a painting are all examples of uses of visual language. Its structural units include line, shape, colour, form, motion, texture, pattern, direction, orientation, scale, angle, space and proportion.

3.7 UiPath INSTALLATION

Step 1: To download visit the website

https://cloud.uipath.com/studezwngamj/portal_/home and click on the link to download UiPath 20.06.

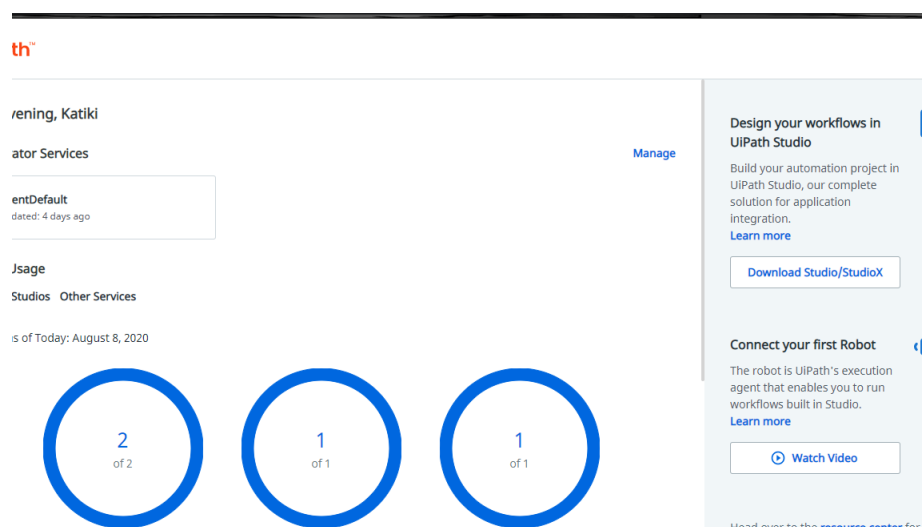


Fig 3.1 Downloading UiPath

Step 2: After downloading the file, click on the file.exe to open and you'll get a dialog box like this.

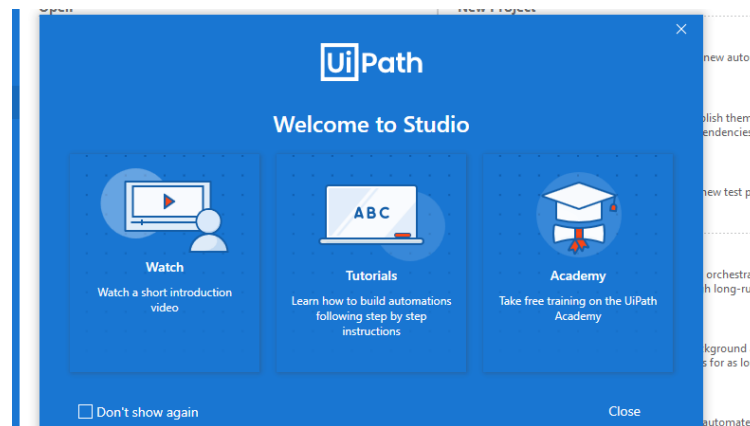


Fig3.2 Dialog box

Step 3:After dealing with the dialog box you'll get install notification. And select the path of UiPath 20.06

Step 4: Click on start button and enter UiPath home page, and click on it and start the project.

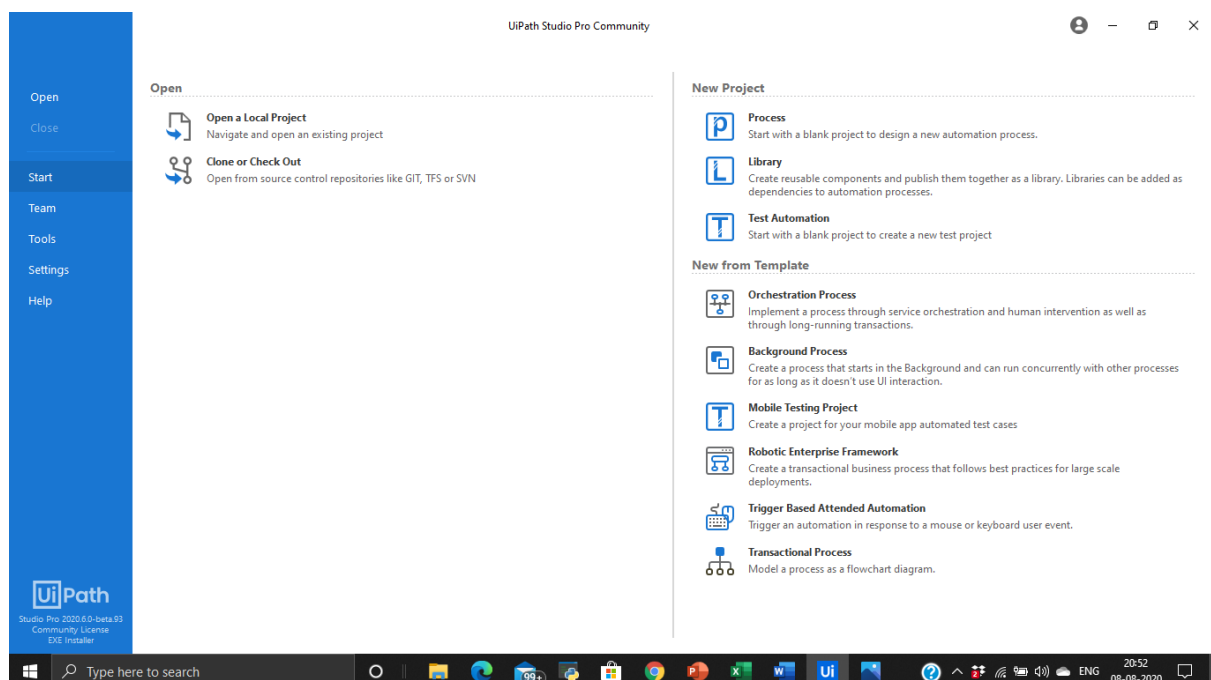


Fig 3.3 INSTALLING UiPath NOTIFICATION

Step5 After open the project you will get a key

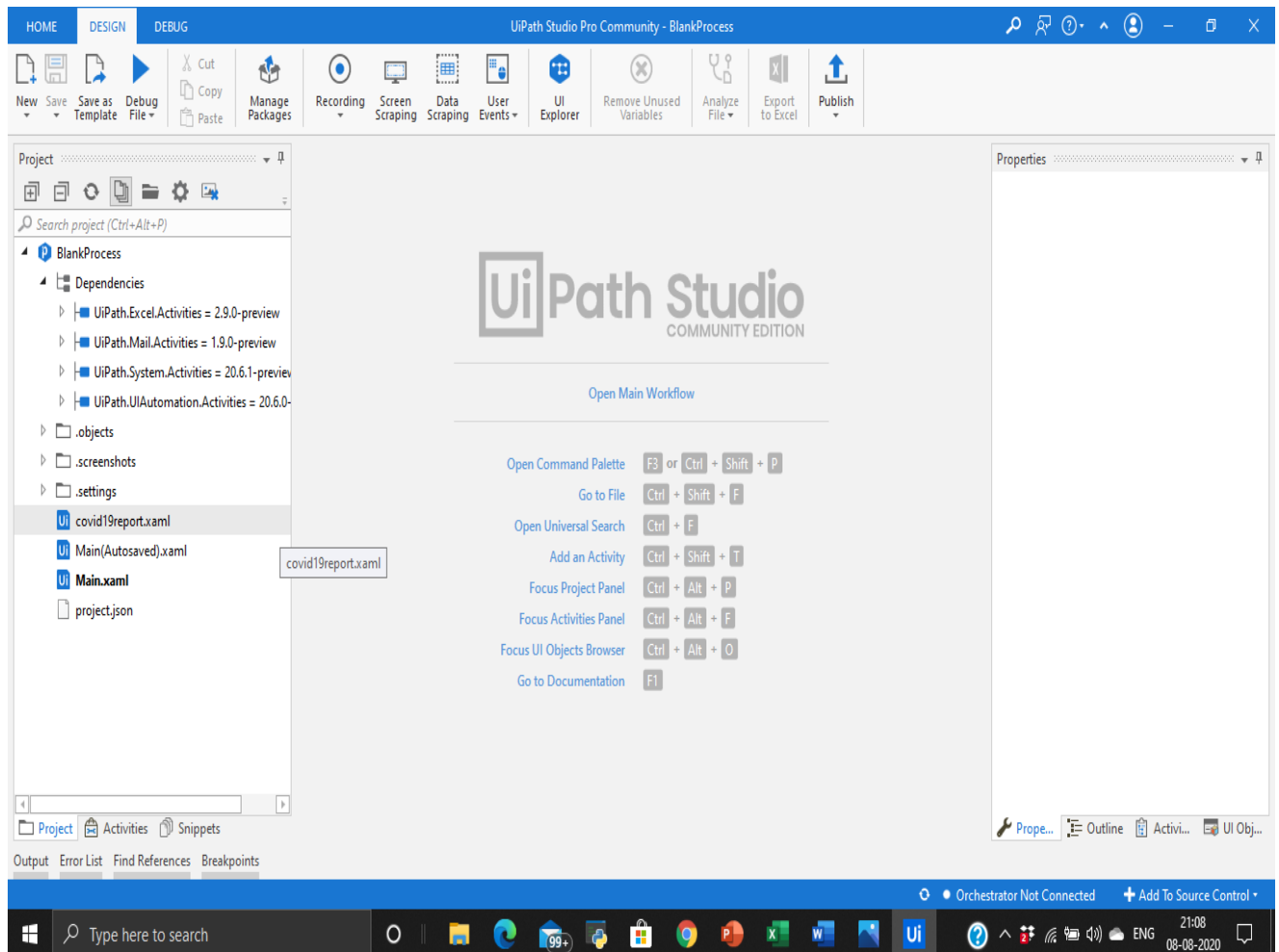


Fig 3.4 Shortcuts

CHAPTER 4

RESULTS AND DISCUSSION

4.1 RESULTS

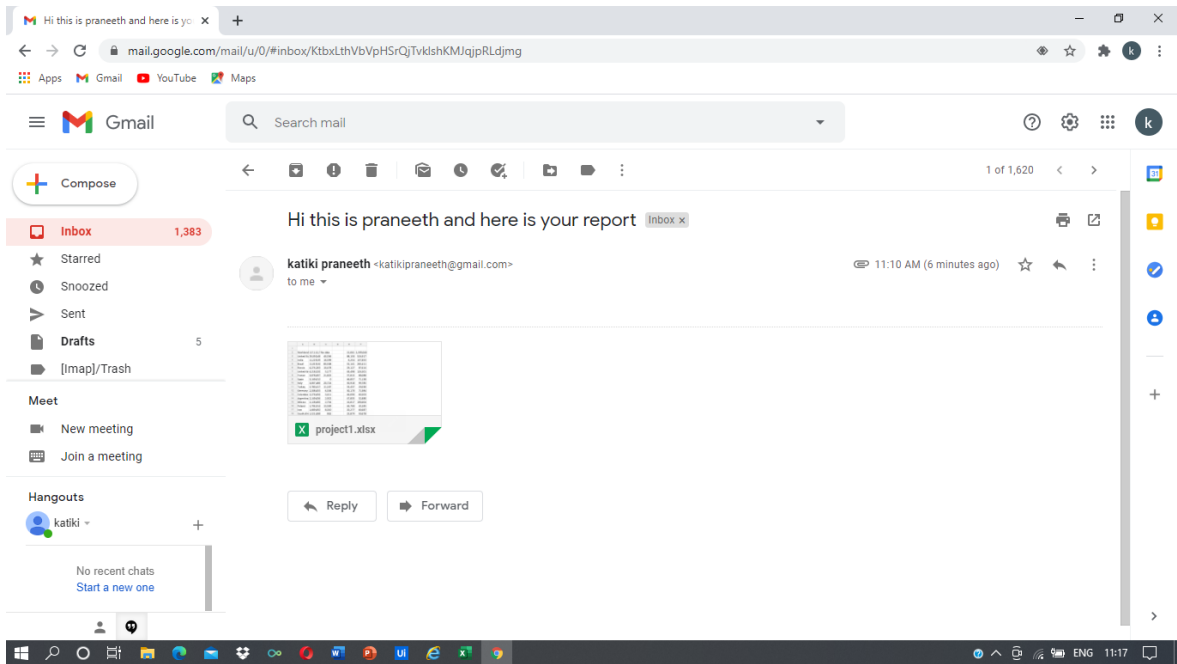


Fig 4.1: Mail Output

The mail output 1 describes that the final output send via SMT protocol the client has derived a certain output so that the classification of the covid details will get easy so in the excel sheet represent that.

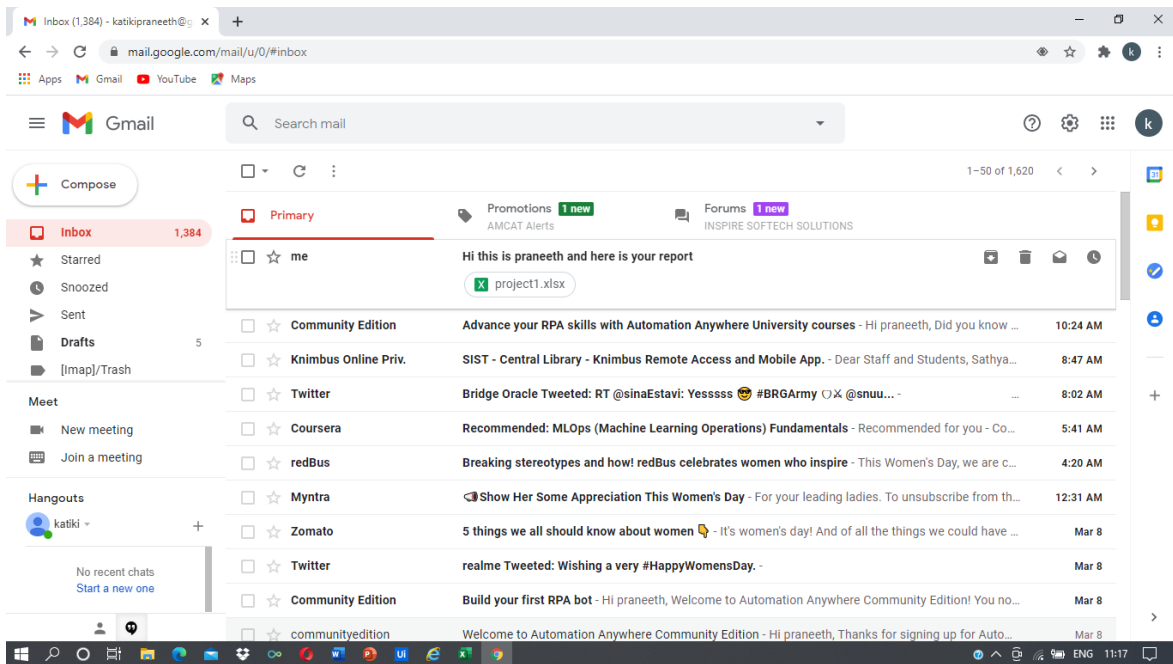


Fig 4.2: Mail Output 2

The mail output 2 is the sample view whether the mail has received or not.

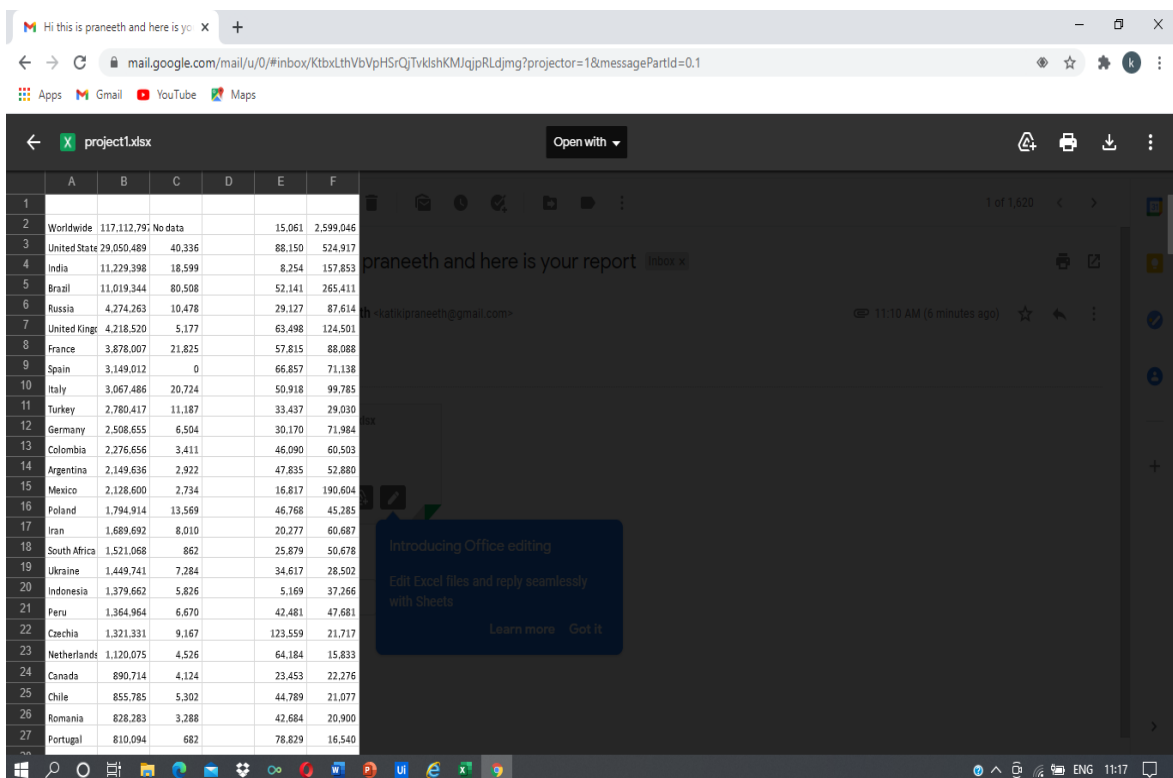


Fig 4.3: Excel Output

The excel sheet is the final output and details of covid is presented in it.

4.2 DISCUSSION (ABOUT activities)

KEYS:

Flowchart:

A flowchart is a graphical representation of a process in which each step is represented by different symbols connected with arrows. Flowchart is one of the best among the three layout diagrams of UiPath workflow because it is flexible and tend to lay out a workflow in two-dimensional manner.

Data scrapping:

Data scraping is a technique with the help of which structured data can be extracted from web or any application and saved to a database or spreadsheet or CSV file. UiPath studio also provides the facility of data scraping with the help of scraping wizard.

Message box:

A message box is a special dialog box used to display a piece of information to the user. As opposed to a regular form, the user cannot type anything in the dialog box. To support message boxes, the Visual Basic language provides a function named Message Box.

Excel application scope

Opens an Excel workbook and provides a scope for Excel Activities. When the execution of this activity ends, the specified workbook and the Excel application are closed. If a Workbook Application variable is provided in the Output > Workbook property field, the spreadsheet is not closed after the activity ends. If the specified file does not exist, a new Excel file is created. This activity can only be used if the Microsoft Excel application is installed on your machine.

CSV

A CSV is a comma-separated values file, which allows data to be saved in a tabular format. CSVs look like a garden-variety spreadsheet but with a csv extension. CSV files can be used with most any spreadsheet program, such as Microsoft Excel or Google Spreadsheets.

Converting the data from excel to csv: There are many ways to do it. Use read range activity inside Excel application scope and will give output as data table. And then use write CSV activity to write that data table and specify the file path.

Write range: It is used to write the data from csv or website to the excel and it helps to store the data in it if the excel file is not created in it then the file will be created and then the output will be executed and we need to mention about the start point where the data need to be written and then the we need to address the sheet name or number where the data need to be stored.

Computer vision (CV): AI Computer Vision is an AI Skill that enables all UiPath Robots to see every element on a computer screen. Now, businesses and RPA developers can automate tasks on most virtual desktop interface (VDI) environments—regardless of framework or operating system.

There are many activities in computer vision

- 1.CV Check
- 2.CV Click
- 3.CV Dropdown Select
- 4.CV Element Exists
- 5.CV Extract Table
- 6.CV Get Text
- 7.CV highlight
- 8.CV Hover
- 9.CV Refresh
- 10.CV Screen Scope
- 11.CV Type into

Orchestrator: UiPath Orchestrator is a server-based application that lets you orchestrate your Robots, hence the name Orchestrator. It runs on a server and connects to all the Robots within the network, whether Attended, Unattended, or Free. ... It ensures the correct delivery of the packages to Robots. It helps in managing the queues.

There are many activities in the orchestrator:

Alerts
API
Assets
Jobs
Process
Queues
Storage

Programming:

UiPath is a kind of RPA tool doesn't require any programming language knowledge. UiPath provides all the RPA receive in much simpler way than any other RPA tools.

Tools in programming:

Data table
debug
execute
generic value
string

UI Automation: UiPath Studio is a complete software solution that enables you to automate your back office repetitive tasks. It converts tedious tasks into complete UI automation, thus, making your work easier and faster.

There are several types of tools:

Browser

Element

Image

OCR

Sap

Text

window

Monitor events:

We can use this activity inside the “Monitor Events” activity. When we select a particular UI element on screen using “Indicate element on screen” option on-click trigger, then in the “selector” property we will get an XML representation as string.

The tools of monitor events:

Element trigger

Image trigger

System trigger

Block user input

Get event info

Get source element

Replay user event

Use foreground

Workflow in UiPath: Workflows are small pieces of common automation which are Reusable and Application in multiple sequences. They can be used to automate similar processes. To use a workflow, you first have to invoke it and you can invoke a workflow using 'Invoke Workflow' activity in UiPath and save it as a template.

checkpoint

control

flowchart

invoke

state machine

Data scrapping: Data scrapping is used to collect the data from the website whether the content is in any format for suppose a table it c an scrape the table until the end by clicking the starting of the table. We need to provide the path of the browser or the link in which the data need to be scrape.

Let us consider a flow chart it describes to start the process.



Fig4.4 Flow Chart

We need to open the browser because we need grab the data from it.so from our project we can go covid19 news and then we can grab the table from there.



Fig 4.5 Open Browser

In the above box there is another box in which consists of the path of the webpage and by using the data scrapping we collect the covid19 details.

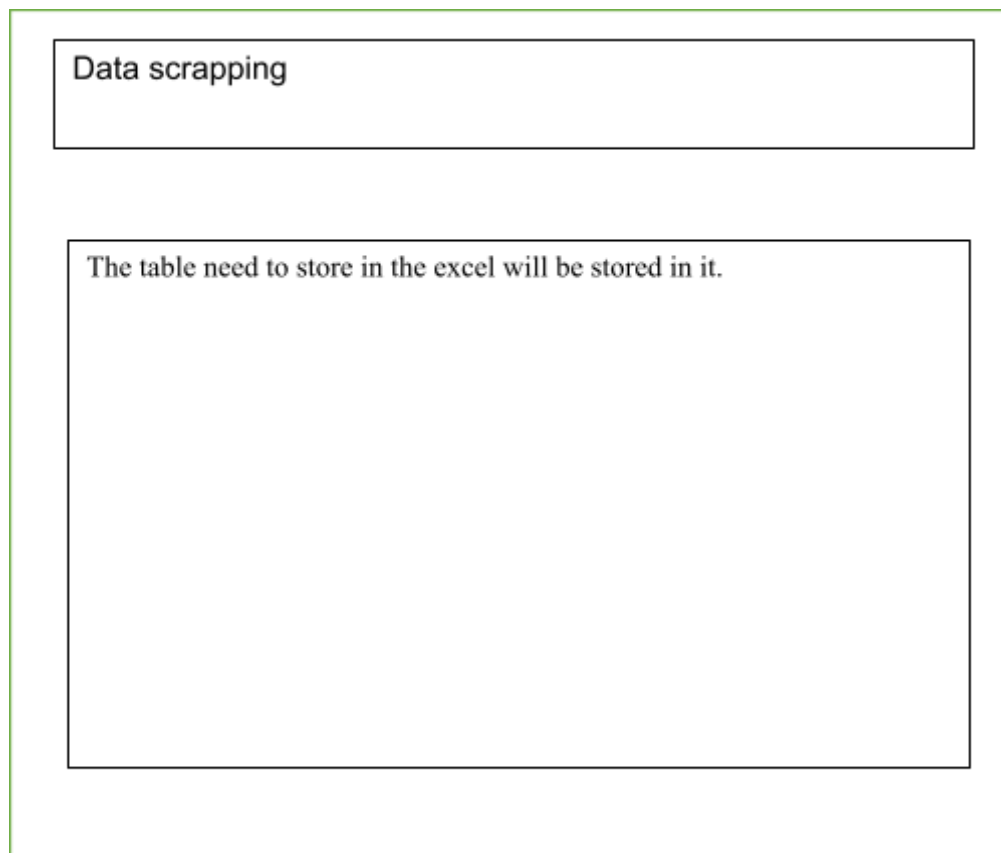


Fig4.6 Data Scrapping

There will be a message box after getting the table which contains the details of covid19 the message box should show that data has been copied.

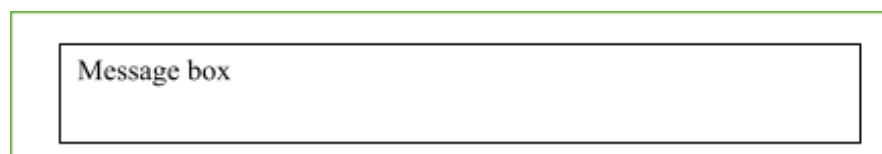


Fig 4.7 Message Box

Inside the message box the message will be present

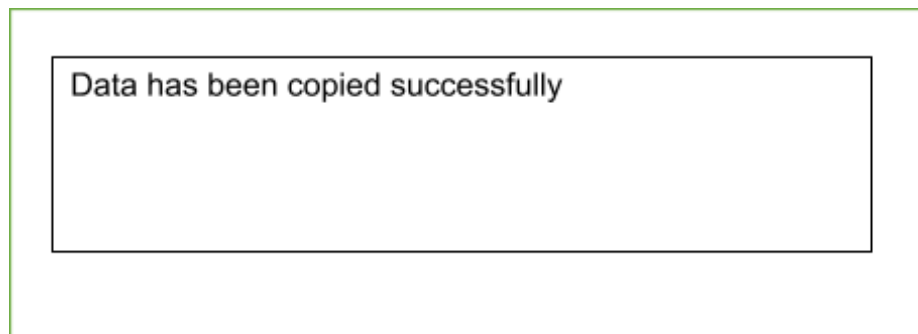


Fig 4.8 Data In Message Box

Next the data which is scraped by the data scrapper it should be placed in the excel so for that I will create a excel file and I will name it as covid19 report.

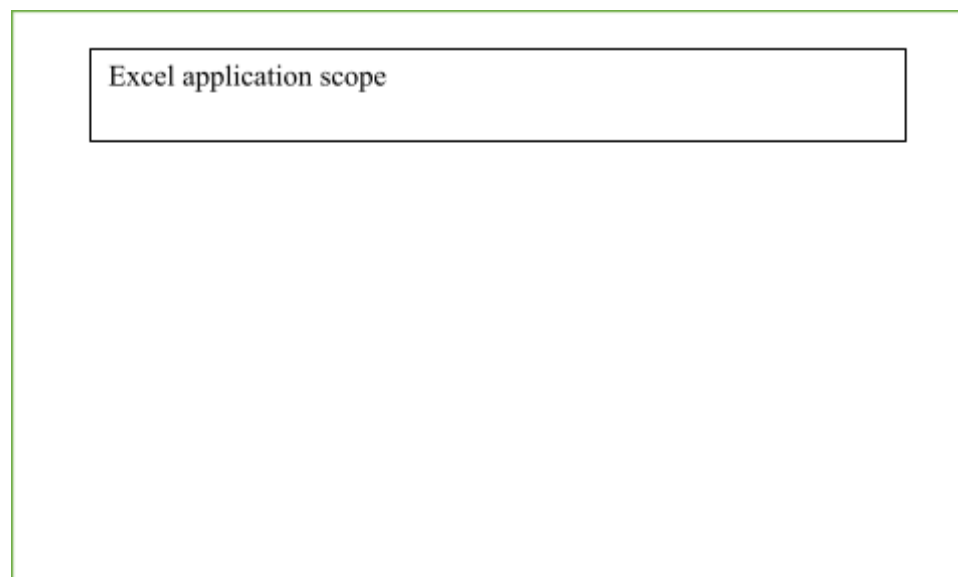


Fig 4.9 Excel Application Scope

In this excel application scope there will be another table which indicates a write range and a normal box and that indicates the path of the excel file.

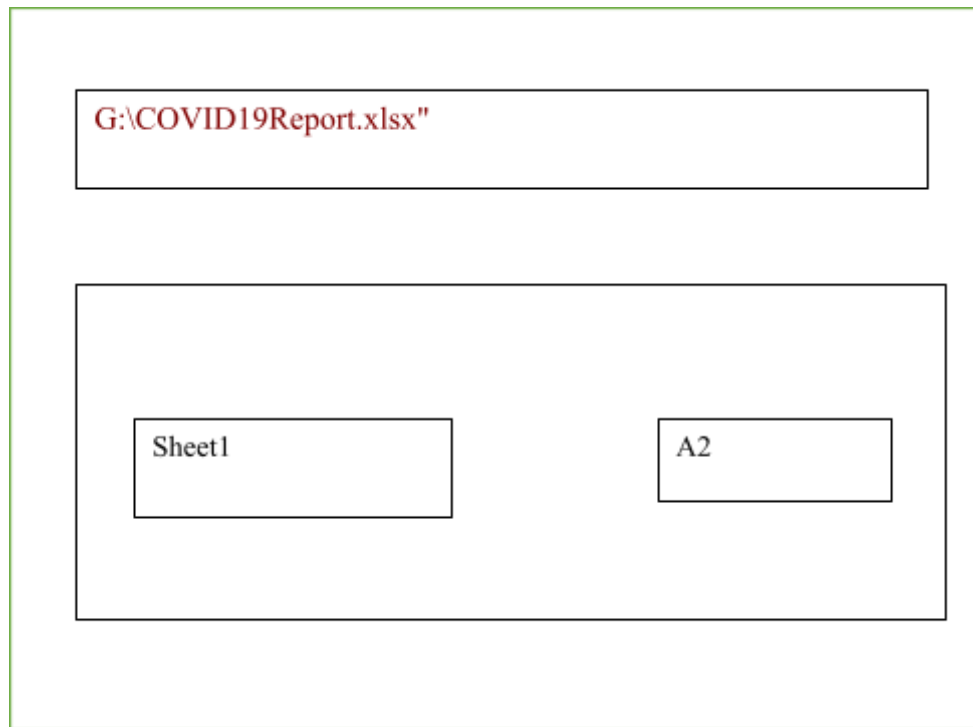


Fig 4.10 Details In Excel Sheet

That sheet 1 and A2 describes the sheet name of the excel file and the starting point to take the data.

After that there will be an another message box in which to say that the data has been copied to the excel and at last we use a close browser since we are using a open browser the browser will be keeps on process to avoid that we use close browser.

Sequence:

It gives the order of file from starting to ending. Here the process is nothing but alignment and to do that the excel and range tools do a major part in it . so the

machine should understand whether it is a systematic or not so if it is systematic and tools in it are placed in a wrong way the expected

CHAPTER 5

CONCLUSIONS AND FUTURE WORK

5.1 CONCLUSIONS

It gives an application that mimics the human work activities so the major work of transferring the data from a file or website to the excel. In this project like extraction of covid details will be done or the client needs any kind of data or data from different websites will be taken will be automated in it. Client requires a specific information from the extracted file which nearly a huge file can also be extracted and the file via mail.

5.2 FUTURE WORK

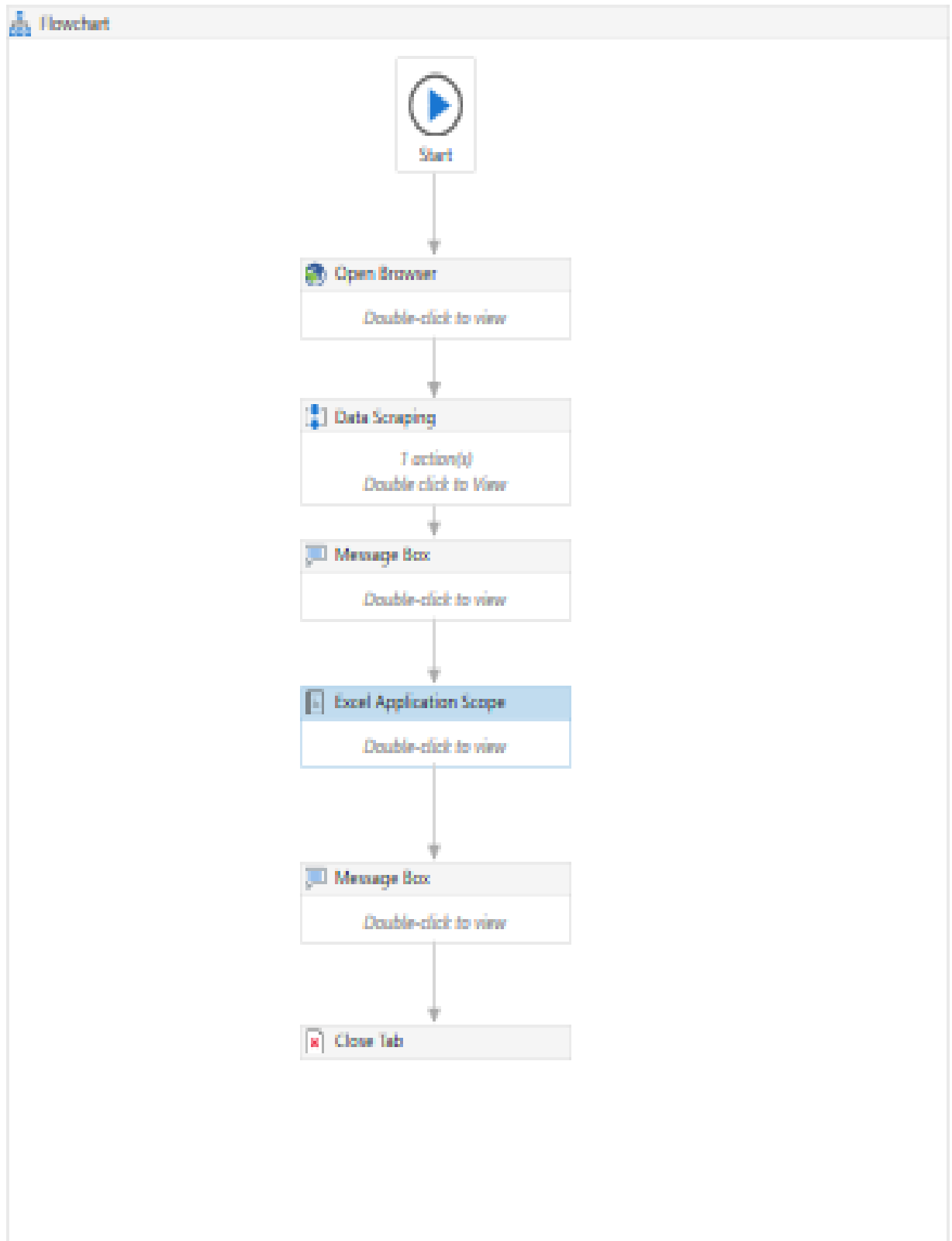
Being more obsessed to the work, we started to develop the different applications to automate the data to save the time. For the daily details like news or games anything can be automated now a days so this project prescribes the details of the covid19 in which it is increasing day by day we can collect the data If it is only for one or nearly to ten countries but it is difficult to capture the data for worldwide so this project helps and gives us a complete data by automating it.

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APPENDIX

A. Source code:



B.SCREENSHOTS

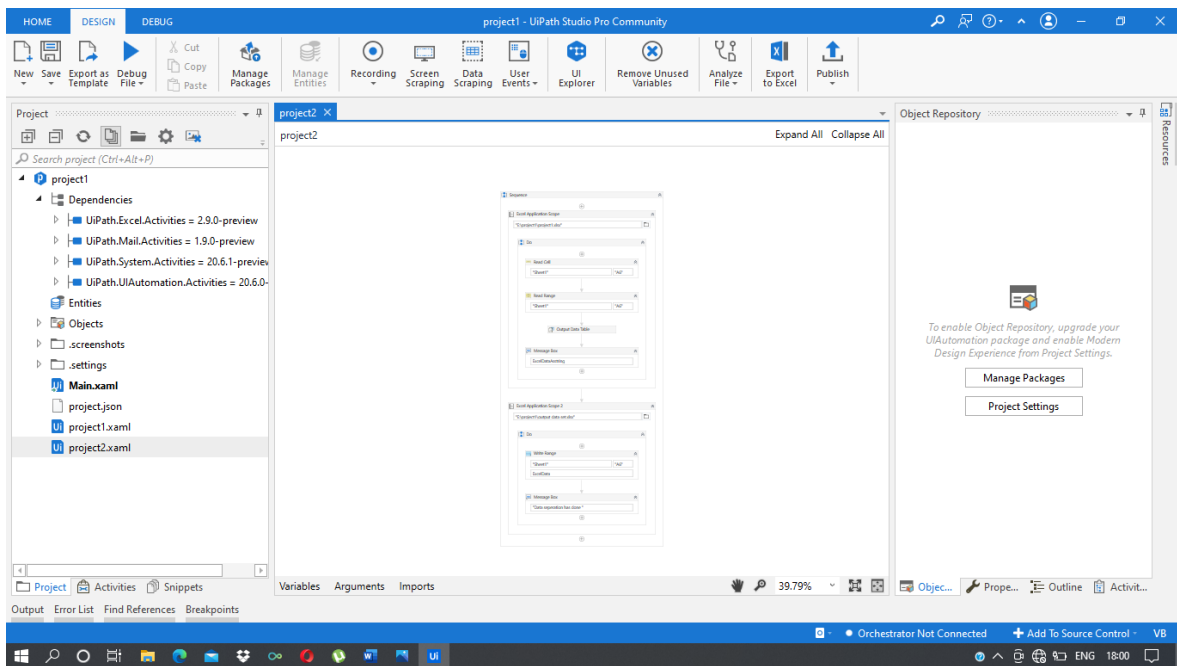


Fig 1 Flow Diagram -2

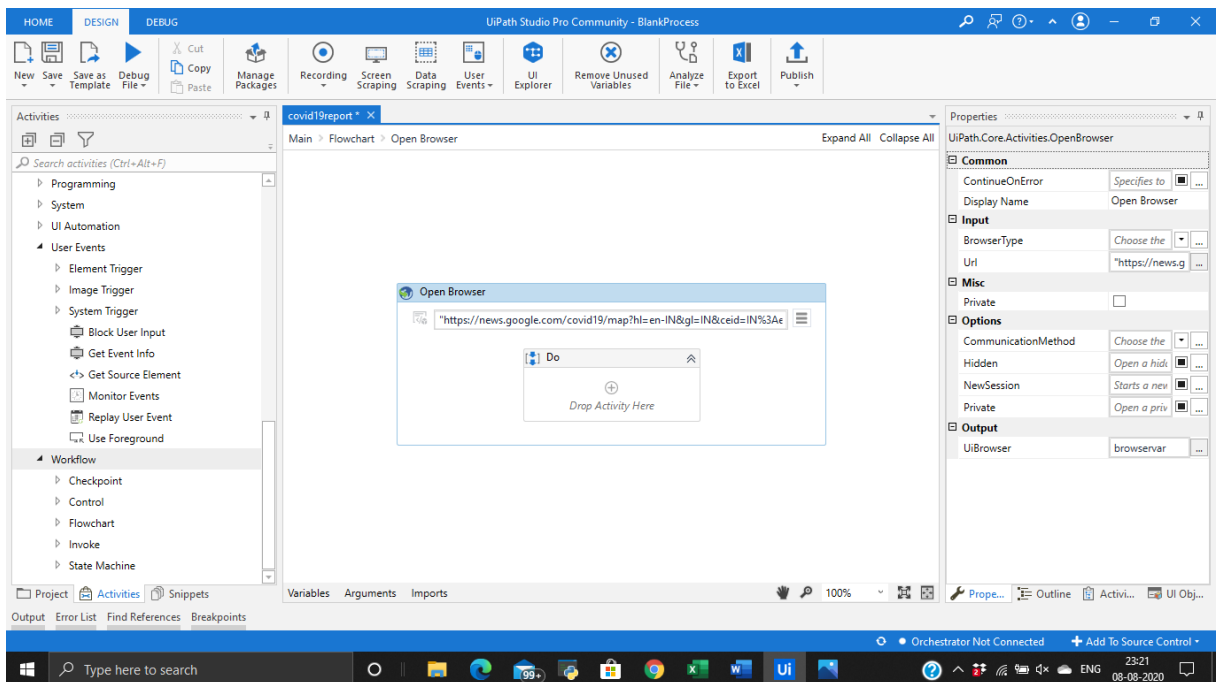


Fig 2 The open browser

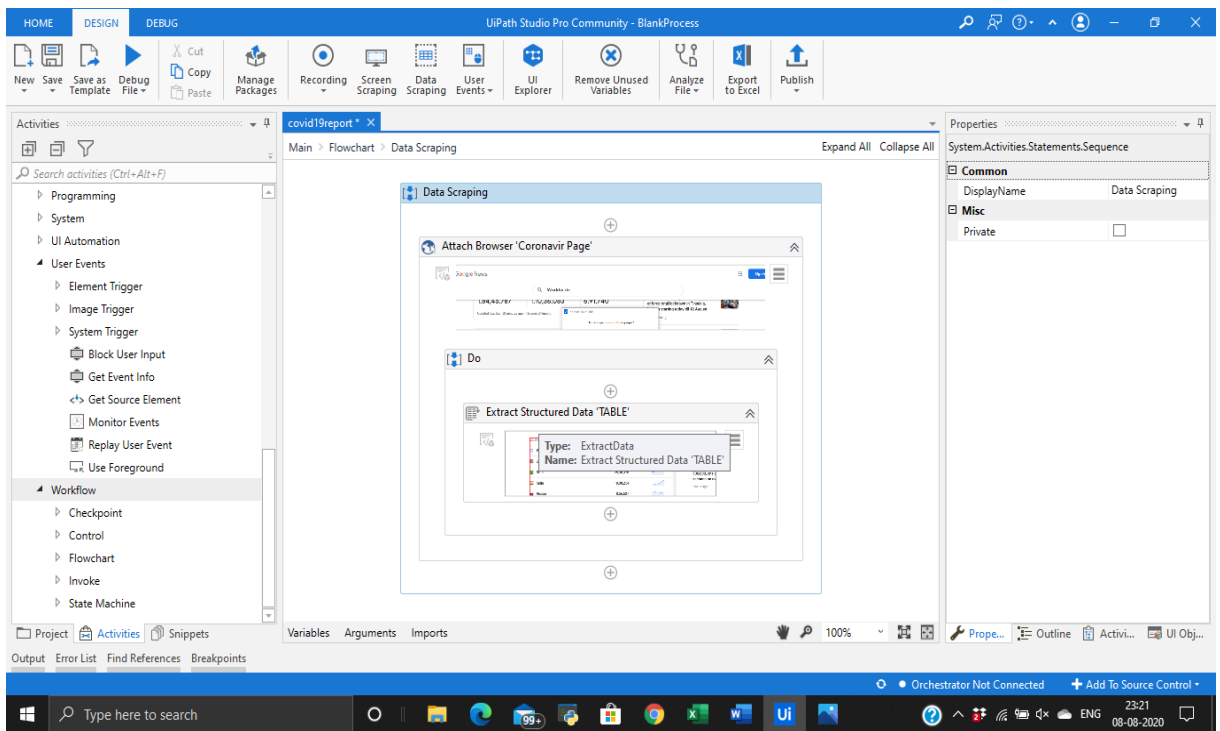


Fig 3 Data scrapping

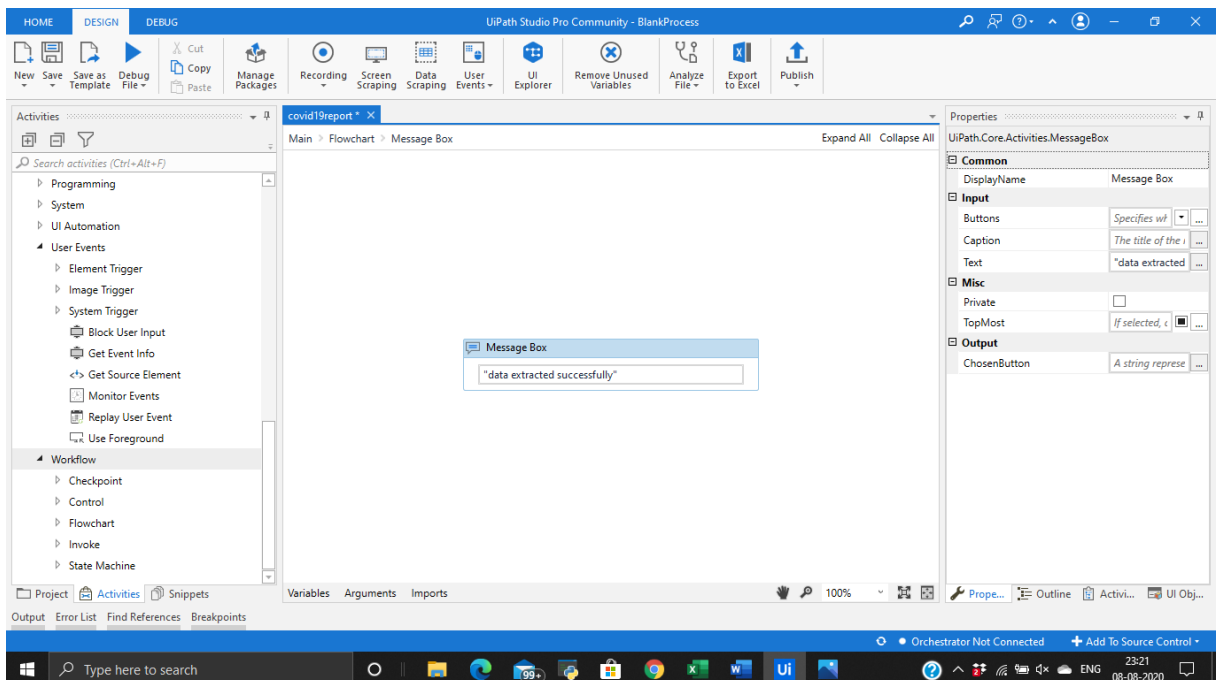


Fig 4 Message Box

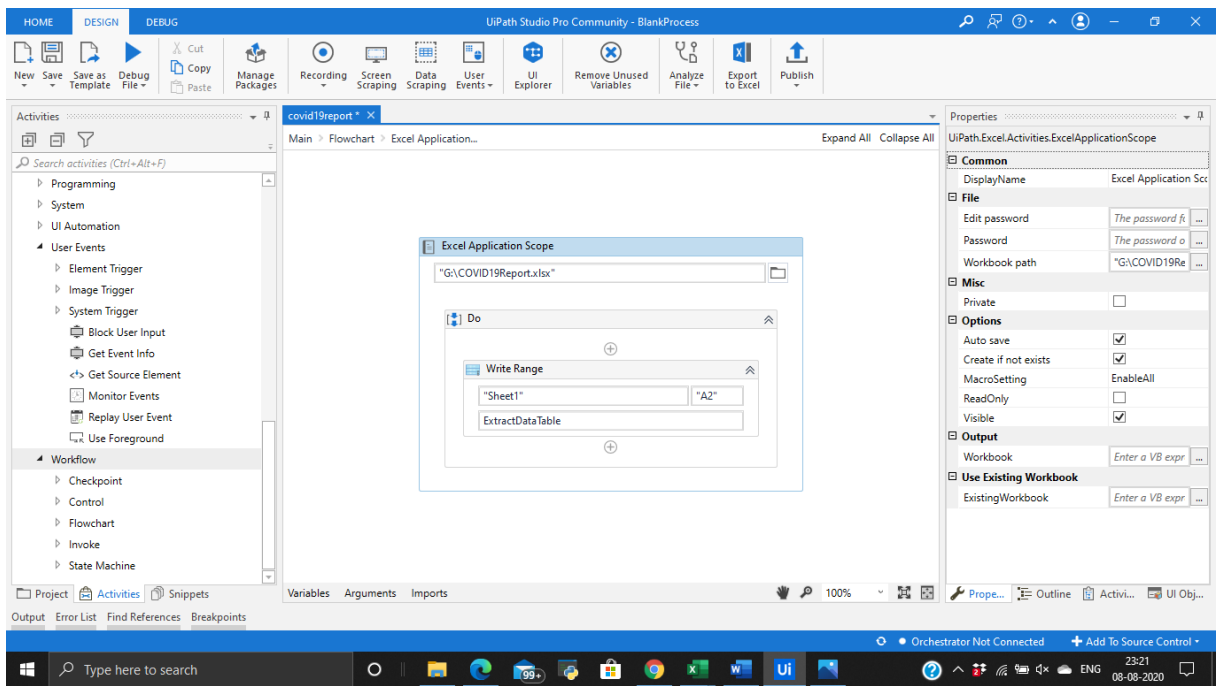


Fig 5 Excel Application Scope

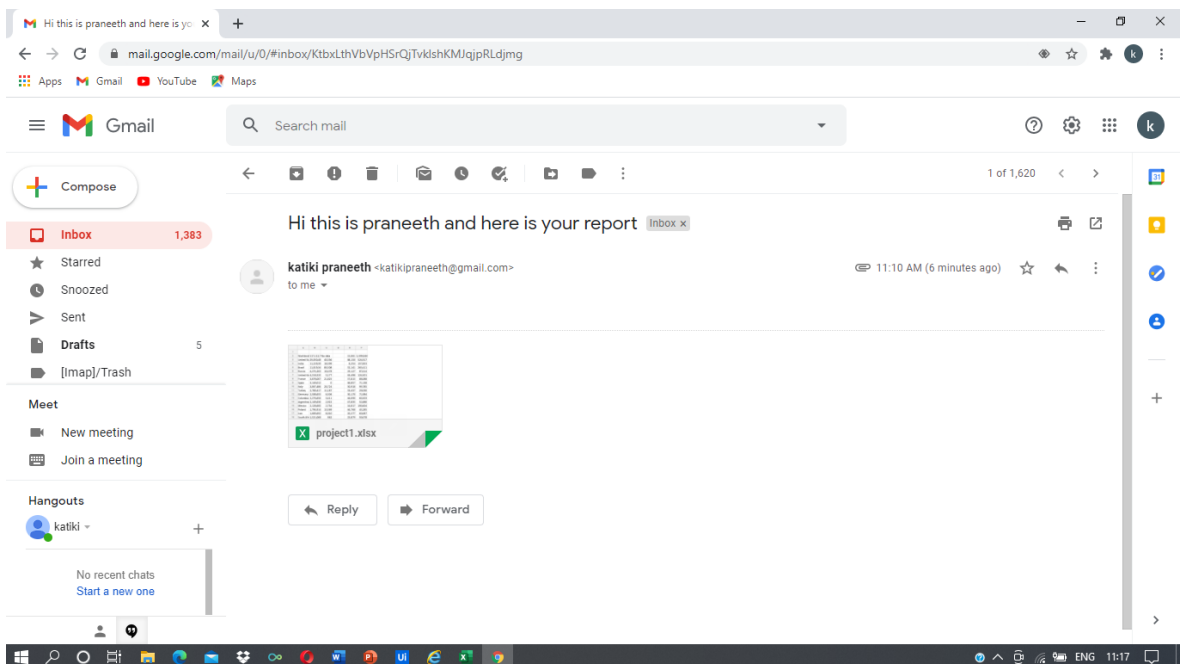


Fig 6 Output -1

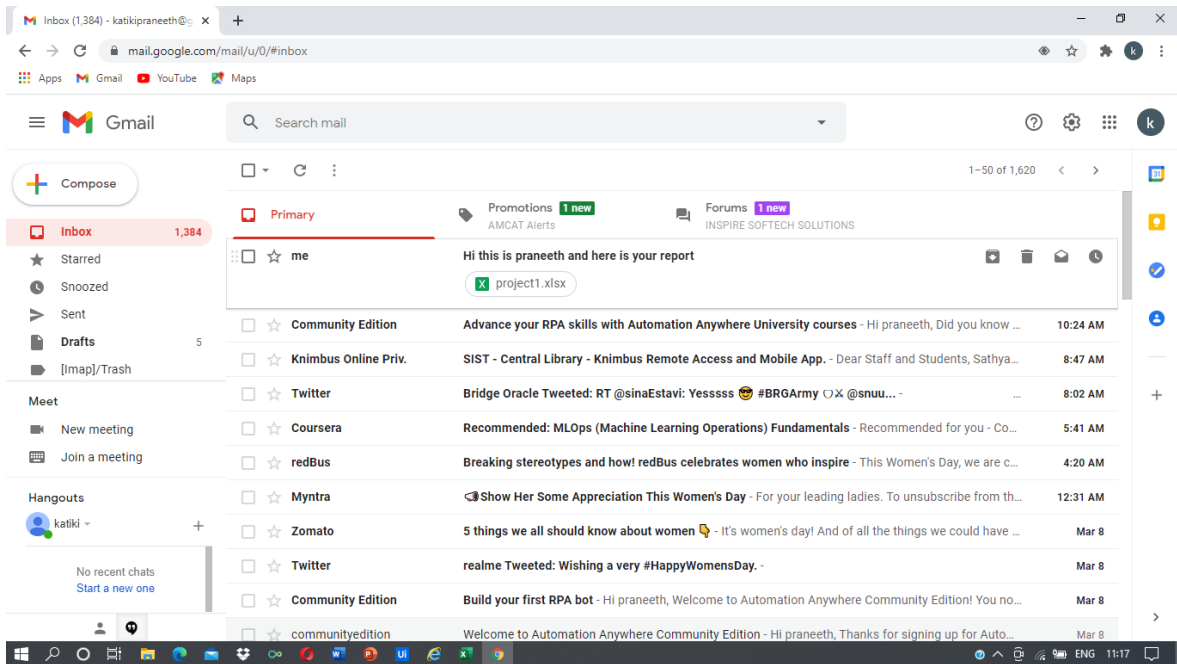


Fig 7 Output -2

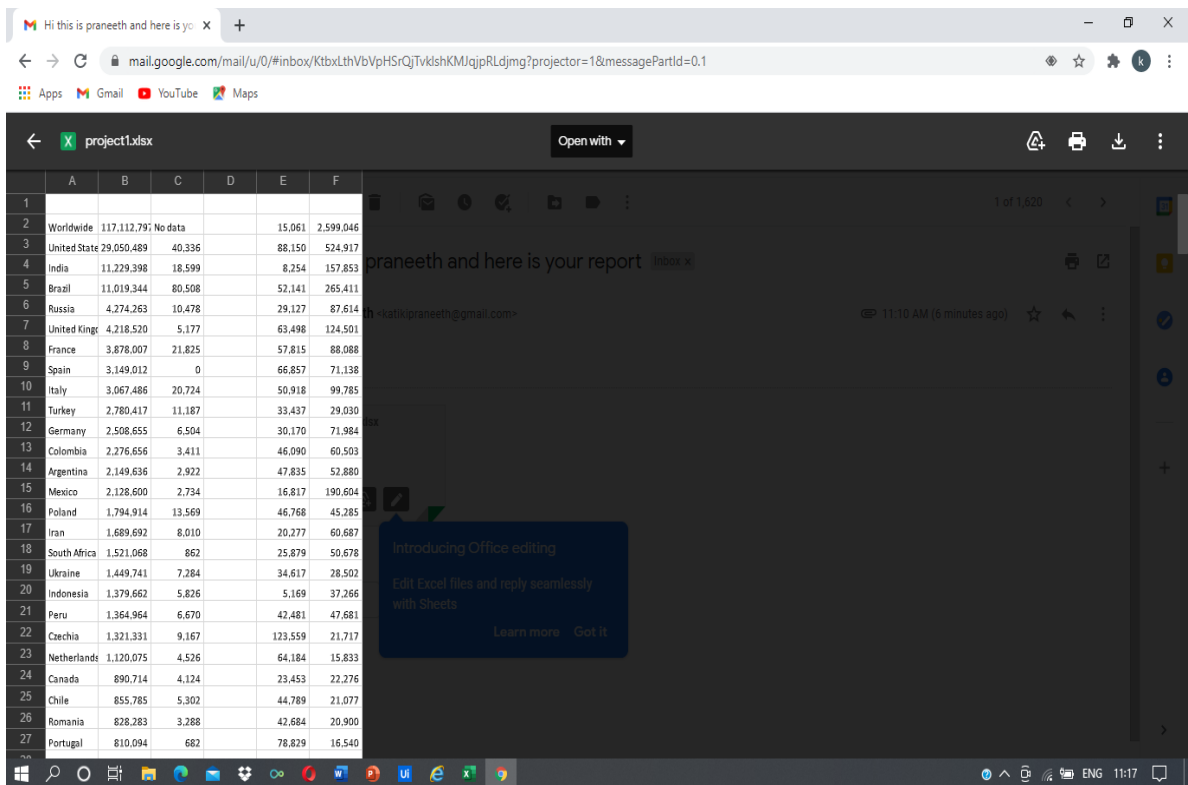


Fig 8 Output -3